STUDIES IN SOUTHERN WAKASHAN (NOOTKAN) GRAMMAR

by

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Abbreviations and Symbols

General abbreviations

1	First person	EPEN	Epenthetic vowel
2	Second person	FUT	Future
3	Third person	GOIMPER	'Go' Imperative
ADVISE	Advisitive	GRAD	Graduative
APPEN	Appended vowel	HAB	Habitual
ART	Article	IMPER	Imperative
ASSER	Assertive	INCEP	Inceptive
BEN	Benefactive	INCR	Velar increment
BFR	Buffer consonant	INDEF	Indefinite
CAUS	Causative	INDIC	Indicative
CNTR	Contrastive particle	INFER	Inferential
ComeIMPEI	R 'Come' Imperative	INFERI	Inferential I
COND	Conditional	INFERII	Inferential II
CONT	Continuative	INTENT	Intentive future
CONTENT	Content Interrogative	INTERR	Interrogative
DEF	Definite	IRR	Irrealis
DEM	Demonstrative	ITER	Iterative
DIM	Diminutive	Kw	Kwakwala (= Kwakiutl)
DISC	Discourse particle	М	Makah
DISTR	Distributive	MIR	Mirative
DUB	Dubitative	Ν	Nuuchahnulth (= Nootka)
DUR	Durative	NW	Northern Wakashan

PERF	Perfective	QUOT	Quotative
PINV	Passive-inverse	REL	Relative
PL	Plural	REP	Repetitive
POLAR	Polar Interrogative	RESP	Responsive
POSS	Possessive	SUBOR	Subordinate
PRED	Predicative	SW	Southern Wakashan (= Nootkan)
PSW	Proto-Southern-Wakashan	TEMP	Temporal specifier
PURP	Purposive	VOC	Vocative
PW	Proto-Wakashan		

Makah speakers contributing to the present project

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HW	Helma Swan Ward	MP	Meredith Parker
HS	Hugh Smith	KH	Katie Hunter
II	Isabell Ides	RC	Ruth Claplanhoo

Morpholexical diacritics

- boundary between affix and base
- = boundary between clitic and host
- <x> infix or epenthetic vowel that separates the consonants of a morpheme (in Makah)
- V· long vowel
- V: persistently long vowel (§3.1)
- -' =' glottalizing suffix or clitic (\$3.3.2, \$3.4.2)
- -' leniting suffix (§3.3.3, §3.4.2)
- $=^{\circ}$ mutating clitic (§3.4.2)

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- .- after a consonant, a final segment that resists the effects of glottalizing and leniting suffixes and instead requires insertion of glottal stop (§§3.3.2-3.3.3). After a vowel, a segment that does not undergo reduction with following *2*V sequences (§3.3.4).
- -.' non-reducing glottalizing suffix (§3.3.4)
- -.? suffix with non-reducing initial glottal stop (§3.3.4)
- h^{w} final h in Nuuchahnulth that becomes /w/ preceding glottalizing suffixes and /w/ preceding leniting suffixes (§§3.3.2-3.3.3)
- d^{w} final d that becomes $/\dot{w}/$ in Nuuchahnulth and /w/ in Makah preceding glottalizing suffixes and /w/ preceding leniting suffixes (§§3.3.2-3.3.3, §3.4.2)
- *P*-, *T* root-final /p/ or /t/ in Makah that become /b/ or /d/ preceding glottalizing and leniting suffixes (§3.4.2)
- -q- buffer consonant inserted between certain (generally vowel-final) bases and certain suffixes (§5.2.2.1)
- (t)- final t that is lost preceding glottalizing/leniting suffixes and a few other suffixes (§3.3.7)
- $-(\check{c})$, -(y), -(q), etc. suffix-initial consonant that is lost following consonant-final bases but retained following bases with final vowels or (in Nuuchahnulth) coda nasals (§3.3.8)
- $-\underline{\check{c}}$, $-\underline{\check{s}}$ suffix-initial consonant in Nuuchahnulth that has variable surface realizations depending on the final segment of the base (§3.3.9)
- [L], [R], [R+L], etc. indicate the CV template associated with a particular affix (§3.3.1) or semantic category (§5.5.4)

ABSTRACT

Studies in Southern Wakashan (Nootkan) Grammar

by

Matthew Davidson

This dissertation is a study of Southern Wakashan (Nootkan) grammar using data from two languages, Makah and the Tseshaht dialect of Nuuchahnulth (Nootka). The phonology, morphology, and syntax of each language are examined with emphasis on structurally important or typologically interesting features. The description of Makah is based mostly on field data collected in Neah Bay, Washington by the author. Nuuchahnulth data is drawn from Sapir and Swadesh's two published text collections on the language (Sapir & Swadesh 1939, 1955).

Chapter One introduces the Southern Wakashan family and describes the nature of the present study, explaining how the dissertation came to be written, the corpus used in the study, and previous literature on Southern Wakashan. Chapter Two summarizes Southern Wakashan segmental phonology with a presentation of the Nuuchahnulth consonant and vowel inventories, basic allophonic processes, ablaut patterns, and discussion of the special behavior of nasals when they appear in syllable codas. The accent systems of the two languages are also briefly described and compared. Chapter Three, Phonological Alternations, describes a variety of alternations triggered by affixation, including glottalization and lenition of final base segments by affixes, alterations to the CV skeleton of bases required by affixes, and, in Makah, widespread patterns of vowel insertion and loss. Chapter Four is a grammatical sketch of Southern Wakashan divided into sections on word classes, morphology (word structure, lexical suffixes, and aspect), predicate structure, basic clause structure (referring phrase functions, constituent order, clause types), referring phrases, and complex constructions. Chapter Five examines the recursive polysynthetic word structure more closely. Chapter Six presents the aspect system. Chapter Seven, Clitics, describes mood and pronominal clitics, as well as other clitics associated with predicates. Chapter Eight argues that, although word classes are very weakly grammaticalized in Makah and Nuuchahnulth, distributional evidence is available for distinguishing nouns (and other nominal subcategories) from verbs. It goes on to show many examples of nominals and verbs in each of their possible syntactic contexts. Lists of lexical suffixes in Makah and Nuuchahnulth and selected Makah vo-cabulary are provided in two appendices.

1 Introduction

This dissertation is a description of major features of Southern Wakashan (Nootkan) grammar using data from two languages, Makah and Nuuchahnulth (formerly called Nootka).¹ Because the dissertation is descriptive in intent and written for a general linguist audience rather than practioners of a particular linguistic theory, no specific grammatical formalism or framework is employed. Southern Wakashan does, however, raise various issues of theoretical import, and, at appropriate points, theoretical implications are considered. The grammatical concepts and terminology used in the description are generally vernacular among linguists, apart from those specific to the Southern Wakashan descriptive tradition; these are defined as necessary.

The dissertation is organized as follows. The remainder of the present chapter is divided into sections on the genetic affiliation of Makah and Nuuchahnulth (§1.1), an explanation of how the dissertation came to be written (§1.2), a discussion of the corpus (§1.3), and consideration of previous literature on the languages (§1.4). Chapters Two and Three describe segmental phonology and phonological alternations, respectively. Chapter Four is a general overview of Southern Wakashan morphology and syntax. Chapter Five is a description of certain features of the polysynthetic word structure. Chapter Six gives an account of the aspect system. Chapter Seven describes clitics, and Chapter Eight describes word classes.

1.1 Genetic affiliation

Southern Wakashan (also known as Nootkan), the southern branch of the Wakashan language family, is a small and fairly homogeneous subfamily comprised of three languages. Nuuchahnulth is spoken in British Columbia, Canada along the west coast of Vancouver Island from Cape Cook to Pachena Point. Aboriginal settlement patterns, in part necessitated by weather and distribution of economic resources, have created several dialect groups, each containing a few distinct dialects or subdialects (cf. Drucker 1951: 3-10). The dialects represented in Sapir and Swadesh's publications on the language (and hence in this dissertation, §1.3) are Barkley Sound and Alberni Canal dialects, mostly Tseshaht (*ciša*·?*ath*), but also Ucluelet (*yurłu?ił?ath*) in texts dictated by the speaker Kwishanishim in Sapir & Swadesh (1955). A few forms from the more northern Clayoquot ($\lambda a?u'k''i?ath$) and Ahousaht (2a'hu's?ath) dialects can be found in some of the history texts in Part 8 ("Warfare") of Sapir & Swadesh (1955).

The other two languages in the family are Ditidaht (also Nitinaht or Nitinat), spoken south of Nuuchahnulth on the southern coast of Vancouver Island, and Makah, the only Wakashan language in the United States, spoken in the vicinity of Cape Flattery on the Olympic Peninsula in Washington State. Today, most Makah speakers reside in Neah Bay, Washington, but this was originally only one of five Makah villages: Neah Bay (di·ya), Bahaada (bi2id2a), Sooes (cu·yas), Waatch (wa2ac), and Ozette (2use2it). With the exception of Ozette, all these sites are still occupied, but Neah Bay is the most populous.

1.2 Genesis of the dissertation

My first exposure to a Southern Wakashan language took place during thirteen months of field work on Makah under the auspices of the Makah Cultural and Research Center at Neah Bay. The thirteen months were spread over three trips from 1996 through 1998 (mid-August through mid-September 1996; May-June 1997, and February-December 1998). The present dissertation was originally intended to be a comprehensive grammar of Makah based on material gathered during these trips, but data problems intervened to prevent this plan. Not having anticipated certain challenges of working in a language death situation,² I failed to gather Makah data that was sufficient in either quantity or reliability to support the kind of grammar I planned to write. Because Southern Wakashan languages are so closely related (the main differences between them are phonological and lexical), a logical solution to the data quandary was to augment my Makah data

with Nuuchahnulth material from Sapir and Swadesh's (1939, 1955) text collections on this language, thereby widening the scope of the project to a general study of Southern Wakashan grammar.

An essentially complete draft using only Nuuchahnulth data was written first. Generalizations were either drawn from the previous literature on Nuuchahnulth (§1.4), which was then cited accordingly, or reformulated or expanded based on earlier analyses in the literature, or, if necessary, formulated anew. Most generalizations fall into the second of these categories. In any case, all analysis was tested against the corpus described in §1.3. Considerable effort was made to use fresh examples from the corpus even when the analysis was based on the work of earlier authors.

The first Makah section written was the Makah appendix to Chapter 3 (Phonological Alternations). Jacobsen's papers on Makah were an especially important resource for this section (and for Chapter 7), although original data from my fieldwork (§1.3) was introduced wherever possible. Next, Makah data was compared with the generalizations achieved from the investigation of Nuuchahnulth described in the rest of the dissertation. Sometimes Makah examples could simply be added with no changes to the accompanying text, but more often Makah-specific description had to added. The final sections prepared were the list of lexical suffixes and the Makah vocabulary found in Appendices A and B.

1.3 Corpus

The Nuuchahnulth corpus consists of all 80 texts in Sapir's (1924) and Sapir & Swadesh's (1939, 1955) publications on the language. The texts were entered in a Microsoft Access database. The complete computerized Nuuchahnulth corpus amounts to 16,648 sentences, 28,590 distinct word types, and 81,413 word tokens. The corpus locations of example words in the phonology and word structure chapters (Chapters 2-3, 5) are usually not given, but sentence examples in other chapters are cited by page and line number in Sapir (1924) (abbreviated "RW"), Sapir & Swadesh (1939) ("NT"), and Sapir & Swadesh (1955) ("NA"), e.g. NA 159.4 indicates the example is found on the fourth line of page 159 in Sapir & Swadesh (1955).

Sentences illustrating this or that grammatical construction often contain complications that might obfuscate, rather than illuminate, it. Accordingly, I have introduced two sorts of modification when citing Nuuchahnuth text sentences in support of grammatical claims. The first is omission: grammatically optional words or clauses irrelevant the point being made are sometimes left out. Ellipses indicate omitted material. For example, a text sentence intended to demonstrate a simple transitive clause like the Nuuchahnuth analogue of *The next morning they charred their canoe-bottoms to make them smooth in the water* might be simplified in the dissertation example to ...*They charred their canoe-bottoms*...

The second sort of modification involves altering (but not omitting altogether) some feature of an example sentence, or, occasionally, adding material to it to clarify its structure. For example, a first person mood marker with overt form might be substituted for a zero third person form, or *They charred their canoe-bottoms* might be changed to *The men charred their canoe-bottoms* in an example intended to show the typical position of the subject expression. A modified example sentence is indicated by "based on" (e.g. "based on NA 159.4").

The published translations are generally more faithful to the structure of the original Nuuchahnulth in Sapir (1924) and Sapir & Swadesh (1939). As Swadesh (Sapir & Swadesh 1955: 2-3) explains, translations in the 1955 volume tend to paraphrase rather than translate exactly. For this reason I have modified some original translations in example glosses to more closely reflect the original structure.

The 1955 text volume is, unfortunately, riddled with spelling errors, presumably printing or typographic errors, which renders it almost useless as a data source to linguists not thoroughly familiar with Nuuchahnulth grammar and vocabulary. Nearly every page has at least one error, and many have multiple errors. Page twenty-one, for example, has at least eight: e.g. the suffix 'on the ocean' in the word $q^wa\dot{m}a\cdot qimtasistma2i\cdot q\lambda uk?itq$ 'however many roundish objects they wish to have on the ocean' on line four is a misprint for $-a\check{c}i\check{s}t$ (the correct form of the word is thus $q^wa\dot{m}a\cdot qimta\check{c}i\check{s}tma2i\cdot q\lambda uk?itq$), the root $mina\cdotti$ 'fishing bank' on line 14 should be $\dot{m}ina\cdotti$, $inks\dot{y}iqinqa$ on line 39 'using a stick as bait' is missing an initial glottal stop (the correct form is ?inksyiqinqa), etc. Such errors have been corrected in cited examples without comment.

The grammatical notes and especially the lexical materials in Part III of Sapir & Swadesh (1939: 235-334) were very important in the preparation of the present work. Analysis of the composition of the Nuuchahnulth lexicon and all claims about the occurrence or non-occurrence of forms in it is based on the lists of "primary stems" and suffixes in this source.

Makah data informing the present description comes from several sources. In addition to my own elicitation notes and texts that I have collected (primarily from speaker HW), several researchers (Ann Renker, Maria Pascua, and Cora Buttram) kindly allowed me access to their Makah notes. I have also made use of various texts that are on file in manuscript form at the Makah Cultural and Research Center. These were written or recorded by various speakers in the 1980's and 1990's and edited either by myself or by members of the Makah Language Program. Example sentences from texts are cited in the dissertation with the speaker's initials and the name of the text. I also consulted a long text by speaker KH that was recorded by Scott Tyler and transcribed by John Thomas in late 1970's. Papers on various topics in Makah grammar by Jacobsen (listed below in §1.4) were also consulted as noted in relevant places in the dissertation.

1.4 Previous literature

Despite the fact that the Southern Wakashan languages have attracted some of the finest minds in North American linguistics, only one complete grammar is available, Rose's (1981) grammar of the Kyuquot dialect of Nuuchahnulth. This work provides an important counterbalance to the rather anemic view of Nuuchahnulth syntax presented by Swadesh (1939) and, among other discoveries, recognizes the imperfective/perfective nature of the aspect system. There is a fair amount of descriptive material on Southern Wakashan in theses, journal articles and conference presentations. Much of this material is about the Tseshaht dialect of Nuuchahnulth, and is the work of Edward Sapir (Sapir 1911a, 1915, 1924, 1929, 1938), who initiated the scientific study of Nuuchahnulth, and his student and colleague, Morris Swadesh (Swadesh 1931, 1933, 1939, 1948a). There are also the two volumes of Nuuchahnulth texts edited by Sapir and Swadesh (1939; 1955). Other notable works on Southern Wakashan languages other than Makah or not exclusively on Makah include two Nitinaht texts with grammatical analysis (Swadesh & Swadesh 1933, Touchie 1977), papers on historical reconstruction by Haas (1969) and Jacobsen (1969a), a discussion of labialization in Nootkan languages (Jacobsen 1969b), an investigation of Nootka-Nitinaht stem and root structure (Haas 1972), a discussion of variable-length vowels in Nuuchahnulth (Klokeid 1975), a thesis on Nuuchahnulth phonology (Rose 1976), studies of Nitinaht enclitics (Klokeid 1976, 1978), a note on Nitinaht numerals (Hess 1990), a discussion of Mary Haas's contributions to Wakashan linguistics (Jacobsen 1997b), and several papers on Nootkan syntax (Rose & Carlson 1984, Whistler 1985, Emanatian 1986, Jacobsen 1993, Nakayama 1997b). The interaction of discourse and morphosyntactic structure in Nuuchahnulth is discussed in Nakayama (1997a); Nuuchahnulth-Nitinaht ablaut and reduplication patterns are discussed in Stonham (1994a). Stonham (1999) describes noun phrase structure in Nuuchahnulth.

Work on Makah was begun in the early 1960s by W. H. Jacobsen, Jr. His research has focused on various aspects of the (morpho)phonology, morphology, syntax, and lexicography of the language. This research program has produced the bulk of our knowledge of Makah. A number of papers concentrate on phonology or morphophonology. Jacobsen (1968) addresses the issue of glottalized resonants in the historical reconstruction of Makah and uses this reconstruction to account for some synchronic morphophonemic processes in the language. Jacobsen (1971) discusses the widespread patterns of vowel insertion and vowel loss. Ablaut in vocative forms is presented in Jacobsen (1994). Jacobsen (1996) describes the morphophonemic processes of "hardening" (i.e. glottalization) and "softening" (i.e. lenition) in Makah. Two papers, (Jacobsen 1997a, 1998a), deal with ablaut/reduplication patterns. Jacobsen (1998c) describes labialization dissimilation. Finally, Jacobsen (1999a, 2000) discuss the "velar increment", an excrescent /k/ that appears in certain forms. In addition to these papers, there is another publication (Jacobsen 1979b, 1999b) that contains useful discussion of the segment inventory, pronunciation, and morphophonemics, as well as several modal paradigms.

Jacobsen's works on Makah morphosyntax include Jacobsen (1973), which presents the system of pronouns and mood forms, and Jacobsen (1979a), an important paper that uses Makah data to establish morphological and syntactic criteria for distinguishing word classes in Nootkan languages, which are often claimed to have no noun/verb contrast (cf. Sapir & Swadesh 1939: 235-36 and Renker 1987). Other papers are Jacobsen (1979c), which considers the relationship of Makah to the other Wakashan languages and discusses the history of Wakashan comparative studies, Jacobsen (1980), on the semantics of Makah neologisms, and Jacobsen (1986), which presents the Makah evidential system. Jacobsen (1998b) discusses an early Makah word list collected in 1792 by Spanish explorers.

The other researcher who has worked on Makah is A. Renker. Her American University dissertation (Renker 1987) examines the behavior of AUX elements in Makah grammar and con-

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cludes that an appropriate characterization of these elements obviates the need for a noun/verb distinction in Makah. In the course of the analysis, she presents part of the clitic system that codes tense, person, mood, and evidentiality, as well as a classification of stem types based on their co-occurrence patterns with various AUX elements.

Several anthropological works contain information on Makah, including Waterman (1920), a discussion of Makah whaling equipment, Gunther (1936) on ethnozoology, and Gunther (1945) and Gill & Renker (1985) on ethnobotany.

2 Segmental Phonology and Accent

This chapter and the next describe aspects of Southern Wakashan phonology. I have organized the discussion according to two of the three basic tasks of phonological description (cf. Kenstowicz 1994: 57). Thus, the present chapter is concerned with the inventory of consonant and vowel phonemes in Nuuchahnulth. It also touches on ablaut patterns (patterns of functionally significant changes in vowel quality and quantity) and the accent system. Chapter 3 then describes the most important automatic and non-automatic (morpheme-specific) phonological alternations in Nuuchahnulth. Unfortunately, time has not permitted much discussion of phonotactics, that is, the patterns of the distribution of phonemes in the various units of phonological structure (see, however, §2.3), but other authors have made references to the subject, e.g. Sapir (1911a, 1933, 1938), Jacobsen (1969a), Haas (1972), Stonham (1994a), *inter alia*. Rose (1981: 29-31) provides basic information on phonotactics and morpheme structure in Kyuquot dialect. A brief discussion of Makah phonology is provided in §0.

2.1 Consonants

Nuuchahnulth has 37 consonant phonemes, laid out in Table 1 (based on Sapir & Swadesh 1939:12). International Phonetic Alphabet equivalents for Americanist symbols are listed in Table 2.

Because Table 1 is a table of phonemes, not phones, I have organized it giving relatively more consideration to the phonological properties of segments than to similarity of articulation per se. For instance, from a purely phonetic point of view, the glottal stop might be considered a plain voiceless stop, but I have placed it in the "Ejectives" row because, from a phonological and phonotactic point of view, it patterns more like an ejective stop than a voiceless stop — glottal constriction evidently has more influence on its phonological behavior in Nuuchahnulth than lack of voicing. The "ejective pharyngeal stop" /2/ is a similar case. Phonetically, the segment is a glot-

_	Labial	Dental	Alveolar	Lateral	Alveo– Palatal	Velar	Labialized Velar	Uvular	Labialized Uvular	Pharyngeal	Glottal
Stops	р	ť	с	λ	č	k	k^w	q	q^{w}		
Ejectives	\dot{p}	ť	ċ	ŕ	č	ķ	<i>k</i> ^w	\dot{q}	$\dot{q}^{\scriptscriptstyle W}$	2	2
Fricatives			S	ŧ	š	x	x^w	x	x^w	ķ	h
Sonorants	т	n			У		W				
Glottalized Sonorants	ṁ	ń			ý		ŵ				

Table 1. Nuuchahnulth consonant inventory

Table 2. Symbol correspondences						
Nuu.	С	λ	č	š	<u>x</u>	ķ
IPA	[ts]	[tɬ]	[t∫]	[∫]	[x]	[ħ]

Table 2 Symbol correspondences

tal stop with pharyngeal constriction (Sapir & Swadesh 1939: 12-13, Swadesh 1939: 78), but, like the plain glottal stop, it patterns with the ejectives phonologically. Tables of the Nuuchahnulth inventory in other publications sometimes appear to follow phonetics instead of phonology by placing the two glottal stops with the plain stops (e.g. Sapir & Swadesh 1939: 12, Nakayama 1997a: 9). For Sapir and Swadesh at least, this may have been unwitting, since both recognized the importance of phonological considerations (over purely phonetic ones) in the organization of the phonemic system of a language (cf. Sapir 1925, Swadesh 1934). Their practice with other segment classes clearly follows phonology rather than phonetics. Like myself, for example, they (and Nakayama) group the plain and ejective affricates with the plain and ejective stops, whereas a strictly articulation-based classification would have them in separate categories.³ Another case of the phonology-over-phonetics principle in Table 1 is the grouping of the nasals and glides into a single manner category, the "Sonorants" category. Sapir & Swadesh (1939: 12), Rose (1981: 13) and Nakayama (1997a: 9) agree in putting these segments together in a single category.⁴ The phonological motivations for the groupings in Table 1 will become apparent in Chapter 3. A note on orthography: various symbols have been used for the pharyngealized glottal stop in the literature. To cite a few, Sapir (1924) and Sapir & Swadesh (1939) use an apostrophe with underdot, Sapir & Swadesh (1955) use a turned apostrophe (the symbol traditionally used to transliterate Arabic '*ain*), and, more recently, Rose (1981) and Nakayama (1997a) have used a turned glottal stop. I have avoided these symbols in this dissertation because Sapir and Swadesh's modified apostrophe is not a standard symbol in either the Americanist or IPA traditions, and the turned glottal stop and '*ain* symbols are phonetically misleading in that they normally represent a voiced pharyngeal fricative. Instead, I use a glottal stop with superimposed tilde, the IPA diacritic for velarization or pharyngealization (Pullum & Ladusaw 1986: 221); '*2*' is a closer symbolic representation of the segment's articulation.

The Nuuchahnulth consonant inventory has many features of typological interest, most of which are shared by other languages in the Northwest Coast area. An obvious one is its size: with 37 segments, it is large by cross-linguistic standards, but typical of the area, where all the languages have rich consonant systems. Other areal traits of the inventory include:

- A full complement of velar and post-velar segments that includes an opposition between labialized and non-labialized segments;
- An opposition between a plain voiceless stop series and an ejective stop series;
- An opposition between a plain sonorant series and a glottalized sonorant series;
- Multiple lateral segments, including the lateral affricates $/\lambda \lambda'$;
- Glottal stop featured as a segment in the inventory parallel to other stops;
- No labial fricatives, despite an almost complete set of fricatives at other places of articulation;
- No /r/ segment.

For further details and references on Northwest Coast areal phenomena, both phonological and grammatical, see Thompson & Kinkade (1990).

The consonants show little allophonic variation. One process is coda aspiration (Sapir 1924: 84, note 8; Sapir & Swadesh 1939: 12): Sapir's (1924) phonetic transcription shows that voiceless plain (non-ejective) non-affricate stops /p t k $k^w q q^w$ are aspirated when they appear in syllable codas; otherwise they are only lightly aspirated or unaspirated. (See note 7 for a brief description of syllable structure.) Thus (with normalized transcription), ma^2ak [ma:?ak^h] 'California whale', but kaxi^{*}kis [kaxi:kus] 'Kahikis (place name)'. This rule also applies in coda clusters: $\dot{c}itkpi\lambda$ [ts'ut^hk^hput[‡]] 'lie down in the house on (one's) back'.

2.2 Vowels

Sapir & Swadesh's (1939: 12–13) analysis of the vowel inventory is shown in Table 3.⁵ Symbols are adjusted to reflect current orthographic practice in the Southern Wakashan descriptive literature (see note 6). Approximate phonetic values (inferred from Sapir's 1924 phonetic transcription system and Sapir & Swadesh's 1955: 3-4 pronunciation notes) are as follows:

- *i* [1] high front unrounded lax, as in Standard American English (SAE) *pit*
- *i*' [i:] high front unrounded tense long, as in SAE *Pete*
- *u* [0] high back rounded lax, as in SAE *put* (but see below)
- *u*' [u:] high back rounded tense long, as in SAE *hoot* (but see below)
- a [a] low central unrounded, as in SAE pot
- *a*' [a:] low central unrounded long, as in SAE *father*
- e [ϵ] mid front lax, as in SAE pet
- *e*' [e:] mid front tense long, as in SAE *pate*
- o [5] mid back lax, as in SAE bought
- o' [5:] mid back lax long, as in SAE dog

	Front	Central	Back
High	i i'		u' u'
Mid	e e'		0 0'
Low		a a'	

Table 3. Nuuchahnulth vowel inventory

The high back vowels are actually more open than the cardinal value, having the lip rounding of the vowel in *hoot* but the height of the vowel in *coat* (Sapir & Swadesh 1939: 13, 1955: 4).⁶

The mid vowels in Table 3 are phonemically marginal. Although common on the surface (except the short mid back vowel — see below), most occurrences are secondary, arising from one of two sources. First, the long mid vowels $/e^{-} o^{-}/$ often appear as ablauted variants of the six basic (i.e. non-mid) vowels $/i i^{-} u u^{-} a a^{-}/$ in emphatic vocative and "calling out" forms (§2.4), and also in some interjections, e.g.

(1) *?e'* (expressing dissatisfaction)

hane' 'hey!'

he^{*i*} (implying that a statement is true in a surprising way or to a surprising degree)

ho'wi (expressing willingness and intention of doing as requested)

Second, the mid front vowels /e e⁻/ can result from an umlaut rule that raises and fronts /a a⁻/ to /e e⁻/ preceding /i i⁻/ with only glottal stop intervening, e.g. *tana* 'child', *tane?is* 'little child' (§3.2.1).

Since the ablaut variants /*e^r* o^{*r*}/ have functional significance, they must be considered phonemic. There are also a very few occurrences of /*e* e^{*r*}/ in underlying forms of native vocabulary (not attributable to umlaut) that support their phonemic status. The short mid front vowel appears underlyingly (and not from umlaut) in a few interjections and a single root in Sapir & Swadesh's (1939: 243-316) list of "primary stems": *ke?e^rckat-* or *kacke?e:t-* 'jump on one leg, hop'. The long front mid vowel also appears in this root as well as in a few personal names (some of which may not be of Nuuchahnulth origin), e.g. woman's name $\check{c}e^{\prime}Pakam$. The short mid back vowel $\langle o \rangle$ seems to occur only as an allophonic variant of $\langle u \rangle$ and is therefore probably non-phonemic.

Vowels show more tendency for allophonic variation than the consonants. There is no complete, systematic account of Tseshaht dialect vowel allophony that I am aware of, but the following allophones can be posited from comments in Sapir (1924) and Sapir & Swadesh (1939: 13).

All vowels are characterized by "a breath-release" in word-final position (Sapir 1924: 84, note 9). It is not heard when the word is pronounced in close proximity to the next word. Thus, Sapir (1924: 76) transcribes *?ink?ir* 'the fire' as [?unək^h?u^h] (transcription normalized; for the aspiration of /k/ see §2.1; for [ə] see §2.3).

The pharyngeal consonants condition another set of allophonic vowel processes. These consonants have certain coarticulatory effects on adjacent high vowels. The pharyngeal fricative /h/is said to have a "voiceless *a*-timbre [that] colors and lowers following high vowels" (Sapir 1924: 83, note 3). The examples in (2) show two roots with short high vowels preceded by /h/, both in phonemic representation (in slashes) and Sapir's phonetic notation (in brackets).

(2) /his-/ [hɛs] 'blood' /hus-/ [hɔs] 'salt water'

These lowered allophones of the high vowels are tenser than the mid-vowel phonemes in Table 3, ensuring that we are dealing with an allophonic process here rather than a neutralizing one (cf. Sapir 1924: 85, note 22).

This "coloring" also affects long vowels, creating what Sapir & Swadesh (1939: 13) refer to as "pseudo-diphthongs", e.g. the suffix -ashu'(t) 'at the chest' is transcribed by Sapir (1924: 87, note 44) as [ashau4]. In word-final position, however, /i'/ is usually [e:] after /h/, e.g. 2athir 'night' is transcribed as [?athe:]. Sapir also records the [e:] allophone word-medially in a few cases: hihirssut 'bloody-eyed' is transcribed as [hehe:ssu4].

Evidently this lowering influence also extends to some preceding high vowels:

Table 4 summarizes the effects of pharyngeals on the high vowels that can be gleaned from Sapir's (1924) transcriptions. More study is required to determine the conditioning environments for those segments listed with multiple allophones, and also to determine whether the gaps in Table 4 are real or only due to lack of data.

	i	ir	и	u'
<u>h</u>	[ɛ]	[ɛ] [eː][ɛi] [ai]	[၁]	[au] [ɔu]
<u></u> h	[ɛ]	$[i!][i^{\varepsilon}]$	[၁]	
2	[ɛ]	[ɛi] [ai]	[၁]	[au] [ɔu]
2	[e]			

Table 4. Articulatory effects of pharyngeals

Uvular stops have similar effects to the pharyngeals, although these appear more sporadic; Sapir & Swadesh (1939: 13) speak of "*e*-glides due to *q*". For example, the suffix -qi 'on top' in *Papqi* '(on) the summit' is transcribed by Sapir (1924: 87, note 44) as $[qe^h]$.

2.3 Coda nasals and post-nasal murmur-vowels

Nasal consonants in syllable codas are pronounced with a schwa-like murmur-vowel release (Sapir & Swadesh 1939: 13), e.g. *cikimin* 'iron' [tsıkımınə], *čims* [tšıməs] 'black bear', *hunqsimč* [hunəq^hsımətš] 'do a ritual to catch drift-whales', *2ink^w* [?ınək^h] 'fire'.⁷ Sapir described the sound of this post-nasal release vowel in several passages over the course of his writings on the language. In one early work he called it a "short open *i*-vowel of rather unclear quality" (1915, reprint 1949: 196). Later, he referred to it variously as a "murmured *i*-vowel" (1924: 84, note 9), a "murmured vowel of *i*-timbre" (1933, reprint 1949: 57), a "light *i*-murmur release"

(1938, reprint 1949: 235), and (with Swadesh) a "voiced murmur-vowel release" (Sapir & Swadesh 1939: 13). My characterization of it as schwa follows Rose (1981: 21).

The status of these murmured schwas as mere phonetic concomitants to coda nasals may imply that they are phonologically inert, but this is only partially accurate. It is true that they are invisible for purposes of syllable counting (and hence not represented in the current orthography⁸), e.g. *?ink*^w 'fire' is monosyllabic, as the behavior of attached suffixes with long vowels (§3.1) shows: the vowel in the locative suffix *-ars* 'on a horizontal surface' is long if the suffix falls in the first or second syllable of a word (e.g. *cik-ars* 'aslant on it'), but, in third or later syllables, it is short (e.g. *samat-as* 'crawling around on it'). In *?ink^w-ars* 'fire on it', the vowel is long, proving *?ink^w* is monosyllabic. However, murmur-vowels *do* count as vowels for "linear" phonological processes — suffixes that directly follow murmur-vowels take post-vocalic forms. For example, certain suffixes have an initial consonant that is lost following consonant-final bases, but retained following vowel-final bases, including bases with final coda nasals and murmur-vowels (§3.3.8). The locative suffix *-(c)sa:ta* [L] 'on the forehead' is one such suffix.⁹ The bracketed initial consonant is lost following the consonant-final base *wik* 'not, nothing' in (4)a, but retained following the vowel-final base *ka-* 'stick-like object protruding' in (4)b. (4)c shows that the initial consonant is also retained following the coda nasal and its murmur-vowel.

 (4) a. Consonant-final base wirksarta wik-(c)sarta [L] not-on.forehead 'nothing on the forehead'

> b. Vowel-final base ka^{*}csa^{*}ta ka-(c)sa:ta [L] stick.like.object.protruding-on.forehead

> > '(feather) protruding from the forehead'

 c. Base with final coda nasal and murmur-vowel *?imcsa'ta* [?ımətssa:ta] *?im-(c)sa:ta* [L] locative.root-on.forehead 'on the forehead'

Leniting suffixes (§3.3.3) provide another example. These suffixes, symbolized by - ', have no effect following stop consonants (5)a, but following vowels (5)b or coda nasals with murmur-vowels (5)c, they require insertion of a glottal stop:

- (5) a. Stop-final base *?iqis ?iq-'is* still-on.beach 'still on the beach'
 - b. Vowel-final base ?a?u?is ?a-'u:-'is schooling.fish-lie.in.wait.for-on.beach 'camp on the beach waiting for schools of fish'
 - c. Base with final coda nasal and murmur-vowel ?apŵin?is [?apŵinə?is] ?ap-ŵin-'is locative.root-in.middle-on.beach 'in the middle on the beach'

For a third example, the possessive clitic takes the form = uk when following consonant-final bases (6)a, but = 2ak following vowel-final bases (6)b. Bases ending with coda nasals and murmur-vowels are again treated as vowel-final bases (6)c:

(6) a. Consonant-final base čakupuk?i čakup = uk = ?i' man=POSS=ART

'her husband'

b. Vowel-final base čiḥa·?ak?i čiḥa·=?ak=?i· ghost=POSS=ART

'his ghost'

c. Base with final coda nasal and murmur-vowel ?a'čsa'tim?ak?i ?ač-(c)sa:ta [L]-im = ?ak = ?i' wedge.up-on.forehead-thing=POSS=ART
'his head-flattener'

Syllables containing coda nasals pattern with syllables containing long vowels with respect to a morpheme-specific process of vowel lengthening (§3.3.1). Some suffixes require phonological alterations to the first syllable of their base such as initial CV reduplication or vowel lengthening. If the first syllable vowel is already long, it is not affected — there are no overlong vowels. Compare the effect a suffix of this type has on bases with underlying short and long vowels (7)a-b with its effect on a base with an underlying coda nasal in the first syllable (7)c.

 (7) a. Base with an underlying short vowel in first syllable wirksarta wik-(c)sarta [L] not-on.forehead

'nothing on the forehead'

 b. Base with an underlying long vowel in first syllable 2u*šsa*ťa 2u*š-(c)sa*ťa [L] something-on.forehead

'something on the forehead'

c. Base with an underlying coda nasal in first syllable *?imcsa·ta* [?ımətssa:ta] *?im-(c)sa:ta* [L] locative.root-on.forehead 'on the forehead'

Neither the underlying long vowel in (7)b nor the syllable with the coda nasal in (7)c are affected by the suffix-induced length. However, the underlying short vowel in *wik* 'not' in (7)a is lengthened to *wirk*.

Post-nasal murmur-vowels are in origin reductions of original full vowels, either through historical change or through synchronic alternation. To begin with the historical, compare the Makah and Nuuchahnulth forms in (8). For present purposes, the Makah forms are assumed to represent the original Proto-Southern-Wakashan vowels. (Note that Nuuchahnulth nasals $/m \ \dot{m} \ n \ \dot{n}/$, reflexes of original PSW nasals, correspond to voiced stops $/b \ d/$ in Makah; here it is Nuuchahnulth that is more conservative).

(8)	<u>M</u>	<u>N</u>	
	?ada·k ^w	?ink ^w	'fire'
	?ada [.] ba	?inma	'breast; milk'
	-'adi	- 'in	'making sound of'
	-ba'da	-min	formative suffix
	-bada <u>x</u>	-ṁinḥ	plural suffix
	-baxi	-mḥi	'suitable for'
	će?idiwa	će?inwa	'barnacle sp.'
	ċibiťawi:	<i>ċimťu</i> [,]	'squirrel'
	-daba	-nim	'having the objective of obtaining'
	-i:da	-in	formative suffix
	λ̃aba's	λ̃ims	'soft fat, marrow'
	-subač	-simč	'doing ritual for'
	sibirt -	simt-	'roast fish over open coals'
	xabaq-	ḥimq-	'dodge, evade'
	widi's	wins	'vehicle right side up, on even keel'

These morphemes exhibit correspondences with regard to nasals and murmur-vowels that suggest three related changes in the history of Nuuchahnulth: 1) the reduction of original PSW full post-nasal vowels (retained in Makah) in vowel-nasal-vowel sequences to murmured non-nuclear (weightless) schwas; 2) incorporation of the now stranded nasals (along with any following consonants not immediately followed by a vowel) into the coda of the preceding syllable, followed by 3) "thinning" of the original pre-nasal vowels to /i/, apparently an assimilatory reaction to the

development of the murmur-vowel (Sapir 1933, reprint 1949: 57, footnote 19). Sapir (1924: 84, note 9), for example, posits *?*an-ak* as etymon of ?*ink*^{*w*}, a reconstruction clearly supported by the modern Makah form ?*ada*' k^{w} . (The source of the long vowel in Makah is unclear; it does not affect the point at hand). Thus, assuming a PSW form for 'fire' like that proposed by Sapir, we surmise the following sequence of changes leading to the modern Nuuchahnulth reflex:

(9)	?a.nak	initial form (period indicates syllable boundary)
	?a.nk	reduction of post-nasal vowel to non-nuclear murmur-vowel
	?ank	incorporation of the nasal (and following consonant) into the
		coda of the preceding syllable
	?ink	pre-nasal $ a $ thins to $ i $

Synchronic alternations between reduced and non-reduced post-nasal vowels occur in nasalinitial suffixes. In schematic form, such suffixes have two alternates, -NV(C)... and -N(C)..., e.g.

- (10) $-nu\lambda$, $-n\lambda$ perfective aspect suffix
 - $-\dot{n}i'$, -n'arrive' $-\dot{n}iq$ -, -nq-'down a slope'-ma, -m'... thing'-mal-, -ml-'moving about'

Addition of a nasal-initial suffix to a vowel-final base creates a vowel-nasal-vowel sequence in which the post-nasal vowel often reduces as outlined in (9). When added to consonant-final bases, on the other hand, the suffix-initial nasal does not follow a vowel, and the post-nasal vowel cannot reduce. Compare, for example, the shapes of $-\dot{n}iq$ - 'down a slope' and -mal- 'moving about' when affixed to consonant-final bases (11)a, (12)a and vowel-final bases (11)b, (12)b.

(11) a. Nasal-initial suffix with consonant-final base kamitqniqsaλ kamitq^w-niq-saλ run-down.slope-on.beach.PERF
 'run down to the beach'
b. Nasal-initial suffix with vowel-final base hitinqsaλ hita-niq-saλ empty.root-down.slope-on.beach.PERF

'go down to the beach'

(12) a. Nasal-initial suffix with consonant-final base ka'yu'pmałapi ka'yu'p-mał-api [L] swing-move.about-in.air

'swinging about in the air'

 b. Nasal-initial suffix with vowel-final base *hirsimłapi hisa-mał-api* [L] there-move.about-in.air 'moving about in the air (there)'

Added to a consonant-final base like $kamitq^{w}$ - 'run', $-\dot{n}iq$ - forms a consonant-nasal-vowel sequence, $/q\dot{n}i/$ in this case, in which the vowel cannot reduce. But following the empty root *hita*-, a vowel-nasal-vowel sequence is formed in which the vowel is subject to reduction:

(13)	hi.ta.ńiq.saλ	underlying form	
	hi.ta.ṅq.saλ	reduction of post-nasal vowel to non-nuclear murmur-vowel	
	hi.tanq.saλ	incorporation of the nasal (and following consonant) into the	
		coda of the preceding syllable (with accompanying loss of glot-	
		talization on the nasal)	
	hitinqsaλ	pre-nasal $ a $ thins to $ i $	

'go down to the beach'

The reduction of post-nasal vowels to murmur-vowels in vowel-nasal-vowel sequences is widespread in the language, but not completely general. Some morphemes have internal sequences with full post-nasal vowels, e.g. along with the suffix *-simč* [L] 'doing ritual for ...' (M *-subač*) with its coda nasal and murmur-vowel (14)a, we find the suffix *-panač* [L] 'moving about at random' (M *-padač*) with an always intact vowel-nasal-vowel sequence */ana/* (14)b.

- (14) a. 2u'simč 2u-simč [L] so.and.so-do.ritual.for 'doing ritual for it'
 - b. ta·panač (*ta·pinč) ta–panač [L] drift–move.about.randomly 'adrift'

There are also nasal-initial suffixes whose vowel does not reduce when the suffix is attached to vowel-final bases. Compare reducing *-nit* 'stocked with ...' with the non-reducing suffix *-na* k^{w} 'having ...':

- (15) a. *Payint Paya-nit* many-stocked.with
 'stocked with many, well stocked'
 - b. ?ayanak (*?ayink) ?aya-na^{*}k^w many-have
 'have many'

Finally, dialects can vary as to which morphemes have reduced sequences and which do not. In Tseshaht dialect, the dialect of most of our examples, the subordinating modal particle *?ani* 'that, because' does not have a reduced vowel; in Kyuquot dialect (Rose 1981), on the other hand, this particle is reduced: *?in*.

Given the existence of both reducing and non-reducing morphemes, it is natural to ask whether any conditioning factors for reduction can be found. Unfortunately, little of substance can be said at this point. Sapir (1924: 84, note 9) relates reduction of post-nasal vowels to lack of accent on the reduced vowel: "The common Nootka groups tn^i and tm^i , in which the ^{*i*} represents a murmured-*i* vowel, go back to fuller forms of type *a* (or *t*, *u*) + *n* or *m* + *a* (or *t*, *u*), in which the second vowel is unaccented." But this fails to account for morphemes like *-panač* in (14), where, according to the basic accent rule (§2.5), the second vowel can never be accented, but remains unreduced.

It is also clear that, in at least some cases, reduction is optional. In the texts, we find, for example, both unreduced $yac\dot{n}a'qin\lambda$ and reduced $yac\dot{n}a'qin\lambda$ 'climb up (to the summit)' and unreduced $yaq^{w}a'nu'\lambda$ and reduced $yaq^{w}in\lambda$ 'that's why, therefore, for this reason':

- (16) a. yacńa qinuλ and yacńa qinλ yac-ńa qi-nuλ walk-on.summit-PERF
 'climb up (to the summit)' (unreduced form at NA 147.44; reduced form at NA 142.29, 31, 32)
 - b. $yaq^{w}arnur\lambda$ and $yaq^{w}in\lambda$ $yaq^{w}-arnur\lambda$ that.which-because.of

'that's why' (unreduced form at NA 142.14, 260.18, 440.28, etc.; reduced form at NT 186.32, NA 70.17, 150.11, etc.)

The reduced forms seem more common.

2.4 Ablaut

The long mid vowels $/e^{-} o^{-}$ replace the six basic vowels in vocative or emphatic calling out forms that occur in direct address. The attested replacement patterns are shown in (17) with examples:

(17) a. $i \rightarrow e^{r}$

hawil' 'chief' $\rightarrow hawe'l'$ $?ahku'?a\lambda uk^we?ic'$ 'here is yours' $\rightarrow ?ahku'?a\lambda uk^we?e'c'$?asčihink' parent and child together' $\rightarrow ?asčihe'nk$

b. $i' \rightarrow e'$

 $\begin{aligned} ?aktck^{w}i' \text{ 'debris from gnawing'} &\to ?aktck^{w}e' \\ ?ałck^{w}i' \text{ 'vomit'} &\to ?ałck^{w}e' \\ ča'kupi' h \text{ 'men'} &\to ča'kupe' h \end{aligned}$

- c. a→ e'
 ciša·?atħ 'Tsisha people' → ciša·?e'tħ
 čita·qma 'weather board' → čita·qme'
 ?e?i'wa boy's name → ?e?i'we'
- d. $a^{r} \rightarrow e^{r}$ $ha^{r}wiya^{r}d$ man's name $\rightarrow ha^{r}wiye^{r}d$ $hica^{r}k$ 'bed platform' $\rightarrow hice^{r}k$ $k^{w}atya^{r}t$ name of mythological character $\rightarrow k^{w}atye^{r}t$
- e. $u \rightarrow o'$

nane?iqsu 'uncles' \rightarrow nane?iqso' $\dot{c}a\cdot\dot{h}aqsul$ 'Toughmouth (man's name)' \rightarrow $\dot{c}a\cdot\dot{h}aqso'l$ $\dot{c}i\dot{c}i\dot{s}a?aqsup$ 'Tsisha women' \rightarrow $\dot{c}i\dot{c}i\dot{s}a?aqso'p$

f. $u^r \rightarrow o^r$ $\dot{c}im\dot{t}u^r$ 'squirrel' $\rightarrow \dot{c}im\dot{t}o^r$ $ka^r?u^rc$ 'grandchild' $\rightarrow ka^r?o^rc$

These replacements are sometimes found in other emphatic circumstances as well, e.g. *yirt* 'yonder' may be emphasized as *yert* (with long, drawn out vowel) 'faaaaaar off yonder'. See Jacobsen (1994) and Stonham (1994a) for further details and analysis.

2.5 Accent

Like vowel allophones, accent in Nuuchahnulth has received little systematic attention from researchers, forcing us again to rely on Sapir (1924) as our source. This text is too short (284 word tokens) for a complete analysis, but a preliminary rule of thumb is presented below that accounts for much of the data.

Sapir's transcription shows that accent placement in Nuuchahnulth is governed by a rather different rule from that found in Makah, formulated by Jacobsen (1979b: 4) as follows: "If the first vowel of a word is long, the accent falls on this syllable; if it is short, the accent falls on the

second syllable.¹¹⁰ The apparent basic rule in Nuuchahnulth is, if the first vowel of a word is short *and* the second vowel is long, the accent falls on the second syllable; otherwise the accent falls on the first syllable. In other words, the first syllable is accented by default.¹¹ The Makah and Nuuchahnulth rules place accent identically except when the first two syllables are both short. In this case, Makah has accent on the second syllable, whereas Nuuchahnulth has accent on the first. The words in (18) show the Nuuchahnuth rule in action. (Here, as elsewhere in the dissertation, Sapir's orthography has been normalized. The glosses are Sapir's word glosses. Accented vowels are underscored).

(18) a	1.	Default placement <u>S</u> S c <u>i</u> tkpi?aλ k <u>a</u> λhšiλ t <u>u</u> hciti t <u>u</u> tuhcaqcu w <u>i</u> kaλuk	'Now lay down in the house on (his) side' (ln. 3) 'appeared' (ln. 7) 'head' (ln. 7) 'Head-at-each-end' (ln. 15) 'Now of (him) was not' (ln. 4)
		LS ? <u>a'</u> yimkši?aλ k ^w i <u>'</u> spanu [.] łši?aλ ł <u>u'</u> csma m <u>a'</u> ?ak ? <u>u'</u> simčaλ	'Now began to obtain many in hunting' (ln. 8) 'Now began successively (to jump) from side to side' (ln. 20) 'woman' (ln. 5) 'California whale' (ln. 1) 'Now trained secretly for success in so and so' (ln. 1)
		<u>L</u> L ? <u>i·</u> ḥtu'p m <u>u'</u> či·ł n <u>ar</u> csa·λ q <u>a'</u> ya'panačqa ý <u>u'q</u> ^w a'	'humpback whale' (ln. 2) 'was for four days' (ln. 43) 'Now was looking at' (ln. 5) 'being drifting aimlessly' (ln. 32) 'likewise' (ln. 76)
b	Э.	S <u>L</u> haw <u>i</u> ·?aλ ḥay <u>u'</u> ỷipšiλ	'Now finished' (ln. 3) 'had obtained ten' (ln. 86) <i>Pin</i> 'Now would die immediately, it is said' (ln. 24) 'move inland' (ln. 36) 'the door of (them)' (ln. 6)

This rule works in most cases, but there are exceptions. Quick tabulation shows the rule accounts

for 206 of 284 word tokens (78 exceptions from a population of 284 = 206/284 or 73%). Many of

the exceptions involve 1) words that have no accent marked or 2) tokens of the Ditidaht personal name $\check{c}a?aci\cdot b$. If these two classes of exceptions are set aside, the percentage conforming to the rule rises somewhat (39 exceptions from a population of 245 = 206/245 correct or 84%). Explaining the remaining exceptions is extremely difficult given the small amount of data, although some may be systematic (assuming the basic rule is correct in the first place). We are not aided by the fact that the reliability of the transcription is suspect in places, since accent is sometimes inconsistently marked across tokens of the same word type, e.g. ?athir 'night' at line 28, but ?athir at lines 6 and 44; $hu?aca\check{c}i\lambda$ 'return' at line 58, but $hu?aca\check{c}i\lambda$ at line 69.

I mentioned earlier (§2.3) that syllables containing coda nasals pattern with syllables containing long vowels with regard to a certain phonological alternation involving length. The available evidence is contradictory as to whether this parallelism continues with accent placement. Stonham (1994a: 126, 1994b: 16) cites data from Sapir's unpublished field notes on Nuuchahnulth that suggests it does: $\check{c}\underline{i}ms\dot{m}i't$ 'Son of Bear', $ha\check{c}\underline{i}msiqsak?i$ 'her brothers', $hi\check{s}\underline{i}m\dot{y}u'p$ 'gather together'. However, Sapir (1924) contains several words in which a coda nasal in the second syllable does not attract stress from a short first syllable as we would expect given the examples in (18)b: $\lambda \underline{i}\dot{s}\lambda in$ 'foot' (ln. 19), $h\underline{i}sim\dot{y}awi?a\lambda$ 'now became blood-covered' (ln. 20), $h\underline{i}dyin?i$ 'the one at the bow' (ln. 50). Further research is required to address theses discrepancies.

3 Phonological Alternations

A variety of phonological alternations take place during word formation, the most important and common of which are described in this chapter. The presentation is descriptive in intent and informal for the most part, although, for descriptive purposes, it does assume a model of phonology with extrinsically ordered rules applied to underlying forms.

The alternations are presented in order of application to underlying forms except that the automatic alternations in §3.2 are ordered after the morpheme-specific alternations in §3.3 even though they are described first for expository reasons. The important issue of vowel-length alternations is discussed apart from the other alternations in §3.1. Only alternations of some generality are discussed individually in this chapter; those that are restricted to a few morphemes or are rarely encountered are introduced as necessary.

Underlying forms, which do double duty as citation forms, frequently contain diacritics that specify how or if certain morpheme-specific rules apply. It has not been possible to avoid using morphemes with diacritics in examples before the diacritics themselves have been introduced; readers may consult the list of abbreviations and symbols after the Table of Contents for brief explanations of them. Most are used in the same way as in Sapir and Swadesh's works, where they were originally introduced (see especially Sapir & Swadesh 1939: 236-39), although their diacritic conventions have been simplified in a few cases. Some of their original diacritics are used to abbreviate sets of allomorphs (cf. McCawley 1967: 108): they represent the phonological properties of each allomorph in a single citation form by "superimposing" the allomorphs on one another. Sometimes, however, the present analysis posits a single underlying form for such lexical items rather than an allomorph set, which eliminates the need for Sapir and Swadesh's diacritic. For example, labialized consonants alternate with their non-labialized homorganic counterparts in word-final position and a few other environments (§3.2.2), e.g. we find *mama'siy'ak*^w-*i*'*c*

'belonging to a mud shark', but *mamarsiyak* 'mud shark' without the suffix. In Sapir and Swadesh's analysis, the 'mud shark' root has two allomorphs, the word-final allomorph */mamarsiyak/* and the pre-vowel allomorph */mamarsiyak^w-/*. They merge these to produce the citation form *mamarsiyak(^w-)*, where the parentheses and hyphen show that the labialized allomorph appears before vowel-initial suffixes. The analysis proposed in §3.2.2, on the other hand, posits the underlying form *mamarsiyak^w* and an automatic delabialization rule. With this analysis the parentheses and hyphen are redundant: since no labialized final consonant fails to alternate in the relevant environment, there is no need for a special mark to signal the alternation.¹²

Many of the alternations described in this chapter are triggered by affixation. The language distinguishes an inner layer of affixes, mostly suffixes but also a few infixes, from an outer layer of enclitics. The inner affixes include various aspectual formatives and "lexical" suffixes, suffixes with relatively concrete meanings like the verbalizing suffix *-simč* 'doing ritual for …'. The clitics are more loosely joined to their host phonologically, and typically have more abstract grammatical functions than inner-layer affixes, coding grammatical categories like tense, mood, and person and number of the subject. The inner affixes and the clitics behave differently with regard to several of the phonological alternations described. Differences will be noted piecemeal as we go along, and a summary list of them can be found in Chapter 7.

3.1 Neutralization of vowel length

Table 3 in Chapter 2 showed that vowel length is contrastive in Nuuchahnulth. The length contrast is demonstrated by the following minimal pairs of roots, which are distinguished only by vowel length. (The period in *tat*.- 'undried, fresh' and *tuk*.- 'mass of small round objects strewn about' is a diacritic signaling a morpholexical rule described in \$3.3.2).

(19)	Short vowel	Long vowel	
	tał	ta'ł	
	'undried, fresh'	'warmed'	

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<i>ti-</i>	<i>ti'-</i>
'wipe'	'sink under water'
<i>siq-</i>	<i>si'q-</i>
'get cooked'	'stick-like object gets pushed along'
<i>tuk</i> 'mass of small round objects strewn about'	<i>tu</i> · <i>k</i> - 'planted, planting'
<i>sut-</i>	<i>su't-</i>
'you (sg.)'	'(to) drill'

Frequently, however, the contrast between long and short vowels is neutralized. Compare the length of the bold-face vowels in the first column of (20) to the length of those in the second column. In each case the bold-face vowel is long in the second syllable of the word, but short in the third or later syllables. Thus, the length alternation is neutralized in syllables after the second in the word.

(20)	a.	Long vowel in second syllable caq i ·c caq i ·c twenty 'twenty'	Short vowel in third or later syllable cacaqic [R]-caqi·c PL-twenty 'twenty each'
	b.	<i>?una•k</i> <i>?u–na•k^w so.and.so–have</i>	Čapacn a k Čapac–n a •k ^w canoe–have
		'have it'	'have a canoe'
	c.	<i>ċax^wi•'nak</i> <i>ċax^w–i•'nak^w</i> spear–imitate.in.dance	<i>ċipṫaxʷiṅak ċipṫaxʷ–i∙ṅakʷ somersault–imitate.in.dance</i>
		'Spear-Dance (man's name)'	'perform a somersault dance'
	d.	<i>kap?u•kt</i> <i>kap–.?u•kt rob–obtained.by</i>	<i>₽aċax?ukt</i> <i>₽aċax^w−.?u•kt snare–obtained.by</i>
		'stolen goods'	'(fish) obtained by snaring'
	e.	$\begin{aligned} &?i \cdot h e' ?ic \\ &?i \cdot h^w = (m)a' = ?ic \\ &big = INDIC = 2sg \\ &`you (sg.) are big' \end{aligned}$	<i>nunu'k^we?ic</i> <i>nunu'k</i> =(<i>m</i>) <i>a</i> '=? <i>ic</i> sing=INDIC=2sg 'you (sg.) are singing'

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This alternation can be accounted for by the following neutralization rule:

(21) <u>Neutralization of Vowel Length</u>

Long vowels become short in the third syllable of the word or later.

There are cases where the neutralization rule fails to apply. Some roots have underlying long vowels in the third or later syllable, e.g. *?ama?a*:s 'in the very act of doing', *?i·š?ini:* λa 'univalve shell', *ċawayu*:s 'rainbow'. (These are free roots; that is roots that may also occur as words, §5.2.2.) Suffixes such as *-i:cs* 'bringing, carrying ...' and *-syu:č* 'exposed' have long vowels that never shorten regardless of their position in a word:

(22)	a.	Suffix with long vowel in second syllable <i>ču[·]čki[·]cs</i> <i>ču[·]čk–i:cs</i> all–bring	Suffix with long vowel in third or later syllable me?i λ qacircs me?i λ qac-i:cs boy-bring
		'bringing all'	'bringing a boy'
	b.	na'λksý u' č naλk–sý u: č [L] have.feet.located–exposed	<i>hu'?aksýu'č hu'?ak^w–sýu:č</i> [L] early–exposed
		'have one's feet sticking out'	'out of bed early'

Nevertheless, the number of morphemes in the lexicon with long vowels that follow the neutralization rule exceeds the number with vowels that fail to neutralize. Following Jacobsen (1979a), "Persistently long" vowels, as I refer to them henceforth, are marked as exceptions to the neutralization rule with a colon in underlying form, e.g. *ċawayu:s* 'rainbow, *-i:cs* 'bringing, carrying ...', *-sýu:č* 'exposed'. The persistent-length colon is the first of many diacritics in this chapter that indicate a segment behaves peculiarly with respect to some phonological rule. Not all morphemes with long vowels occur in the texts in forms that would show whether the vowels neutralize or are persistently long. I assume neutralization as the default case.

An addendum to Rule (21): long vowels also regularly become short in prefixed reduplicative syllables (cf. Swadesh 1948a: 107). Reduplication is used for various grammatical purposes in

Nuuchahnulth, e.g. plural marking in (23), where [R] stands for reduplication. See §3.3.1 and Chapter 5 for others.

- (23) a. ququr?as (due to two subsequent changes this form surfaces as quq^wa's; see (88)c) [R]-qur?as PL-person 'people'
 b. 2i?i'h (due to two subsequent changes this form surfaces as ?e?i'h)
 - b. III'' h (due to two subsequent changes this form surfaces as IeI'' h) [R]- $Ii' h^{w}$ PL-big 'big ones'

Persistently long vowels do not shorten in reduplicative syllables:

(24) *ta'ta'yi* [R]–*ta'yi* PL–older.brother 'older brothers'

Other discussions of length alternations in Nuuchahnulth can be found in Sapir & Swadesh (1939: 237), Klokeid (1975), Jacobsen (1979a: 145, note 3) Rose (1981: 27), Stonham (1994a). The present analysis is based on Jacobsen's.

Before concluding this section, a look at the historical origin of the length alternation is instructive, for it is a good example of the kind of messy, domain-straddling phenomena that arise when the output of regular historical change is disturbed by later developments. I draw upon Jacobsen (1979c: 779-81) for the following description of the probable course of development. Proto-Southern-Wakashan (PSW) originally had a simple three-vowel system with contrastive length: /a a' i i' u u'/. Both long and short vowels occurred in all positions in the word. Long vowels were then shortened in the third or later syllable for reasons that are as yet unclear. Later, in the post-PSW period, long vowels were reintroduced in the third and later syllables in the daughter languages by various additional changes. These more recently introduced long vowels are source of the persistently long vowels of modern Nuuchahnulth. Most obvious are vowels resulting from the vowel-glide contraction described in Haas (1969: 118) (cf. also Sapir 1924: 88, note 51, 1938, reprint 1949: 233): *ay > i: and *aw > u:. To these we can add a few apparent cases of *uw > u:.¹³ The results can be seen in comparison with Makah, which has in some cases preserved the original vowel-glide sequences. The surface sequence *ey* in Makah is from underlying /ay/ or /iy/. The root example shows contraction in the first or second syllable rather than the third or later, because examples of the latter are hard to come by, but the long vowel in Nuuchah-nulth is assumed to have persistent length for sake of discussion.¹⁴

(25)	<u>M</u>	<u>N</u>	
	- 'eyax	- 'iːḥ	'hunting, collecting'
	- 'eyik	- 'i:k ^w	'given to, fond ofing'
	-'awi 'waiting for'	- 'u:-	'intending to get; camping out for the purpose of getting; waiting in ambush to get'
	xuwic-	xu:c-	'intoxicated'

Klokeid (1996: 51) also notes borrowing as a source of persistently long vowels in Nuuchahnulth, e.g. *?orpako:t* 'overcoat' (< Eng.). We must conclude that what began as a more or less phonological process resulting from a regular sound change is now at least partly a lexical matter, since lexical items with alternating vowels must be distinguished in the lexicon somehow from lexical items with more recently developed persistently long vowels.

3.2 Automatic alternations

3.2.1 Umlaut

The low central vowels /a a' are raised and fronted to /e e' when followed in the next syllable by /i/ or /i'/ and only /2/ intervenes (Sapir 1924: 85, note 22). This environment may occur in derivation when a suffix or clitic beginning with glottal stop and a high front vowel is added to a base ending in /a/ or /a'/ (26)a-b, or it may occur morpheme-internally (26)c:

(26)	a.	?ay a	'many'	\rightarrow	?ay e ?i	'the many'
		?a ' n a	'thus long'	\rightarrow	?a'n e ?is	'short'
	b.	ċi'q a'	'chanting'	\rightarrow	ći'q e' ?i	'the ones chanting'
		?an a •	'thus far'	\rightarrow	?an e' ?i'	'get to be thus far'

c. ke?is 'going directly where one is going without swerving or pausing'
 we?ič 'sleeping'
 ve?isi 'common clam, butter clam'

As noted earlier (§2.2), the umlauted vowels are articulatorily distinct from the allophones of the high vowels lowered by pharyngeals and (sporadically) uvular consonants. Sapir (1924: 85-86, note 22) writes: "[T]hese [umlauted] vowels are felt as distinct from secondary e, ε , and e^{*} ... that are merely lowered from i, i^{*} because of preceding or following velar consonant." (By "velar" he means "uvular." It is unclear why there is no mention of the lowering by pharyngeals). He also describes the umlauted vowels as "open", probably indicating a lax quality versus the tenser quality of the high vowels lowered by the pharyngeals (and uvulars). The fact that the two sets of phones, the umlaut set and the lowered set, are distinct removes the possibility of a violation of bi-uniqueness, i.e. a situation in which a single allophone belongs to two phonemes.

This umlaut process occurs throughout the southern region of the Southern Wakashan speaking area: in Makah, Ditidaht, and the southern dialects of Nuuchahnulth represented in Sapir and Swadesh's texts (Tseshaht and Ucluelet). More northerly dialects of Nuuchahnulth like Ahousaht and Kyuquot retain original /*a a*·/, cf. Ahousaht $k^wa?i:\lambda$ 'sit down on the ground' (Nakayama 1997a: 19, ex. 20) (Tseshaht $k^we?i\cdot\lambda$), Ahousaht, Kyuquot *wa?ič* 'sleeping' (Nakayama 1997a: 150, ex. 246; Rose 1981: 61, ex. 121).

3.2.2 Neutralization of labialized and non-labialized consonants

The contrast between labialized and non-labialized consonants is neutralized in several environments (cf. Sapir 1924: 87, note 33, 89, note 58, Swadesh 1933: 10, 1939: 80, Jacobsen 1969b). Some neutralizing environments favor non-labialized consonants, others favor labialized consonants. A segment that occurs in a proscribed environment is replaced by its homorganic labialized or non-labialized counterpart.

Non-labialized consonants that are capable of labialization are replaced by their labialized counterparts when immediately preceded by a high back vowel:

(27) *cimturq^was cimtur–(q)ars* squirrel–daughter.of 'Squirrel-daughter'

See §3.3.8 for the significance of the parentheses in -(q)a's. They are irrelevant to the present discussion.

Labialized consonants are replaced by their non-labialized counterparts in the following three environments:

Environment 1: Immediately preceding non-pharyngeal and non-glottal consonants:

(28) makši λ mak^w-ši λ buy-PERF 'buy'

Compare the realization of mak^{w} - when it precedes

- an unrounded vowel, e.g. mak^{wink} 'trade' (< mak^{w} + -*ink* 'together with')¹⁵
- a pharyngeal consonant, e.g. *mak^wha*, 'buy' (< *mak^w* + -*ha*, 'buy ... (perf.)')
- a glottal consonant, e.g. $mak^{w} 2atu$ 'sell' (< $mak^{w} + -2atu$ 'come off (perf.)').¹⁶

Delabialization is optional before pharyngeals:

 (29) ya'ya'qhin?as or ya'ya'q^whin?as yaq^w-hin [LR+L]-'as that.which-at.end-outside
 'the end of the village' Environment 2: Immediately preceding a rounded vowel

(30) makuł mak^w-uł^w buy-place.for 'store'

Compare (30) with mak^{w} - preceding a vowel other than |u| or |u'|, e.g. $mak^{w}ink$ 'trade'.

Environment 3: Immediately preceding a word boundary

(31) *?ink ?ink*^w fire 'fire'

Compare (31) with $2ink^w$ preceding a (vowel-initial) suffix, e.g. $2ink^w a s$ 'fire on a horizontal surface' (< $2ink^w + -as$ 'on a horizontal surface').

Boundaries between clitics and their hosts are treated like word boundaries with respect to labialization. (Clitic boundaries are symbolized by '='.)

(32)
$$2ink2ir$$

 $2ink^w = 2ir$
fire=ART
'the fire'

We would expect **?ink^w?i* given the condition listed in (28), which permits labialized consonants before glottal stops, but the clitic boundary triggers delabialization instead.

In circumstances where the rules for neutralization of labialization conflict, i.e. where a segment capable of labialization follows / $u u^{-}$ /, which would trigger labialization, but, at the same time, precedes a consonant that would otherwise prevent labialization (Environment 1), a rounded vowel (Environment 2), or a word boundary (Environment 3), labialization is optional. The texts that form the main body of our corpus are not a reliable guide here, since, as Jacobsen (1969b) points out, the orthography in Sapir & Swadesh (1939, 1955) is phonemically rather than phonetically significant with regard to this data. Thus, in these two volumes we find only transcriptions with non-labialized consonants in these environments, e.g. (33) *hirnisur?uk* 'moving along up and down' (NT 142.30, NA 48.32-33, etc.)

> *ča*·*puk* 'man in a canoe, a manned canoe' (NT 64.8, 150.19, etc.)

tu·*ksimč* 'doing ritual to catch sea-lions' (NT 112.22, NA 48.32)

*tuxši*λ 'jump' (NA 81.17, 368.19, etc.)

However, in Sapir (1924), which uses a phonetically-based orthography, we find hi nisur 2uk at 77.28, but $\check{c}a$ puk^w at 78.2, and tu k simč at p. 82, note 1, but nu k^wću 'music inside' at p. 86, note 31 and tu k^wši λ at p. 88, note 45. Klokeid (1977) notes similar variation in unpublished manuscripts.

While it is generally true that Sapir & Swadesh (1939, 1955) do not record the actual phonetic variation in labialization, even in these texts it can be found in few places. Consider the examples in (34): addition of the Subordinate mood clitic $= qa^{r}$ (§7.2.7) to hayu 'ten', a base ending in a rounded vowel, produces a form transcribed variously as hayuqa or $hayuq^{w}a$. As previously mentioned, clitic boundaries are treated like word boundaries for purposes of labialization, so such variation is expected:

(34) hayuqa or hayuq^wa hayu=qa' ten=SUBOR
'that there were ten' (first form at NA 344.20, second at NA 62.33-34)

3.2.3 Reduction of vowel sequences

Vowel sequences are not permitted. When two vowels come to be adjacent in the course of derivation, the sequence is reduced to a single vowel whose length and quality are determined by the length and quality of the underlying vowels (Sapir & Swadesh 1939: 236-37). The rules for reduction of vowel sequences that involve the first root vowel (i.e. the vowel following the initial

consonant of the root) differ slightly from those for sequences that do not involve the first root vowel. This involves a bit of morphological conditioning (because the rules need to "know" whether a vowel is the first vowel of a root — a morphological rather than phonological question), so reduction of vowel sequences is not a purely phonologically-conditioned process like the other processes in this section, but it is regular, unlike the morpheme-specific processes described in §3.3.

3.2.3.1 Sequences not involving the first root vowel

'give many'

a) The quality of the resultant vowel is determined by the hierarchy u > i > a. The quality will be |u| if one of the two underlying vowels is |u|, |i| if an |i| but no |u| is involved, and |a|only if both underlying vowels are |a|. The order of the underlying vowels is immaterial. Examples are wanting for i + u and a + u sequences due to the scarcity of |u|-initial suffixes.

(35)	a.	u+i→u hayusta hayu-ista ten-in.canoe.as.crew 'ten crewmen'	$i + u \rightarrow u$ unattested in corpus
	b.	u+a→u hayuyi hayu-ayi ten-give.PERF 'give ten'	$a + u \rightarrow u$ unattested in corpus, but see (37)c
	c.	$i + a \rightarrow i$ $i + a \rightarrow i$ $2u\dot{y}iyi$ $2u\dot{y}i - ayi'$ medicine-give.PERF	a+i→ i <i>?ayista</i> <i>?aya–ista</i> many–in.canoe.as.crew
		'give (as) medicine'	'many crewmen'
	d.	a+a→a <i>?ayayi</i> <i>?aya—ayi'</i> many–give.PERF	

b) The length of the resultant vowel is determined by the hierarchy long > short: the resultant vowel is long if one of the two underlying vowels is long, otherwise it is short. (The [L] is explained in §3.3.1.)

(36) a. $2u'k''i'\dot{n}ut$ $2u-\underline{\check{c}}i-a'\dot{n}u(t)$ [L] so.and.so-at-along.length 'along its length'

> b. hina'čiλ hina-a'-čiλ empty.root-go.out.to.sea-PERF
> 'go out to sea'

A morpheme with a persistently long vowel carrys this into combination. That such combinations produce persistently long vowels rather than ordinary long vowels is shown definitively by examples like (37)b,d, in which the resultant vowel appears in the third or later syllable.

- (37) a. *ċawi*·*c ċawa*·-*i*:*c* one-belong.to 'belong to one'
 - b. ?ar?ayasċarpi ?aya-arsċa-a:pi [LR+S] many-on.roof-too

'too many on the roof'

- c. *hirnurmał hina–urmał* [L] empty.root–born.at 'born at'
- λu·k^wa·ni·čiλ
 λu·k^wa·na–i:čiλ
 Wolf.Ritual–INCEP

'Wolf Ritual begins'

3.2.3.2 Sequences involving the first root vowel

The resultant vowel is long and its quality is that of the underlying root vowel.

 (38) a. k^wa⁻tċapiλ k^wa-atċa-piλ move.backwards-at.vertical.surface-in.house.PERF
 '(to) back up against the wall'

- b. carňak ca-irňak^w flow-imitate.in.dance
 'perform a river dance'
- c. hu's hu-a's fly.in.flock-on.horizontal.surface
 'having landed in a flock in a tree'

That the length of the resultant vowel is long in examples like (38) is evident in circumstances where this vowel comes to stand in the third or later syllable due to reduplicative processes. Sapir & Swadesh (1939: 237) demonstrate this with the alternation of vowel length in the word $2u^2u'tah$ 'hunting it (whale)' (< 2u- 'so-and-so' + -atah [R] 'hunting ...') and its distributive form, $2u^2u'tah$. The steps in the derivation of these words are shown in (39).

(39)	?u-ataḥ	?u-ataḥ	underlying form
	?u?uata <u>h</u>	?u?uata <u>h</u>	reduplication ([R] CV template, §3.3.1)
	?u?u [.] ta <u>h</u>	?u?u [.] ta <u>ḥ</u>	reduction of vowel sequence
	N/A	?u?u?u taḥ	distributive reduplication (§5.5.4)
?u?u [.] tah ?u?u?utah vo		?u?u?uta <u>h</u>	vowel-length neutralization (§3.1)
	'hunting it'	'hunting it here and there'	

The CV reduplication in the second step is the product of a rule we have not encountered yet. See \$3.3.1. The crucial steps for the issue at hand are the third step, which shows the reduction of the u+a vowel sequence to a single long vowel, and the fourth step, in which distributive reduplication moves the long vowel to the third syllable where it is realized as a short vowel in the final step. The alternation in length between $2u^2u'tah$ and $2u^2u'tah$ demonstrates unequivocally that the resultant vowel is long (rather than persistently long).

Morphemes with persistently long vowels again produce resultant vowels with persistent length (40)a. Persistent length is demonstrated by reduplication in which the resultant vowel surfaces long in the reduplicative syllable (40)b, cf. the addendum to Rule (21) given in §3.1.

- (40) a. *?u[·]c ?u–i:c* so.and.so–belong.to 'belong to it'
 - b. ?ur?urciyaqh
 ?u-i:c-iyaqh [R]
 so.and.so-belong.to-sing.song
 'singing (a song) belonging to him'

3.3 Morpheme-specific alternations

3.3.1 Affix-associated CV templates

An unusual characteristic of Wakashan affixes, both suffixes and infixes, is that they often impose restrictions on the structure of the CV skeleton of the word containing them. In most cases these configurational requirements have no semantic significance, and are merely formal, combinatorial properties of the affixes in question.¹⁷ In Nuuchahnulth, each affix of this type is associated with one or more of eleven CV templates. (There is also a large group of neutral affixes, that is, affixes that place no particular restrictions on CV structure.) If the CV structure of the word before affixation does not match that specified by the template associated with an affix, the word is altered accordingly. The eleven templates are shown in (41).

(41) a.
$$C_1V_1$$
 g. $C_1V_1cC_1V_1$ C_1 = onset consonant of 1^{st} syllable
b. $C_1V_1C_2V_2$ h. $C_1V_1C_1V_1$ C_2 = onset consonant of 2^{nd} syllable
c. $C_1\check{V}_1C_2\check{V}_2$ i. $C_1V_1cC_1V_1$ V' = vowel must be long
d. $C_1V_1C_1V_1$ j. $C_1V_1c_1V_1$ \check{V} = vowel must be short
e. $C_1V_1C_1\check{V}_1$ k. $C_1V_1cC_1V_1$ \check{V} = surface vowel length is nonspecific
f. $C_1V_1C_1V_1$ C_1V_1 C_1V_1 C_1V_1 V_1 surface vowel length is nonspecific
f. $C_1V_1C_1V_1$ C_1V_1 C_1V_1 C_1V_1 V_2 = surface vowel length is nonspecific
f. $C_1V_1C_1V_1$ C_1V_1 C_1V_1 C_1V_1 V_2 = surface vowel length is nonspecific
f. $C_1V_1C_1V_1$ C_1V_1 C_1V_1 C_1V_1 V_2 = surface vowel length is nonspecific
f. $C_1V_1C_1V_1$ C_1V_1 C_1V_1 C_1V_1 C_1V_1 V_2 = surface vowel length is nonspecific
f. $C_1V_1C_1V_1$ C_1V_1 C_1V_1 C_1V_1 C_1V_1 C_2 = onset consonant of C_1 C_1V_1 C_1V_1 C_2 = onset consonant of C_1 C_1 C_1 C_1 C_1 V_1 C_1 V_2 = surface vowel length is nonspecific
f. $C_1V_1C_1V_1$ C_1V_1 C_1V_1 C_1V_1 C_1V_1 C_2 C_1 C_1

The symbols in (42) are abbreviations introduced by Swadesh (1939) and Sapir & Swadesh (1939) to indicate affixal effects in morpheme glosses.¹⁸

(42)	a.	[L]	g.	[Rc+L]
	b.	[L+S]	h.	$[LR]^{19}$
	c.	[S+S]	i.	[LRc]
	d.	[R]	j.	[LR+L]
	e.	[LR+S]	k.	[LRc+L]
	f.	[R+L]		

Each template is disyllabic except the first, which is monosyllabic. Words containing a template-specifying affix can be of any length but any portion of the word that falls outside that specified by the template is not affected by required changes to the skeleton. If the first template (a) [L] is applied to a polysyllabic word, for instance, only the first syllable is specified (it must be long). The second, third and subsequent syllables of the word are not affected (see, for example, (48) below).

The first three templates (a-c) specify vowel length. Template (a) requires that the first syllable of the word is long, while template (b) requires that the first syllable is long *and* the second syllable is short. Template (c) requires that both the first and second syllables are short.

The remaining eight templates (d-k) specify reduplication of the initial consonant and vowel of the word, usually in concert with specification of the vowel length of the reduplicative syllable, the original first syllable of the word, or both. The symbol V with no length marking (i.e. no breve or length dots) in these reduplicative templates stands for a vowel of nonspecific length; "nonspecific" here simply means the template has no particular requirements for the length of the vowel. As noted earlier (§3.1), original long vowels generally shorten in nonspecified reduplicative syllables.²⁰ Templates (g), (i), and (k) are counterparts of (f), (h), and (j), respectively, that specify insertion of the consonant /c/ into the coda of the reduplicative syllable.

The tests introduced earlier — putting a long vowel in the third syllable of the word or in a reduplicative syllable — show that vowels lengthened by affix templates are ordinary (alternating) long vowels rather than persistently long. Thus, the suffix $-\dot{n}uk$ [R+L] 'at the hands' redupli-

cates and lengthens the vowel of the root *mutq-* 'amputate' to produce *mumutqnuk* 'amputated at hands (i.e. fingers cut, shot off)'. The suffix is associated with template (f) [R+L], and the root is reduplicated with a long vowel in the original initial syllable in conformance with templatic requirements. That the vowel is not persistently long becomes evident when it comes to stand in the third syllable of the word through distributive reduplication.

(43) mumumutqnuk
 [R]-mutq-nuk [R+L]
 PL-amputate-at.hands
 'each with fingers shot off' (NA 448.24-25)

The shortening of the original base vowel, now in the third syllable, shows that it must be long rather than persistently long. Another example along the same vein is the distributive form of yayarqhi 'long-limbed' ($\langle yarq$ 'long' + -hi [R+L] 'at the limbs'), which is attested in the corpus at NA 20.8: yayaqhi 'each having long limbs'.

As mentioned earlier (§3.1), long vowels normally shorten in prefixed reduplicative syllables. This fact can also be used to show that long vowels imposed by templates are not persistently long. For example, the suffix *-api* [L] 'in the air, erect; standing' is associated with template (a) [L]; applied to the root $capk^{w}$ - 'have head bowed', the suffix produces the form $ca pk^{w}apu\lambda$ 'bow one's head' (the form also includes the perfective aspect suffix *-u* λ). Distributive reduplication places the initial vowel in the reduplicated syllable, where it appears short:

(44) caca[•]pk^wapuλ
 [R]-capk^w-api [L]-uλ
 PL-have.head.bowed-erect-PERF
 'each bowed their head' (NA 449.1)

The requirements for vowel length made by affix templates have precedence over requirements on length that later rules in the derivation would otherwise impose. Section 3.2.3 described the reduction of vowel sequences involving the first root vowel to a single long vowel with the quality of the root vowel. Consider the derivation of *?u?u*taḥ* 'hunt it (whale)' in (45), repeated from (39):

(45)	?u-ata <u>ḥ</u>	underlying form
	?u?uata <u>ḥ</u>	application of CV template (d)
	?u?u [.] ta <u>ḥ</u>	reduction of vowel sequence (§3.2.3)
	'hunting it'	

The resultant long vowel falls in the second syllable. If, however, the word contains an affix like *-ityak* [LR+S] 'fearing ...' that specifies a short second base vowel, this precludes a long vowel; the vowel must be short:

(46)	?u-itýak	underlying form
	?u [.] ?ŭitýak	application of CV template (e) [LR+S]
	?u [.] ?ŭtýak	reduction of vowel sequence
	?u [.] ?utýak	resultant form
	'fear it'	

Any portion of a word falling within the domain of a template that already meets the template's specifications is unchanged. If template (a) [L] is applied to a word whose initial vowel is long, for example, then the word meets its specifications, and no changes are necessary.

(47) shows suffixes specifying each template with various short monosyllabic roots, except $ha\dot{w}a$ - 'eat', which is disyllabic.

(47)	a.	$C_1 V_1$	hi t–sa ťa	'there on the forehead' (<i>hit</i> 'there')
	b.	$C_1 V_1 C_2 \breve{V}_2$	k ^w a'-cu?uk	'go along backwards' (k^wa - 'go backwards')
	c.	$C_1\breve{V}_1C_2\breve{V}_2$?iḥ-aqaq	'very big' (<i>?i'</i> h ^w 'big')
	d.	$C_1V_1C_1V_1$	hahap–as	'hair on the cheeks' (hap- 'hair')
	e.	$C_1 V_1 C_1 \breve{V}_1$	wi'wik–itýak	'fear nothing' (wik 'not, nothing')
	f.	$C_1V_1C_1V_1$?u?u'–k ^w i:qa	'impeded by it' (?u- 'so-and-so')
	g.	$C_1V_1cC_1V_1$	hacha [,] wa–csuł	'drowsy from eating' (hawa- 'eat')
	h.	$C_1 V_1 C_1 V_1$	ku kuḥ–inqił	'hole at the ribs' (kuh 'hole')

- i. $C_1V_1cC_1V_1$ harchawa-csuptart 'have an eating contest' (hawa- 'eat')
- j. $C_1 V_1 C_1 V_1$ *hi hi h i <i>h i h i h i h i <i>h i h i h i h i h i <i>h i h i h i h i <i>h i h i h i h i h i <i>h i h i h i h i <i>h i h i h i h i <i>h i h i h i h i <i>h i h i h i h i h i <i>h i hih i <i>h i h i h i <i>h h ih i <i>h ih i <i>h ih ih i <i>h ih i <i>h ih i <i>h ih ih i <i>h ih i <i>h ih i <i>h ih i <i>h ih ih i <i>h ih i <i>h ih i <i>h ih ih i <i>h h ih i <i>h h ih h i <i>h h ihhihi <i>hihihi <i>hihi <i>hihihi <i>h*
- k. $C_1V_1cC_1V_1$ 2*u*·*c*2*u*·*ma*-*h*sa 'at the very edge' (2*uma*' 'as far as')

An affix-associated template must be satisfied regardless of how long a word is, or how far the affix is from the portion of the word specified by the template, either in number of syllables or in number of morphemes. The locative suffix *-api* 'in the air, erect; standing' selects the (a) template. If attached to the four syllable (synchronically) monomorphemic base *kałkintapimł*-'strawberry', the first syllable must be long even though the affix itself is separated from it by several intervening syllables:

(48) $ka^{i}kintapim^{i}-api$ 'strawberry up in the air'

Similarly, the word $2a\dot{c}apu2iiim$ 'a pad underneath' consists of four morphemes, the root $2a\dot{c}$ -'support with a block or pad' and three neutral (not associated with a template) suffixes, - 'apu(i)-'underneath', - 'ii' in the house', and -im '... thing' (lit. 'thing serving as a pad underneath in the house'). If affixed by the suffix - $\hbar w ink^w$ [L] 'using ...', which selects the (a) template, the first syllable is lengthened despite the three suffixes between the specifying suffix and the specified syllable:

(49) $2a'\dot{c}-apu-2i\dot{t}-im-\dot{h}\dot{w}ink$ 'using a pad underneath'

Affixes are subject to their own templatic specification if their position in a base is within their template's domain. Let us consider a straightforward example. The suffix *-ci:ýuk* [L+S] 'going to ...' is associated with the (b) template, the two-syllable template that requires the first syllable of the word to be long and the second syllable short. If this suffix is affixed to a monosyllable base such as the relative root q^{wi} - 'whoever, whatever', the persistently long first syllable of

the suffix ends up as the second syllable of the resultant base and is thus subject to shortening by the template: $q^{wirciyuk}$ 'wherever one is going':

(50) underlying
$$\rightarrow$$
 $C_1 \ V_1 \ C_2 \ \breve{V}_2$
 $| \ | \ | \ |$
 $q^{w}i-cisyuk \rightarrow$ $q^{w} \ i^{*} \ c \ i...yuk$

A word can contain multiple template-specifying affixes (suffixes or infixes). Three types of interactions are possible. The affixes can specify 1) the same template, 2) compatible templates, or 3) conflicting templates. The result of the first situation can be predicted from the principles I described above: because a base that conforms to a particular template requires no alteration upon addition of an affix associated with that template, we would correctly predict that a given template is only applied once; addition of a second affix associated with the same template as an earlier affix will thus produce no change. Example (51) demonstrates this with a word with two affixes specifying template (a):

(51) *Pursimčňahi Pu-simč* [L]-ňahi [L]
 so.and.so-do.ritual.for-ready.to
 'ready to perform a ritual for it'

Assuming that templates are applied in order from left to right as their affixes are added to the base, we would expect the effects of compatible templates to be cumulative. That is, effects of later templates are applied to the form that results from application of earlier templates. Examples like (52) seem to bear this out:

```
(52) 2ar2aqmaqkuk<sup>w</sup>anu<sup>h</sup>
2aq-maq-kuk [R]-a<sup>n</sup>u(l) [L]-i:h [L]
grass-plant-resemble-along.length-PL
'made of hemp rope, pl.' (NA 63.46)
```

The leftmost non-neutral suffix is -kuk (-maq- '... plant' is neutral), which is associated with template (d), initial CV reduplication with nonspecified vowel length. This template applied to the underlying form 2aqmaqkuk produces 2a2aqmaqkuk. The (a) template associated with

 $-a \cdot n u(t)$ [L] 'along a length' is then applied producing $2a \cdot 2a q maq k u k w a n u t$. Addition of the plural suffix $-i \cdot h$ rounds out the attested form. (The final /t/ of $-a \cdot n u(t)$ is deleted before the plural suffix.)

Following the same logic, conflicting templatic effects ought to be resolved by the later template undoing the effects of the earlier template. Conflicts always involve conflicting length requirements. For example, when a suffix specifying the (a) template (long first syllable) is followed by a suffix that specifies the (c) template (first and second syllables both short), the resultant word should have a short first syllable. Comparison of (53)a-b supports this hypothesis:

- (53) a. ?a'ta'nuł
 ?ata-a'nu(ł) [L]
 thick-along.length
 'thick along its length'
 - b. ?aťaňułaqaq ?aťa-a ňu(ł) [L]-aqaq [S+S] thick-along.length-very
 'very thick along its length'

The effect of the (a) template of $-a \cdot n u(t)$ [L] 'along a length' has been undone in (53)b by the (c) template associated with -(q)aq - aqaq [S+S] 'very'.

Although examples (51)-(53) are preliminary support for our predictions about templatic interactions, more study is necessary to determine how consistently they are born out. Rose (1981: 341) reports restrictions against the co-occurrence of suffixes associated with certain templates, e.g. (g) and (h), in Kyuquot dialect. I suspect this is a consequence of the semantic or grammatical incompatibility of the suffixes rather than an inherent property of the templates themselves. She also reports a dominance hierarchy among certain templates that determines which will prevail in combination. These possibilities require further investigation for Tseshaht. Incidentally, affixes are frequently associated with different templates in Kyuquot and Tseshaht, e.g. -(c)stat 'reciprocally' is neutral in Tseshaht but associated with template (i) in Kyuquot (Rose 1981: 361). Some affixes are associated with more than one template. Sometimes the meaning of the affix depends on which template is used. For example, the locative suffix -ahs means 'in a vessel' when neutral and 'at the teeth' when associated with template (d):

- (54) a. Neutral ti ahs $ti q^w - ahs$ sit-in.vessel 'sitting in a vessel'
 - b. Template (d) tatas ?aqλahs-ip tas.-'aqλ-'ahs [R]-ip rub-inside-at.teeth-CAUS.PERF
 'rub sth on sb's teeth' (NT 40.22)

Frequently, however, there is no discernible difference in meaning. The plural infix -t- is as-

sociated with one of four different templates:

(55) a. Template (a) ha^{*}t?um ha?um-<t> [L] fish-<PL> 'fish(es)'
b. Template (d) hithičaqλ hič-'aqλ-<t> [R] illuminate-inside -<PL>

'torches'

c. Template (f) ?at?a'sma ?asma-<t> [R+L] highborn.child-<PL>

'highborn children'

d. Template (h) ma'tma's (< ma'tma?as, see §3.3.4 for a?a > a') ma?as-<t> [LR] tribe-<PL> 'tribes'

The choice of which template is selected for each base appears to be purely lexical.

In the remainder of this section I have provided examples of each template with a variety of base types, i.e. bases with different numbers of syllables, as well as bases that already partially or fully meet templatic specifications. Since I have only used attested examples for the following catalog, it has not been possible to give the full range of base types for some of the less common templates. For simplicity, the bases are underived in most cases.

The block of examples for each template begins with its CV schema, as listed in (41). This is followed by the mnemonic abbreviation in square brackets, e.g. template (a) is abbreviated as [L]. In parentheses I indicate the approximate number of affixes associated with each template. We begin with examples of three neutral affixes.

Neutral Affixes

Neutral affixes have no effect on the base.

(56)	a.	kamitq ^w i'?iλ	b.	?e'?i'ktaqýak	c.	či'wi'
		kamitq ^{w_} i:?iλ		?e'?i'ktaq–ýak ^w		či'–wi'
		run-move.into.house.PERF		miracle.occurs-instrument		pull-point.comes.out.PERF
		'run into the house'		'wondrous thing'		'(spear) pulls out (intr.)'

C₁V₁ [L] Affixes (125)

[L] affixes require the first syllable of the base to be long. The examples in (57) show [L] suffixes with one, two, and three syllable bases.

(57)	a.	ču'?atu	b.	ḥa'yumi'k	c.	ma'mi'taqsimč
		<i>ču–?atu</i> [L]		ḥayu–miːk ^w [L]		mami'ta–q–simč [L]
		dive-sink.into.water.PERF		ten-getter.of		live.bait.fishing-BFR-do.ritual.for
		'dive down into water'		'getter of ten'		'perform a ritual for live bait fishing'

The following three examples show [L] suffixes with bases that already have long vowels in their first syllables, and thus require no change on addition of the suffix.

(58)	a.	?i∙ḥḥŵink ?i∙ḥ ^w -ḥŵink ^w [L] big-use	b.	?u [,] šćinaqak ?u [,] š–ćinaqak [L] sth–discuss	c.	hư čuqλis?athsimč hư čuqλis?ath–simč Uchucklesit–do.ritual.for
		'use a big one'		'discuss something'		'perform ritual for (catch- ing) Uchucklesits'

$C_1V_1C_2\breve{V}_2$ [L+S] Affixes (4)

This template is similar to the previous one except [L+S] affixes require that the second syllable be short in addition to the first syllable being long. An [L+S] affix can easily be mistaken for an [L] affix since the two templates only produce distinct results when applied to words with long second syllables, as in (59). If [L] affixes were affixed to these words instead of the [L+S] affixes, both the first *and* second syllables would surface as long. The fact that the persistently long vowel in *-i:s* 'carrying' in (59)a surfaces short is another example of the principle already mentioned that persistent length is overridden by templatically imposed length.

(59)	a.	<i>hivnisuv?uk</i> <i>hina–i:s–u:?uk</i> [L+S] empty.root–carry–going	b.	?e'?išawi'qš ?e?i'š–awi:qš [L+S] hurry–call.for	c.	?a [,] \lambda sathawi [,] qs ?a\lambda -sa [,] th-awi:qs [,] [L+S] two-X.many.tribes-call.for	
		'carry along'		'call for sb to hurry'		'send for two tribes'	

The words in (60) have underlyingly short second syllables and would therefore look identical with [L] affixes.

(60)	a.	hi'nawi'qš	b.	sarčicirýuk	c.	qu'?acawi'qš
		hina–awi:qš [L+S]		sači–ci:ýuk [L+S]		qu?ac–awi:qš [L+S]
		empty.root-call.for		unceasing-going.to		person-call.for
		'send for'		'unceasingly going to'		'call for a person'

$C_1 \breve{V}_1 C_2 \breve{V}_2$ [S+S] Suffix (1)

[S+S] suffixes require that both the first and the second syllable of the base be short. There seems to be only one suffix associated with the [S+S] template, the general intensifier suffix $-aqaq \sim$ -(q)aq 'very, big'. The following examples demonstrate this suffix with one and three syllable bases. The base in example (61)c has the suffix $-ar\dot{n}u(t)$ 'along a length', an [L] suffix, so the form is actually $2ar\dot{t}ar\dot{n}ut$ before affixation of -aqaq.

(61)	a.	?iḥaqaq	b.	<i>?ayiči</i> λaq c.	?ałańułaqaq [S+S]
		?i'h ^w -aqaq [S+S]		?aya–iːčiλ–(q)aq [S+S]	?aťa–a'nu(ł) [L]–aqaq
		big-very		many-INCEP-very	thick-along.length-very
		'very big'		'become very many'	'very thick along length'

If the base has only underlying short syllables, the effects of this template will, of course, be indistinguishable from those of a neutral affix:

(62)	a.	ha?uk ^w aq ha?uk–(q)aq [S+S] eat–very	b.	λułaqaq λuł–aqaq [S+S] good–very	c.	<i>łiłmaqaq</i> <i>łiłma–aqaq</i> [S+S] secure–very
		'eat a lot'		'very good'		'very secure'

Examples like (63) show that the suffix is in fact neutral in some cases, otherwise the first sylla-

ble of *?i'čim* would be short:

(63) ?i'čimaq
?i'čim-(q)aq
old-very
'very old'

$C_1V_1C_1V_1$ [R] Affixes (44)

These affixes specify initial CV reduplication of the word with both reduplicated and original vowel lengths nonspecified. The first set of examples shows [R] affixes on underived bases with one, two, and three syllables, the first of which in each case is short.

(64)	a.	cici2a'luk	b.	?a?anas	c.	kukuḥŵisaʔi'ḥ
		ciq–'a:łuk [R]		?ana–as [R]		kuḥwisa–q–'iːḥ [R]
		speak-attend.to		only-on.cheeks		hair.seal-BFR-hunt
		'listen to sb speaking'		'only that on the cheeks	,	'hunt hair-seal'

The pharyngealized glottal stop /2/ in (64)a,c arises from underlying /q/ through the influence of the glottalizing suffixes - 'a:tuk and - 'i:th (§3.3.2). Examples (65)a-c show [R] affixes on bases with apparent persistently long first syllables. The word in (65)b illustrates a minor rule we have not encountered: sequences of vowel-glide are sometimes reduced in derived contexts to single long vowel, which is /i'/ if the glide is /y/ or /y'/, and /u'/ if the glide is /w/ or /w'/. Thus, the underlying form of (65)b (following application of the [R] template) is warwaryikuk.

(65)	a.	<i>či či latah</i> <i>či l–atah</i> [R] escape–ready.to	b.	<i>warwirkuk</i> c. <i>waryi–kuk</i> [R] Wayi–resemble	hu hu ?ičuλataḥ hu:?ič–uλ–ataḥ [R] sleep.PL–PERF–ready.to
		'ready to escape'		'Wayi-Like (place name)'	'ready to fall asleep'

The vowels in (65) retain their original length in the nonspecified reduplicative syllable. Generally, however, original long vowels are short in nonspecified reduplicative syllables, as noted earlier (§3.1). The words in (66) illustrate this with suffixes associated with the [R] template, but the same applies to other templates with nonspecified reduplicative vowels:

(66)	a.	?a?a'cataḥ	b.	yaya'čap
		<i>?a[.]c–ataḥ</i> [R] go.fishing–ready.to		<i>ya'–<u>č</u>ap</i> [R] sore–sore.with
		'ready to go fishing'		'feel sore'

$C_1 V_1 C_1 \breve{V}_1$ [LR+S] (2)

[LR+S] affixes specify initial CV reduplication with the reduplicated vowel long and the original vowel short. Only two suffixes are recorded with this template in Sapir & Swadesh (1939), *-ityak* [LR+S] 'fear ...' and *-a:pi* [LR+S] 'too much, too ...'. (The latter is listed by them on p. 318 as [R+S], which (67)c shows it cannot be). Unfortunately, none of the attested bases has the crucial underlying CV structure (a long first syllable) to show definitively that either of these suffixes is [LR+S] rather than simply [LR] (for which see below).

(67)	a.	<i>q^wi•q^witýak</i> <i>q^wi–itýak</i> [LR+S] whatever–fear	b.	<i>wi[,]wikitýak wik–itýak</i> [LR+S] not–fear	c.	sa'saya'pi saya–a:pi [LR+S] far.off–too
		'whatever one fears'		'not fear it, fear nothing	,	'too far off'

$C_1V_1C_1V_1$ [R+L] (19)

These affixes require initial CV reduplication with the reduplicated vowel non-specified and the original vowel long. Unlike the previous template, the [R+L] template is associated with a fair number of affixes. (68)a-b illustrate [R+L] suffixes with one and two syllable bases with short initial syllables; (68)c illustrates the plural infix *-t-* with the [R+L] template:

(68)	a.	?u?u'k ^w iýał ?u– <u>č</u> iýał [R+L] so.and.so–pursue	b.	?a?a'yimću ?aya–mću [R+L] many–regale	c.	natna'šuk našuk- <t> [R+L] strong-DUR-<pl></pl></t>
		'pursue it'		'regale many'		'strong (ones)'

The next example has bases with long initial syllables.

(69)	a.	?u?u'štaq	b.	haha' ? inyu
		?u'š–taq [R+L]		ha'?in–yu [R+L]
		something-work.on		invite–PL
		'do work'		'several inviting'

$C_1V_1cC_1V_1$ [Rc+L] (1)

These affixes have effects identical to those in the previous section except the consonant /c/ is inserted in the coda of the reduplicative syllable. Only one suffix is attested with this template, -(c)su(t) [Rc+L] 'at the eyes', which also appears with the simple [R+L] template in some words (71). Example (70) shows words with one and two syllable bases:

(70)	a.	$\dot{\lambda}ic\dot{\lambda}i\dot{h}sut$ $\dot{\lambda}i\dot{h}-(c)su(t)$ [Rc+L] red-at.eyes	b.	?u·c?u·qsu?ił ?u:q-(c)su(ł) [Rc+L]-´ił merry-at.eyes-in.house	c.	hacha ⁻ wacsuł hawa−(c)su(ł) eat−at.eyes
		'red-eyed'		'merry-eyed in the house'		'drowsy from eating'

(71) λiλircsurλ
 λi-(c)su(l) [Rc+L] shoot-at.eyes.PERF
 'get shot in the eye'

As described in §2.3, coda nasals function like long vowels with respect to most phonological alternations. Example (72) is further demonstration of this principle; it shows that template-specified length is satisfied by a coda nasal with no additional lengthening:

(72) *?ic?inksuł ?ink^w*-(c)su(ł) [Rc+L]
fire-at.eyes
'blinded by fire'

$C_1V_1C_1V_1$ [LR] (17)

This template is the converse of the [R+L] template: the reduplicated syllable must be long and the original initial base vowel is nonspecified. Only words with one and two syllable bases are attested in the corpus. No words containing a suffix associated with this template have been found with a long initial base syllable. (73)b is another case of the vowel-glide-vowel reduction rule. The input to the rule is *circiyapči*. See the discussion of (65)b for more information.

(73)	a.	<i>ku kuhinqi</i> ł <i>kuh^w–inqił</i> . [LR] hole–at.ribs	b.	<i>ci∙ci∙pči</i> <i>ciyap–<u>č</u>i</i> [LR] hat–attached	c.	<i>ča[,]čimwaýi[,]k</i> <i>čama–wať–'i:k^w</i> [LR] proper–speak–adept.at
		'hole at the ribs'		'a hat attached'		'Speaks-Right (man's name)'

$C_1V_1cC_1V_1$ [LRc] (1)

These affixes are /c/-inserting analogues of [LR] affixes. Only one suffix is attested with this template, -(c)suptart [LRc] 'competing in ...'. Example (74) shows words with one and two syllable bases. No bases with initial long vowels have been found.

(74)	a.	λi [·] cλiḥsupťarł b.	?u'c?uksupťa'ŧ	c.	ha'chawacsupła'ł
		λiḥ–(c)supťarł [LRc]	?u–(c)supťa:4 [LRc]		hawa–(c)supťa:# [LRc]
		move.pointwise-compete.in	so.and.so-compete.in		eat-compete.in
		'have a canoe race'	'compete in it'		'have an eating contest'

$C_1V_1C_1V_1$ [LR+L] (6)

[LR+L] suffixes specify initial CV reduplication with both vowels long. Examples show the [LR+L] suffix -hin 'at the end' with mono- and disyllabic bases that have initial short syllables. Example (75)c has a monosyllabic base with a long initial syllable.

(75)	a.	tu ⁻ tu ⁻ pkḥin tupk-ḥin [LR+L]	b.	hi [,] hi [,] šcitḥin hiš–cit–ḥin [LR+L]	C.	ni'ni'ḥmaqa ni'ḥ–maqa [LR+L]
		black-at.end 'black-tipped'		all–at.X.end–at.end 'at both ends'		1pl–for.sake.of 'for our sake'

Example (76) shows the [LR+L] template applied to a base with a coda nasal (§2.3) in the original base syllable.

(76) či čimcithin?as
 čim-cit-hin [LR+L]-'as
 right-on.X.end-at.end-outside
 '(at) the right end of the village'

$C_1V_1cC_1V_1$ [LRc+L] (1)

The only suffix attested with the [LRc+L] template is the locative suffix -(q)hsa 'at the brink'. The suffix -ma' 'as far as' in (77)b is sometimes associated with the [L] template, which means the base for -(q)hsa in this word is either 2uma' or 2uma'.

(77)	a.	hi'chinḥsacpa	b.	?u [.] c?u [.] maqḥsa
		hin–(q)hsa [LRc+L]–cpa'		$2u - \dot{m}a' - (q)\dot{h}sa$ [LRc+L]
		empty.rootat.brink-on.X.side		so.and.so-as.far.as-at.brink
		'on the beach side'		'at the very edge (of a bluff)'

3.3.2 Glottalizing suffixes

Nearly fifty suffixes, symbolized by -' in citation form, glottalize immediately preceding consonants.²¹ Stops are glottalized to homorganic ejectives, except / $q q^w$ /, which become /2/. Fricatives become glottalized glides. Dental, alveo-palatal, and lateral fricatives /s t s/ become /y/. A few instances of /t/ (generally following /u/, but sometimes other vowels) become /w/ instead of /y/. These are written ' t^{w} ' in underlying form. Labialized velar and labialized uvular fricatives / $x w x^w$ / become /w/. Most non-labialized velar, non-labialized uvular, and pharyngeal fricatives /x x h/ are unaffected by glottalization and require insertion of a glottal stop instead. Some pharyngeal fricatives, indicated by ' h^w ' in underlying form, become /w/. Glottalizing suffixes rarely occur after /y/ or /w/ because these segments do not normally appear in morpheme-final position due to a phonotactic constraint on morpheme structure. A very few roots like ta^w - 'sleep with' violate this constraint. With these, the glide is glottalized. Table 5 summarizes the effects of glottalizing suffixes.

$p \rightarrow$	ṗ	hap - 'hair' + - ' $i\lambda$ [L] 'get (perf.)' $\rightarrow ha'\dot{p}i\lambda$ 'get hair'
$t \rightarrow$	ť	<i>mat</i> - 'fly' + - 'as 'on the ground' $\rightarrow matas$ 'perched on the ground'
$c \rightarrow$	ċ	$caqic$ 'twenty' + - 'ahs 'in a vessel' $\rightarrow caqicahs$ 'twenty in a vessel'
$\hat{\lambda} \rightarrow$	ŕ	$ma\lambda$ - 'tied up' + - 'ahs 'in a vessel' $\rightarrow ma\lambda ahs$ 'tied in a vessel'
$\check{c} \rightarrow$	č	$2it\check{c}$ - 'dog' + - 'i's 'consuming' $\rightarrow 2it\check{c}i$'s 'eating dog'
$k \rightarrow$	ķ	$\dot{c}u\dot{c}k$ 'all' + - 'as 'on the ground $\rightarrow \dot{c}u\dot{c}kas$ 'all on the ground'
$k^w \rightarrow$	<i>k</i> ^w	$\dot{n}ik^{w}$ - 'hold with claws' + - ' $i\lambda$ [L] 'get (perf.)' $\rightarrow \dot{n}i'\dot{k}^{w}i\lambda$ 'pick up w/ claws'
$q \rightarrow$	4	siq - 'cooked' + - 'a λ formative suffix $\rightarrow si2a\lambda$ 'ripe, cooked'
$q^{\scriptscriptstyle W} \rightarrow$	4	$2a\lambda i q^w$ 'forty' + - 'i's 'consuming' $\rightarrow 2a\lambda i 2is$ 'consuming forty'
$s \rightarrow$	ý	$\dot{c}is$ - 'strung out' + - 'apuła [L] 'under' $\rightarrow \dot{c}i'\dot{y}apuła$ 'strung out under'
$i \to$	ý	$a\lambda ak^{w}at$ 'eight' + - 'i's 'consuming' $\rightarrow a\lambda ak^{w}ayis$ 'consuming eight'
$i^w \rightarrow$	ŵ	$-ut^{w}$ ' place' + - 'as $\rightarrow -uwas$ ' place on the ground'
$\check{s} \rightarrow$	ý	$\hat{\lambda}im\check{s}$ - 'boiled' + - 'i's 'consuming' $\rightarrow \hat{\lambda}im\check{y}i$'s 'consuming sth boiled'
$x \rightarrow$	x?	Jacobsen (1969a: 143); not attested in corpus
$x^{w} \rightarrow$	ŵ	$\dot{c}ax^{w}$ - 'spear' + - ' $aq\lambda$ 'inside' $\rightarrow \dot{c}a\dot{w}aq\lambda$ 'speared inside'
$\dot{h} \rightarrow$	<u></u> h?	cih - 'sour' + - ' $aq\lambda$ 'inside' $\rightarrow cicih?aq\lambda$ 'crab-apple'
$h^{w} \rightarrow$	ŵ	$2i'h^{w}$ 'big' + - 'as 'on the ground' $\rightarrow 2i'was$ 'big on the ground'
$m \rightarrow$	ṁ	<i>kim-</i> 'resting prone with chin on surface' + 'as 'on the ground' \rightarrow <i>kimas</i> 'animal crouched to spring with head low to ground'
$n \rightarrow$	ń	<i>hin-</i> empty root + - ' <i>i:</i> $\hat{\lambda a}$ [L] 'underneath' $\rightarrow hi'\dot{n}i'\dot{\lambda a}$ 'underneath'
$w \rightarrow$	ŵ	$\dot{t}a$ w- 'sleep with' + 'as 'go to' $\rightarrow \dot{t}a$ was 'go to sleep with'

Some roots and suffixes have final consonants that unpredictably resist glottalization and instead require insertion of a glottal stop. These are symbolized with a following period, as in pis.-'bad', e.g.

(78) piš.- 'bad' + - 'i's 'consuming ...' → piš?i's 'eating sth bad'
Compare with λimy'i's 'consuming sth boiled' < λimš- 'boiled' + - 'i's qut.- 'slave' + - 'ahs 'in a vessel' → qut?ahs 'slave in a vessel'
Compare with λisay'ahs 'blanket in a vessel' < λisat 'blanket' + - 'ahs his.- 'chop' + - 'i'λ 'on the ground, perf.' → his?i'λ 'chop on the ground'
Compare with cuy'i'λ 'get buried in the ground' < cus- 'dig' + - 'i'λ

There is also a series of locative suffixes with final $/\frac{4}{}$ that resist glottalization. These are symbolized ' $(\frac{4}{})$ '. The lateral fricative is later deleted by a morpheme-specific final consonant deletion rule (79). See §3.3.7.

(79) hitarpu?as hita-'apu(t)-'as empty.root-underneath-on.ground 'underneath on the ground'

All the examples we have seen so far have glottalizing suffixes following consonants. They can also follow vowels, in which case a glottal stop is inserted. This is often lost later in the derivation (§3.3.4) (but the glottal stop in examples like (79) is not subject to deletion, §3.3.7), e.g.

(80)	?aħa-'akħi	underlying form ($?a\lambda a$ 'two' + - ' $ak\lambda i$ 'at the rear')
	?aħa?akħi	glottal stop insertion
	?aħa'kħi	reduction of V?V sequence (§3.3.4)

'two at the rear'

Why not simply analyze glottalizing suffixes as suffixes with initial glottal stops? This straightforward solution is prevented by the existence of suffixes with initial glottal stops that never trigger the effects described above, e.g. *-?atu* [L] 'sink (perf.)' and *-.?u*kt* 'obtained by
...'.²² These suffixes always appear with glottal stops (which may be lost later in the derivation) and have no effect on preceding sounds. (The period diacritic in -. 2wkt 'obtained by' is explained in §3.3.4).

(81) a. kap?u·kt kap-.?u·kt rob-obtained.by
'stolen goods'
Compare with kapas 'go to rob' < kap- + 'as 'go in order to ...'
b. hu·p?atu hup-?atu hup-?atu [L] round.object-sink.PERF
'sun sets'

Compare with $hu\dot{p}as$ 'ball on the ground' < hup - + - as 'on the ground'.

In addition to glottalizing suffixes there are also several glottalizing clitics, e.g. = $a\lambda$ temporal specifier, = at passive-inverse. These are similar to glottalizing suffixes, but have less influence on preceding sounds: they glottalize preceding stops just as glottalizing suffixes, but simply insert a glottal stop when following fricatives. They do not glottalize them:

(82) hałirł?aλ hałirł = 'aλ invite.to.participate=TEMP
'invite sb to participate now'
Compare with hałirýas 'go to invite' < hałirł + - 'as 'go in order to' (a glottalizing suffix)

3.3.3 Leniting suffixes

Three suffixes in Nuuchahnulth lenite immediately preceding fricatives.²³ These suffixes, symbolized by '- in citation form, change preceding fricatives to glides following the pattern of the glottalizing suffixes. The three leniting suffixes are - '*it* 'on the floor, in the house', - '*is* 'on the beach', and - ' $a\check{c}i\lambda$ perfective inceptive aspect. Table 6 summarizes these patterns.

Table 6. Effects of leniting suffixes

S	\rightarrow	у	$\dot{c}is$ - 'lined up' + - ' $is \rightarrow \dot{c}iyis$ 'lined up on the beach'
ł	\rightarrow	у	$\hat{\lambda}ut$ 'good' + - ' $a\check{c}i\lambda \rightarrow \hat{\lambda}uya\check{c}i\lambda$ 'get well, become good'
d^w	\rightarrow	w	$-ut^{w}$ ' place' + 'is \rightarrow -uwis 'place on the beach'
š	\rightarrow	у	$\dot{p}i\dot{s}$ 'bad' + - ' $a\dot{c}i\lambda \rightarrow \dot{p}iya\dot{c}i\lambda$ 'get bad'
x^w	\rightarrow	w	$\dot{c}ax^{w}$ - 'spear' + - ' <i>is</i> \rightarrow $\dot{c}awis$ 'point foremost in the beach'
<u></u> h [₩]	\rightarrow	w	$?i'h^{w}$ 'big' + - ' $a\check{c}i\lambda \rightarrow ?i'wa\check{c}i\lambda$ 'get big'

Leniting suffixes have no effect on /h/ and other consonants, e.g.

- (83) a. λiḥis λiḥ-'is move.pointwise-on.beach '(canoe) touches beach'
 - b. we?ičił we?ič-'ił sleep-in.house 'sleeping in the house'
 - c. *tiq^wit tiq^w-'it* sit-in.house
 'sitting in the house'
 - kanił
 kan-'ił
 kneel-in.house
 'kneeling in the house'

Morphemes with final consonants that require insertion of glottal stops before glottalizing suffixes (§3.3.2) often require one before leniting suffixes as well:

(84) a. *PustPis Pust.-'is* locative.root-on.beach
'on the beach'
Compare with *PustPas* 'on the ground' < *Pust.-+ -'as* 'on the ground' b. *icivč?it ic-ivč.-'it* spread.cloth-covering-on.floor
 'covered by a spread cloth on the floor'

Compare with *lici* \ddot{c} ?ahs 'covered by a spread cloth in vessel' < $-i\dot{c}$.-+-'ahs 'in vessel'

c. *hita'pu?is hita-'apu(ł)-'is* empty.root-underneath-on.beach

'underneath on the beach'

Compare with *hita*'*pu*?*as* 'underneath on the ground' (79)

There are a few morphemes, however, with final consonants that resist glottalization (and require insertion of a glottal stop instead) but accept lenition, e.g.

(85) λuyačiλ λuł- 'ačiλ good-INCEP
'become good'
Compare with λuł?as 'nice spot on the ground' < λuł. + - 'as 'on the ground'²⁴

The only two morphemes found with this property to date are the roots λut . 'good' and $\dot{p}is$.-'bad'. In some cases λut does resist lenition, however. Unlike the examples in (84), no glottal stop is inserted in these cases:

(86) λułis
λuł.-'is
good-on.beach
'clear beach' (NA 321.17)

Following vowels, leniting suffixes insert a glottal stop like glottalizing suffixes:

(87) λe^{2it} $\lambda a - 'it$ stick-like.object.stands-in.house '(stick-like object) standing in the house'

In most environments the glottal stop is lost later in the derivation by reduction of V2V sequences

(§3.3.4).

3.3.4 Reduction of V?V sequences

In derived environments, sequences of vowel-?-vowel where the first vowel is not in the initial syllable are often reduced to a single long vowel with the quality of the second underlying vowel: $V_1?V_2 \rightarrow V_2^{*2}$.²⁵ Example (88) shows reductions in derivations involving glottal stops from the three possible sources:

$(88) \quad a. \quad \text{Reduction involving a suffix-initial glottal stop}$

?aħa-?atu	underlying form ($2a\lambda a$ 'two' + - $2atu$ 'fall off (perf.)')
?aħa [,] tu	reduction of V?V sequence
'two fall off'	

b. Reduction involving a glottal stop derived from a glottalizing suffix

?aħa-'i's	underlying form $(2a\lambda a \text{ 'two'} + - is \text{ 'consuming'})$
?aħa?i's	glottal stop insertion (§3.3.2)
?aħi's	reduction of V?V sequence

'consuming two'

c. Reduction involving a root-internal glottal stop

qu'?as	underlying form (qu'?as 'person, man')
ququ'?as	distributive reduplication (§5.5.4)
quqa's	reduction of V?V sequence
quq ^w a's	labialization (§3.2.2)
'people'	

Several types of sequences systematically fail to reduce:

- a) Sequences with a persistently long vowel:
- (89) či'cs?u'?is
 či'-i:cs.-'u:-'is
 pull-carry.along-camp.out.for.purpose.of.getting-on.beach
 'camp out on the beach for the purpose of getting (fish) by trolling'
- b) Sequences with a long vowel in the second syllable of a word followed by a glottal stop de-

rived from a glottalizing clitic:

(90) $\dot{c}icswir?a\lambda$ $\dot{c}i-(c)swir = 'a\lambda$ cut-through.PERF=TEMP 'cut through now'

If the glottal stop derives from a glottalizing *suffix*, reduction is permissible:

- (91) *čicswa's či-(c)swi'-'as* cut-through.PERF-on.ground
 'cut through on the ground'²⁶
- c) Sequences involving a glottal stop derived from glottalizing Imperative mood clitics, e.g.
 - = '*i*'s second person singular acting on first person singular non-future Imperative ($\S7.2.20$):
- (92) nač?ar?atu?is nač-?ar?atu = 'i's look-move.down.PERF=IMPER.2sg/1sg
 'Look down upon me!'
- d) Sequences including a glottal stop from a clitic with an underlying initial glottal stop, e.g.

= *?i*^{\cdot} article:

- (93) 2aye2i 2aya = 2ir many=ART 'the many'
- e) Sequences including the first vowel of the root when it stands in the first syllable of a word:
- (94) nu?atu nu-?atu sing-leave.off.PERF 'stop singing'

As (88)c shows, if the first root vowel comes to stand in the second syllable of the word by reduplication, the sequence *can* reduce under certain circumstances, namely if the second underlying vowel is part of the root (as it is in (88)c) or part of an aspect suffix (Sapir & Swadesh 1939: 237). If the second underlying vowel is not one of these, the sequence cannot reduce:

(95) λaλe?ił (*λaλi·ł)
[R]-λa-'ił
PL-stick-like.object.stands-in.house
'(stick-like objects) standing here and there in the house' (cf. (87))

There are also morpheme-specific exceptions. These fall into three categories:

a) Suffixes with underlying initial glottal stops that do not reduce. These are symbolized -. ?,

e.g. -. ?u'kt 'obtained by ...'

- (96) 2uyi2ukt 2u-yi-.2ukt so.and.so-at.X.time-obtained.by
 'obtained at such and such time'
- b) Glottalizing suffixes that do not allow reduction of the glottal stop inserted when they occur in post-vocalic position (§3.3.2). These are symbolized -. ', e.g. -. '*aqsup* 'woman of ...'
- (97) *ċiša'?aqsup ċiša'-. 'aqsup*Tsisha-woman.of
 'woman of the Tsisha (Tseshaht) Tribe'

c) Morphemes with final vowels that do not permit reduction with following glottal stops derived from suffixes with initial glottal stops or glottalizing/leniting suffixes. These are symbolized with a following period, e.g. -(c)s?atu. [L] 'at the door'.

(98) hir4s?atu?as hit-(c)s?atu. [L]-'as there-at.door-outside

'there outside at the door'

Morphemes like -(c)s?*atu*. may also resist reduction of simple VV sequences (§3.2.3). This possibility requires further research. These morphemes do allow reduction of sequences with glottal stops from glottalizing clitics.

(99) $hirls?ata\lambda$ $hil-(c)s?atu. [L] = 'a\lambda$ there-at.door=TEMP 'He was there at the door.' (13.6.4)

Reduction of V?V sequences occurs only in derived environments, i.e. at the boundary between a suffix or clitic and a base (88)a-b, or morpheme-internally in roots that have undergone distributive reduplication (88)c. Tautomorphemic sequences never reduce otherwise, cf. unreduced sequences in roots like *?a?a'yaqsa?a* 'blanket' and *čitir?asim* 'copper'.

3.3.5 Denasalization

A small group of bound roots end in genuine nasals (not coda nasals, §2.3), e.g.

(100) Bound roots ending in genuine nasals, e.g.

<i>?am-</i> locative root	<i>kum-</i> 'point, poke, press with finger'
<i>cim-</i> 'bulging muscle'	\dot{k}^{w} <i>in</i> - 'stuck, glued on'
<i>či·m-</i> 'plug up'	$\dot{\lambda}am$ - 'two-pronged object attached on'
kan- 'kneel'	$\dot{\lambda}$ <i>im</i> - 'stroke with hands'
kim- 'resting prone with chin on a surface'	$\dot{\lambda}$ <i>in-</i> 'stem broken off, distended'
kan- 'camp, stop temporarily'	sim- 'pole-like object has position'

Unlike morphemes with final coda nasals, roots with genuine final nasals are consonant-final, as can be determined by examining their behavior in the alternations described in this chapter. For example, we saw in §2.3 that morphemes with final coda nasals require insertion of a glottal stop before glottalizing suffixes (§3.3.2), just as vowel-final morphemes do (101)a. Nasal-final roots, however, accept glottalization from these suffixes like most other consonant-final morphemes (101)b-c:

(101) a. Morpheme with final coda nasal *tutu'čnim?as*

tutu chimitas tuč-nim [R+L]-*`as* woman-try.to.obtain-go.in.order.to

'go to get a wife'

b. Root with final nasal $\vec{k}u\dot{m}aq\lambda$ $\vec{k}um-'aq\lambda$ point.with.finger-inside

'have one's finger poked inside'

 c. Root with final non-nasal consonant *caxyak^waqλnuk cax^w-yak^w-'aqλ-nuk* spear-instrument-inside-at.hand '(hold) a spear in the hand'

This parallelism between nasal-final and consonant-final morphemes continues through the other alternations.

When roots with final nasals precede consonant-initial suffixes, the nasal is replaced by a homorganic voiceless stop:

(102) ?apcifim 'the side of the head' < ?am- locative root + -cifim 'at the side of the head'
cipsa'p 'flex muscles' < cim- 'bulging muscle' + -sa'p causative perfective
ci'pšiλ 'plug up, caulk, jam in' < či'm- 'plug up' + -šiλ perfective
katšiλ 'strike with knee' < kan- 'kneel' + -šiλ
kipšiλ 'close mouth' < kim- 'have lips tightly closed' + -šiλ
katšiλ '(to) camp' < kan- 'camp, stop temporarily' + -šiλ
kupċuq^wa 'finger inserted in mouth' < kum- 'point, press, poke with finger' + -ċuq^wa
'in the mouth'
k^witpir 'glued to one's back' < k^win- 'stuck, glued on' + -pir 'on the back'
λ'ipmałuł 'stroke one's face with fingers' < λ'im- 'stroke with hands' + -mał- 'moving

about' + -(q)u'(t) 'on the face'

 $\hat{\lambda}$ *it?atu* 'stem breaks off' < $\hat{\lambda}$ *in-* 'stem broken off, distended' + -?atu 'come off (perf.)'

sipturp 'pole' < *sim*- 'pole-like object has position' + -(š)*turp* '... thing'

Preceding vowel-initial suffixes, the nasal remains.

(103) *Pamarcsi* 'the front of the thighs' < 2am- locative root + -arcsi 'on the lap'

kimačišt 'resting with chin on the water' < *kim*- 'resting prone with chin on a surface' + -*ačišt* 'on the ocean'

3.3.6 Nasalization

Clitics beginning with an /m/ that is subject to initial consonant deletion §3.3.8, which includes the Indicative mood clitic = $(m)a^{r}$ and the past tense morpheme = (m)it, regularly turn preceding voiceless labial stops to homorganic nasals.

- (104) a. $2a\check{c}\check{y}a^{*}mit?i$ $2a\check{c}\check{y}a^{*}p = (m)it = 2i^{*}$ gather.wood=PAST=ART 'the one who had come for wood'
 - b. ?ačýa·me?ic ?ačýa·p = (m)a· = ?ic gather.wood=INDIC=2sg

'you are gathering wood'

c. $hu'\check{c}uq\lambda is 2aqsumit 2i$ $hu'\check{c}uq\lambda is$ -. aqsup = (m)it = 2i'Huchuktlis-woman.of=PAST=ART

'the late woman of Huchuktlis (place name)'

d. 2u?amin2u-.`ap=(m)a=niso.and.so-buy=INDIC=1pl

'we bought it'

There are occasional exceptions, however, which seem to involve primarily the first person

plural.

The past tense clitic also sometimes turns preceding voiceless dental stops (with preceding vowels) to homorganic nasals. The conditioning environments for this process require further research.

(105) a. wikinitawikint = (m)it = anot.exist=PAST=INDIC

'there was none'

b. mi?a*nit?i mi?a*t=(m)it=?i* sockeye=PAST=ART
'the former sockeye salmon (now cut up)'

3.3.7 Final /#/ deletion

All restrictive locative suffixes (§5.5.2) with final /ut/ or /urt/ and one with final /irt/ (-*pirt* 'in the middle') undergo deletion of the /t/ when they precede glottalizing/leniting suffixes and a few other suffixes, e.g. -*ma* -*im* -*um* '... thing', -*i:*h plural. This is signaled in underlying form by parentheses around the deleting consonant, e.g. -(*q*)*u*'(*t*) 'on the face'. By the processes described in §3.3.2 and §3.3.3, a glottal stop is inserted between the deleting final (prior to deletion) and glottalizing/leniting suffixes. This leaves a vowel-*?*-vowel sequence after deletion of /t/. This sequence is never subject to the reduction processes in §3.3.4.

- (106) a. Deletion preceding glottalizing suffix k^wartu?as k^wart-(q)u'(t)-'as branches-on.face-outside 'Branches-on-face-Outdoors (man's name)' Compare with k^warturt 'branches on face'
 - b. Deletion preceding -ma <u>huqu'ma</u> <u>huq-(q)u'(f)-ma</u> inverted.hollow.object-on.face-thing

'head mask'

Compare with *huqu't* 'wearing a head-mask'

 c. Deletion preceding plural suffix <u>huqu'h</u> <u>huq-(q)u'(l)-i:h</u> inverted.hollow.object-in.face-PL 'wearing a head-mask (pl.)'

Strictly speaking, marking suffixes that undergo deletion with a diacritic is redundant, since, with the exception of -pi'(t) 'in the middle', it is entirely predictable which suffixes fall into this category based on morpheme class and phonological shape. It is useful as a mnemonic device, though, because there are many other locative and non-locative suffixes that end in /t/, including a few non-locative suffixes that end in /ut/, that do not undergo deletion. These are subject to regular glottalization and lenition processes described in §3.3.2 and §3.3.3.

- (107) a. mu'či'ýas mu'-či't-'as four-X.many.days-on.ground 'four days on the ground'
 - b. carxsimčuwas cax^w-simč [L]-uł^w-'as hurl.point.foremost-do.ritual.for-place.for-outside
 'place outdoors for performing spearing rituals'

The final $/\lambda$ in all allomorphs of the perfective aspect suffix and in all portmanteau morphemes with a perfective component, whether suffixes or roots, is lost before glottalizing clitics. A non-reducing glottal stop is inserted between morpheme and clitic. This is not marked by any diacritic since it applies with absolute regularity to forms signaling this grammatical category.

(108) a. Deletion involving an allomorph of the perfective suffix $kat \check{s}i ?a \hat{\lambda}$

 $kan-\check{s}i\lambda = `a\lambda$ kneel-PERF=TEMP

'kneel down now'

b. Deletion involving a portmanteau morpheme with perfective component $katpi?a\lambda$ $kan-pi\lambda = 'a\lambda$ kneel-in.house.PERF=TEMP

'kneel down in the house now'

This segment undergoes regular glottalization preceding glottalizing suffixes:

 (109) katšiλas kan-šiλ-'as kneel-PERF-about.to
 'about to kneel down'

The perfective allomorphs $-u^{\lambda}$ and $-u^{\lambda}$, which occur with locative suffixes with final /u(t)/v or

 $|u'(\ell)|$ (e.g. - $(q)u'(\ell)$ 'on the face', perf. - $(q)u'\lambda$), take the form - $awi\lambda$ before glottalizing clitics:

(110) $2u\dot{y}iqawi2a\lambda$ $2u\dot{y}i-(q)awi\lambda = 'a\lambda$ medicine-on.face.PERF=TEMP 'put medicine on one's (own) face'

Several inherently perfective suffixes ending in $/\lambda$ / also undergo $/\lambda$ /-deletion, which suggests that they may have the perfective suffix as an etymological component. Among these suffixes are $-awa\lambda$ [L] 'find, come upon ... (perf.)', $-ir\lambda$ 'lose ... (perf.)', $-i\lambda$ [L] 'go for, get, invite ... (perf.)', $-\dot{p}u:\lambda$ 'get paid (for) ... (perf.)', $-su:\lambda$ '... dies (perf.)'. This list may be complete.

(111) a. wi'kawa?aλ wik-awaλ [L] = 'aλ not-find.PERF=TEMP

'have nothing come to one now' (Sapir 1924: 102, note 182)

b. $mu^{2}i^{2}a\lambda$ $mu^{-}i\lambda$ [L] = $ia\lambda$ four-get.PERF=TEMP 'get four now'

Non-perfective morphemes that end in $/\lambda$ / undergo regular glottalization preceding both glottalizing suffixes and glottalizing clitics:

- (112) a. ?a?a'tu'ma'?aλ´as
 ?a?a'tu:-ma:?aλ-'as
 ask-intend.to-about.to
 'about to ask'
 - b. $a a a tu ma a \lambda a \lambda$ $a a a tu - ma a \lambda = a \lambda$ ask-intend.to=TEMP

'intend to ask'

3.3.8 Initial consonant deletion

Certain suffixes begin with consonants that are present when they follow bases ending in a vowel or coda nasal, but lost when they follow consonant-final bases. The following consonants are subject to initial deletion in a least one suffix: $/\check{c} k^w q n \check{s} w y \dot{y'}$. There are other suffixes beginning with each of these consonants that never undergo initial deletion. Deleting consonants are symbolized with parentheses, e.g. -(q)a's 'daughter of ...'. Compare this suffix in (113) to -qi' on top, on the head' with non-deleting /q/ in (114):

(113)	a.	Vowel-final base <i>ċimṫu·q^was</i> <i>ċimṫu·–(q)a·s</i> squirrel–daughter.of	b.	Base with final coda nasal ka'naqimqas ka'naqim–(q)a's Kanakim–daughter.of	c.	Consonant-final base 2a sicas 2a sic-(q)a s bee-daughter.of
		'Squirrel-daughter'		'daughter of Kanakim'		'Daughter of the Bee'
(114)	a.	<i>hitaqi</i> <i>hita-qi</i> empty.root-on.top	b.	<i>čimqi'</i> <i>čim–qi'</i> ready–on.top	c.	<i>himtqiv</i> <i>himt-qiv</i> crosswise-on.top
		'on top'		'prepared on top'		'crosswise on top'

One unexplained exception to the general rule of retention after nasals has turned up thus far:

(115) ?i'čimaq
 ?i'čim-(q)aq
 old-very
 'very old'

There are also several clitics subject to initial consonant deletion, e.g. =(w)u:s dubitative, =(m)a Indicative mood (116). Note also the deleting /y/ of the continuative aspect suffix in (116)a:

(116)	a.	Vowel-final base b.	Nasal-final base C.	Consonant-final base
		huksa'maḥ	hahaqčimmah	?ani ła <u>ḥ</u>
		huks - (y)a' = (m)a' = ah	$hahaq\check{c}im = (m)a' = ah$	ana-'id=(m)a'=ah
		count-CONT=INDIC=1sg	hardly=INDIC=1sg	only-in.house = INDIC=1sg
		'I am counting'	'I hardly'	'only I am in the house'

Another, much more restricted, initial deletion alternation involves several suffixes beginning with /c/, among them $-caq\dot{c}u$: 'at the end, at the ... end', -ca's 'at one of a pair of body parts', -ci'f 'on the edge, on the ... edge', -cit- 'on the ... side, end' and $-cu\dot{w}at$ [L] 'on ... side, on the ... side'. These lose initial /c/ following at least one root ending in /s/, the root $k^{w}is$ - 'different' (117)a. It is unknown whether other /s/-final roots trigger the same alternation. The /c/ is retained after other consonants (117)b-c:

(117)	a.	After k ^w is-	b.	Post-consonantal	с.	Post-consonantal
		k ^w isaqću'		hišcaqću		ťuťu <u></u> hcaqċu [,]
		k ^w is–caqću:		hiš–caqću:		[R]–ťuḥ–caqću:
		different-at.X.end		all-at.X.end		PL-head-at.end
		'at the other end'		'at both ends'		'a head at each end'

3.3.9 Alternating initial consonants

(118)	<u>PW</u>	<u>NW</u>	<u>SW</u>	
	*k	$k [k^{j}]$	č	Kw $\lambda u \dot{p} \partial \underline{k}$ 'root'; ²⁷ M, N $\lambda u \dot{p} a \underline{\check{c}}$ id.
	* <i>k</i>	\vec{k} [\dot{k}^{j}]	č	Kw $\underline{k}at$ - 'paint'; ²⁸ M $\underline{c}at$ - 'write, draw, paint'
	*g	g [g ^j]	č	Kw gamula 'halibut hook', ²⁹ M $\underline{\check{c}}ibu \cdot d$, ³⁰ N $\underline{\check{c}}imun$ id.
	*х	$x [x^j]$	š	Kw $\dot{t}a\underline{x}$ - 'road, trail', ³¹ M, N $\dot{t}a\underline{\check{s}}$ - id.

As laid out in (118), the non-labialized velar consonant series $/k \ \dot{k} \ g \ x/$ in Proto-Wakashan developed to palatalized velars in Northern Wakashan and to alveo-palatals in Southern Wakashan (Sapir 1911a: 16, 1924: 87, note 32, 1938, reprint 1949: 231).³² Note also that the PW voiced and voiceless series have remained distinct in NW, but merged in SW (Sapir 1924: 84, note 8). Proto-Wakashan labialized velars have been retained in both branches of the family, as shown by correspondences such as Kwakwala $d\partial x^{w}$ - 'to jump' (Boas 1947: 216), Nuuchahnulth tux^{w} - id; Kw $t\partial lq^{w}$ - 'soft' (Lincoln & Rath 1980: 100), N tuq^{w} - 'melted, dissolved' (Kw $/\partial l/$ corresponds

to N /u/); Kw $\dot{t} \partial lx^{w}$ - 'to shred cedar bark' (Boas 1947: 223), Nu $\dot{t}ux^{w}$ - id. (old word); Kw -nuk^w 'having' (Boas 1947: 348), N -na^{*}k^w 'having ...'.

The different historical development of the two PW velar series, labialized and non-labialized, in SW has had morphophonological consequences in Nuuchahnulth. The language has inherited a group of suffixes, many of which are preserved in NW as well, that originally began with a non-labialized velar consonant. Following bases with final consonants or /a i/ this segment appears as $/\tilde{c}/$ in modern Nuuchahnulth, as we would expect from the correspondences in (118). Following /u/, however, it appears as $/k^w/$ today, since labial neutralization (§3.2.2), evidently an ancient alternation, replaced */k/ with $*/k^w/$ in this environment and thus protected it from the palatalization process that affected it in other environments. The same applies *mutatis mutandis* to suffixes that began with */k/. Example (119) shows words in both environments containing suffixes that putatively began with original */k/ or */k/. I follow Rose (1981) in positing $/\tilde{c}/$ as the synchronic underlying initial segment of these suffixes.

(119)	a.	Following consonants or /a i/ ?a?a'yači'qa ?aya– <u>č</u> i:qa [R+L] many–impeded.by	b.	Following /u/ ?u?u [.] k ^w i [.] qa ?u- <u>č</u> i:qa [R+L] so.and.so-impeded.by
		'impeded by many'		'impeded by it'
		<i>čičiččap</i> <i>čič–<u>č</u>ap</i> [R] tooth–sore.in		<i>?u?uk̇́^wap</i> <i>?u–<u>č́</u>ap</i> [R] so.and.so–sore.in
		'have a tooth-ache'		'suffer from it'

The underlining of the initial segment (e.g. $-\underline{\check{c}}i:qa$) is to distinguish these suffixes from suffixes like $-\check{c}as$ [R] 'fond of ...' that have initial $/\check{c}/$ that does not alternate with $/k^w/$. There are very few non-alternating suffixes, and some of these may ultimately prove to alternate when tested in the appropriate environments.

Many suffixes of this type have deleting initial consonants (§3.3.8). These suffixes are similar to those in (119) except the initial consonant deletes after consonant-final bases instead of appear-

ing as $/\check{c}/.$ (Recall from §2.3 that bases with final coda nasals count as vowel final with regard to consonant deletion.) Example (120) demonstrates with $-(\check{c})it$ 'on the body'. There is no need for underlining with most of these suffixes because most suffixes with deleting initial $/\check{c}/$ have a velar alternate. The cognate Northern Wakashan suffix -(g)it 'body' is included for comparison. The first word of the NW examples is Haisla (kindly provided by Emmon Bach, p.c.), and the final two are Kwakwala from Boas (1947: 353).³³

(120)	a.	Following /a i/ $\dot{c}a\dot{c}it$ $\dot{c}a-(\dot{c})it$ water-on.body 'water on the body'	b.	Following /u/ $mu'k^wit$ or $mu'-(\check{c})it$ four-on.body'four on the body'	c.	Following a consonant $\dot{c}aqucit$ $\dot{c}aquc-(\check{c})it$ bubble-on.body 'Bubbly-Body (name)'
		<i>digita</i> <i>di–(g)it–a</i> wipe–body–TRANS 'to wipe body' (Haisla))	<i>?ug^widi?</i> <i>?u–(g)it–'i?</i> locative.root–body–NOM 'body of pole, tree' (Kw))	<i>kəlqita kəlq–(g)it–a</i> lick–body–TRANS 'to lick body' (Kw)

Thus far, all alternating suffixes have begun with the alternating consonant followed by a vowel. Many of these suffixes, however, begin with a consonant cluster that consists of the alternating consonant followed by one or two consonants. This occasions certain phonological changes in the alternating consonant. First, due to optional neutralization of labialization between /u/ and a consonant, the alternate following /u/ may be pronounced either /k/ or $/k^w/$, although it is always written /k/ (§3.2.2).

(121)	a.	Following /a i/	b.	Following /u/	c.	Following a consonant
		hisačła		?ukŧa′		čihła
		hisa–(č)ła		?u–(č)ła		čih–(č)ła
		there-have.as.name		so.and.so-have.as.name		ghost-have.as.name
		'named after that place'		'have it as name'		'have a ghost name'

The alternate that follows /a i/ is also subject to variation. Before alveolar consonants /s c/ it is realized as /c/.

(122)	a.	Following /a i/	b.	Following /u/	c.	Following a consonant
		?imcsa'ťa		?u [.] ksa'ťa		?a'čsa'ťim
		?im–(c)sa:ťa [L]		?u–(c)sa:ťa [L]		?ač–(c)sa:ťa [L]–im
		locative.root-on.forehead		so.and.so-on.forehead		pad-on.forehead-thing
		'on the forehead'		'have it on the forehead	,	'head-flattener'

Note that alternating consonants are represented in underlying form by the shape they take following |a i|.

Before dental /t/ the alternate following /a i /is realized as /š/. (Underlining of the alternating segments distinguishes these suffixes from those with deleting initial /š/ segments that do not alternate; see, for example, (125) below.)

(123)	a.	Following /a i/	b.	Following /u/	c.	Following a consonant
		?u'k ^w aštis		?u'ktis		wi [,] ktis
		?uk ^w a–(<u>š</u>)tis [L]		?u–(<u>š</u>)tis [L]		<i>wik–(<u>š</u>)tis</i> [L]
		oneself-act.with.ref.to		so.and.so-act.with.ref.to		nothing-act.with.ref.to
		'act of one's own accord	1'	'act based on it'		'act without permission'

Not all deleting initial /k/ or /s/ segments alternate, although they may have at one time in

history. The suffix $-(k)\check{c}i$ 'along with ...' begins with a deleting, but non-alternating /k/.

(124)	a.	Following /a i/	b.	Following /u/	c.	Following a consonant
		?anakčił		?ukči [,] ł		?u'šči
		?ana–(k)či– `ił		$2u-(k)\check{c}i-\check{i}i$?u'š–(k)či
		only-along.with-in.house		so.and.so-along.with-in.house		someone-along.with
		'along with only indoors	5'	'along with him indoors'		'along with sb'

Similarly, the suffix $-(\check{s})ti^{\prime}p$ 'doing to while ...' begins with a non-alternating $/\check{s}/$.

(125)	a.	Following /a i/	b.	Following /u/	c.	Following a consonant
		saya'štip		su'šti'p		hiłti'p
		saya'–(š)ti'p		$su-[L]-(\check{s})tip$		hił–(š)ti p
		distant-do.to.while		hold-CONT-do.to.while		there-do.to.while
		'do to while distant'		'do to while holding'		'do to while there'

Underlying	/a i/	/u/	C	Example
- <u>č</u> V	-čV	- <i>k</i> V	-čV	(119)
- <u>č</u> V	- <i>č</i> V	- <i>k</i> V	- <i>č</i> V	(119)
-(č)V	-čV	- <i>k</i> V	-V	(120)
$-(\check{c})$ <i>t</i> V	- <i>čŧ</i> V	- <i>k</i> ł	-#V	(121)
-(<i>c</i>) <i>s</i> V	- <i>cs</i> V	- <i>ks</i> V	- <i>s</i> V	(122)
$-(\underline{\check{s}})tV$	- <i>št</i> V	- <i>kt</i> V	- <i>t</i> V	(123)

Table 7. Realization of alternating initial consonants

Table 7 (after Rose 1981: 17) summarizes the realizations of alternating initial consonants we have discussed. Labialization of the pre-vocalic $-\underline{\check{c}}V$... and $-\underline{\check{c}}V$... alternates in the /u/____ environment is handled by the regular labial neutralization rules (§3.2.2).

3.4 Appendix on Makah

In this section I introduce the main points of Makah phonology. Data on Makah is less abundant than on Nuuchahnulth, and the discussion is accordingly less detailed. Original description of most of the processes can be found in Jacobsen (1968, 1969b, 1971, 1973, 1994, 1996, 1997a, 1998a, 1998c, 1999a-b, 2000).

In general, Makah presents a very similar picture to what we have seen in Nuuchahnulth: Makah has the typical Wakashan glottalizing/leniting suffixes, affixal CV templates, reduction of VV and V?V sequences, deleting initial and final consonants, etc., but it has developed additional complexities of its own. Among the most prominent of these are the "mutating" clitics (§3.4.2) and widespread patterns of vowel insertion and loss (epenthesis, syncope, and apocope) (§3.4.3). In the discussion that follows I concentrate on these Makah-specific processes. A typologically interesting process in Makah not described here is labialization dissimiliation (Jacobsen 1998c).

3.4.1 Segment inventory

Makah has 34 consonant phonemes.

Tab	le 8.	Maka	h conso	nant	inventory
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	Labial	Dental	Alveolar	Lateral	Alveo- Palatal	Velar	Labialized Velar	Uvular	Labialized Uvular	Glottal
Voiceless Stops	р	t	с	λ	č	k	k^w	q	q^{w}	
Ejectives	\dot{p}	ť	ċ	Ŕ	č	ķ	\vec{k}^w	\dot{q}	$\dot{q}^{\scriptscriptstyle W}$	2
Voiced Stops	b	d								
Fricatives			S	ł	š	x	x^w	x	x^w	h
Sonorants	(m)	(<i>n</i>)		l	У		w			

The nasals /*m n*/ are marginal in Makah, occurring in only a few words, e.g. *ham* 'feces', *na*'*ni*' 'grizzly bear'. See below. In addition to the phonemes in Table 8, one word in Makah contains /g/: *xigi*'*dit* 'Clallam Bay (place name)', a borrowing from Clallam, a neighboring Salish language.

The Makah and Nuuchahnulth inventories (see Table 1) differ in four ways.³⁴ First, as described in Jacobsen (1969a), the Proto-Southern-Wakashan ejective uvular stops and uvular fricatives shifted to pharyngeals in Nuuchahnulth, but were retained in Makah:

(126) <u>P</u>	<u>SW</u>	<u>M</u>	<u>N</u>	
;	$*\dot{q}$	ģ	2	Μ <i>ἀidi'</i> λ, Ν <u>²</u> ini'λ 'dog'
;	*q́ ^w	<i>q</i> ^w	2	M <i>₫ ^wič</i> -, N <u></u> <i>²ič</i> - 'rotten'
\$	* <i>x</i>	x	ķ	M <u>x</u> ači', N <u>h</u> ači' 'deep down'
;	* <i>x</i> ^w	x^{w}	<u></u>	M ?i?ir <u>x</u> ^w a, N ?ir <u>h</u> 'big' ³⁵

The other three differences have to do with historical changes in the original sonorant system. These have interconnected results, so it is convenient to describe them together. These changes are as follows:

- 1. The PSW nasals have shifted to voiced stops in Makah, which accounts for the rarity of /m/ and /n/ in the language.
- The PSW glottalized sonorants have merged with the plain sonorants in Makah. Loss of glottalization has been accompanied by compensatory lengthening of preceding vowels (Jacobsen 1968).
- 3. PSW */*l*/ has merged with n/ in Nuuchahnulth, but remains in Makah as l/l.

These changes produce the correspondences shown in (127). I have chosen examples with original word-medial glottalized sonorants to make the effects of compensatory lengthening in the Makah forms more apparent.

(127)	<u>PSW</u>	<u>N</u>	<u>M</u>	
	* <i>m</i>	т	b	N <u>m</u> a-, M <u>b</u> a- 'dwelling'
	* <i>ṁ</i>	m	b (+ length)	N h <u>um</u> 'a'q, M h <u>u'b</u> a'q 'wild rhubarb'
	*n	п	d	N <u>n</u> u <u>n</u> u·k, M <u>d</u> u <u>d</u> u·k 'singing'
	*'n	ň	d (+ length)	N č <u>uň</u> a, M č <u>u d</u> a 'vulva'
	*ý	ý	y (+ length)	N 2 <u>uỷ</u> i, M <u>quy</u> a 'medicine'
	*ŵ	ŵ	w (+ length)	N c <u>u</u> wit, M c <u>u w</u> it 'silver salmon'
	*[n	l	N <u>n</u> ak ^w -, M <u>l</u> ak ^w - 'tongue extended'

These changes influence the outcome of several phonological alternations in Makah, which we will see as the discussion progresses (§3.4.2).

The change of nasals to stops is uncommon cross-linguistically, but has occurred in other languages of the Northwest Coast region, both related and unrelated, viz. Ditidaht (Southern Wa-

kashan), Quileute (Chimakuan), Lushootseed (Salish), and Twana (Salish) (Thompson & Kinkade 1990).

Makah vowels are shown in Table 9. Pronunciation details are similar to those given in §2.2 for Nuuchahnulth except that, as pronounced by most speakers, the Makah high back vowels are closer to cardinal value, the long mid back vowel is tense rather than lax, the short central vowel is $[\Lambda]$ rather than [a], and the long mid front vowel is $[\mathfrak{X}:]$ rather than [e:].

	Front	Central	Back
High	i i'		u u'
Mid	e e'		0 0'
Low		a a'	

Table 9. Makah vowel inventory

Short vowels frequently have tense allophones. More research is required before definitive statements can be made, but at this point it seems fairly certain that the short high vowels and sometimes /a/ have tense allophones before sonorants, e.g.

(128)	<i>h<u>i</u>yu</i> [,] [h <u>i</u> yu:]	'stop, finish'
	<i>ṫiq<u>u</u>wi</i> ł [ṫɪq <u>u</u> wɪɬ]	'sitting room'
	? <u>a</u> yisaquk [? <u>a</u> yısʌquk ^{wh}] ³⁶	'tricky, mischievous'

The short high back vowel also seems to have a tense allophone before labial stops, e.g. *tupksarp* 'blacken sth' [tup^hk^hsa:p^h].

We noted in §2.2 that the mid vowels in the Nuuchahnulth inventory given by Sapir & Swadesh (1939) (see Table 3) were phonemically marginal. The same applies to Makah: they frequently arise by secondary processes, but belong in the inventory because they appear in several words where they cannot be accounted for by rule, e.g. *?ed* discourse particle, ko?ut- 'further away, a little ways', kolo?o' 'wild currant'.

Southern Wakashan languages have no underlying diphthongs. On the surface, however, there are environments in Makah in which they appear (§3.4.3).

3.4.2 Glottalization and lenition

Jacobsen (1996) describes glottalization in Makah. The facts, summarized in Table 10, are similar to those described for Nuuchahnulth in §§3.3.2: stops are glottalized and most fricatives are changed to glides. Makah, however, shows some distinct developments. First, the change of fricatives to glides is accompanied by lengthening of immediately preceding vowels. For example, the final /s/ of wiģis 'dirty' in (129) is changed to /y/ by the glottalizing suffix - ' $ak\lambda i$ 'at the end, rear'. The /i/ preceding the new glide is lengthened to /i⁻/. (The loss of the final vowel of the suffix is explained in §3.4.3.)

(129) wiģi yak wiģis- 'ak dirty-at.end 'dirty end'

Preceding length is indicated in Table 10 by '?' before the resulting sonorant. This concomitant lengthening is the result of the historical loss of glottalized sonorants and accompanying compensatory lengthening of preceding vowels mentioned in §3.4.1.

Second, a small group of bound roots with final /p/ or /t/ have this segment voiced rather than glottalized when followed by a glottalizing suffix, e.g. when followed by /s/, the final segment of kaT- 'kneel' surfaces as /t/ (130)a, but when followed by a glottalizing suffix, the segment becomes /d/ (130)b:

(130) a. $kat \check{s} i \lambda$ $kaT - \check{s} i \lambda$ kneel-PERF 'kneel'

Table 10.	Effects of	of glottalizin	g suffixes	in Makah	
10010 100					

$p \rightarrow$	ṗ	$xabup$ - 'know (a person)' + - 'ida 'treated as ' $\rightarrow xabupid$ 'famous'
$P \rightarrow$:b	λaP - 'two-pronged object clamped on' + ' $i\lambda$ 'get (perf.) $\rightarrow \lambda a'bi\lambda$ 'pick up with tongs'
$t \rightarrow$	ť	$k^{w}idi't$ - 'Quileute' + - 'aqsup 'woman of' $\rightarrow k^{w}idi'taqsup$ 'Quileute woman'
$T \rightarrow$:d	$\vec{k}^{w}iT$ - 'stuck on' + - ' $aq\lambda$ 'inside' $\rightarrow \vec{k}^{w}i'daq\lambda$ 'sth stuck inside '
$c \rightarrow$	ċ	<i>pic-</i> 'cedar bark' + - 'up formative suffix $\rightarrow picup$ '(inner) cedar bark'
$\hat{\lambda} \rightarrow$	Ĺ	$ba\lambda$ - 'tied up, fastened' + - 'as 'on the ground' $\rightarrow ba\lambda as$ '(door) locked'
$\check{c} \rightarrow$	č	$\check{s}u\check{c}$ - 'tree' + - 'as formative suffix $\rightarrow \check{s}u\check{c}as$ 'tree'
$k \rightarrow$	k	<i>wik-</i> 'not' + - ' <i>ič</i> 'clothed in' \rightarrow <i>wikič</i> 'undressed, not wearing'
$k^w \rightarrow$	<i>k</i> ^w	bak^{w} - 'buy' + - 'as 'go to ' $\rightarrow bak^{w}as$ 'go to buy'
$q \rightarrow$	ġ	siq - 'suppurating' + - ' $aq\lambda$ 'inside' $\rightarrow si\dot{q}aq\lambda$ 'pimple, abscess'
$q^{\scriptscriptstyle W} \to$	$\dot{q}^{\scriptscriptstyle W}$	$\dot{p}uq$ - 'feather' + - ' $aq\lambda$ 'inside' $\rightarrow \dot{p}u\dot{q}^{w}aq\lambda$ 'feather mattress'
$s \rightarrow$	ľУ	$\dot{p}us$ - 'tired' + - 'atu 'stoping' $\rightarrow \dot{p}uyat$ 'rest after work'
$i \rightarrow$	ľy	<i>wart-</i> 'say' + - ' $aq\lambda$ 'inside' $\rightarrow waryaq\lambda$ 'think (said of a man)'
$d^w \rightarrow$:w	$-ut^{w}$ ' place' + - 'as $\rightarrow -u$ 'was ' place on the ground'
$\ell/l \rightarrow$:l	bat/l - 'cold' + - 'axs 'in a vessel' $\rightarrow ba$ 'laxs 'cold water'
$\check{S} \rightarrow$	ľy	$\dot{t}a\dot{s}$ - 'door, trail' + - 'as 'on the ground' $\rightarrow \dot{t}a$ 'yas 'road, trail'
$x \rightarrow$:w	$\check{c}a'yax$ 'pick berries' + - 'e:?is 'go to' $\rightarrow \check{c}a'ya'we'?is$ 'go to pick berries' ³⁷
$x \rightarrow$	x?	$\check{c}a'yax$ 'pick berries' + - 'e:?is 'go to' $\rightarrow \check{c}a'yax$?e'?is 'go to pick berries'
$x^{w} \rightarrow$:w	kax^{w} - 'fall' + - 'aqatu 'move down (perf.)' $\rightarrow ka^{w}aqat$ 'fall down off'
$\dot{x} \rightarrow$	<u>x</u> ?	$\dot{\lambda}ix$ - 'red' + - 'aq λ 'inside' $\rightarrow \dot{\lambda}ixi$ ' ?aq λ 'red inside'; plus epenthesis, §3.4.3
$x^{w} \rightarrow$	IW	$2ix^{w}$ 'big' + - 'abit [R] 'at the ears' $\rightarrow 2ix^{w}abit$ 'donkey'

b. *ka'das kaT-'as* kneel-on.ground 'kneeling on the ground'

Note also the concomitant lengthening of the preceding vowel. Preceding a vowel, the segment appears as /p/ or /t/.

(131) $\vec{k}^{w}itar$ $\vec{k}^{w}iT-(y)ar$ stuck.on-CONT 'stuck on'

Following Jacobsen (1996), such segments are marked by the diacritic 'P' or 'T', e.g. kaT-'kneel', $\dot{c}iP$ - 'plug, jam in'. Most of these roots are cognate with Nuuchahnulth roots with final nasals (§3.3.5). Similarly, a few roots ending in /t/ change this to /l/ with concomitant lengthening of the preceding vowel before glottalizing suffixes: bat/l- 'cold' + -'axs 'in a vessel' > ba·laxs'cold water'.³⁸ These changes also occur before leniting suffixes, but without lengthening.

Glottalizing clitics in Makah have almost identical effects to glottalizing clitics in Nuuchahnulth (§3.3.2) except that no glottal stop is inserted following fricatives:

a. $da 2u'qsa\lambda$ $da 2u'-qs = 'a\lambda$ accompany-in.vessel=TEMP

'going along with sb in a vessel'

NUUCHAHNULTH b. $na?u'qs?a\lambda$ $na?u'-qs = 'a\lambda$ accompany-in.vessel=TEMP id.

Appearance of a glottal stop from a glottalizing clitic following a fricative in this context thus indicates that a vowel is present underlyingly that has deleted due to syncope (§3.4.3). For example, the word $da_{2u}q_{s}a\lambda$ 'accompany in a vessel' in (133) adds the perfective aspect suffix $-i\lambda$

to (132)a. The final $/\lambda$ of the perfective suffix deletes as described in §3.3.7 leaving a /i?a sequence that undergoes syncope.

(133) MAKAH $da?u'qs?a\lambda$ $da?u'-qs-i\lambda = 'a\lambda$

accompany–in.vessel–PERF=TEMP 'go along sb in a vessel'

The effects of leniting suffixes are laid out in Table 11. Examples are mostly from Jacobsen (1996). In addition to the three leniting suffixes found in Nuuchahnulth (-'*it*' in the house', -'*is* 'on the beach', -'*ači* λ perfective inceptive aspect), Makah has a fourth leniting suffix, the suffix -'u, a formative suffix that appears with two noun roots referring to kinds of berries, *cikyeš*-, *cikyeyu* 'elderberries'; *qakwaš*-, *qakweyu* 'salmonberries'.³⁹

Table 11. Effects of leniting suffixes in Makah

 $\dot{c}us$ - 'dig' + - 'is $\rightarrow \dot{c}uy$ is 'hole dug on the beach' S $\rightarrow v$ \rightarrow y -bat- 'moving about' + - 'it \rightarrow -beyit < -bayit 'moving about in the house' ł $\rightarrow w -ut^{w}$... place' + 'is $\rightarrow -uwis$ 'place on the beach' $t/l \rightarrow l \quad bit/l$ - 'even, level' + 'is $\rightarrow bilis$ 'flat, level beach' \rightarrow y qakwaš- 'salmonberries' + - 'u \rightarrow qakwey 'salmonberries' š $\rightarrow w cax^{w}$ - 'round' + - 'is $\rightarrow caw$ is 'Round-on-Beach' (place name)⁴⁰ x^w $\rightarrow w$ $2i^{*}x^{*}$ - 'big' + - 'ači $\lambda \rightarrow 2i^{*}wači\lambda$ 'to get big' x^{w} $\rightarrow b$?*aP*- locative root + - '*it* \rightarrow ?*abit* 'right in the middle indoors' Р $T \rightarrow t kaT$ - 'kneel' + - 'it $\rightarrow kadit$ 'kneeling on the floor'

Makah has also developed "mutating" clitics, which include the article = iq, the diminutive clitic = $i\check{s}\check{c}$, and the second and third person Indicative mood clitics, e.g. = i third person singular Indicative. Mutating clitics show either glottalizing or leniting effects depending on the preceding segment. They have no effect on preceding fricatives, but change /p/ and /t/ to /b/ and /d/

respectively, $/\lambda$ to /l, and glottalize other voiceless stops, except $/k^{w}$ and sometimes /k, which become /w/.

- (134) a. hukturbiqhukturp = iqbird=ART 'the bird'
 - b. $2i2ix^{w}ak^{4}2id$ $2i2ix^{w}a-(k)t^{2}it = i$ big-very=INDIC.3sg

'It is very big.'

c. $ba\check{c}il$ $ba-\check{c}i\hat{\lambda} = i$ close.teeth-PERF=INDIC.3sg

'He/she/it bit him/her/it.'

d. *λ̃upačiq λ̃upač*= iq root=ART

'the root'

e. $k^{w}a?awic$ $k^{w}a?ak^{w} = ic$ small=INDIC.2sg

'You (sg.) are small.'

After vowels, a glottal stop is inserted. A preceding short vowel is generally lost (135)b (§3.4.3):

- (135) a. kupa'?kup-(y)a' = ipoint-CONT=INDIC.3sg 'He/she is pointing.'
 - b. ča·bať?iq
 ča·baťa = °iq
 chief=ART
 'the chief'

3.4.3 Vowel insertion and loss

The most striking phonological differences between Makah and Nuuchahnulth have to do with the patterns of vowel insertion and loss in Makah described by Jacobsen (1971). Very briefly, these are as follows.

Epenthesis

Makah has a phonotactic constraint against a voiced or glottalized consonant (including glottal stop) in the the onset of the second syllable when the coda of the first syllable is filled. An impermissable cluster that arises during derivation is broken up by the insertion of a long copy of the first syllable vowel between the coda consonant of the first syllable and the following onset consonant, which is the voiced or glottalized segment, of the second syllable:

- (136) a. *ċaqa·bis ċaq-a·-bis* bark-EPEN-collectivity.of 'tree bark'
 - b. *qiti'dit qit-i'-dit* bass-EPEN-stocked.with

'Bass-Stocked (place name)'

- c. *ċusu'yak ċus-u'-yak*^w dig-EPEN-thing.for 'shovel'
- d. Xixi'citqak
 Xix-i'-citq-ak^w
 red-EPEN-colored-DUR
 'reddish colored'

Epenthesis can separate the consonants of a morpheme, as in (137)a, where the glottalization of the final consonant of $\dot{q}i\lambda\dot{c}$ - 'dog' by -'axs 'in a vessel' creates the banned cluster $/\lambda\dot{c}/$, or (137)b-c, where the initial clusters of the suffixes -(k)s?ati?i: [L] 'at the door' and -(k)stat 're-

ciprocally' are broken up when the suffixes attach to a monosyllabic base. The '<x>' notation indicates that the epenthetic vowel separates the consonants of a morpheme.

(137) a. $\dot{q}i\lambda i \dot{c}axs$ $\dot{q}i\lambda \dot{c} - \langle i' \rangle - \dot{a}xs$ dog-<EPEN>-in.vessel

'a dog in a vessel'

b. *ċa'sqsa'?ati?i ċa'sq-<a'>-(k)s?ati?i:* [L] knock-<EPEN>-at.door

'knocking at the door'

c. cuqsurtat
 cuq-<u'>-(k)stat
 punch-<EPEN>-reciprocally
 'punching each other, boxing'

In (138), the suffix $-a\dot{t}\dot{c}a$ 'at, on a vertical surface' attaches to the root hi-, and the resulting /ia/ sequence reduces to /i'/ as described for Nuuchahnulth in §3.2.3: hi- $a\dot{t}\dot{c}a > hi$ ' $\dot{t}\dot{c}a$. This leaves the impermissable $/\dot{t}\dot{c}/$ cluster, which is then broken up by epenthesis: hi' $\dot{t}\dot{c}a > hi\dot{t}i$ ' $\dot{c}a$. (The final vowel is in turn lost by apocope. See below. The shortening of the initial vowel appears to be a more or less regular concomitant of epenthesis and may be related to the initial shortening that accompanies appended vowels, §3.4.4).

 (138) hiti'c hi-atca face.located-at.vertical.surface
 'have one's face against the wall'

Clusters with final voiced or glottalized segments are permitted later in the word:

- (139) a. *Xirdaqbis Xirdaq-bis* fog-collectivity.of
 'fog'
 - b. wiģisċitqak wiģis-ċitq-ak^w dirty-colored-DUR

'dirty colored'

 c. hidałć hida-ałća empty.root-at.vertical.surface 'on the wall'

As will be seen below, banned clusters with final glottal stop (e.g. *wik2ot* 'not see, perceive') can emerge on the surface due to the operation of a later syncope rule.

Apocope

Word-final short vowels are lost under most conditions. [RepR] in (140)b indicates reduplication

occurring as part of repetitive aspect formation (§6.5.4):

- (140) a. *ha?ub ha?uba* food 'food'
 - b. q^wi^vq^wi^vdiččaq q^widičča-q-(y)a [RepR] Makah-BFR-REP

'speaking Makah'

- c. či[,] ?aq́at
 či[,] 'aq́atu
 pull–move.down.PERF
 'pull sth down'
- d. $ba\check{c}i\hat{\lambda}'$ $ba-\check{c}i\hat{\lambda} = i'$ close.teeth-PERF=IMPER.2sg 'Bite him/her/it!'
- e. $\dot{c}a'?u'q''it$ $\dot{c}a'?u'q''it='i$ drunk=INDIC.3sg

'He/she is drunk.'

A related rule concerns the length of long vowels in word-final position. Regular long vowels are shortened and optionally lost (141)a; persistently long vowels are merely shortened (141)b:

- (141) a. *hitaċu* or *hitaċ hita-ċu'* empty.root-in.container 'in a container'
 - b. *Xicux^wadi Xicux^wadi:* person
 'person, Indian'

This shortening is only quantitative, that is, the basic tense quality of the vowel is unchanged. For example, a long $/i^{\prime}$ shortened in final position is always pronounced [i], never [1]. In very careful citation speech, shortening is sometimes hardly evident. It is not clear whether accented vowels shorten.⁴¹ Pending further research, words like *quiv* 'slave' will be written with long vowels.

Makah has no underlying diphthongs. Due to apocope, however, they can arise on the surface. The loss of a short vowel from a word-final vowel-glide-vowel sequence (e.g. /... awa#/) leaves a diphthong. Vowel-loss after /y/ leaves a diphthong with a [^y] offglide; vowel-loss after /w/ leaves a diphthong with a [^w] offglide. The following examples show long and short /a/ before /y/ and /w/.

- (142) a. *cikyey* [tsɪk^hye^y] *cikyeyu* elderberry 'elderberry'
 - b. takya'y [tAk^hya:^y] takya'yu elder.brother.of.male
 'elder brother or senior-line male cousin of a male'
 - c. *qataw* [q_Ata^w]
 qatawa beaver
 'beaver'
 - d. *darłarw* [da:ła:^w]⁴² *darłarwi* awesome.sight

'(a) strange, awesome sight'

<u>Syncope</u>

V?V sequences in which both vowels are short are often subject to syncope: $V_1?V_2 \rightarrow ?V_2$. The rules for syncope are complex and not yet fully understood, but the following words give some idea of their effects. See Jacobsen (1971: 15-17) for further discussion and examples.⁴³ Example (143)b shows that syncope must operate after vowel shortening (§3.1) because otherwise this vowel would surface long, being in the second syllable.

- (143) a. *xa*·*b*?*ak xa*·*ba*-?*ak*^w stay.overnight-DUR 'staying overnight'
 - b. *baq?iks baqi-`i`ks* what-consume 'consuming what?'

Assimilation or partial assimilation sometimes takes place whereby the second vowel takes on features of the first vowel before the first vowel deletes. (The final /p/ of the benefactive clitic in (144)c is lost before glottalizing clitics, which creates the V?V sequence in this word).

(144) a. $\check{c}a\check{c}?es$ [R]- $\check{c}a-is$ PL-water-on.beach

'puddles of water here and there on the beach'

- b. wik?oł
 wik-u?ał
 not-perceive.PERF
 'not perceive'
- c. $suk^{wi\lambda} 2us$ $su-k^{wi\lambda} = up = 'is$ hold-perf=ben=imper.2sg/1sg

'Get it for me!'

Syncope is another source for surface diphthongs. The application of this rule to a sequence like /...*eyu?i*/ leaves a glide in the syllable coda: /...*ey*\$*?i*/. Vowel-glide sequences in this circumstance are diphthongized, e.g.

(145) darłarw?iq [da:ła:^w?iq^h] darłarwi = [°]iq awesome.sight=ART 'the awesome sight'

3.4.4 Appended vowels

Makah has converted many historically consonant-final monosyllabic free forms into vowel-final bisyllabic forms by means of an "appended" vowel, a long copy of the first syllable vowel appended to the root to create a second syllable. This effect of this historical process can be seen in comparison with cognate roots in Nuuchahnulth, which has not developed these vowels.

(146)	<u>N</u>	<u>M</u>	
	čit	čiti	'soft, easily torn'
	2i·k ^w	<i>ģiki</i> '	'pair of brothers'
	?ič	?iči [,]	'fat (shellfish)'
	<i>k</i> ^w irs	<i>k^wisi</i>	'snow'
	λuł	λułu'	'good, clean'
	х́ас	えаca [,]	'fat'
	λ́aḥ	Ҳ҄аҳа [,]	'not crying'
	λ́uq	<i>хื้иqu</i>	'wide, broad'
	mars	basar	'bake (intr.) on open fire'
	nu [,] k	duku	'song'
	qat	qata	'hard, brittle'
	qu'ł	quŧu	'slave'

ta'ł	tała'	'warm (in time of cold)'
ti·č	tiči	'alive, well'
2u <u>ḥ</u>	?uxu'	deictic pronoun
wik	wiki	'not, nothing'
yaq ^w	yaqa'	'one who, that which'

As several of the forms show (e.g. N $\vec{k}^w i si$, M $\vec{k}^w i si$, or N tart, M tatar), original long vowels in the first syllable shorten in Makah as part of this process.⁴⁴

For evidence against the alternative analysis that the appended vowel has been dropped in Nuuchahnulth rather than added in Makah we can look to Kwakwala cognates, which agree with the short Nuuchahnulth forms rather than the appended Makah forms. (Recall from §3.3.9 that Proto-Wakashan */k/ corresponds to Southern Wakashan $/\tilde{c}$ /):

(147)	<u>Kw</u>		<u>N</u>	<u>M</u>	M	
	?ik	'good'	<i>?ič</i>	?iči '	'fat (shell fish)'45	
	Χ́əỵ	'stop crying'	Х́а <u>ḥ</u>	х́аха'	'not crying'	

A few roots exceptionally lack the appended vowel, 2aq 'wide', k^wat 'branch'. It is also absent from monosyllabic discourse particles and interjections like 2ed emphatic particle, 2iš 'and', we'd 'hey! (calling for attention)'.

The appended vowel is present before most clitics (148)a-b, but not before = $a\lambda$ temporal specifier, = i Imperative, and perhaps other glottalizing clitics (148)c-d.

148)	a.	wiki's wik—i' = s not—APPEN=INDIC.1sg	<i>ča bo</i> ča bo rich	
		'I'm not rich.'		
	b.	wiki bits wik-i $= (b)it = s$ not-APPEN=PAST=INDIC	C.1sg	<i>ča bať</i> <i>ča baťa</i> rich
		'I wasn't rich.'		

(

c. $wika\lambda s$ ča bať $wik = 'a\lambda = s$ ča baťa not=TEMP=INDIC.1sg rich 'I'm not rich now.' d. wik waha k wik = 'i waha k not=IMPER.2sg go.PERF

'Don't go!'

So far we have seen appended vowels only in connection with free roots. However, we also find them added to some underlyingly monosyllabic derivatives. Comparison with Nuuchahnulth is again revealing:

(149)		N	<u>M</u>
	a.	ča·qλ ča–'aqλ water–inside 'water inside'	čaqλa· ča–'aqλ–a· water–inside–APPEN 'blister'
		water inside	Ulister
	b.	?u [,] kš ?u–kš [L] so.and.so–ask.for	?uču' ?u–č [L]–u' so.and.so–ask.for–APPEN
		'ask for it'	id.
	c.	<i>?u[*]c</i> <i>?u–i:c</i> so.and.so–belong.to	<i>Pucu</i> <i>Pu-i:c-u</i> so.and.so-belong.to-APPEN
		'belong to it'	id.
	d.	<i>Puqs</i> <i>Pu-qs</i> so.and.so-in.vessel	<i>Puqsu'</i> <i>Pu-qs-u'</i> so.and.so-in.vessel-APPEN
		'it (is) in a vessel'	id.

In each case an underlyingly monosyllabic Makah derivative has been rendered bisyllabic by the addition of an appended vowel. The productivity of this process requires further research because we find other potential monosyllables (e.g. 2u- + -*i:ks* 'carrying, bringing along ...') that are avoided instead by insertion of a glottal stop: 2u2uks 'bringing it' (with assimilation of underlying /*i*'/ to /*u*'/). The corresponding derivative in Nuuchahnulth is 2ucs.

4 Grammatical Sketch

This chapter provides an overview of Southern Wakashan morphology and syntax. For the most part I make no attempt to justify individual points of analysis here; cross-references are given to more detailed discussion in later chapters where appropriate.

4.1 Word classes

Makah and Nuuchahnulth have at least the following word classes. (Note that "word class" in this dissertation refers to distributionally-defined classes of unextended words, §4.2.1).

<u>Nominals</u> Nouns Numerals, quantities, and quantifiers Pronouns and demonstratives

<u>Verbs</u>

Predicate modifiers

The division between the major classes of nominal and verb rests on the syntactic fact (first pointed out by Jacobsen 1979a) that nominals may occur as single-word referring phrases (RPs), the Nootkan equivalent of a noun phrase, while verbs may do so only when accompanied by the enclitic article M = iq, N = 2i' (§4.5, §7.2.21). In Makah, the classes are further distinguished by the fact that only nominals may occur with possessive enclitics like = sis first singular possessive 'my' (cf. Jacobsen 1979a: 140). The various nominal subclasses are distinguished from each other by morphological and syntactic criteria laid out in Chapter 8. Unlike words of the other classes, predicate modifiers may not function as predicate heads (§4.3.4).

As will be evident throughout the present chapter, the degree of grammatical differentiation among word classes is quite low. Consequently, researchers have debated whether Southern Wakashan languages should be analyzed as having nouns, verbs, and other word classes at all. Most (e.g. Swadesh 1933, 1939, Sapir & Swadesh 1939, Renker 1987, Nakayama 1997a) have argued that they should not be, while others (e.g. Jacobsen 1979a, Rose 1981) disagree. In this dissertation I accept the claim that the distributional differences one finds do justify word classes in Southern Wakashan. See §8.1 for discussion.

I reserve word-class terms like *noun* and *verb* for words, but the Southern Wakashan lexicon also contains many bound roots that cannot function as a word without affixation by a lexical suffix or aspectual formative. Bound roots are provisionally referred to as "bound verb roots" or "bound noun roots" (though the vast majority seem to be verb roots) based on morphosemantic parallelisms with free roots of the relevant class (§8.1).

4.2 Morphology

Makah and Nuuchahnulth are polysynthetic languages making extensive use of suffixation, including enclisis. Reduplicative prefixation, used to form plurals and express aspectual distinctions, is also important. These are the only morphological techniques, apart from a few plural infixes and some aspectually significant changes in vowel length. Reduplication and changes in vowel length are also used to create special base forms required by some affixes (§3.3.1). There is no prefixation (apart from reduplicative prefixes), compounding, or noun incorporation.⁴⁶

4.2.1 Word structure

A full word (as opposed to a particle) has the structure shown in Figure 1. The structure is simplified for expository purposes; a slightly more complex description is given in Chapter 5. All full words (e.g. nouns, verbs, etc.) have the same structure.

An unextended word is formed by a base plus zero, one, or more "lexical" suffixes (derivational suffixes with relatively concrete meanings) and zero, one, or more aspectual morphemes.
base	e lexical suffixes aspect		clitics	
	cinics			

Figure 1. Word structure (simplified)

The unextended word in (150), the verb M, N *we?ič* 'sleeping', contains no lexical suffixes or aspectual morphemes — it is a bare root.

(150) we?ič we?ič sleep 'sleeping'

In (151)a, the Makah verb is composed of *we?ič*, functioning as the base, plus a lexical suffix, the locative suffix -'*a*xs 'in a vessel'. The verb in (151)b is composed of the bound verb root *?ackat-* 'jump' as base plus -'*a*xs and the perfective aspect suffix $-i\lambda$.

 макан
 a. we?ičaxs we?ič-'axs sleep-in.vessel
 'sleeping in a canoe'

b. ?ackaťaxsiλ
 ?ackať-'axs-iλ
 jump-in.vessel-PERF
 'jump into a canoe'

The base can be a root as in (151) or an already derived base, making word structure recursive. For example, the verb from (151)a *we?ičaxs* 'sleeping in a canoe' is base to another lexical suffix, the verbalizing suffix *-u?at* 'perceive ... (perf.)' in (152).

(152) MAKAH we?ičaxs?oł we?ič-'axs-u?ał sleep-in.vessel-perceive.PERF 'see someone sleeping in a canoe' The recursive nature of word structure, as well as the distribution of semantic elements among the base and suffixes, are discussed in more detail in Chapter 5.

Not indicated in Figure 1 is the fact that words may also be marked as plural or distributive by reduplication, infixation, or some combination of the two. Such plural/distributive marking is grammatically optional and subject to many formal irregularities. See §5.5.4 for examples.

Depending on its syntactic role and position in a sentence, the morphological construct of base + lexical suffixes + aspect (called the "unextended" word by Swadesh 1933, 1939) can take additional formatives known variously as "incremental suffixes" (Swadesh 1933, Sapir & Swadesh 1939), "word suffixes" (Swadesh 1939), "inflectional suffixes" (Rose 1981), or "peripheral suffixes" (Nakayama 1997a) to form an "extended" word. Such formatives express clause-level grammatical categories like tense, mood, voice, and pronominal indexes.

Though all the aforementioned authors refer to these formatives as "suffixes" of one type or another, their status as such is actually rather ambivalent. They differ from lexical and aspect suffixes on a number of phonological, morphological, and semantic points (see Chapter 7 for a summary list). Some researchers (e.g. Klokeid 1976, 1978, Jacobsen 1979a: 151, note 31, Renker 1987) have suggested that these formatives in Ditidaht and Makah are actually clitics (an analysis that extends easily to Nuuchahnulth as well).⁴⁷ This idea appears to account for a number of their syntactic properties.

The unextended word carries the lexical (dictionary) meaning of the word, while the clitics specify values for grammatical categories associated with the word in its syntactic context. As Swadesh (1933: 11) puts it for Nuuchahnulth: "From the lexical point of view, the word is the unextended unit composed of stem plus derivational and aspect suffixes. From the syntactic point of view, the word is the total phonetic unity, sometimes identical with the lexical unit, sometimes more or less extended by [enclitic] elements." In (153), for example, Makah *we?ičal* 'he/she/it is

sleeping' is formed from the verb *we?ič* 'sleep' plus the temporal specifier clitic = ' $a\lambda$ glossed "TEMP" (explained in §4.3.2 below) and = '*i*, the third person singular Indicative mood clitic.

(153) MAKAH we?ičal $we?ič = 'a\lambda = `i$ sleep=TEMP=INDIC.3sg'He/she/it is sleeping.'

In general, words functioning as predicate heads in main clauses have the greatest potential for hosting clitics. The clitics occur in an ordered sequence of slots following their host (§7.5). First come clitics coding categories like the causative, passive-inverse, and tense. Next are mood and pronominal clitics indexing subjects and, in Makah, some non-subjects. As seen in (153), third person formatives in Makah have fused with mood clitics. In Nuuchahnulth, there is no marking for third person in most moods. Finally, a word may end with one or more clitics drawn from a small post-modal set that includes a morpheme expressing the plurality of a third person participant, a morpheme meaning 'again', and a habitual marker. See §4.3 for more on clitics and their place in the structure of the predicate.

4.2.2 Lexical suffixes

The 500 or so lexical suffixes can be divided into two main types (§5.3). The first type, nuclear suffixes (§5.4), includes nominalizing suffixes (154) and verbalizing suffixes (155):

(154) Examples of nominalizing suffixes

M -acis, N -acus 'surface, platform for ...'

M -i'ti?i:, N -i'ta '... -er'

M -(k)sac, N -(c)sac 'container, vessel for ...'

M -yak^w, N -ýak^w 'thing, instrument for ...'

(155) Examples of verbalizing suffixes

M -aba:cu, N -macuk 'talking about ...' M, N -kuk [R] 'resembling ...'

M - <i>ċis</i> , N - <i>ċus</i> [L] 'laughing at'	M, N - <i>pat</i> 'smelling like'
M - $da^{*}k^{w}$, N - $na^{*}k^{w}$ 'having'	M -subač, N -simč [L] 'do ritual for'
M -idux, N -na'h 'seeking'	M -u?ał, N -(y)u?ał 'perceive (perf.)'

The second type, restrictive suffixes (§5.5), consists mostly of suffixes indicating spatial disposition including path-orientation suffixes (156) and locative suffixes (157):

(156) Examples of path-orientation suffixes

M, N -(.?)at 'attached on'

M -a'yi^λ, N -ayi:?i^λ 'enter a building (perf.)'

M, N -*k^wis*-*t*- 'move away from (perf.)'

M -bał-, N -mał- 'moving about'

N -*nirq*- 'down a slope (perf.)'

(157) Examples of locative suffixes

M - 'axs, N - 'ahs 'in a vessel'

M, N -a'sċa 'on the roof'

N -inksťas 'at the back of the head'

M - adit, N - (w)int [L] 'on the neck'

M -(k)s?ati?iz, N -(c)s?atu [L] 'at the door'

At least since Sapir (1924) ellipses, i.e. the symbol "...", have been included in the glosses of nuclear suffixes to indicate the relation of the meaning of the suffix to that of the base, that is, where the meaning of the base "fits" in the meaning of the suffix. Ellipses are not used in glosses of restrictive suffixes because they have essentially additive relations with bases that are always semantically predictable. In this dissertation nuclear ellipses are used only with glosses in the body of the text and not in morpheme-by-morpheme glosses for reasons of economy.

4.2.3 Aspect

Southern Wakashan has a basic perfective/imperfective aspectual system, with the imperfective subdivided into a set of uniplex (steady-state or single action/event) categories and a set of multiplex categories specifying repetition or iterativity. Every predicate head has some aspectual value. Aspect is normally indicated by the final morpheme of the unextended word. In (158), for example, aspect is marked by the perfective aspect suffix M, N - $ši\lambda$:

(158) NUUCHAHNULTH $ciq\check{s}i\lambda ?a'q\lambda a\dot{h}$ $ciq-\check{s}i\lambda = ?a:q\lambda = (m)a' = a\dot{h}$ speak-PERF=INTENT=INDIC=1sg 'I shall speak.'

Aspect is either specified by an aspect suffix, as in (158) and (159)a-b, an aspectually significant CV-template (159)c, or else is inherent in the meaning of the final morpheme of the word. This can be the root itself (159)d or a lexical suffix (159)e.

(159) NUUCHAHNULTH a. Imperfective (stative) aspect indicated by durative aspect suffix qahakma $qah-ak^w = ma$ dead-DUR=INDIC

'He/she/it/they are dead.'

b. Imperfective (dynamic) aspect indicated by continuative aspect suffix $casa' 2a\lambda ma$ $cas-(y)a' = 'a\lambda = ma'$ chase-CONT=TEMP=INDIC

'He/she/it/they are chasing it.'

c. Imperfective (dynamic) aspect marked by continuative CV template $su'?a\lambda ma$ $su-[L] = 'a\lambda = ma'$ hold-CONT=TEMP=INDIC

'He/she/it/they are holding it.'

d. Imperfective aspect inherent in root we?ičma we?ič = ma' sleeping=INDIC

'He/she/it/they are sleeping.'

e. Imperfective aspect inherent in lexical suffix $\dot{c}i\dot{h}ati\cdot\dot{d}a\lambda ma$ $\dot{c}i\dot{h}at-(\check{c})id$ [L] = $\dot{a}\lambda = ma'$ arrow-make=TEMP=INDIC

'He/she/it/they are making arrows.'

The formal aspect categories in Southern Wakashan, i.e. non-inherent categories marked by

an aspect suffix or CV template, are as follows:

(160) Formal aspect categories

perfective (§6.4)

imperfective

(uniplex)

graduative (§6.5.1)

durative (§6.5.2)

continuative (§6.5.3)

(multiplex)

repetitive (§6.5.4)

iterative I & II (§6.5.5)

See Chapter 6 for discussion of the formal realizations and functions of the aspects.

The perfective suffix, which occurs in many allomorphs, has the widest distribution of any aspectual morpheme; it can occur with most roots (including nouns and other nominals, which then become verbs with typically inchoative meaning) and many lexical suffixes. The graduative occurs with perfective bases to imperfectize them. The durative and continuative aspects occur only with bound roots (§5.2.1) and a handful of lexical suffixes. Most free roots (§5.2.2) are inherently imperfective and thus need no additional imperfective marking.

Inherent aspectual values of roots and lexical suffixes seem limited to the following:

(161) Inherent aspectual values

Stative imperfective, e.g. noun M šučas, N sučas 'tree'

Dynamic imperfective, e.g. verbs M, N we?ič 'sleeping', M dudu'k, N nunu'k 'singing'

Perfective, e.g. M, N verb $waha'k^w$ 'go' in (162)

Predicate heads with no formal aspect marking and no aspectual meaning indicated in the morpheme-by-morpheme gloss may be assumed to be inherently imperfective. Inherent perfective meaning is indicated in the gloss, e.g. the verb M, N *waha*' k^{w} 'go (perf.)' is inherently perfective.

(162) NUUCHAHNULTH waha'ka λah waha'k" = 'a $\lambda = (m)a' = ah$ go.PERF=TEMP=INDIC=1sg 'I went.'

4.3 Structure of the predicate

The predicate is a complex consisting of an obligatory head, clitics coding clause-level categories like tense, mood, and pronominal indexes, and one or two optional predicate modifiers.

(163) MAKAH $dudu'k'''a\lambda itid$ yu'yu $dudu'k = 'a\lambda = (b)it = id$ yu'yu' sing=TEMP=PAST=INDIC.1pl for.a.while head and clitics predicate modifier 'We sang for a while.'

Words from most of the classes listed in §4.1 may function as predicate head. (See §4.4.3 for a classification of clause types according to the word classes of their predicate heads.)

4.3.1 Mood and pronominal marking

Southern Wakashan predicates may be mood-marked or "absolute," i.e. not marked for mood. In Makah, the first word in a mood-marked predicate hosts a clitic indicating mood. Indicative mood, the default mood for conversation, is marked by its own set of pronominal clitics. (For the moment we restrict our attention to predicates containing no predicate modifiers.)

(164) MAKAH $dudu'\dot{k}^{w}a\lambda s$ $dudu'k = 'a\lambda = s$ sing=TEMP=INDIC.1sg 'I am singing.'

Other moods are generally expressed by a mood clitic followed by a separate pronominal clitic. The Polar ('yes/no') Interrogative mood shown in (165), for example, is marked by the Polar Interrogative clitic $=(q)a\cdot k$ plus a set of pronominal clitics in which the first person singular subject form is =s:

- (165) MAKAH $dudu'\dot{k}^wa\lambda a'ks$ $dudu'k = 'a\lambda = (q)a;k = s$
 - sing=TEMP=POLAR=1sg

In non-Indicative moods, pronominal markers involving first and second persons are transparently structurally distinct from the mood clitics. For third person forms, although a more abstract analysis is theoretically possible in which the mood markers and pronominal formatives are sometimes distinct, formal complexities arise that make it more analytically convenient to assume fused mood-pronominal forms (§7.2.1).

(166) MAKAH $dudu'k^wa\lambda a$ $dudu'k = 'a\lambda = (q)a:$ sing=TEMP=POLAR.3sg 'Is he/she singing?'

Pronominal clitics (including the fused mood-pronominal combinations) in Makah index at least the subject and sometimes also one non-subject grammatical role. The non-subject role is often, but not necessarily, the object.

(167) MAKAH $da^{*}cs?a\lambda si^{*}cux$ $da^{*}csa = 'a\lambda = si:cux$ see=TEMP=INDIC.1sg/2sg 'I [SUBJ] see you (sg.) [OBJ].'

Example (168) contains the possessive clitic $= 2ak^w$, which here indicates that the grammatical subject is the possessor of the single argument of the intransitive predicate head (S) *du*^w*iqsu* 'father'; the possessed S argument is syntactically an oblique. The first person possessor in (168) is hence the subject and the second person participant, the S of *du*^w*iqsu* '(be) father', is oblique. Significantly, the same Indicative pronominal clitic is used as in the preceding first person singular transitive example (167).

(168) макан

du'wiqsa'ksi'cux du'wiqsu = ?ak^w = si:cux father=POSS=INDIC.1sg/2sg 'You [OBLIQUE] (sg.) are my [SUBJ] father.'

Eschewing the details, arguments can be given to show that (168) is, in fact, intransitive; that is, we are not dealing with a transitive construction like 'you (are) father (to) me'.

In Nuuchahnulth, the first word in a mood-marked predicate hosts a mood clitic followed directly by a pronominal clitic that expresses the person and number of the subject:

(169) NUUCHAHNULTH $nunu'\dot{k}^{w}a\lambda a\dot{h}$ $nunu'k = 'a\lambda = (m)a' = a\dot{h}$ sing=TEMP=INDIC=1sg 'I am singing.'

Third person, however, is unmarked by a pronominal clitic — the absence of a pronominal clitic indicates third person. In some cases the mood clitic shows slight formal peculiarities when not followed by a first or second person clitic that could be said to mark third person, but third person has no clitic of its own:

(170) NUUCHAHNULTH $nunu'k^wa\lambda ma$ $nunu'k = 'a\lambda = ma'$ sing=TEMP=INDIC 'He/she/it/they are singing.'

The Nuuchahnulth pronominal subject clitics fall into several sets of forms depending on the preceding mood clitic (§7.2.2), e.g. the Indicative mood clitic in (169) and (170) = $(m)a^{r}$ (or = ma^{r} with no following pronominal clitic) is followed by a set in which first person singular is indicated by = ah.

Unlike Makah, Nuuchahnulth does not mark non-subjects in the clitic sequence under most circumstances. However, first person non-subjects are marked in imperative moods (§7.2.20), and, very rarely, in the Indicative (§7.2.4).

Southern Wakashan mood clitics express a varied set of modal, evidential, and speech-act categories. Most of these are in paradigmatic opposition, but a few may co-occur to form mood combinations (§7.2.3). Mood clitics include the Indicative illustrated above for both languages, the Purposive M, N = 'a: 'in order that', interrogative moods used to form both yes/no and content questions, the Conditional M = qey(u), N = qu: 'if, when; would', the Nuuchahnulth Dubitative = $qa \cdot ča$ 'perhaps', and the Subordinate M = x, = qa:, N = qa', which forms *that*-clause complements of predicates of saying, thinking, etc. as well as causal ('because') clauses, and, in Makah, 'when' clauses (in conjunction with 2uyu 'when'). There are also several evidential moods in both languages, including the Quotative M = wa:t, = wa:da, N = we?in and inferential moods. The Makah Relative = (q)ik, =(q)i and Nuuchahnulth Definite Relative = 2i:tq and Indefinite Relative = (y)i: moods form relative clauses. See Chapter 7 for more on the form and function of these and other mood clitics.

Predicates without mood marking are often called "absolute" or "absolutive" in the Southern Wakashan descriptive literature (e.g. Sapir 1924: 82, note 1, Rose 1981: 213, Jacobsen 1979a, 1993). It is necessary to recognize two types of absolute predicates: subject-marked absolutes and non-subject-marked absolutes, which I henceforth refer to as "bare absolutes". Bare absolutes occur only as same-subject juxtaposed predicates in the common sentence-building construction described in §4.5, or as complements of certain complement-taking words (§4.6.2.1). Subject-marked absolutes typically occur in narrative contexts where the mood has been previously established in the discourse by a preceding mood-marked predicate.

Pronominal subjects in subject-marked absolute predicates are marked on the first word of the predicate by a set of pronominal clitics, which, in Makah, has no form indicating third person singular, and, in Nuuchahnulth, has no form indicating third person whatsoever. Bare absolute predicates (by definition) have no subject marking. This means that a third person subject-marked absolute is overtly indistinguishable from a bare absolute. For example, in the Makah sentences in (171), compare the third person singular subject-marked absolute in (171)a with the two predicates in (171)b, the first of which is the third person singular subject-marked absolute in (171)b, the first of which is the third person singular subject-marked absolute in the marked absolute matrix predicate $wika\lambda$ 'He/she/it did, were not', and the second, $ha?ukši\lambda$ 'eat', a bare absolute functioning as complement to $wika\lambda$.

- (171) макан
 - a. ha?ukš?aÂ ha?uk-ši = 'aÂ eat-PERF=TEMP 'He/she/it ate.'
 - b. $wi\dot{k}a\lambda$ [ha? $uk\dot{s}i\lambda$] $wik = 'a\lambda$ [ha? $uk-\dot{s}i\lambda$] not=TEMP [eat-PERF] **matrix complement** 'He/she/it didn't eat.'

The three predicates are superficially identical with respect to subject marking. However, it is easy enough to tell them apart as long as we keep in mind the structural difference between a zero form and nothing, that is, a form where a decision between paradigmatic options has resulted in a marker that happens to be zero versus a form in which no marking can ever occur. This distinction clearly emerges when the sentences are put in first person:

(172) MAKAH
a.
$$ha ?ukš?a\lambda si$$

 $ha?uk-ši\lambda = 'a\lambda = si:$
eat-PERF=TEMP=1sg
'I ate.'

b
$$wika\lambda si$$
 [ha?ukši λ]
 $wik = 'a\lambda = si$; [ha?uk-ši λ]
not=TEMP=1sg [eat-PERF]
'I didn't eat.'

c. *wikaħsi [ha?ukšiħsi']

The subject-marked absolute predicates in (172)a-b are now marked with the first person singular clitic = sit. The bare absolute complement to $wika\lambda si$ in (172)b remains without the subject clitic, and, as (172)c shows, the sentence becomes ungrammatical (with this meaning) if it is added. (172)c is a grammatical string, but only if it is interpreted as two successive subject-marked absolutes ('I didn't do it; I ate'), where the speaker asserts that he did eat, but didn't do something else. In this dissertation, predicates in constructed sentence examples are usually marked with Indicative mood (the unmarked mood for conversation), but examples cited from texts are frequently subject-marked absolutes. See, for example, (176)e-f, (178)b, (179)c etc. below. Presented with a subject-marked absolute out of context, Makah speakers typically "correct" it to a mood-marked predicate.

4.3.2 Tense

Sentences with no overt tense marking are, strictly speaking, non-future, that is, they are interpreted as having either past or present time reference, according to context. Non-tense-marked predicates in isolated elicitation sentences are invariably interpreted as having present time reference in Makah (unless they are perfective — see below), and I suspect in Nuuchahnulth also. In both languages, however, one frequently finds non-tense-marked predicates with past time reference in narrative discourse. Past and future tense clitics in the predicate indicate time reference relative to that already established in the discourse. For example, the past tense clitic M = (b)it, N = (m)it is a relative past marker in that it indicates time reference prior to the discourseestablished time reference rather than absolute past time reference.

(173) NUUCHAHNULTH $nunu'k''a\lambda itsi$ $nunu'k = 'a\lambda = (m)it = si'$ sing=TEMP=PAST=1sg 'I was, had been singing.'

It is worth pointing out here that tense and aspect are entirely distinct formal systems in Southern Wakashan. Tense is marked by clitics, while aspect is marked by suffixes, reduplication, or length changes in base vowels (§4.2.3). However, past temporal reference is strongly implied by perfective aspect, which is usually incompatible with present reference (§6.4). See, for example, the past tense translations of the sentences in (171) and (172).

The temporal specifier M, N = ' $a\lambda$ is another predicate clitic implicated in temporal reckoning. It precedes tense, mood and pronominal clitics in the clitic sequence. The temporal specifier is not a tense marker, but is used to indicate temporal sequencing of events and states. It is usually left untranslated, but can be rendered 'now, then, at that time' if necessary. The temporal specifier is grammatically optional, but is stylistically important and very frequent in discourse. See §7.3.3 for further information.

4.3.3 Other clitics

Thus far we have seen clitics expressing mood, pronominals, and tense. These belong to a larger set of clitics that may occur in the predicate. When more than one occurs on the same word in the predicate, they are strictly ordered. Although the order differs somewhat for the two languages, clitics in both may be divided into three groups based on their sequencing requirements: pre-modal clitics, mood and pronominal clitics, and post-modal clitics. Pre-modal clitics precede mood clitics. Among them we find the following (only a single allomorph of each is shown):

(174) Selected pre-modal clitics

Intentive Future: $N = 2a:q\lambda$ (§7.3.2) Causative: M, N = 'ap Temporal Specifier ('now, then, at that time'): M, N = 'a λ (§7.3.3) Passive-inverse: M = 'it, N = 'at (§4.4.2, §7.3.5) Possessive: M, N = uk (§7.3.4)

Tense: including past M = (b)it, N = (m)it and hypothetical future M = 'eyik, N = 'i:kCo-occurrence restrictions and relative ordering of these clitics are discussed at §7.5. Some of the clitics in (174) are briefly discussed elsewhere in this chapter, e.g. see §4.4.2 for the passiveinverse.

Post-modal clitics follow mood and pronominal clitics.

(175) Selected post-modal clitics

Third plural (optionally signals third person plural participant): M = at, N = 2at (§7.4.1)

Habitual: M = a:k, N = ?a:ta (§7.4.2)

'again': M = λ ?o, N = λ a: (§7.4.4)

4.3.4 Predicate modifiers

The basic predicate structure of head and clitics in the examples seen so far in this section may be expanded by the addition of one or two predicate modifiers. Predicate modifiers are a small closed-class of words like N $2ah2a^{\circ}$ 'then', M $2a^{\circ}di$, N $2a^{\circ}ni$ 'really, in fact', M $yu^{\circ}yu^{\circ}$, N $\check{c}a^{\circ}ni$ 'at first, for a while, temporarily', N $2i^{\circ}qhi^{\circ}$ 'still', M $hu^{\circ}2axi$ 'still, yet', M $ku^{\circ}wit$, N $ku\dot{w}ita$ 'doing as directed', N $wa^{\circ}\lambda$ 'now, then, thereupon', and M $yu^{\circ}q^{w}a^{\circ}$, N $\dot{y}u^{\circ}q^{w}a^{\circ}$ 'likewise'. A few words from other word classes can also play this syntactic role, e.g. M $2i^{\circ}i^{\circ}x^{w}a$, N $2i^{\circ}h^{w}$ 'big' also occurs as as a predicate modifier meaning 'really, very much, to a great extent'.

(176)MAKAH a. $dudu' \vec{k}^w a \lambda its$ $yu'q^wa$ $dudu'k = a\lambda = (b)it = s$ $yu'q^wa'$ sing=TEMP=PAST=INDIC.1sg likewise 'I was singing too.' b. *?iyax?i* hu'?ax ti' iyaxa = ihu'?axi ti' at=INDIC.3sg still DEM 'He/she/it is still here.' NUUCHAHNULTH c. $nunu k^w a \lambda ita h$ ýu'q^wa' $nunu^{k} = a\lambda = (m)it = (m)a^{k} = ah^{k}y^{u}q^{w}a^{k}$ sing=TEMP=PAST=INDIC=1sg likewise 'I was singing too.' d. *mučiču?a*ħma ?ah?a' $muciic-u\lambda = a\lambda = mar$?ah?a' clothed_PERF=TEMP=INDIC then 'Then they got dressed.' (based on NA 19.41) e. wikłała kuŵiła $wik - 2a\lambda = a\lambda$ kuŵiła not-make.X.sound.PERF=TEMP do.as.directed Feint.Woman 'Feint-Woman kept quiet as she was told.' (NA 404.39) f. ...*Xihaqši?a*X ?i'h $\hat{\lambda}$ *ihaq*- $\check{s}i\lambda = \hat{a}\lambda$?i'h^w thin-PERF=TEMP very

'She had gotten very thin.' (NT 190.28)

A predicate modifier can follow the predicate head, as in (176), or it can precede the head, in

yuchwiłim yuchwiłim

which case it hosts some or all of the clitics. (Post-head modifiers rarely host any clitics.)

(177)MAKAH dudu'k^waλ yu'q^wa'?atits a. $yu'q^wa' = a\lambda = (b)it = s$ $dudu'k = a\lambda$ likewise=TEMP=PAST=INDIC.1sg sing=TEMP 'I was singing too.' NUUCHAHNULTH nunu'k^waλ b. *yurq^war?a*λ*ita*h $\dot{y}u'q^wa' = \dot{a}\lambda = (m)it = (m)a' = ah$ nunu'k = $\dot{a}\lambda$ likewise=TEMP=PAST=INDIC=1sg sing=TEMP 'I was singing too.'

c.
$$2i \cdot h^2 a \lambda a h$$

 $2i \cdot h^w = 'a \lambda = (m)a^* = a h$
 $very = \text{TEMP} = \text{INDIC} = 1$ sg play.lehal = TEMP
'I was playing lehal (a gambling game) in a big way.' (NA 270.18)

Clitics differ in their propensity for attaching to the initial modifier, to the head, or to both in the situation illustrated in (177). We can distinguish three main groups: second-position clitics, head clitics, and flexibly-positioned clitics. Second-position clitics, which include the tense, mood, and pronominal clitics, tend to occur only on the first word of the predicate, whether it is the head or a modifier. Head clitics, which include the passive-inverse and possessive, tend to occur on the head. Flexibly-positioned clitics like the temporal specifier M, $N = 'a\lambda$ occur on either or on both. It is important to understand, however, that these patterns are tendencies rather than rigidly followed rules; speakers are allowed a considerable amount of choice in clitic placement.

Head clitics are frequently subject to second-position copying. That is, when the first word of the predicate is a modifier rather than the head, head clitics can occur only on the head (178)a, but are also commonly copied onto the predicate-initial modifier as well (178)b.

(178)	a. $?ah?a'?a\lambda ma$ $?ah?a' = 'a\lambda = ma'$ then=TEMP=INDIC		$\begin{aligned} & \frac{i}{a}ak^{w}in\check{c}i?a\hat{\lambda}at\\ & \frac{i}{a}ak^{w}in-\check{c}i\hat{\lambda}='a\hat{\lambda}='at\\ & \text{beg-PERF=TEMP=PINV} \end{aligned}$
		'He was begged.' (N	A 9.33)
	b.	$\begin{array}{l} ?a\underline{h}?a\cdot?a\dot{\lambda}at\\ ?a\underline{h}?a\cdot = `a\lambda = `at\\ \text{then=TEMP=PINV} \end{array}$	łałak ^w inči?aλ̂at łałak ^w in–čiλ = 'aλ = 'at beg–PERF=TEMP=PINV
		'They were begged.'	(NA 67.14-15)

They do not normally occur on the initial modifier without also occurring on the head.

The predicate can be doubly modified. The two modifiers may span the head, or both may precede it. There seems to be a grammatical restriction against both modifiers following the head. The sentences in (179) demonstrate doubly modified predicates. Clitic placement remains as previously described.

(179)	a.	MAKAH $yu'q^{w}a'?a\lambda its$ $dudu'k'^{w}a\lambda$?a'd $yu'q^{w}a' = 'a\lambda = (b)it = s$ $dudu'k = 'a\lambda$?a'di likewise=TEMP=PAST=INDIC.1sg sing=TEMP in.fact modifier head modifier 'I, in fact, was singing too.'
	b.	NUUCHAHNULTH $?ah?ar?a\lambda ah$ $ciq\check{s}i?a\lambda$ $\dot{y}u'q^{w}a'$ $?ah?a' = 'a\lambda = (m)a' = ah$ $ciq - \check{s}i\lambda = 'a\lambda$ $\dot{y}u'q^{w}a'$ then=TEMP=INDIC=1sg speak-PERF=TEMP likewise modifier head modifier 'I also spoke.' (NA 134.12)
	c.	$yu \cdot q^w a \cdot 2a\lambda$ $2atiq \check{s}i\lambda$ $2ah ?a'$ $yu \cdot q^w a' = `a\lambda$ $2atiq -\check{s}i\lambda$ $2ah ?a'$ likewise=TEMP express thanks-PERF then modifier head modifier 'He also expressed thanks.' (NA 154.7)
	d.	$?ah?a^{*}?a\lambda ah$ $\dot{y}u^{*}q^{w}a^{*}$ $ciq\check{s}i?a\lambda$ $?ah?a^{*}?a\lambda = (m)a^{*} = ah$ $\dot{y}u^{*}q^{w}a^{*}$ $ciq-\check{s}i\lambda = 'a\lambda$ then=TEMP=INDIC=1sglikewisespeak-PERF=TEMPmodifiermodifierhead'Then I too spoke.' (NA 133.33)

4.4 Basic clause structure

4.4.1 RP functions and constituent order

In addition to the predicate, a clause can (but need not) contain referring expressions that function as subjects and objects, or in oblique roles. Referring expressions are expressed syntactically as referring phrases (RPs) (§4.5). The predicate usually comes first in the clause followed by the core (i.e. subject and object) RPs in either order. There is no case-marking or other overt means of indicating which RP is subject, and which is object.

(180) MAKAH a. $suk^{w}2a\lambda$ $\dot{q}^{w}e'ti$ $k^{w}i\check{c}i'ye'\hat{i}q$ $su-k^{w}i\lambda = 'a\lambda$ $\dot{q}^{w}e'ti'$ $k^{w}i\check{c}i'ya:= \hat{i}q$ hold-PERF=TEMP Qweti land=ART 'Qweti took (away) the land.' (HW, Qweti and Wolf) b. $hi^{*}sk^{*}a^{*}ya^{*}2a\lambda s$ $pi\dot{c}up$ $hi^{*}s-k^{*}a^{*}ya^{*}p-[L] = 'a\lambda = s$ $pi\dot{c}up$ chop-in.pieces.CAUS.PERF-GRAD=TEMP=INDIC.1sg inner.cedar.bark

'I am pounding up cedar bark.'

C.		$ad?ak^{w} = iq$	ya'daqawiq ya'daqak ^w =°iq baby=ART
	a. 'The woman so b. 'The baby see	-	
d.	$da^{\cdot}cs?i$ $da^{\cdot}csa = i$ see=INDIC.3sg	<i>xad?awiq</i> <i>xad?ak^w=</i> woman=ART	
	a. 'The woman s b. 'He/she/it/ see		
e.	NUUCHAHNULTH $\hat{\lambda}i\check{c}i\hat{c}a\hat{\lambda}a\dot{h}$ $\hat{\lambda}i-\check{c}i\hat{\lambda}=\dot{a}\hat{\lambda}=$ shoot-PERF=TEMP	$(m)a^{r} = ah$	1 2
	'I shot at the wo	lf.'	
f.	$\hat{\lambda}i\check{c}i\hat{c}i\hat{a}\lambda ma$ $\hat{\lambda}i-\check{c}i\lambda=ia\lambda=i$ shoot–PERF=TEMP	<i>mar</i> $q^w a y$ =INDIC wolf=	ART
	'He/she/they sho	ot at the wolf.'	
g.	ňa'csa'λaḥ ňa'csa= 'aλ=(uwa uwa

see=TEMP=INDIC=1sg

'I see you (sg).'

Ambiguities in referent/role relations like those in (180)c-d are, of course, often mitigated by context, and are further reduced by the passive-inverse voice construction, which is an important means of reference tracking (§4.4.2). The object can also be placed in a separate clause with a bare absolute transitive predicate (i.e. 'the woman sees, doing it to the baby), which tends to clarify relations.

2sg

(181) макан

da'cs?ixad?awiq?ukti'pya'daqawiqda'csa=`ixad?ak''=`iq?u-(k)ti:pya'daqak''=`iqsee=INDIC.3sgwoman=ARTso.and.so-do.tobaby=ART'The woman sees the baby.''The woman sees the baby.''The woman sees the baby.'

We will see more examples of this strategy later in the chapter (§4.6.1.1). The sentences in

(182)a-c show a few more Nuuchahnulth examples of transitive predicates.

(182)

NUUCHAHNULTH

, a.	kaλḥsa ṗaλ kaλḥ–sa p = 'aλ visible–CAUS.PERF=TEMP		λu'xŵičit	<i>qawašsacuk?i</i> <i>qawaš–(c)sac=uk=?i</i> sberry–container=POSS=ART
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'Woodpecker's wife brought out her salmonberry dish.' (NT 50.9)

b.	su'?aħ	?ačma	ci'ci'qḥanim	
	$su-[L] = a\lambda$?ač–ma	ciq-hin [RL+L]=im	
hold-CONT=TEMP		wedge.up-thing	speak-at.end-thing	
	Snook Ende (ma	n'a noma) hald a	block $(NIA 260.51)$	

'Speak-Ends (man's name) held a block.' (NA 369.51)

c. $\dot{c}ax\dot{s}i?a\lambda\lambda a'$ $\dot{y}u'q''a'$ $\dot{k}''alsic$?i'htu'p?i $\dot{c}ax''-\dot{s}i\lambda = 'a\lambda = \lambda a$: $\dot{y}u'q''a'$ $\dot{k}''alsic$?i'h''-(\dot{s})tu'p = ?i' spear-PERF=TEMP=again likewise Kwalisits big-thing=ART 'And then, once more, Kwalisits too speared the whale.' (RW 79.8)

Southern Wakashan can be shown to follow an accusative alignment pattern: the single argument of an intransitive (S) predicate is treated grammatically like the agent-like argument of a transitive (A) predicate (cf. also Jacobsen 1993: 236). Given the relative paucity of marking of

syntactic relations, this is not immediately obvious, but, as demonstrated by Rose (1981) for

Nuuchahnulth and later emphasized by Emanatian (1986), a subject relation (grammatical union of S+A arguments) can be deduced from fairly subtle patterns of clausal co-reference we need not elaborate here. Similar arguments could be developed for Makah.

A core RP can be positioned before the predicate head under certain pragmatic circumstances. Fronting of RPs has no effect on placement of clitics — they remain on heads or predicate-initial modifiers as described in §4.3.4. Example (183) shows a pre-head subject: (183) NUUCHAHNULTH

у́и'q ^w a'?аλ	[ċiša'?atḥ?i	wi?ak]	suk ^w i?aħ	<i>2а</i> дуи [,] ?i		
$\dot{y}u'q^wa' = a\lambda$	[ċiša'?atḥ=?i'	wi?ak ^w]	$su-k^{w}i\lambda = a\lambda$	$2a\lambda - yu' = 2i'$		
likewise=TEMP	[Tseshaht=ART	warrior]	hold-perf=temp	twisted-having.been=ART		
subject object						
'A Tseshaht warrior likewise took hold of the (Maktliath) cedar line.' (NT 182.15)						

The subject RP 'a Tseshaht warrior' has been displaced from its typical post-predicate position and moved forward between the predicate-initial modifier and predicate head. The context for this example involves contrastive focus on the subject, which perhaps motivates the shift. A canoe load of Maktliath band warriors is struggling over a drift whale against a canoe load of Tseshaht warriors. Both canoes have attached cedar ropes to the whale and are pulling in opposite directions. The sentences immediately preceding this example read 'The Maktliath warrior Sound-of-Dropping took the line (of the Tseshaht). He cut it apart.' The subjects and objects in these sentences are in their usual position after the predicate . The tit-for-tat action reported by example (183) produces a contrastive focus reading: 'A *Tseshaht* warrior likewise took hold of the (Maktliath) line.'

Unlike core RPs, RPs functioning as oblique adverbial modifiers do not bear a grammatical relation to the predicate head. As described further in §4.4.3.1, it can be difficult to determine in some cases whether an RP is an object or an oblique, but differences in behavior do exist that distinguish the two (e.g. ability to passivize). Obliques most commonly occur after core RPs (184)g.

(184) макан

- a. waha'keyikid ?a'beyuliq waha'k^w= 'eyik=id ?a'beyu λ = 'iq go.PERF=FUT=INDIC.1pl tomorrow=ART 'We will go tomorrow.'
 - b. $2ada^{*}ksa^{*}qe^{*}2iss$ $q^{*}iso^{*}wasiq$ $2ada^{*}k^{*}-sa:q-2is=s$ $q^{*}is^{*}-ut^{*}as=2iq$ fire-CAUS.PERF-go.to=INDIC.1sg smoke-place.for-on.ground=ART

'I am going to make a fire in the smokehouse.' (HI)

NUUCHAHNULTH c. $\dot{w}a\dot{c}i\hat{r}a\hat{\lambda}$ $\hat{r}a\dot{h}\hat{r}a^{\prime}$ $\hat{r}at\dot{h}i\hat{r}\hat{r}i$ $\dot{w}a-\dot{c}i\hat{\lambda}=\hat{r}a\hat{\lambda}$ $\hat{r}a\dot{h}\hat{r}a^{\prime}$ $\hat{r}at\dot{h}i\hat{r}=\hat{r}i\hat{r}$ attack.as.group=TEMP then night=ART

'They attacked at night.' (NA 370.31-32)

d. ha?ukši?a\u03c4 ku?a\u03c4?i ha?uk-ši\u03c4 = 'a\u03c4 ku?a\u03c4 = ?i' eat-PERF=TEMP morning=ART

'He/she/it/they ate in the morning.'

e. $ha^{2}in\check{c}i^{2}a\hat{\lambda}a^{\prime}$ $ku^{2}a^{4}$ $ha^{2}in\check{c}i\hat{\lambda} = a\hat{\lambda} = \lambda a$: $ku^{2}a^{4}$ call.out–PERF=TEMP=again morning

'Again he called out in the morning.' (NT 120.26)

f. $2ink^w a \check{c} i 2a\lambda$ $mah \check{t} i ?i...$ $2ink^w - `a\check{c} i\lambda = `a\lambda$ $mah \check{t} i ?i...$ fire-INCEP=TEMP house=ART

'Fires were started in the house.' (NT 156.1)

g. ... $\dot{y}ak\dot{s}i\hat{r}a\lambda$ $\dot{y}ak-\dot{s}i\lambda = \dot{a}\lambda$ appear-PERF=TEMP chief=ART door=POSS=ART...

'The chief appeared at his door.' (NA 50.37)

- h. $\dots pu\dot{y}a\dot{r}pa\lambda qu$ $pu-\dot{y}a\dot{r}p = \dot{a}\lambda = qu$: run.enmass-CAUS.PERF=TEMP=COND pL-island=ART $LR]-\dot{c}a^{2}ak = 2i$
 - "... when he chased them (into the sea) from the islands' (NA 14.19)
- i. ...? $ah?ar?a\lambda$ timqši? $a\lambda$ tup'al?i? $ah?ar = 'a\lambda$ timq-ši $\lambda = 'a\lambda$ tup'al = ?irthen=TEMP wade=PERF=TEMP sea=ART

'Then they waded into the sea.' (NA 240.23-24)

Examples like (184)b,f-i with a locative oblique but no other locative elements in the sentence are uncommon. There must generally be some type of additional locative element in the sentence to support the locative RP. A simple strategy often resorted to in both languages is to include one or more restrictive path-orientation or locative suffixes on the predicate head, the reference of which the locative RP expands.

(185) макан а. *?acka*

?ackaťaxs?aħwa'd		čapaćiq
$?ackat-`axs-i\lambda = `a\lambda = wa:da$	₫ ^w e'ti'	čapac = °iq
jump-in.vessel-PERF=TEMP=QUOT.3sg	Qweti	canoe=ART

'Qweti jumped into the canoe.' (HW, Qweti and Wolf)

b. $2u^*\dot{x}u^*\dot{x}pi^*d$ $2u^*\dot{x}-u^*-(\dot{x})\dot{x}=pi^*t=\hat{i}$ someone-APPEN-while=INFER=INDIC.3sg sleep-in.house.PERF bed=POSS.1sg

'Someone slept in my bed.' (HI, Three Bears)

NUUCHAHNULTH c. $\dot{c}itkpi?a\lambda$?ink?i $\dot{c}itk-pi\lambda = `a\lambda$?ink^w = ?i lie.on.back-in.house.PERF=TEMP fire=ART

'He lay down on his back by the fire in the house' (RW 76.3)

d. $timqmalasu?is?a\lambda$ $\lambda aqmis$ hisa`wistath $timq-mal-asu.-`is=`a\lambda$ $\lambda aqmis$ hisa`wistathwade-move.about-in.liquid-on.beach=TEMP oil Hisawista

'The Hisawista (people) waded in oil.' (NA 163.38)

e.	ćiqsip̓aλ	ča?ak	λ̃imšsac?i	k ^w atya't
	$\dot{c}i-qs-ip=a\lambda$	ča?ak	$\hat{\lambda}$ imš–(c)sac = ?i'	k ^w atya't
	pour-in.vessel-CAUS.PERF=TEMP	water	boil-container.for=ART	Kwatyat
		object	locative oblique	subject
	'Kwatyat poured water into the boiling box.'			

In these sentences the locative oblique RPs add information about the locative specification given

by the locative suffixes on the predicate head, i.e.,

(185)a - 'axs-i λ ... čapačiq 'in(to) a vessel, the canoe'

- (185)b -pa^λ ... čabe'?itsis 'in the house (on) my bed'
- (185)c - $pi\lambda$... ?ink?ir 'in the house (by) the fire'

(185)d -małasu?is ... *haqmis* 'moving about in liquid (oil) on the beach'

(185)e -qs-ip ... λ imšsac?i 'in(to) a vessel, the boiling box' in (185)c

Another strategy is for the locative element itself to be the predicate head. The languages dif-

fer somewhat as to nature of this locative predicate. Makah has a transitive verb, *?iyaxa* '(be) at',

described by Jacobsen (1979a) as a "preposition" (which, for him, is a subtype of transitive verb),

but I prefer to think of it simply as a locational verb. With this verb as predicate head, the locative RP is not an oblique, but an argument. A path-orientation suffix or locative suffix can occur on the verb to further specify the location.

- (186) MAKAH a. 2iyax2it wa2ač 2iyaxa = i = at wa2ač at=INDIC.3sg=3pl Waatch 'They are at Waatch.'
 - b. 2iyaxartxitdu curyas 2iyaxa-'atx = (b)it = du: curyas at-dwelling=PAST=1pl dig-on.ground'We lived at Dug-in-Ground (Sooes).'
 - c. $2iyaxir4sar\lambda ke$ $2iyaxa-'i4-sa = 'a\lambda = 'i = ke$: at-in.house-precisely=TEMP=IMPER.2sg=ADVISE

'Be right here (in the house)!' (HW, Deer and Wolves)

The locative verb often occurs in a bare absolute adverbial clause (§4.6.1.1):

(187) макан

?ača'ya'q́e'?iss	[?iyaxax	hida q̇̃ Åasiq]
?ača'ya:q-'e:?is=s	[?iyaxa-(x)x]	$hida$ -'a'q λ as="iq]
gather.wood-go.to=INDIC.1sg	[at-while	empty.root-in.woods=ART]

'I am going to gather wood in the woods.'

Nuuchahnulth has a series of intransitive deictic verbs of which *hit* 'there, at this place' is one of the most commonly encountered.⁴⁸ The locative RP is set in apposition to the deictic verb. The deictic may or may not contain restrictive path-orientation or locative suffixes that further specify location.

(188)

NUUCHAHNULTH a. $hi \frac{1}{2} a \lambda m a$ $\dot{m} a^2 a q u^2 a$ $hi \frac{1}{2} = a \lambda = m a^2$ $\dot{m} a^2 a q u^2 a$ there=TEMP=INDIC Maakua

'They were at Maakua.'

b. $hi\dot{y}ahs?a\lambda$ $\dot{c}apac?i$ $hi\dot{t}-'ahs$ $\dot{c}apac=?i$ there-in.vessel=TEMP canoe=ART 'They were in the canoe.'

These constructions certainly do not exhaust the means for expressing location in Makah and Nuuchahnulth, but at least give an idea of how this function is accomplished.

Locative and temporal modifiers are not the only oblique RP types. Agent RPs in passiveinverse clauses and possessed RPs in clauses with possessor subjects are also oblique:

(189) NUUCHAHNULTH
a. Agent oblique

...λupksa·paλatsi
ho·wis
λupk-sa·p = 'aλ = 'at = si'
no·wis
awake-CAUS.PERF=TEMP=PINV=1sg
father.POSS.1sg
'I was awakened by my father.' (NT 178.22)

b. Oblique possessed RP

 $\lambda upk \check{s}i?a\lambda uksi$ $no'\dot{w}is$ $\lambda upk - \check{s}i\lambda = 'a\lambda = uk = si'$ $no'\dot{w}is$ awake-PERF=TEMP=POSS=1sgfather.POSS.1sg'My father awoke.'

See §7.3.4 for the possessive subject construction and §7.3.5 for the passive-inverse.

4.4.2 The grammar and functional dynamics of subject choice

An important characteristic of the syntax (really, an interaction between syntax and discourse principles) is a strong tendency for speech-act participants (i.e. first and second persons) and highly topical third person arguments to occupy main grammatical roles, particularly subject.⁴⁹ It is not, of course, uncommon for languages to show a statistical preference for coding such participants as subjects, but Southern Wakashan stands out for how sensitive the structure of basic clauses is to reference-related requirements on subject choice. The use of two common constructions, the passive-inverse and possessor-raising constructions, is largely controlled by these concerns. Details are reserved for §7.3.4 and §7.3.5, but a preliminary Makah example will give an idea of the considerations involved.

When one argument of a transitive clause is a speech-act participant (SAP) and the other is third person, the SAP must be the subject regardless of its semantic role. If the third person argument is the P (patient-like argument), it is coded as object, and the clause is direct, i.e. non-passive-inverse.

(190) SAP acting on 3 P $kudu^{i}ksa^{i}?a\lambda^{i}ts$ Bill $kudu^{i}k-sa^{i}p = a^{i}\lambda = (b)it = s$ Bill awake-CAUS.PERF=TEMP=PAST=INDIC.1sg Bill 'I woke Bill.'

If, on the other hand, the SAP is the P, a passive-inverse construction is used (marked by the clitic M = it, N = at glossed "PINV" on the predicate head) with the SAP as subject and the third person A (agent-like argument) as an oblique (191)a. A direct construction with the third person A as subject and the SAP P as object is ungrammatical (191)b.

(191)	a.	3 A acting on SAP P $kudu ksa' 2a\dot{\lambda} itits$ $kudu k-sa:p = a\dot{\lambda} = it = (b)it = s$ awake-CAUS.PERF=TEMP=PINV=PAST=INDIC.1sg		Bill Bill Bill
		'Bill woke me.'		
	b.	*kudu [,] ksa [,] ?aħ?u kudu [,] k–sa:p= 'aħ=(b)u=°i	Bill Bill	siya' siya'

awake-CAUS.PERF=TEMP=PAST=INDIC.3sg

See Chapter 7 for more information.

This example demonstrates the preference for having SAPs rather than third persons as subject. A similar (though not so rigidly enforced) preference exists for more topical third person referents to occupy the subject role rather than less topical third person referents. As others have noted (e.g. Jacobsen 1993: 236), this plays a major role in reference tracking in the absence of other structural means (like case marking, a gender system, etc.) that could serve this function.

Bill

1sg

4.4.3 Clause types

4.4.3.1 Verbal predicates

In many languages, it is possible to classify verbal predicates by the number and types of objects they take: intransitive (no object), transitive (one object), and ditransitive (two objects). Sometimes atransitive or ambient predicates, that is, predicates with no (semantic) arguments, are also distinguished. In Southern Wakashan, a classification with roughly these types is possible in theory, but in practice it proves difficult to assign every predicate to one or another of the types with certainty. In this section I first present a few more-or-less straightforward examples of each of the apparent verbal predicate types (intransitive, transitive, ditransitive, and atransitive), and then discuss problems that Makah and Nuuchahnulth raise for such a classification.

Intransitive predicates have a subject, but no object.

(192) макан

a. $kakwała\lambda wa'dał$ $kakwał = 'a\lambda = wa:da = ał$ lost=TEMP=QUOT.3sg=3pl

'They were lost.' (HW, Frogs)

b.	?a'd?aħwa'd	hidu'sa'λ
	$a \cdot di = a \lambda = wa: da$	$hida$ -wisa:= 'a λ
	in.fact=TEMP=QUOT.3sg	empty.root-come.to.surface.of.water.PERF=TEMP

'He did in fact come to the surface of the water.' (HI, Qweti and Canoe-Swallower)

NUUCHAHNULTH c. $qah\dot{s}i?a\lambda ma$ $2a'tu\dot{s}?i$ $qah-\dot{s}i\lambda = 'a\lambda = ma'$ $2a'tu\dot{s} = ?i'$ dead-PERF=TEMP=INDIC deer=ART

'The deer died.'

d. $hixuqsila\lambda in$ $hixuq-si\lambda = 'a\lambda = (m)a' = ni$ shout-PERF=TEMP=INDIC=1pl

'We gave a shout.' (NA 159.40)

e.	caca'pk ^w apuħma	hi'ŧi'cṁinḥ?i	₽a'ḥu's?atḥ
	[R]- $capk^{w}$ - api [L]- $u\lambda = ma'$ PL-have head bowed-erect-PERF=INDIC	hit - (w)i:c [L] $-minh = 2ithere-along.edge-PL=ART$	<i>4a'ḥu's?atḥ</i> Ahousaht

'The Ahousahts standing along the edge each bowed their heads.' (NA 449.1)

f. $hirnursa?ar4qath?a\lambda$ hina-wisar-?ar4 [IterL]- $qarth = 'a\lambda$ empty.root-come.to.surface.of.water.PERF-ITER-pretendedly=TEMP

'They pretended to come to the surface at intervals.' (NA 230.35)

Deictic verbs with locational meanings (e.g. N *hit* 'there', M, N *yart* 'yonder') function as intransitive predicate heads. The Nuuchahnulth demonstrative 2ah 'here' in (193)b is thus claimed to be in apposition to, rather than an object of, *hit* 'there', i.e. the sentence literally translates as 'two dorsal fins were there: here'.⁵⁰

(193)	a.	NUUCHAHNULTH $hi\frac{1}{2}a\lambda$ $2a\dot{h}$ $2a\lambda qim\frac{1}{2}$ $\check{c}ak^w a'si$ $hi\frac{1}{2}=`a\lambda$ $2a\dot{h}$ $2a\lambda - qim\frac{1}{2}$ $\check{c}ak^w a'si$ there=TEMPDEMtwo-X.many.round.objectsdorsal.fin
		'Here were two dorsal fins of whales.' (NT 164.20)
	b.	$\begin{array}{ll} hi?i \cdot s?a\lambda uk^{w}e?icu & ku \cdot ku \dot{h} \dot{w} isa\\ hi?i \cdot s = `a\lambda = uk = (m)a \cdot = ?icu & ku \cdot ku \dot{h} \dot{w} isa\\ \text{there.on.ground=TEMP=POSS=INDIC=2pl} & hair.seal \end{array}$
		'Your hair-seals are on the ground there.' (NT 70.27)
	c.	ya' tma' hu' ni' wa' $2a\lambda$ ya' $t=ma'$ hu' ni' wa' = ' $a\lambda$ yonder=INDIC drift.whale say.PERF=TEMP
		"Yonder's a drift whale," he said.' (NA 337.47)

Passive-inverse clauses are also believed to be intransitive.

(194)	MAKAH	
	qaxsa'?a치it?u	bukwač
	$qax-sap = a\lambda = it = (b)u = i$	bukwač
	dead-CAUS.PERF=TEMP=PINV=PAST=INDIC.3sg	deer
	'Deer was killed.'	

Transitive clauses have a subject and one object. Recall from §4.3.1 that Makah marks objects in the clitic sequence in some cases (first and second person and third person plural), while Nuuchahnulth does not. Object marking in Makah is dealt with in more detail in §7.2.1.

(195) макан

a.	da'cs?aħ	λu'kšu'd	ća'?uwiq
	da ' $csa = a\lambda$	λu [,] kšu [,] da	ća−?uk=°iq
	see=TEMP	raven	flow-DUR=ART

'Raven was watching the river.' (HW, Raven and His Beak)

b. $?a\lambda \check{c}eya \check{t}\hat{s}?a\lambda itdi cux$ $?a\lambda - \check{c}eya \check{t} - \check{s}i\lambda = `a\lambda = (b)it = di:cux$ two-X.many.days-PERF=TEMP=PAST=INDIC.1pl/2sg empty.root-expect

'We expected you for two days.'

c. $2u^2uduxsa^4$ $yakya^2daqyu^2iq$ $2u-idux = s = ax^4$ $ya^2daq-yu^2 [R+L] = iq$ so.and.so-look.for=INDIC.1sg=3pl child-PL=ART

'I am looking for the kids.'

	NUUCHAHNULTH		
d.	čaqšiħ?a'qħḥak	hi?i's	q ^w ayaći•kuk?itqak
	$\check{c}aq-\check{s}i\hbar=?a:q\hbar=ha'=k$	hi?i's	$q^{w}aya\dot{c}ik = uk = ?i'tqa = k$
	push-PERF=INTENT=INTERR=2sg	there.on.ground	wolf=POSS=DEF=2sg

'Are you going to shove your wolf there away?' (NA 143.18-19)

e. $2uk^{w}i\cdot t\dot{s}i2a\lambda$ $\dot{\lambda}icsacus...$ $2u-(\check{c})i\cdot t-\check{s}i\lambda = `a\lambda$ $\dot{\lambda}i-(c)sacus$ so.and.so-make=PERF=TEMP shoot-surface.for

'They built a shooting platform.' (NA 387.34-35)

f. $su^{2}a\lambda$ $jacsa^{k}um...$ $su-[L] = a\lambda$ $jacsa^{k}um$ hold-CONT=TEMP potlatch.handle

'It held a potlatch handle.' (NT 152.10)

g.	ha?ukši?aħ	ńixtin	qu?išinṁit
	ha ? uk – $\check{s}i\lambda$ = ' $a\lambda$	ńixtin	qu?išin–ṁi't
	eat-PERF=TEMP	salmon.eggs	raven-son.of

'Raven began to eat the salmon eggs.' (NT 44.10)

h.	ḥamupši?aħ	nuwicu?ał?aħ	naỷaqak?i
	$hamup-\check{s}i\lambda=\check{a}\lambda$	$\dot{n}u\dot{w}ic-(y)u?at=a\lambda$	nayaq–ak ^w =?i'
	recognize-PERF=TEMP	father-perceive.PERF=TEMP	baby-DUR=ART

'The baby recognized him, saw him as (his) father.' (NT 82.34)

i. $2u \cdot 2i\lambda a sah$ su w a ... $2u - i\lambda [L] - a s = (m)a = ah$ su w aso.and.so-get-go.in.order.to.PERF=INDIC=1sg 2sg

'I came to get you.' (NT 68.30)

Transitives are also created by addition of a causative morpheme, either an allomorph of the syncretic causative perfective suffix (196)a-b, or the causative clitic (196)c.

(196)	NUUCHAHNULTH

a.	$qahsa'pa\lambda ma$ $qah-sa'p='a\lambda = ma'$ dead-CAUS.PERF=TEMP=INDIC	<i>2a'tuš?i</i> <i>2a'tuš = ?i'</i> deer=ART

'He/she/it/they killed the deer.'

b.	hi•napup̊at̄qu•we?in	ťuhck ^w i	yu [.] łu?ił?at <u></u> h
	$hina-api \ [L]-up = a\lambda = qu: = we?in$	ťuh–ck ^w i	yu łu?ił?ath
	empty.root-up.in.air-CAUS.PERF=TEMP=COND=QUOT	head-remains.of	Ucluelet

'The Ucluelets kept lifting up the (severed) heads.' (NA 388.21-22)

c.	λu ł?assinḥap	hinaḥu?asuk?i
	$\lambda u d$ 'as-sinhi [L]='ap	hina-ahu'(t)-'as = uk = $2ir$.
	good-on.ground-in.condition=CAUS	empty.root-in.front-on.ground=POSS=ART

'He kept clean (lit. good) the front (of his house).' (NA 143.51-52)

Ditransitive verbal predicates have two objects. Following Dryer (to appear), we may desig-

nate the recipient-like argument of a ditransitive predicate R and the theme-like argument T.

(197)MAKAH a. hidi'bits Maria *cakwarqap*ł hida - i' = (b)it = s*ċakwa'–qap*ł Maria empty.root-give.PERF=PAST=INDIC.1sg Maria one-X.many.round.objects R Т 'I gave Maria a dollar.' NUUCHAHNULTH b. hini'sita' hičma haŵi'h hič–ma $hina-i:=si'=\lambda a:$ hawiił-i:h empty.root-give.PERF=1sg=again illuminate-thing chief-PL т R 'Again I gave torches to the chiefs.' (NT 144.5) c. $hała'či\lambda$ [patqa'waminhit?i] hayu ha'ŵi'haิโ] k^wa'ta' hała'–čiλ $[\dot{p}atq^{w}-(y)a^{w}a-\dot{m}in\dot{h}=(m)it=2i^{w}$ hayu ha'ŵi'haλ] k^wa'ta' [goods-go.for.at.interval-PL=PAST=ART quarter pay-PERF ten young.men] Т R 'He paid a quarter each to the ten men who had packed the goods (back and forth from the boat).'(NA 281.15-16)

The objects expressing the R and T arguments seem to receive identical grammatical treatment; there is no immediate evidence for recognizing either distinct direct and indirect object relations, or distinct primary object (PO) and secondary object (SO) relations. In a PO/SO system, the R argument of a ditransitive predicate is treated grammatically like the single P argument of a transitive predicate (Dryer 1986, to appear). The sentences shown in (198)-(199) might suggest a PO/SO system in Southern Wakashan, but this is probably artifactual. We have seen that, while objects are marked by clitics in Makah, they are not in Nuuchahnulth. There is one exception to this rule: as shown in (198)b, first person objects in Nuuchahnulth *are* marked in clauses in Imperative mood with second person subjects (§7.2.20).

- (198) First person P
 - a. $da?a'?uxa\lambda'is$ $da?a'?ux = 'a\lambda = 'is$ listen=TEMP=IMPER.2sg/1sg

'Listen to me!'

NUUCHAHNULTH b. $na?a tah?a\lambda is$ $na?a tah = 'a\lambda = 'i s$ listen=TEMP=IMPER.2sg/1sg 'Listen to me!' (NA 59.37)

In an Imperative mood ditransitive clause with a first person R, the R is likewise marked by the

pronominal clitic in both languages:

(199)	a.	First person R MAKAH hidi'?is hida-i' = 'is empty.root-give.PERF=IMPER.2s 'Give me the oil bowl!' (HI,	
	b.	NUUCHAHNULTH qa'ci'?is qa'ci' = 'i's give.a.present=IMPER.2sg/1sg	ha?um?ak?itqak ha?um = ?ak = ?i [,] tqa = k food=POSS=DEF=2sg

'Give me your food!' (NA 48.26)

The first person R in (199) is treated like first person P in (198) as in a PO/SO system, but this is simply a reflection of the general primacy in Southern Wakashan of first person over third person

we already have seen in the discussion of subject choice §4.4.2, rather than evidence of any particular grammatical identity of R and P arguments per se.

The T and R arguments can both be expressed by overt RPs in the same clause, but it is more common for only one object RP to appear. Frequently one or the other is old information and left unmarked if third person singular (in Makah) or third person (in Nuuchahnulth):

(200)	a.	MAKAH $hak^{w}i^{t}iya^{t}b^{2}u$ $hak^{w}i^{t}-iya:=(b)u=^{i}borrow-give.PERF=PAST=INDICESTERF=PAST=INDI$	C.3sg	<i>hiti[.]d</i> <i>hiti[.]da</i> blanket T		
		'He/she loaned him/her a blanket.'				
	b.	NUUCHAHNULTH $hini' ?a\lambda$ $hina-i:= `a\lambda$ empty.root-give.PERF=TEMP	<i>łu'cs</i> woma	$ma^{i}k^{2}i$ $ma = ?ak = ?i^{i}m^{i}=POSS=ART$ R		
		'He gave it to his wife.' (N	Т 102.	8)		

c.	…hini [,] ?aλ	<i>ŧu</i> ?uk
	$hina-i:=`a\lambda$	łu?uk
	empty.root-give.PERF=TEMP	board
		Т
	'They gave him weather boar	ds.' (NA 345.24)

Another option is to express the R and T in separate clauses with a bare absolute construction (§4.5). In (201)a, the T arguments are set off with the bare absolute predicate $2uyir2a\lambda$ 'give', and, in (201)b, the R argument is set off with 2u2irp 'give a gift to'.

(201) NUUCHAHNULTH ťana] a. pači?at [va' hawiłi c?i $\dot{p}a-\check{c}i\lambda=\dot{a}\lambda$ hawil-i:c = ?i'ťana] [va' give.gift.in.potlatch-PERF=TEMP DEM chief-belong.to=ART child] R ?uyi'?aX ýaka'ł λitink $2u-ayi' = a\lambda$ ýaka'ł λitink^w so.and.so-give.PERF=TEMP canoe.mat cape Т т

'They gave the chief's child a gift of a cedar bark mat and cape.' (NA 24.40-41)

b.	ќaci'?âλ	?išći′puk?i	?u?i'p	mˈaːmɨːqsuʔi
	Ќac—i:= 'aλ	?išći'p=uk=?i'	?u–?iːp	ḿa'ḿi'qsu = ?i'
	pinch-give.PERF=TEMP	gum=POSS=ART	so.and.so-give.gift.PERF	older.sibling=ART
		Т		R
	'Then he pinched off s	some of his gum and	gave it to the older siste	er.' (NT 80.27-28)

Atransitive predicates have no semantic arguments. Moods are marked just as in other clause types, but there is no subject reference. Atransitives typically express environmental situations like weather conditions.

(202) MAKAH
a.
$$bi'\lambda \check{s}il$$

 $bi\lambda - \check{s}i\lambda - [L+S] = i$
rain-PERF-GRAD=INDIC.3sg
'It is just starting to rain.'

b. ?a'txičil $?atxi'-či\lambda-[L+S] = `i$ night-PERF-GRAD=INDIC.3sg

'It is evening.'

c. $\vec{k}^{w}isa'?a\lambda ma$ $\vec{k}^{w}is-(y)a' = 'a\lambda = ma'$ snow-CONT=TEMP=INDIC

'It was snowing.' (NA 267.13)

d. k^{w} is a · $2a\lambda ha$ k^{w} is $-(y)a' = a\lambda = ha'$ snow - CONT=TEMP=INTERR

'Was it snowing?'

e. $2ath\dot{s}i2a\lambda\lambda a^{\prime}$ $2ath\dot{s}i\lambda-[L+S] = 'a\lambda = \lambda a$ night-PERF-GRAD=TEMP=again

'Again night came.' (NA 59.29)

In addition to the apparently clear-cut examples of different predicate types we have seen to this point, Makah and Nuuchahnulth present not a few cases that are less easy to categorize. As Dryer (to appear) points out, the classification of predicates based on transitivity in a language rests on the ability to distinguish transitive verbs (or other transitive predicates) with objects from intransitive predicates with adjuncts (or obliques). In Southern Wakashan, this distinction is not always straightforward. First, there is little explicit marking of syntactic relations or transitivity.⁵¹ Second, earlier examples like (184)a-f have shown that locative and temporal obliques can occur in a sentence with no overt marking of their adjunct status. It must be considered at least a possibility that other participant roles (e.g. instrumentals) might occur as unmarked adjuncts as well. Hence, it is not always clear which non-subject RPs are objects and which are adjuncts. For example, on the face of it, it is unclear whether the instrumental participants in the Nuuchahnulth examples in (203)a-c ('club', 'stick', 'cedar-limb lines') are objects in some type of ditransitive construction or adjuncts. (See §4.5 for a more common way of expressing instrumentals.)

(203)	a.	NUUCHAHNULTH <i>hisši?is</i> $his-ši\lambda = 'i \cdot s$ strike-PERF=IMPER.2sg/1sg	čiłurłuk?itqak čiłurł = uk = ?irtqa = k war.club=POSS=DEF=2sg

'Strike me with your club!' (NA 447.46-47)

b.	hisši?aħsi	nasqýakukqas	ya'	nasqaćus?i
	his – $\check{s}i\lambda$ = ' $a\lambda$ = si '	$nasq-\dot{y}ak^w = uk = qar = s$	ya'	nasq–aċus = ?i'
	strike-PERF=TEMP=1sg	beat-thing.for=POSS=DEF=1sg	DEM	beat-surface.for=ART

'I beat with my stick on the beating board.' (NA 68.8)

c.	maħši?aħ	<i>₽а</i> ћуи'?i
	$ma\lambda - \check{s}i\lambda = `a\lambda$	$a\lambda - yu = 2i$
	tie-PERF=TEMP	twist-having.been=ART

'They tied it with cedar-limb lines.' (NT 182.11)

A similar example with a location participant:

(204) NUUCHAHNULTH $\dot{c}i\check{c}i?a\lambda$ $2a\lambda yu'?i...$ $\dot{c}i-\check{c}i\lambda = 'a\lambda$ $2a\lambda -yu' = 2i'$ pour-PERF=TEMP twist-having.been=ART 'He poured water on the cedar-branch rope.' (NA 408.10)

The behavioral properties of such object-like RPs must be compared across apparent transitive types in order to determine their status. The most obvious behavioral property of RPs to test is whether they can become passive subject. Another is their ability to precede the predicate head, which appears to be possible only for core RPs (Rose 1981).

4.4.3.2 Nominal predicates

Nominal predicate heads in Southern Wakashan occur in three construction types: class-inclusion predicates, equational constructions, and existential constructions.

Class-inclusion predicates

In Makah and Nuuchahnulth, nominals may function directly as predicate heads with no intervening copular element.⁵² They take predicate clitics exactly as verbal predicates do: there are no restrictions on the predicate clitics they may occur with. The words in (205)-(206) show Makah nouns and property words as heads of class-inclusion predicates; that is, predicates denoting a class of entities the subject is asserted to be a member of.⁵³ Example (207) shows an intransitive verbal predicate for comparison. The coding of each clause type is identical: the mood and pronominal clitics are attached directly to the predicate head in all cases. (Only the masculine singular gloss is given for the third person examples for sake of economy.)

(205)	a.	MAKAH wikwi'ya'ks wikwi'ya: $k^w = s$ boy=INDIC.1sg 'I am a boy'	b.	wikwi'ya'wic wikwi'ya:k ^w = [°] ic boy=INDIC.2sg 'You (sg.) are a boy'	c.	<i>wikwi'ya'w</i> <i>wikwi'ya:k^w=°i</i> boy=INDIC.3sg 'He is a boy'
(206)	a.	$k^{w}a?aks$ $k^{w}a?ak^{w}=s$ small=INDIC.1sg	b.	$k^{w}a?awic$ $k^{w}a?ak^{w} = ic$ small=INDIC.2sg	c.	$k^{w}a?aw$ $k^{w}a?ak^{w}=$ [°] i small=INDIC.3sg
		'I am small'		'You (sg.) are small'		'He is small'
(207)	a.	<i>babuyaks</i> <i>babuyak^w=s</i> work=INDIC.1sg 'I am working'	b.	<i>babuyawic</i> <i>babuyak^w=°ic</i> work=INDIC.2sg 'You (sg.) are working'	c.	<i>babuyaw</i> <i>babuyak^w=°i</i> work=INDIC.3sg 'He is working'

Tense marking is as uniform across clause types as mood and subject marking, as shown by the past tense noun, property, and verbal predicates in (208).⁵⁴ Polar Interrogative mood is used in these examples instead of Indicative mood for sake of variety, and also to further illustrate the ability of nominal words to occur with mood and subject clitics. Only second person singular

forms are given, the possibility of nominal predicates occurring with all persons being amply demonstrated by (205) and (206). Second person singular is zero-marked with this mood in Makah (§7.2.1)

(208)MAKAH

- wikwi'ya'kita'k a. wikwi ya: $k^{w} = (b)it = (q)a:k$ boy=PAST=POLAR 'Were you (sg.) a boy?'
 - b. *k^wa?akita*'k $k^{w}a?ak^{w}=(b)it=(q)a:k$ small=PAST=POLAR 'Were you (sg.) small?'
 - c. babuyakita'k $babuyak^{w} = (b)it = (q)ak$ work=PAST=POLAR 'Were you (sg.) working?'

The homogeneity of coding across word classes demonstrated for mood-marked predicates in (205)-(208) extends to absolute predicates as well. Examples (209)a-c show a noun, a property word, and an intransitive verb as bare absolute predicates in complements to the negative root wiki'.

(209)	a.	MAKAH wiki's wik $-i' = s$ not $-APPEN=INDIC.1sg$ 'I am not a boy.'	wikwi [,] ya [,] k wikwi [,] ya:k ^w boy
	b.	<i>wiki's</i> <i>wik–i' = s</i> not–APPEN=INDIC.1sg 'I am not small.'	k ^w a?ak k ^w a?ak ^w small
	c.	<i>wiki's</i> <i>wik–i' = s</i> not–APPEN=INDIC.1sg 'I am not working.'	babuyak babuyak ^w work

A nominal predicate head may be complex, consisting of a string of nominal words (e.g. a property + noun, a quantifier + noun, etc.). The words in a multi-word nominal predicate head are usually strictly ordered: quantifier/numeral > property > noun. Clitics must occur on the first word of the head. Example (210) shows two multi-word nominal predicates; the predicated expression in (210)a is M $2i2i\cdot x^w \dot{q}idi\cdot\lambda$ 'big dog' and, in (210)b, it is N λut ha2um 'good food'. Note the position of the predicate modifier $\dot{y}u\cdot q^wa\cdot$ 'likewise' following ha2um in (210)b; its location is evidence that the string $\lambda ut 2a\lambda ha 2um$ is indeed a unitary predicate head, since, as described in §4.3.4, post-head predicate modifiers usually directly follow the predicate head and precede core arguments.

(210)	a.	MAKAH $\begin{bmatrix} 2i2i \cdot x^{w}2i \\ 2i2i \cdot x^{w}a = i \\ big=INDIC.3sg \end{bmatrix}$	qidi'λ				
		'That is a big dog.'					
	b.	$\begin{bmatrix} \lambda u & \lambda \\ \lambda u & \lambda \end{bmatrix}$ $\begin{bmatrix} \lambda u & \lambda \\ \lambda u & \lambda \end{bmatrix}$	ha?um	ýu'q ^w a']	$\hat{\lambda}u\check{c}a\check{s}t?i$ $\hat{\lambda}u\check{c}-(k^w)a\check{s}t=?iv$ mussel-dried=ART	<i>čamas?aλ</i> <i>čamas</i> = 'aλ sweet=TEMP	
		'Dried mussels	s are also	good food	l, and sweet.' (NA 22	2.29)	

Equational clauses

Within the major clause types in a language one often finds subtypes with different coding properties that vary according to the semantic or grammatical properties of the lexical items functioning in predicates (e.g. transitive and intransitive subtypes of verbal predication), or according to different functional predication types possible with expressions headed by the same word class. An important distinction of the latter sort among nominal predicates is between clauses with class-inclusion predicates (called "true nominal predicates" by Dryer [to appear]) and those with equational predicates. In a (declarative) class-inclusion clause the subject is asserted to be a member of the class of entities denoted by the predicate, e.g. *John is a teacher*. An equational
clause, on the other hand, asserts that the individual denoted by the predicate is the same as the individual denoted by the subject, i.e. the latter is equated with the former, e.g. *John is the teacher*. In English, the two types are distinguished in several ways (Lyons 1977: 471-72, Dryer [to appear]). The examples in the previous section are of the class-inclusion type, e.g. (205)a M *wikwi'ya'ks* 'I am a boy'. We see from those examples that class-inclusion clauses in Southern Wakashan have the nominal expression as the (syntactic) predicate head. Clauses with equational predicates are formed at least two ways. The first, and less preferred, way, only attested in Nuuchahnulth, is to use the same construction found in class-inclusion clauses: the entity to which the subject is equated serves as predicate head with the appropriate predicate clitics attached:

(211) NUUCHAHNULTH hawiłma hił hawił = ma hił chief=INDIC there 'He is the chief there.' (based on NA 47.2)

Although the translation of (211) in the source and its discourse context make clear that it is to be taken as equational, out of context it is presumably ambiguous between class-inclusion and equational readings, i.e. out of context (211) could also mean 'He is a chief (i.e. high ranking male) there'. (The usual English gloss for hawit, 'chief', is misleading because it implies unique status for its referent in a group. The word actually refers to any high-ranking male, so a group can have more than one hawit — the class-inclusion reading is perfectly plausible, and, as we see next, is

probably preferred.)

The second, and more common, construction involves pronouns interposed as copular elements. This is in fact the only possible construction if the (semantic) predicate is a personal name, place name, an RP with the article, or, in Makah, an RP with a possessive clitic, because these types of nominal expressions cannot normally function as syntactic predicate heads:⁵⁵ (212) MAKAH a. *Bill?iBill = iBill=INDIC.3sg 'He is Bill.'

b. * $huxtaksa'qti?i'?i\dot{q}$ Bill huxtak-sa:q-ti?i:=`iq=`i Bill know.how-CAUS.PERF-...er=ART=INDIC Bill 'Bill is the teacher.'

(The prohibition against co-occurrence of mood clitics and the article will be shown to be natural when I suggest in §4.5.1 that the article itself is a mood clitic.)

The precise form of the correct construction in Nuuchahnulth depends on the person of the subject, which is the entity on X-side of the semantic equational schema. If it is first or second person, the predicative form of the appropriate independent pronoun intervenes as predicate head, and the entity on the Y-side of the equational schema is simply syntactically apposed to it:⁵⁶

(213) NUUCHAHNULTH
a. ...siýa·qaḥ ni·nisṗatwas siýa·q=(m)a·=aḥ ni·nisṗatwas 1sg.PRED=INDIC=1sg Niinispatwas 'I am Niinispatwas.' (NA 142.14)
b. siýa·qaḥ napni·t?i siýa·q=(m)a·=aḥ napni·t=?i· 1sg.PRED=INDIC=1sg priest=ART 'I am the priest.'

The literal force of this construction appears to be 'I am I (who am) Niinispatwas', with the name or RP-with-article as an "appositional complement" to the predicate. This is supported by the fact that the very same construction translates as 'It it I, NAME'.

(214) NUUCHAHNULTH a. siya qah $\lambda a cmirk$ siya q = (m)a = ah $\lambda a c-mirk^{w}$ [L] 1sg.PRED=INDIC=1sg blubber-getter.of 'It is I, Blubber-Getter.' (NA 138.44) b. $siya a \lambda a h$ čakupuk?itqak $\lambda u x w ičit$ $siya q = 'a\lambda = (m)a = a h$ čakup = uk = ?i tqa = k $\lambda u x w ičit$ 1sg.PRED=TEMP=INDIC=1sg man=POSS=DEF=2sg Woodpecker 'It is I, your husband Woodpecker.' (NT 52.12)

These predicative pronoun forms otherwise appear only in subject focus constructions like (215),

which suggests that equational predication is treated as a pragmatically marked discourse type.

(215) NUUCHAHNULTH $?ah?a?a\lambda si siya?a\lambda ciqši\lambda$ $?ah?a' = 'a\lambda = si' siya'q = 'a\lambda ciq - ši\lambda$ then=TEMP=1sg 1sg.PRED=TEMP speak-PERF 'Then I myself spoke.' (NT 64.26)

If the subject is third person, the deictic pronoun 2uh 'this one, that one, so-and-so, such-andsuch' fills the syntactic predicate head slot with the X as its subject and the Y as antecedent to 2uh. The construction literally means something like 'He is so-and-so (who is) Bill' or 'Bill is that one (who is) the priest'. Note in (216)c that the Y has been moved before the predicate head, while in (216)d it is the X that has been fronted.

(216)		NUUCHAHNULTH $2u\dot{h}/2a\lambda$ $2i2i\check{s}su2i\check{t}$ $2u\dot{h} = 'a\lambda$ $2i2i\check{s}su2i\check{t}$ so.and.so=TEMP Pitch.Woman 'It was Pitch-Woman.' (NT 92.26)
	b.	2uhma'Bill $napni't?i$ $2uh = ma'$ Bill $napni't = 2i'$ so.and.so=INDICBillpriest=ART
		'Bill is the priest.'
	c.	$ma^{*}cma^{*}yux^{w}in\dot{c}a$ $2u\dot{h}?a\lambda$ $ma^{*}cma^{*}yux^{w}in=\dot{c}a^{*}$ $2u\dot{h}=?a\lambda$ supernatural.spearsman=QUOT.ARTso.and.so=TEMP
		'It is the supernatural spearman.' (46.11.27)
	d.	ya'tupa'ti?i?uhma'?e?i'hčaya'tupa'ti = ?i'?uh = ma' $[R]$ -?i'h" = ča'DEMtuupati=ARTso.and.so=INDICPL-big=QUOTART

'That tuupati is the big (kind) that one hears about.' (NT 158.4)

e.	?uḥma'		ti'łu'p
	2uh = mar	?i∙h ^w =Ča∙	ti ^v tu ^v p
	so.and.so=INDIC	big=QUOT.ART	devil.fish
	'It is the large k	ind of devil-fish	n one hears about.' (NT 170.32)

The same construction is used in Makah except that independent pronouns in Makah do not have predicative forms. Hence, its cognate to the Nuuchahnulth deictic pronoun, *?uxu*^{*} (with appended vowel), serves as the predicate head regardless of the person of the subject:

(217)	a.	MAKAH 2uxu's 2ux-u' = s so.and.so-APPEN=INDIC.1sg 'I am Bill.'	Bill Bill Bill	
	b.	<i>?uxu'?</i> <i>?ux-u' = °i</i> so.and.so-APPEN=INDIC.3sg 'Bill is the teacher.'		<i>ḥuxtaksa'qti?i'?iq huxtak–sa:q–ti?i:=°iq</i> know.how–CAUS.PERF–…er=ART

Existential predication

Thus far we have seen nominal predicates in class-inclusion and equational constructions. There is one final function nominal predicates may serve. A nominal expression may function as predicate head in an existential construction. Since existentials are typically used to assert the existence of an entity at a particular location (e.g. English *there was water in the bucket*), some locative specification usually occurs in the clause as well, either by a following bare absolute verb with locational meaning (218)a,c-d, or else a restrictive locative suffix (or suffixes) directly affixed to the head (218)b,e-g. The Nuuchahnulth sentence in (218)f also has the adjunct RP $\dot{c}i\check{s}a^{r}$ 'Tsisha (place name)' expanding the reference of the locative suffix. Note that $2a\lambda qimt$ $\dot{\lambda}upaqak$ 'two heating-stones' in (218)d and $2a\lambda qimtas i ckin$ 'two thunderbirds on a surface' in (218)g form complex predicate heads — cf. (210).

(218) макан

a.

bukwačal	?iyax	hihitaxs?iq
$bukwač = a\lambda = i$?iyaxa	hita- xsa [R] = iq
deer=TEMP=INDIC.3sg	at	empty.root-in.bushes=ART

'There is a deer in the bushes.'

b. $\dot{q}i\lambda i'\dot{c}axsal$ $\dot{q}i\lambda\dot{c}-\langle i'\rangle-\dot{a}xs=\dot{a}\lambda=\ddot{i}$ dog-<EPEN>-in.vessel=TEMP=INDIC.3sg

'There is a dog in a vessel.'

NUUCHAHNULTH c. $q^{w}aya\dot{c}i\dot{k}a\lambda ma$ hi?is... $q^{w}aya\dot{c}i\dot{k}=\dot{a}\lambda=ma$ hi?iswolf=TEMP=INDIC there.on.ground

'There was a wolf on the ground.' (NA 143.16)

d.	?aħqimłma	х̂ираqak	mači'ł
	$2a\lambda - qim t = ma$	$\hat{\lambda}upaq-ak^w$	mači i
	two-X.many.round.objects=INDIC	heating.stone-DUR	in.house

'There were two heating-stones in the house.' (NT 202.5)

e. *ċa'wayu'sci'?as ċawayu:s–(c)ci:?as* [L] rainbow–at.outside.wall.of.house

'There is a rainbow on the side of the house.' (NA 86.29)

f. ...2a? $uk^waq\lambda a\lambda$ $\dot{c}isa'$ 2a? $uk-\dot{a}q\lambda = \dot{a}\lambda$ $\dot{c}isa'$ lake-inside=TEMP Tsisha

'There is a lake under the surface at Tsisha (place name).' (NT 166.23)

g.	?aħqimłasħa'	<i>ti</i> 'ckin	mata's	
	$a\lambda - qim d - a's = \lambda a'$	<i>ťi</i> c <i>kin</i>	mat–a's	
	two-X.many.round.objects-on.horizontal.surface=again	thunderbird	fly-on.surface	
	'There were again two thunderbirds perched (on a barge).' (NA 133.3)			

(The translation 'perched' for *matars* in (218)g comes from the inherent stative aspect of the locative suffix applied to the meaning of the bound verb root; the resulting stative verb literally means 'having flown onto a surface'.) Unlike other nominal predicates, existential predicates are atransitive (or ambient); they have no semantic arguments, and thus no subject reference. See §4.4.3.1 for further discussion of atransitive predicates.

Existentials in which the location is expressed by a following verb — e.g. (218)a,c-d — are in essence multi-clausal reversals of a mono-clausal construction having the locational verb as the sole predicate head and the nominal expression as its subject. (218)c-d, for instance, could be expressed equally well with such a mono-clausal sentence:

(219) a $hi?irs?a\lambda ma$ $q^wayacirk$ $hi?irs='a\lambda = mar$ $q^wayacirk$ there.on.ground=TEMP=INDIC wolf

'A wolf was on the ground there.'

b.	mači'ł?aλ	?aħqimł	х̂ираqak
	mači i = 'aλ	?aħ–qimł	$\hat{\lambda}upaq-ak^w$
	in.house=TEMP	two-X.many.round.objects	heating.stone-DUR

'Two heating-stones were in the house.'

See also (193).

Nominal predicates containing restrictive path-orientation or locative suffixes are a special case. They are often atransitive existentials (in (218)b,e-g, for example). In some cases, however, they are intransitive with personal subject reference. In this use, the subject referent is asserted to have some relation with the referent of the nominal base that can be loosely referred to as possession.⁵⁷ Schematically: 'X [subject referent] has Y [referent of nominal base] at Z [location denoted by suffix(es)]'. I call this the possessive-existential (or bahuvrihi) reading. Consider the examples in (220).

(220) макан

a. $\dot{q}i\lambda i'\dot{c}axsa\lambda s$ $\dot{q}i\lambda\dot{c}-\langle i'\rangle-\dot{a}xs=\dot{a}\lambda=s$ $dog-\langle EPEN\rangle-in.vessel=TEMP=INDIC.1sg$ canoe=POSS.1sg

'I have a dog in my canoe.'

NUUCHAHNULTH b. $patahs a \lambda a h$ $patq^{w} - ahs = a\lambda = (m)a = ah$ goods-in.vessel=TEMP=INDIC=1sg

'I have freight in my canoe.'

c. $qu^{2}ac^{2}a\dot{c}u^{4}we^{2}in^{2}a^{4}a$ $?a\lambda a^{2}a\dot{c}u^{4}$ $\dot{n}a^{*}sapu^{4}2i$ $qu^{2}ac^{-}.?a^{*}\dot{c}u^{4}) = we^{2}in = ?a^{*}aa$ $?a\lambda a^{-}.?a^{*}\dot{c}u^{4}$ $\dot{n}a^{*}s^{-}(q)apu^{4} = ?i^{*}$ person-on.surface=QUOT=HAB two-on.surface day-representing=ART

'A day screen usually shows two people on its surface.' (NA 159.44)

d. $\frac{2a^{2}ak\dot{y}a\dot{k}^{w}aq\lambda\dot{n}u\dot{k}^{w}a\lambda}{[R]-\frac{2}{a}k^{w}-\dot{y}ak^{w}-\dot{a}q\lambda-\dot{n}uk=\dot{a}\lambda}$ PL-cut.with.knife-thing.for-inside-at.hand=TEMP

'Each held a knife, i.e had a knife in his hand.' (NA 75.11)

e. $tupata hs ?a'q\lambda a\lambda ni\lambda a'$ $tupat-'ahs = ?a:q\lambda = 'a\lambda = ni' = \lambda a:$ tupati-in.vessel=INTENT=TEMP=1pl=again

'We would take a tupati (equipment for a ritual marriage test) along in the vessel again.' (NA 142.46)

It is often unclear whether a third person referent in a sentence with a restricted nominal predicate (i.e. a predicate containing a predicate head with a restrictive locative suffix) is to be interpreted as the subject of the predicate (triggering a possessive-existential reading) or as a locative adjunct expanding the reference of the restrictive suffix(es) (triggering a simple existential reading). This ambiguity exists in (220)c, for example. The source translates the sentence assuming the first reading, as if ha'saput?i 'a day screen (a board with a painting depicting a mythological subject on it)' were the subject of the nominal predicate qu?ac?aċuł ?a λ a?aċuł '(be) two people on a surface', but it is just as likely to be a locative RP expanding the reference of -.?arċu(t), that is, an adjunct further specifying the identity of the surface the two people are on. The alternative readings are 'a day screen has two people on it' and 'there are two people on a day screen'. Another ambiguous Nuuchahnulth example is shown in (221). This sentence is especially interesting because it contains two restricted nominal predicates. The first is the main complex predicate head *caqi*'ctaqimtcu ma'tma's 'twenty tribes in a container'; the second is the relative clause ya?aq λ nuk 'that which is in the hand', which is adjoined to the demonstrative ?ah 'that's the the surface is the moment.

(221)	NUUCHAHNULTH		
	caqi [,] ctaqimłćuma	ma'tma's	?aḥ
	caqi'c–(<u>š</u>)taqimł–ću' = ma'	ma?as - < t > [LR]	?aḥ
	twenty-X.many.groups-in.container=INDIC	tribe- <pl></pl>	DEM

ya?aqλ'nukqas
yaq^w-'aqλ-'nuk=qa'=s
that.which-inside-at.hand=DEF=1sg
a. 'This that I have in my hand has twenty tribes it in.'
b. 'There are twenty tribes in this that I have in my hand.' (NA 292.10-11)

The relative clause is clearly possessive-existential: the first person pronominal clitic assures us

of that. The question is whether 2ah ya2aq λ nukqas 'this that I have in my hand' is the subject of the main predicate (translation a) or an adjunct RP expanding the reference of the locative suffix -*ċu*' 'in a container' (translation b).

4.5 Referring phrases

Referring phrases in Southern Wakashan may be divided into two types according to whether they contain a relative root like M $yaqa^{w}$, N yaq^{w} one who, that which'. We first discuss simple RPs, i.e. RPs that do not contain such a root.

4.5.1 Simple RPs

There are striking similarities in the structure of simple RPs and the structure of clauses that are neatly explained by an analysis in which such RPs are, in effect, nothing but "nominalized" clauses, that is, clauses made into referring expressions; or, put more formally, referring phrases are headless relative clauses.⁵⁸ The entity denoted by a simple RP is equivalent to the subject of the corresponding non-nominalized clause. Key to this analysis is the idea that the morpheme I have glossed thus far as an article M = iq, N = 2ir is a type of relative mood marker.⁵⁹ This is supported by the fact that the article is in a relation of absolute paradigmatic exclusivity with the other mood markers (cf. (212)b above). Predicate clitics thus naturally appear in "referring clauses" just as they do in ordinary main clauses, with the exception that only the article (or, in Nuuchahnulth, its quotative counterpart = $(m)i\check{c}a = \check{c}a^r$ 'the reputed, the one they speak of') may appear in the mood slot of the clitic sequence. Thus, the RPs in the a. examples below are claimed

to have the same structure and grammatical relationships among words as the clauses in the b. examples. That is, M $xad?ak^w$ 'girl' is predicate head in both (222)a-b, M we?ič 'sleeping' is predicate head in (223)a-b and $xad?ak^w$ 'girl' is its subject, and so on.

- (222) MAKAH a. xad?awiq $xad?ak^w = ^i iq$ girl=ART 'the girl' (lit. 'the one that is a girl')
 - b. xad?aw xad?ak^w= [°]i girl=INDIC.3sg 'She is a girl.'

(223) MAKAH a. $we?i\check{c}iq$ xad?ak $we?i\check{c} = `iq$ $xad?ak^w$ sleep=ART girl 'the sleeping girl'

> b. $we?i\dot{c}$ xad?awiq $we?i\dot{c} = i$ $xad?ak^w = iq$ sleep=INDIC.3sg girl=ART

> > 'The girl is sleeping.'

- (224) макан
 - a. qa'qatqst?iqqatq-(k)sta [LR] = `iqamputate-at.legs=ART

'the one with an amputated leg'

b. qa'qatqst?iqatq-(k)sta = `iamputate-at.legs=INDIC.3sg

'He/she/it has an amputated leg.'

(225) NUUCHAHNULTH a. qu'?as?iqu'?as = ?i'person=ART 'the person' (lit. 'the one that is a person') b. qu'?asmaqu'?as = ma'person=INDIC

'He/she/it is a person.'

(226) NUUCHAHNULTH a. qahak?i qu'?as $qah-ak^w=?i'$ qu'?asdead-DUR=ART person

'the dead person' (NT 74.19)

b. qahakma qu'as 2i $qah-ak^w = ma'$ qu'as = 2i'dead-DUR=INDIC person=ART

'The person is dead.'

(227) NUUCHAHNULTH a. $\vec{k}^{w}a'\lambda sim\check{c}?i$ $\vec{k}^{w}a\lambda - sim\check{c}[L] = ?i'$ otter-do.ritual.for=ART

'the one doing ritual for (catching) sea-otters' (NA 48.30)

b. $\vec{k}^{w}a\cdot\lambda sim\check{c}ma$ $\vec{k}^{w}a\lambda - sim\check{c}$ [L] = mav otter-do.ritual.for=INDIC

'He is doing ritual for (catching) sea-ottters'

(228)		NUUCHAHNULTH	
	a.	maťas?aħ?i	ťi•c <i>kin</i>
		mat -' as = ' $a\lambda$ = ? i '	ťi [,] ckin
		fly-on.ground=TEMP=ART	Thunderbird

'the Thunderbird that has flown down onto the ground' (NA 136.4)

b.	maťas?aħma	ťi [,] ckin?i
	mat -' as = ' $a\lambda$ = ma '	ťi•ckin = ?i•
	fly-on.ground=TEMP=INDIC	Thunderbird=ART

'The Thunderbird has flown down onto the ground.'

A simple RP (with the article) can include any elements (subjects, objects, obliques, adverbial clauses, complement clauses, etc.) that an ordinary clause can. As (229)i demonstrates, an RP may be preceded (or more rarely, followed) by a demonstrative. The article attaches to the first non-demonstrative word of the RP, precisely as a mood clitic attaches to the first word of the predicate in an ordinary clause.

(229) макан

a.

ča'ča'baťas?iq	?iyaxa•tx	ti'ka?a
$[R] - \check{c}a'ba\dot{t}a - sa = \hat{i}q$	iyaxa = atx	ti'ka?a:
PL-chief-precisely=ART	at-dwelling	DEM

'the real chiefs living here' (HW, Speech)

b.	nuuchahnulth wi?akšiħit?i	ḥa'k ^w a'λ
	$wi?ak^{w}-\check{s}i\lambda = (m)it = ?i'$ angry-PERF=PAST=ART	<i>ḥa'k^wa'λ</i> girl

'the girl who had gotten angry' (NT 66.18)

c. mimikuk?i $2u'yuq^wa$ $ku'čmu'puk^witqin$ mik-kuk [R] = 2i' 2u-i'yuq-(y)a' ku'čmu'p = uk = (m)it = qa' = nalike-resemble=ART so.and.so-do.to-CONT sister=POSS=PAST=DEF=1pl

'the one who looks like our former sister' (NT 78.24-25)

d.	ḥaŵił?i	?u'c	mu ḥinł
	ḥawił=?i'	?u—i:c	mu-a'hu'(t)-(w)int [L]
	chief=ART	so.and.so-belong.to	burn-in.front-on.neck

'the chief of the saw-bill (burned neck) ducks' (NT 82.3)

e.	?u'c?i'	qałartik	λiḥwitu?a
	2u-ic=2i	qałartik ^w	λiḥ–witu(ɬ)–'a'
	so.and.so-belong.to=ART	younger.brother	move.pointwise-go.past.head.PERF-on.rocks

'the younger brother of Pokes-past-Head (man's name)' (NA 388.19-20)

f.	hinin?i	?uyaq <u>h</u> mis
	hina–ńi [,] = ?i [,]	?uyaqḥmis
	empty.root-arrive=ART	news

'the news that has arrived' (NT 150.40)

g. suse'?i $q^{w}aya\dot{c}i'k$ sus-(y)a'=?i' $q^{w}aya\dot{c}i:k$ swim-CONT=ART wolf

'a swimming wolf' (NA 143.4)

h.	wikmiḥsap?i	<i>₽imtši</i> λqu′
	wik-mihsa = 'ap = ?i'	$2imt - \check{s}i\lambda = qu$
	not-want.to=CAUS=ART	sing.words.of.song_PERF=COND

'the ones not wishing the words to be sung' (NA 74.46)

i.	ya'	?ayasu [,] mit?i	ća'xća'x ^w a
	ya'	Paya-su:p=(m)it=Pi'	$\dot{c}ax^{w} - (y)a$ [RepR]
	DEM	many-die.CAUS.PERF=PAST=ART	spear-REP

'the one who had speared (so) many to death' (NA 403.1)

j.	?ar?ayint?i [LR]-?aya-nit = ?ir PL-many-stocked.with=ART		<i>ċa'ċa'k</i> [LR]– <i>ċa–?ak^w</i> pl–flow–DUR
	'rivers stocked with much f	ish' (NA 8	33.13-14)
k.	?a'?ayint?i [LR]–?aya–nit=?i'	mina'li mina'li	ha?um ha?um
	PL-many-stocked.with=ART	fishing.ba	nk fish

'heavily-stocked fishing banks' (NA 83.14-15)

The sentence in (230) includes an RP with the article containing another RP with the article (co-

referential to the deictic pronoun root 2u- 'so-and-so' in the verb 2u·k^wit 'doing it to so-and-so').

(230) NUUCHAHNULTH hitasa?a�t *<i><i>ìi'h?iìit?i* ýu'q^wa' [va' $hita-sa\lambda = a\lambda$ ýu'q^wa' [ya'] $\lambda i \cdot h - i \lambda [L] = (m)it = 2i$ empty.root-on.beach.PERF=TEMP likewise [DEM paddle-get=PAST=ART ?u[•]k^wi\$ [va' susši*lit?i*]] $2u - (\check{c})i i [L]$ [va' $sus-\check{s}i\lambda = (m)it = 2i'$ swim-PERF=PAST=ART]] so.and.so-do.to DEM

'Those who had paddled after the swimmers likewise land.' (NA 71.24)

As a rule, however, simple RPs are less complex than main clauses; referring expressions requiring overt subject and/or object RPs are often expressed by apposed simple RPs (231), or else by a root RP containing a relative root like yaq^w 'one who, that which' (for which see §4.5.2 below).

- (231) a. [qu'?as?i] [qa!hsa'pa?i?i [?a'tuš?i]][qu'?as=?i?] [qa!h-sa'p='a?h=?i? [?a'tuš=?i?]][person=ART] [dead-CAUS.PERF=TEMP=ART [deer=ART]]'The man who killed the deer.'
 - b. $ha \cdot k^w a \cdot \lambda u k^w it?i$ $ha \cdot k^w a \cdot \lambda = uk = (m)it = 2i$ girl=POSS=PAST=ART'his late daughter, who was born of a Hupachas woman' (NA 70.10-11)

The bracketing in (231)a represents one possible analysis of the structure of such examples. Other analyses are conceivable.

If the RP does not contain a nominal word (i.e. a noun, property word?, or quantifier/numeral), use of the article is obligatory. If a nominal word is present, the article is optional; in this case, its presence or absence can have functional significance. Its function overlaps the English definite article, but, rather than indicating definiteness (i.e. identifiability or uniqueness), the Southern Wakashan article appears to indicate something closer to specificity, e.g. *qu*?*as*?*i* in (231)a is more accurately translated 'the, a certain one that is a man'. The function of the article is considered in more detail in §7.2.21.

The spirit, if not the letter, of the present analysis of RP structure is anticipated by Sapir (1911a, 1924). The parallelism is somewhat obscured by the fact that, like other writers of the time (cf. Andrade 1933 on Quileute, and Boas 1947 on Kwakwala), Sapir uses the terms "nominal" and "verbal" in reference to kinds of linguistic categories that are today considered distinct; he uses these terms to refer to both lexeme categories (*noun* and *verb*) and logico-syntactic categories (*referring expression* or *noun phrase* and *predicate*). (We leave open here the question of whether Sapir himself recognized such distinctions conceptually.) Making allowance for such terminological conflation, we see the germ of the RPs-as-clauses analysis already in this early statement (Sapir 1911a: 17): "In both [Nuuchahnulth and Kwakwala] the stem is, as far as its meaning allows, indifferently verbal [i.e. able to function as predicate—MD] or nominal [i.e. able to function as a referring expression] and one or more suffixes [clitics] are required to give rise to definitely verbal [predicative] or nominal [referring] complexes; in [Nuuchahnulth] a suffixed [= 2i·] is often used to substantivize [i.e. make referring] a verb [i.e. predicative] form." Likewise, in Sapir (1924: 84, note 9), he says the article is "often used as [a] nominalizing element".

A more straightforward antecedent is found in Jacobsen (1979a, 1993), who refers to "nominalization by the Article of core clauses" (Jacobsen 1993: 256). On the same page he also claims "[The Nuuchahnulth phrase] *turcsme?i* "the woman" ... is formed from *turcsma* "woman" as a nominalized predicate "the one who is a woman", with the identifying value that would be conferred by an English relative clause." Referring to Makah, he (1979a: 122) says: "... [F]orms with *- °iq* contain undercover predications, so that, for instance, *qidirliq* is literally, or at least etymologically, '(the) one that is a dog'." This is close to the present analysis, except I

ogically, '(the) one that is a dog'." This is close to the present analysis, except I would omit the etymological qualification. I claim Southern Wakashan RPs contain predications synchronically, and, moreover, that all RPs (except proper names), even those without the article, are clauses; the article is simply an overt marker of the subordinate syntactic status of RPs as referring expressions.^{60, 61}

An alternative line of analysis takes RP structure to be much like that of an English NP, that is, a phrase consisting of a noun head and optional modifiers (Rose 1981: 39-45, Stonham 1999). I will forego detailed discussion or critique of "standard NP" analyses except to comment that they suffer from two main faults: 1) they fail to account for the clause-RP symmetries we have seen, and 2) they assume the noun is the head of the phrase, but I see no language-internal structural evidence that justifies this assumption (e.g. a noun need not be present, the distribution of the phrase as a whole is not equivalent to the distribution of the noun, etc.).

4.5.2 Root RPs

Simple RPs are the most common way of referring to entities. Another option, however, is to use a "root" RP, i.e. an RP containing a relative root. These RPs are also headless relative clauses, and are structurally similar to questions (§7.2.15-7.2.16). In this construction, a relative pronoun root such as M *yaqa*, N *yaq*, one who, that which' or M q^{wi} , N $q^{wi}q$ 'whoever, whatever' is predicate head with a relative mood clitic and appropriate pronominal clitic attached. Other predicative clitics (e.g. passive-inverse, temporal specifier, tense) appear according to their normal grammatical behavior. Predicates in the phrase other than the initial relative nominal predicate are bare absolutes.

(232) MAKAH a. $yaqa^{\prime}q$ wa^{\prime} $yaq^{w}-a^{\prime}=(q)i$ wa^{\prime} one.who-APPEN=REL.3sg say.PERF 'the one who said it.'

- q^wisi' b. *yaqa*'bit $q^{w}is-i'$ $yaq^{w}-a = (b)it = (q)i$ do.thus-APPEN one.who-APPEN=PAST=REL.3sg 'the one who did it' ?u'wałuk^wit c. yaqe'?itikdu $yaq^{w}-a = it = (q)ik = du$ 2u - owałuk [L] = 'itone.who-APPEN=PINV=REL=1pl so.and.so-look.after=PINV 'the ones who look after us' NUUCHAHNULTH ča kupi h d. *yaqqin* $yaq^w = qar = n$ čakup-i:h [L] one.who=DEF=1pl male-PL 'we (who were) men' (NA 19.8-9) wik *2u'ýiwa*t e. yaqi's $vaq^{w} = (v)iz = s$ wik $2u\dot{v}i-(w)a\lambda$ [L] medicine-find.PERF one.who=INDEF=1sg not 'I who have found no medicine' (RW 79.21) f. $yaq?a'q\lambda i'k$ hini'swahsuł pacsa kum?i $yaq^{w} = 2a:q\lambda = (y)i:=k$ hina-is-wahsu(4) $\dot{p}acsa'kum = ?i'$ one.who=INTENT=INDEF=2sg potlatch.handle=ART empty.root-carry-move.out.PERF 'whichever of you brings the potlatch handle out (of the crowd)' (NA 57.35) g. yaq?a'q^{\lambda}?itq qa'hqa'ha ma'ma'ti?i $yaq^{w} = ?a:q\lambda = ?i:tq$ qah-(y)a [RepR] ma:ma:ti=?ione.who=INTENT=DEF dead-REP bird=ART 'he who would be killing the birds' (NA 13.28-29) h. *ya*²*atuk*²*itq* łu'čmu'p qahsa pat $vaq^{w} = at = uk = 2i tq$ qah-sa'p = 'atłu'čmu'p one.who=PINV=POSS=DEF die-CAUS.PERF=PINV sister 'the one by whom their sister had been killed' (NT 78.16) hi^ta'cinł i. vaqi' *?aya ?i*^t*htu*^p $yaq^{w} = (y)i$ *hita* $-\dot{c}u$ ' $-nu\lambda$ -[IterL] *?aya ?i*' h^{w} –(š)tu'p that.which=INDEF empty.root-in.bay-PERF-ITER many big-thing 'the many whales coming into the bay from time to time' (NA 378.4) j. q^wiqi' šu'wis?a'qħča $\check{s}u$ wis = $?a:q\lambda = \check{c}a$ $q^{w}iq-(v)i$
 - 'what would later be called "shoes" (NA 14.30)

whatever=INDEF

shoes=INTENT=OUOTART

The relative pronoun can function as base to lexical suffixes as any nominal would.⁶²

(233) MAKAH a. $yaq^{w}a'bidaq$ $yaq^{w}-a'-bida [L] = (q)i$ that.which-EPEN-owe=REL.3sg

'debt, what one owes'

b. $ya\dot{q}^{w}i\check{c}ik$ $yaq^{w}-\check{i}\check{c}=(q)ik$ that.which-clothed.in=REL

'your clothes'

c. ya'yaqwatiks yaq^w-wat [LR]=(q)ik=s one.who-friend.of=REL=1sg

'my friend'

NUUCHAHNULTH

d. $yaq^{w}il?a\lambda?itq$ qu'?as $yaq^{w}-'il='a\lambda=?i'tq$ qu'?asone.who-in.house=TEMP=DEF person

'the people in the house' (NA 403.25)

e. $yaqcuq^we?itq$ $yaq^w-cuq-(y)a' = ?i'tq$ that.which-in.mouth=CONT=DEF

'that which is in one's mouth' (NA 72.10)

f. $ya2irs2a\lambda2itq$ $q^{winir2i}$ $yaq^{w-}irs='a\lambda=2irtq$ $q^{winir}=2ir$ that.which-consume=TEMP=DEF gull=ART

'what the gulls ate' (NA 23.50)

g. $yaq^{wi}\cdot iti?itq$ $na\dot{y}aq\dot{p}a\dot{t}u$ $yaq^{w}-(\check{c})i:\dot{t}=(m)it=?i\cdot tq$ $na\dot{y}aq-\dot{p}a\dot{t}u$ that.which-make=PAST=DEF baby-thing

'the cradle she had made' (NT 90.31)

h. $q^{w}i\dot{y}i\dot{h}taqaki'\dot{c}$ tanakmis $q^{w}i-\dot{y}i\dot{h}taq-ak^{w}=(y)i:=\check{c}$ tanakmis whatever-derived.from-DUR=INDEF=QUOT mosquito

'what mosquitoes are made of' (NT, p. 14 title)

i. ya' 2i' hit?itqak $yaq^{w} - i:h$ [L] = (m)it = 2i'tqa = kthat.which-try.to.get=PAST=DEF=2sg 1sg-do.to

'that which you were trying to get from me' (NA 172.5-6)

j. $ya \cdot q^{wi} t^{2} a \lambda^{2} itq$ $yaq^{w} - (\check{c})it$ [L] = $a\lambda = 2i \cdot tq$ that.which-do.to=TEMP=DEF $yaq^{w} - (\check{c})it$ So.and.so=look.after=TEMP

'that which they were looking after' (NA 399.31)

k. yaqchiqas yaq^w-chi=qa'=s one.who-married.to=DEF=1sg 'my wife'

If the entity referred to is not equivalent to the subject of the phrase-internal predication, the relative root must in fact have affixed a verbalizing lexical suffix. The default suffix for this purpose in Makah is -(k)ti:p 'doing to, with reference to ...' and in Nuuchahnulth is $-(\check{c})it$ [L] id., if a suffix with more specific meaning is not available. Compare the meanings of the root RPs in (234) with and without the verbalizing suffix on the relative pronoun:

(234)	a.	NUUCHAHNULTH Root RP with verbalizing suffix		
		$ya^{q}w^{i}it^{2}itq$ $yaq^{w}-(\check{c})it$ [L] = (m) it = 2 i tq one.who-do.to=PAST=DEF	qaḥsa'p qaḥ–sa'p dead–CAUS.PERF	<i>ṫuxšiλ ṫux–šiλ</i> kill.from.hiding–PERF
		'the one he had killed from amb	oush' (NT 88.7)	
	b.	Root RP without verbalizing suffix		

	y sum	
yaqit?itq	qaḥsa'p	ťuxšiλ
$yaq^w = (m)it = 2irtq$	qaḥ–sa'p	ťux–šiλ
one.who=PAST=DEF	dead-CAUS.PERF	kill.from.hiding-PERF
'the one who had kill	ed him from ambu	ısh'

Root RPs can function as stand-alone referring expressions, as we have seen in all the examples so far in this section, but they are often set in apposition to simple RPs to form more complex referring structures. They generally follow apposed simple RPs, but sometimes precede them (235)b. (235) NUUCHAHNULTH

a.

 $2i'\check{c}im?i$ ya^2atqas 2ituqhsat $2i'\check{c}im=?i'$ $yaq^w=`at=qa'=s$ 2itu-q-hsa'=`atold.person=ARTone.who=PINV=DEF=1sgitu-BFR-desire.to.eat=PINV

'the old man who desired to eat my itu bird (lit. by whom I was "itu-desired")' (NA 14.40)

b. $ya aq \lambda im d?itq$ $yaq^{w}-'aq \lambda -(q)im d=?itq$ that.which-inside-over.a.rounded.surface=DEF $ma:ma:ti \lambda ud?i'$ $ma:ma:ti \lambda ud=?i'$ $ju'q\lambda i'tim$ good=ARTdown.feathers

'the fine down that birds have right next to their bodies' (NA 165.28-29)

c. ha?um?i $ya?aq\lambda?itq$ ha?um=?i' $yaq^{w}-'aq\lambda=?i'tq$ food=DEF that.which-inside=DEF

'the inner flesh' (NA 22.10)

d. kuxmin?i $ya^2aq\lambda nuk?itq$ kuxmin=?i $yaq^w-'aq\lambda -nuk=?itq$ rattle=ART that.which-inside-at.hand=DEF

'the rattle in his hand' (NA 260.32-33)

e. 2ahku' $2ayaq\lambda 2i$ ha^2um $ya^2i's^2a\lambda qas$ 2ahku' $2aya-aq\lambda = 2i'$ ha^2um $yaq^{w}-i's = 'a\lambda = qa' = s$ DEM much-inside=ART food that.which-consume=TEMP=DEF=1sg

'this expensive food I am now eating' (NA 83.33-34)

Root RPs can also appear internally to a simple RP (or vice-versa, of course). Example (236) shows root RPs as RP-internal antecedents to the deictic pronoun root 2u- 'so and so', which is base in the derived verb 2u c 'belong to'.

(236)NUUCHAHNULTH a. [?u'c?i' qała tik yaq^w?i'qin]] var qała'tik $yaq^{w} = ?i! = qa' = n$]] [?u-i:c=?i'][ya'][so.and.so-belong.to=ART younger.brother [DEM one.who-get.to.be.at=DEF=1pl]] 'the younger brother of the one we had gone to' (NA 145.45) b. [?u'c?i' yayaq^winkqin ciqi'ta [va'][?u-i:c = ?i']ciq-i'ta [va'] $yaq^{w} - (\check{c})ink^{w}[R] = qa' = n$ [so.and.so-belong.to=ART speak-...er [DEM one.who-contend.with=DEF=1pl ci'ci'?asa hitacsma²aqa]] ciq-'as-(y)a [RepR] hita - (c)sma - 2aqaempty.root-defend-PL]] speak-go.to-REP

'he who had been orator for those with whom we were contending in making

a marriage proposal' (NA 155.47-48)

The derived verb *ci2as* in (236)b literally means 'go to speak', but has narrowed in reference to 'make a marriage proposal'. The context of the sentence involves two rival marriage parties contending for same girl.

In many cases, either a root RP or a simple RP are grammatically possible to refer to a particular entity (237); the parameters governing selection of one structure over the other are unknown.

KIIOWII.

(237)	a.	NUUCHAHNULTH Headless relative with relative root = root RP		
		$hupta'?a\lambda we?in$ $hupt-(y)a' = 'a\lambda = we'?in$ hide-CONT=TEMP=QUOT	[<i>yaq?irtq</i> [<i>yaq^w=?irtq</i> [one.who=DEF	naču?ał] nač–(y)u?ał] see–perceive]
		'The one who had seen him	was in hiding.'	(NT 64.10-11)

b. Headless relative without relative root = "simple RP with article" $hupta^{2}a\lambda we?in$ [$na\check{c}u?a\pounds?i$] $hupt-(y)a^{2}=a\lambda = we?in$ [$na\check{c}-(y)u?a\pounds = 2i^{2}$] hide-CONT=TEMP=QUOT [see-perceive=ART]

'The one who saw him was in hiding.'

The examples thus far in this section were extracted from sentences in which the root RPs

function as subjects or objects. Root RPs, however, can be used independently, as main clauses in

their own right, in deictic identificational utterances:⁶³

(238)	a.	MAKAH yaqa'bitxa'si'šk $yaq^{w}-a'=(b)it=xa:si:s=a:k$ one.who-APPEN=PAST=INFER.1sg=HAB	či baxsup čiP–'axs– jam.in–in.co		PERF
		circiríaqa'λ ciíaq–(y)a [RepR]= 'aλ splash–REP=ТЕМР			
		'I guess I was always the one jammin	g it into the	container an	d splashing.' (II, Dye)
	b.	NUUCHAHNULTH $ya \cdot q^{w}i \hat{t}^{2}a\hat{\lambda}iti\cdot\hat{c}^{2}a\cdot\hat{t}a$ $yaq^{w}-(\hat{c})i\hat{t} [L] = \hat{a}\hat{\lambda} = (m)it = (y)i:=$ that.which-do.to=TEMP=PAST=INDEF=QU		<i>pu'x^wa'</i> <i>pu'x–(y)a'</i> blow–CONT	?uyi ?u–yi so.and.so–at.X.time

ka'pčuksna?a'ł?aħqu'	sa'ya'čapis
$kapčuk-(c)sna?a:t[L] = `a\lambda = qu:$	saya'ča–api [L]–'is
Kapchuk-perform=TEMP=COND	high-in.air-on.beach

'That is what High-Above would blow into when he was staging Kapchuk (i.e. a song and dance belonging to Kapchuk.' (NA 161.2-3)

c. $ya \cdot q^{w}i \hat{t}^{2}a \hat{\lambda}^{2}itq$ $yu \cdot \hat{t}u^{2}i\hat{t}^{2}at\hat{h}$ $\hat{\lambda}^{i}q\dot{w}anu\dot{p}a\hat{\lambda}$ $yaq^{w}-(\check{c})i\hat{t}$ [L] = ' $a\hat{\lambda}$ = ? $i\cdot tq$ $yu\cdot \hat{t}u^{2}i\hat{t}^{2}at\hat{h}$ $\hat{\lambda}^{i}q-\dot{w}an-up$ = ' $a\hat{\lambda}$ that.which-do.to=TEMP=DEF Ucluelet undone-in.middle-CAUS.PERF=TEMP 'This the Helpelete untied '(NA 204 22 24)

'This the Ucluelets untied.' (NA 394.33-34)

d. $yaa\lambda iti'\dot{c}$ $yaq^w = 'a\lambda = (m)it = (y)i: = \check{c}$ that.which=TEMP=PAST=INDEF=QUOT $k^wa-\check{c}i\lambda$ $q^wiyi = (y)i: = \check{c}$ break.in.two-PERF when=INDEF=QUOT

k ^w acstiv4?aλuk	mahti
$\dot{k}^{w}a - (c)sta' - it = a\lambda = uk$	maĥťi
break.in.two-move.down.into.PERF-in.house=TEMP=POSS	house

'That is the one that broke in two when his house collapsed at the roof opening.' (NA 170.28)

e.	yaqći'łḥ?aħqas	?aḥ	?inkči'ł?aṗaħ
	$yaq^{w}-\dot{c}i\cdot\dot{h}=\dot{a}\lambda=qa\cdot=s$?aḥ	$?ink^{w}-\check{c}i-\check{i}i!=`ap=`a\lambda$
	that.which-use.as.fuel=TEMP=DEF=1sg	DEM	fire-at-in.house=CAUS=TEMP

su'tił sut–(č)ił [L] 2sg–do.to

'That is what I am now burning while I have you by the fire.' (NA 298.14-15)

f. ?ah $ya?a\lambda qas$?ah $yaq^{w} = 'a\lambda = qa' = s$ DEM one.who=TEMP=DEF=1sg

'That is who I am.' (NA 322.3)

4.6 Complex constructions

Complex (i.e. multiple-predicate) constructions, which we continue our discussion of in this section, are very frequent in Southern Wakashan and classifying them into a definitive set of types is far from straightforward. Rose (1981), Jacobsen (1993), and Nakayama (1997a) provide three alternative views of how to divide up the pie. I make a few comments below on differences among the various schemes, but a comprehensive evaluation of them is a task for the future. The main area of difference is the status of different kinds of absolute predicates.

The difficulty in classifying multi-predicate constructions arises mostly from the scarce marking of grammatical relationships between words and clauses. The analyst is often left attempting to differentiate constructions by subtle and sometimes apparently statistical behavioral characteristics of uncertain grammatical significance. Jacobsen (1993: 239-40) provides a useful summary of the analytic problems one encounters.

Keeping the preceding caveat in mind, I recognize the following types of clauses in complex constructions: the referring phrases described in §4.5 (i.e. "nominalized" clauses), adverbial clauses (§4.6.1), and complement clauses (§4.6.2).

4.6.1 Adverbial clauses

4.6.1.1 Bare absolute constructions

An exceedingly common sentence-building device in Southern Wakashan is to introduce one or more bare absolute predicates into a sentence with an adverbial function. These elaborate on, expand, or modify the meaning of the main predicate. Subjects must be coreferential.

(239)		МАКАН	,	
	a.	ba <i>ħi</i> 'ksalał	wałsa'p	
		$ba\lambda - i:ks = a\lambda = ak$	wał–sa:p	
		tie-bring.along=TEMP=3pl	go.home-CAUS.PERF	
		main	bare absolute	
		'They tow it home.' (Wh	aling)	
	b.	NUUCHAHNULTH mamu'k ^w aλni wi	'tacsaci'ł	

b. $mamu'k^{w}a\lambda ni$ witacsacit $mamu'k = 'a\lambda = ni'$ wita-(c)sac-(č)it [L] work=TEMP=1sg war.party-container.for-make main bare absolute 'We were working making war canoes.' (based on NA 358.39) c. $\lambda icim \frac{1}{2}a\lambda hsuk$ $\lambda ic-(q)im \frac{1}{2} = a\lambda = h = su'k$ white-over.rounded.surface=TEMP=SUBOR=2sg main 'You are covered with ocean spray (lit. white all over) as you run.' (NA 141.30)

Bare absolute constructions are a favorite sentence type, and used for a wide variety of expressive purposes. One frequently finds sentences composed of two transitive predicates in which one predicate expresses something of the specific manner or type of action affecting the object while the other expresses the general relation of subject to object. The general relation is often coded by a verbalizing lexical suffix. For example, in the Nuuchahnulth examples in (240) we see the following distribution of meanings between predicates:

	Specific Manner/Type of Action		General Relation of Participants					
(240)a	verb root $\dot{p}a$ - 'give a gift in a potlatch'		verba	alizing	g suffix <i>-ayi</i> ' 'gi	ve (perf.)'		
(240)b	ve	rbalizing suffix -i:s 'carryi	ing'		verba	alizing	g suffix -(č)ił [L]] 'doing to'
(240)c	vei	rb ha?uk 'eating'			verba	alizing	g suffix - 'i's 'con	nsuming'
(240)	-		$mi:h$ $2uyi:2a\lambda$ $qica:t$ $a-i:h$ $2u-ayi:=i\lambda$ $qica:t$ -PLso.and.so-give.PERF=TEMPcalicobare absolute			qicarl		
	b. $hini \cdot smis ?a\lambda e?ic$ $hin-i:s-mi \cdot s = `a\lambda = (m)a' = ?ic$ empty.root-carry-move.about.beach=TEMP= main 'You are taking us along the beach, O C			-	bare absolute	<i>ḥaweɬ</i> <i>ḥawiŧ</i> chief.voc		
	c.	?u?i's?aλ ?u-'i's-'aλ so.and.so-consume-TEMP main	<i>ha?ui</i> eat bare ab	k t solute	anuho anuho vorm.v	ćup		

'What she ate was worm-wood.' (NT 68.18)

The semantic patterns are sometimes easier to see with literal translations, e.g.

(240)a: 'She gave [relation] the women calico by potlatching [manner of action] it to them'

(240)d: 'She was consuming [relation] worm-wood by eating [manner of action] it'.⁶⁴

Instrumentals, locations, and other adjunct participants can be introduced into a sentence with a bare absolute construction (241). Note that here, unlike the construction in (240), the objects of the transitive predicates in (241)b-d are not co-referential. (The locative RP in (241)e *maḥtir?i* 'the house' is not an object, but rather an oblique in construction with *hitaqsu?asḥ* 'while there in front (of)'.)

(241)	a.	MAKAH $ci^{*}qc^{*}qaqeyu^{*}$ $2u^{2}uk^{w}iduk$ $\hat{\lambda}isi^{*}\dot{q}^{2}awiq$ $ciq^{-}(y)a [RepR] = qeyu = a^{*}$ $2u^{-}(k^{w})iduk [R]$ $\hat{\lambda}isi^{*}\dot{q}a^{-}2ak^{w} = iq$ speak-REP=COND.3sg=3pl so.and.so-speak.with bare absolute daylight-DUR=ART
		hita?a [,] čiŧ hita-?a:čiŧ empty.root–in.sky
		' when they are speaking with the Daylight in the sky.' (Whaling)
	b.	hidayupwa'dči buqxwa'łhida-ayup = wa:dačibuq-xwa'ł [L+S]empty.root-catch.PERF=QUOT.3sghalibut.hook-usemainbare absolute'He caught it with a halibut hook.'
	c.	NUUCHAHNULTH $\lambda i c i i 2 a \lambda m a$ $2u h w a i p u$ $\lambda i - c i \lambda = 'a \lambda = m a$ $2u - h w a i [L] p u$ shoot-PERF=TEMP=INDIC so and so-use gun main bare absolute 'He shot it with a gun.'
	d.	$2u \cdot h \dot{w} inkck^{w}i$ $2ink^{w}i \cdot t$ $pu \cdot 2ak?i$ $2iya \cdot tqi?a$ $2u - h \dot{w} ink^{w}$ [L]- $ck^{w}i$ $2ink^{w} - (\check{c})i \cdot t$ $pu \cdot = 2ak = 2i$ $2iya \cdot t-qi'$ so.and.so-use-havingedfire-make $gun=POSS=ART$ plume-on.top-on.rocksmainbare absolute'Plumed-Head (man's name) had used his gun in making fire.' (NA 405.35-36)
	e.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

Finally, nominals can function in main predicates followed by various types of verbal abso-

'They whooped again in front of the house.' (NT 88.3)

lutes.

(242)	a.	MAKAH $2u'\check{s}xu'\check{x}a\check{\lambda}'i\check{c}ke$ $2u'\check{s}-u'-(\check{x})\check{x}='a\check{\lambda}='i\check{c}=ke:$ someone–APPEN–while=TEMP=IMPER.2pl=ADVIS main 'Some one of you speak!' (HW, Louse)	ciqšiλ ciq—šiλ E speak—PERF bare absolute
	b	NUUCHAHNULTH $2ana\cdot\lambda ah$ $2una\cdotk$ $2ana = 'a\lambda = (m)a = ah$ $2u - na\cdotk^w$ only=TEMP=INDIC=1sg so.and.so-have main bare absolute 'I alone own the hoop-game.' (NA 165.47)	nu't-ýak ^w
	c.	$2aya^{\lambda}ma$ $hinatši\lambda$ $2aya = 'a\lambda = ma'$ $hina-at-ši\lambda$ many=TEMP=INDICempty.root-arrive-PERFmainbare absolute'Many now have come seeking a wife.' (NT	woman-try.to.obtain-moving.on.ground bare absolute
	d.	$ha\dot{w}ilitwe?in$ $ta\dot{n}anak$ $harbourneha\dot{w}il = (m)it = we?inta\dot{n}a - nark^wharbournechief=PAST=QUOTchild-haveyournemainbare absolute'There was a chief who had as child a daught$	$k^{w}a\cdot\lambda = uk$ ng.girl=POSS

This construction is not as obviously adverbial as earlier examples in this section, but is included here for completeness.

Nakayama (1997a: 115ff) can be consulted for more examples of the meanings expressed by bare absolute constructions in Nuuchahnulth.⁶⁵ Note, however, that he defines the construction semantically⁶⁶ rather than structurally as I have, and the two definitions do not pick out exactly the same set of exemplars, e.g. I consider (243) a bare complement construction (§4.6.2.1) rather than absolute adverbial (or serialization, in his terms) because the roles of the two predicates appear not to be permutable (§4.6.2):

(243) NUUCHAHNULTH qirs walyu' qir=s wal-yu'long.time=1sg go.home-having...-ed

'For a long time I stayed home.' (Ahousaht dialect; Nakayama 1997a: 199, ex. 177; I have modified his morpheme transcriptions and glosses for consistency with those in this dissertation)

Compare (243) with (251) below.

4.6.1.2 Mood-marked adverbial clauses

In addition to the bare absolute adverbials in §4.6.1.1, Southern Wakashan can form various types of mood-marked adverbial clauses with the Purposive, Conditional, and Subordinate moods. This section shows a sampling of the possibilities. More examples can be found in the discussion of the individual moods in Chapter 7.

(244)**Purpose clause** a. NUUCHAHNULTH [Âuša'?ake'?icu' hatha nahtu?ič $ha\dot{n}ah-tu\lambda - \langle t \rangle [R+L] = i\dot{v}\dot{c} [\dot{\lambda}u\dot{s}-(v)a' = iak =$ [dry-CONT=POSS=PURP=2pl naked-PERF-<PL>=IMPER.2pl yaya'q^w?ič]... $[R+L]-yaq^{w}-?i\check{c}]$ PL-that.which-clothed.in] 'Undress so your clothes can dry.' (NA 444.26) **Conditional clause** b. макан bak^wa'⁴eyiks [hidi'qeysi's ta'la] [hida-i'=qey=si:s]ta'la'] $bak^{w}a! = eyik = s$ [empty.root-give.PERF=COND=2sg/1sg money] buy=FUT=INDIC.1sg

'If you give me money, I will buy it.'

c. NUUCHAHNULTH

 $\begin{array}{ll} \dots caqsa^{*}\dot{p}a^{*}\dot{h}ita\dot{h} & su^{*}ti\dot{t}\\ caq-sa^{*}p='a\dot{h}=(m)it=(m)a^{*}=a\dot{h} & sut-(\check{c})i\dot{t} \ [L]\\ \text{on.end-CAUS.PERF=IRR=PAST=INDIC=1sg} & 2sg-do.to \end{array}$

 $[q^{w}amihsimtqu's]...$ $[q^{w}a-mihsa = (m)it = qu:=s]$ [thus-want.to=PAST=COND=1sg]

'I would have set you on end, if I had wanted to do so.' (NT 88.26)

Causal clause

d. макан

q^{w} isi' bits	[?u'du'ħ	wi?ibaxsi]
$q^{w}is-ir=(b)it=s$	[?u–a'du:λ	wi?iba = x = sir]
do.thus-APPEN=PAST=INDIC.1sg	[so.and.so-because.of	angry=SUBOR=1sg]

'I did it because I was angry.'

e.	NUUCHAHNULTH			
	<i>λ̃i</i> win?aṗat	<i>k^walsic</i>	[?ani	qa'ya'panačqa]
	$\hat{\chi}i'\dot{w}in = ap = at$	$\dot{k}^{w}alsic$	[?ani	qaya'-panač[L] = qa']
	laughing.stock=CAUS=PINV	Kwalisits	[SUBOR	drift-move.about.at.random=SUBOR]
	'Kwalisits was laughed at	because he	was drift	ting about aimlessly.' (RW 77.16-17)

4.6.2 Complement constructions

Complement clauses fill a (semantic) argument slot of a higher complement-taking (CT) predicate head. It is unclear whether complement clauses have grammatical relations with matrix predicate heads (i.e. function as subjects or objects) as well, or are simply oblique constituents of some sort. Southern Wakashan has both bare absolute and mood-marked complement clauses.

The essential structural difference between a complement construction and an adverbial construction is that, in the former construction, the roles of the two clauses are not permutable, while, in the latter construction, they are. That is, only (245)a is grammatical; the complement-taking word *wik-*, *wikir* 'not' must be the initial, subject-marked, predicate head:

(245) MAKAH a. $wi\dot{k}a\lambda its$ $his \dot{s}i\lambda$ $wik = 'a\lambda = (b)it = s$ $his - \dot{s}i\lambda$ not=TEMP=PAST=INDIC.1sg strike-PERF 'I did not chop it.'

b. *hisš?aλits wiki'

However, when two clauses are in an adverbial relation, either may be the initial predicate:

(246) MAKAH a. $his \check{s} ?a \lambda its$ $?u \dot{x} u war i$ his i yaks is $his -\check{s} i \lambda = 'a \lambda = (b)it = s$ $?u - \dot{x} war i$ [L+S] $his - i - yak^w = sis$ strike-PERF=TEMP=PAST=INDIC.1sg so.and.so-use strike-EPEN-thing.for=POSS.1sg 'I chopped it with my axe'

b. ?u'xuwa'łatits hisšit hisi'yaksis

(Note that (246)a is the unmarked construction; the variant in (246)b adds emphasis to the iden-

tity of the instrument: 'I chopped it with my axe'.)

4.6.2.1 Bare absolute complements

A bare absolute complement clause always follows the matrix clause. An expressed RP subject can either precede or follow the complement predicate. The subject of the complement predicate must be co-referential to that of the matrix.

(247) NUUCHAHNULTH $nasakši?a\lambda si$ $hitachin\lambda?a q\lambda$ wa ki ta?uq $nas.-ak^{w}-ši\lambda = 'a\lambda = si$ $hita-chi-nu\lambda = ?a:q\lambda$ wa ki ta?uqtry.in.vain-DUR-PERF=TEMP=1sg empty.root-married.to-PERF=INTENT matrix predicate complement predicate 'I tried in vain to marry Purple-Woman.' (based on NA 411.8)

Some examples of CT roots that take bare complements:

Negative roots, e.g. M wikir, N wik 'not', M wirya, N wirya 'never', M yubuł, N wimarqh 'un-

able to'

(248)		MAKAH wi ke' ?isid wi $k-'e:$?is = id not-going.to=INDIC.1pl waha'k ^w go.PERF 'We are not going to go.'
	b.	wi'yadwa'xu'wi'ya-idwa'xu'never-INDIC.1plsay.PERFDEM'We don't say that.'
	c.	yubułsi cux hak ^w iłiya yubuł = si:cux hak ^w ił-iya: not.able=INDIC.1sg/2sg borrow-give.PERF 'I can't loan you (money).'
	d.	NUUCHAHNULTH wika $\lambda qurs$ we?ič ?athir wik= 'a $\lambda = qurs$ we?ič ?athir not=TEMP=COND=1sg sleep night 'I did not sleep nights.' (NT 140.10)
	e.	wirýama huryarł wirýa = mar huryarł never=INDIC dance 'He never danced.' (NA 233.47)

f. $wima'q\lambda e?ic$ $\lambda uyači\lambda...$ $wima'q\lambda = (m)a' = ?ic$ $\lambda u - 'ači\lambda$ unable=INDIC=2sg good-INCEP 'You cannot become pretty.' (NT 94.20)

Phasal roots, e.g. M hiyur, N hawir hawir hawir finish, stop ...-ing', 2acit- 'persist in ...-ing'

(249)

a. $hiyu' 2a\lambda s$ basket*i'* $hiyu' = a\lambda s$ basket- $(k^{w})i:t$ stop=TEMP=INDIC.1sg basket-make

'I stopped making baskets.' (KH)

NUUCHAHNULTH

b. $hawir?a\lambda$ 2ihak 4ucsme?i $hawir='a\lambda$ $2ih=ak^{w}$ 4ucsma=2irstop=TEMP cry=DUR woman=ART

'The woman stopped crying.' (NT 60.22)

c. ...? $a\dot{c}ita$ wawa' ?ani $q^waya\dot{c}i'kmatakqa$? $a\dot{c}it-(y)a'wa'$?ani $q^waya\dot{c}i:k-matak=qa'$ persist-CONT say.DUR SUBOR wolf-probably=SUBOR

'He persisted in saying it (the sound they heard) was probably wolves.' (NA 396.36)

Phasal CT morphemes can impose aspectual requirements on lower predicate heads, e.g. complements to *hawi*^{*i*} and *2aċiła* must be imperfective. Complements of other classes of CT roots are apparently aspectually independent. Note that *2ani q^wayaċi*^{*i*}*kmatakqa* 'that it was probably wolves' in (249)b is a mood-marked complement clause (§4.6.2.2).

Psych-cognition roots, e.g. M huxtak^w, N huhtak^w 'know how to', M dapa'k^w, N 2apa'k^w 'will-

ing to', M, N pus- 'tired of', M tu'x-, N tuh- 'afraid to'

(250)	a.	MAKAH $huxtakš?a\lambda its$ $huxtak^w-ši\lambda = 'a\lambda =$ know.how-PERF=TEMP		babuyak babuyak ^w work
		'I learned how to wor	rk.' (IW)	
	b.	<i>pusaks</i>	wiwikyuk	

 $\dot{p}us-ak^w=s$ wik-yuk [R] tired-DUR=INDIC.1sg nothing-do

'I'm tired of doing nothing.'

C.	nuuchahnulth <i>huhtakši?a</i> λ	ma'ma'ti?i	ka∙k	wa'
•.	$huhtak^{w}-\check{s}i\lambda = a\lambda$	maːmaˈti = ʔi′		
	know.how-PERF=TEMP	bird=ART	kaak	say

'The bird had learned to say "kaak".' (NT 60.3)

d. ...2apa'kin huti'ta... 2apa'k^w=(m)a'=ni hut-i'ta... willing=INDIC=1pl dance-...er

'We are willing to be (her) dancers.' (NT 124.2)

e. $\check{c}u'$ $\dot{p}us\check{s}i\hat{r}a\lambda ah$ $siqa'\hat{r}ap$ $ha\hat{r}um...$ $\check{c}u'$ $\dot{p}us-\check{s}i\lambda = `a\lambda = (m)a' = ah$ siq-(y)a' = `ap $ha\hat{r}um...$ DISC tired-PERF=TEMP=INDIC=1sg cook-CONT=CAUS food...

'Well, I am tired of cooking food.' (NA 83.4)

d.	tu ḥukʷaħ	wi'ne?i	λirḥk ^w aýirḥšiλik
	$tuh-uk=a\lambda$	wi'na=?i'	$\lambda i \cdot h - k^{w} a \dot{y} i \cdot h $ [L]- $\check{s} i \lambda = (y) i k$
	afraid-DUR=TEMP	war.party=ART	paddle-pursue-PERF=IRR.FUT

'The war party was afraid to paddle after him.' (NA 399.12)

Temporal roots, e.g. M, N qir 'for a long time' or derived words with suffixes like M -čeyał, N

-čirł 'for ... days', M, N -pit '... times'

(251) MAKAH
a.
$$qi'?ališ$$
 $ci'qci'q$
 $qi' = 'a\lambda = `iš$ $ciq-(y)a$

 $qi' = a\lambda = i\delta$ long.time=TEMP=ASSER.3sg speak-REP

'He/she is speaking for such a long time.'

NUUCHAHNULTH b. $qir?a\lambda it\check{c}asi\check{s}$ we?ič... $qir = 'a\lambda = (m)it = \check{c}arsi\check{s}$ we?ič long.time=TEMP=PAST=INFERI.1sg sleep

'Evidently I have been a long time sleeping.' (NT 40.24)

C.	mu'či'ł?aλ	hił	nuči'?i
	$mu'-\check{c}i'\dot{t}=\dot{a}\lambda$	hił	nuči' = ?i'
	four-for.X.many.days=TEMP	there	mountain=ART

'He was four days on the mountain.' (NT 102.11)

4.6.2.2 Mood-marked complements

Mood-marked complements occur in either the Subordinate or the Conditional moods with the difference between them more or less corresponding to the difference between actual (or realis) and potential (or irrealis) modalities. In Nuuchahnulth, Subordinate complements are often introduced by the subordinate modal particle *?ani* 'that; because', and Conditional complements by *?uyi*, in origin a derived word meaning 'at so-and-so time' but now essentially grammaticalized (in this construction, at least) as a temporal-conditional complementizer. Makah does not have *?ani*. It is not known whether the Makah analogue of the Nuuchahnulth temporal-conditional complementizer (*?uyu*) occurs with Conditional complements, but it seems likely.

(252)	a.	Subordinate mood complementsMAKAHkabaťapxad?awičiqkabaťapxad?awičiqkabať = 'apxad?ak ^w = °ič = °iqknown=CAUSgirl=DIM=ARTempty.root-look.for-PERF=FUT=PINV=SUBOR.3sg				
		takya'yu?u'c takya'yu = 'u:c eldest.brother=POSS.3sg				
		'The girl knew that she would be sought by her brother.' (HW)				
	b.	NUUCHAHNULTH $2uq^{ar}pa\lambda$ $2uq^{wit}ukqa$ $čakup$ $2uq^{tar}p = a\lambda$ $2uq^{-t}it = uk = qar$ $čakup$ think=TEMP urinate-in.house=POSS=SUBOR man				
		'She thought that her husband was wetting himself.' (NT 23.1)				
	c.	$2i \cdot qhuk^w a\lambda si$ $2anis$ $suk^w i 2a\lambda$ $nayaqak 2i$ $2i \cdot qh = uk = 'a\lambda = si$ $2ani = s$ $su-k^w i\lambda = 'a\lambda$ $nayaq-ak^w = 2i$ tell-DUR=TEMP=1sgSUBOR=1sghold-PERF=TEMPchild-DUR=ART				
		'I told them that I accepted the child.' (NT 132.29)				
	d.	$2u \cdot ca \cdot htaksa$ $ha \cdot si \cdot \dot{c} \cdot \dot{\lambda}$ $2ani$ $ha \cdot \dot{w} \cdot \dot{r} \cdot 2atuk$ $2um 2i \cdot qsak$ $2u \cdot ca \cdot htaksa$ $ha \dot{s} \cdot \dot{t} - \dot{t} \cdot \dot{c} \cdot \dot{\lambda}$ $2ani$ $ha \dot{w} a - \dot{t} \cdot \dot{\lambda} [L] = \dot{a} t = uk$ $2um 2i \cdot qsu = 2ak$ thenknow-INCEPSUBOReat-get.PERF=PINV=POSSmother=POSS				

k^watya't k^watya't Kwatyat

'Now then Kwatyat found out that his mother had been swallowed.' (NT 35.3)

(253) Conditional mood complements

MAKAH

a.

wi [,] dačs	wiki'qey	λułu'wiλ
wi [,] dač=s	wik - i' = qeyu	λuł–u'wiλ
afraid=INDIC.1sg	not-APPEN=COND.3sg	well-INCEP

'I am afraid he won't get well.' (HW)

NUUCHAHNULTH

b. $\dot{t}apat\dot{s}i\hat{r}a\lambda we\hat{r}in$ $\dot{t}apat-\dot{s}i\lambda = 'a\lambda = we'\hat{r}in$ $\dot{h}a'k^wa'\lambda = \hat{r}i'$ $\dot{h}a'k^wa'\lambda = \hat{r}i'$ $\dot{w}at-\dot{s}i\lambda = 'a\lambda = qu:$ $\dot{g}irl=ART$ go.home-PERF=TEMP=COND

'The girl decided she would go home.' (NT 72.13)

c.	tu huk	<i>?uyi</i>	qahsa'patqu'
	tuḥ–uk	?u–yi	qah-sap = 'at = qu:
	afraid–DUR	so.and.so-at.X.time	dead-CAUS.PERF=PINV=COND

'They were afraid they might be killed.' (based on NA 371.20)

d. $wa'?a\lambda ma$?uyi $ku\dot{w}itapqun$ $wa' = 'a\lambda = ma'$?u-yi $ku\dot{h}^{w}-'itap = qu: = n$ say=TEMP=INDIC so.and.so-at.X.time open-on.ground.CAUS.PERF=COND=1pl

ma?asuk $\hat{\lambda}i$ '?ixim...ma?as=uk $\hat{\lambda}i$ '?iximhouse=POSSJack.Simpson

'It said we should open Jack Simpson's house.' (NA 267.9)

5 Topics in Word Structure

5.1 Formal structure

According to a traditional morphological classification of languages,⁶⁷ Southern Wakashan is a classic example of a language family with polysynthetic word structure. Though definitions vary, a major criterion for polysynthetic status in most accounts is a high average number of morphemes per word. An important corollary is that a significant portion of these must be "lexical", rather than grammatical in nature; that is, they should have meanings typically expressed by independent lexical items in other languages. These morphemes might include incorporated nouns and adverbs, or semantically rich affixes like locative suffixes. Such features permit polysynthetic languages to have words with complex internal structure that often correspond semantically to entire sentences in less morphologically elaborate languages.⁶⁸ True to type, words in Southern Wakashan can be internally complex with numerous morphemes and multiple hierarchic levels of structure packed into a single derivative.⁶⁹

Southern Wakashan word structure can be described by the diagram in Figure 2, a more detailed version of Figure 1 given previously in Chapter 4.⁷⁰ The major structural division falls between the unextended word (base + suffixes) and the extended word level (unextended word + clitics). Important formal differences exist between the two. The sequence of clitics has template-like organization with a fixed number of slots, flat structure, strict requirements on linear order of

base	core suffixes	aspect	- peripheral suffixes	aspect	clitic sequence
	unextended wo	rd			

Figure 2. Word structure

elements, and other templatic characteristics described in Chapter 7. In contrast, there is no limit in principle to the number of suffixes that can be added to a base, and the order of suffixes can often be changed to produce changes in meaning, as demonstrated by the following example set from Swadesh (1939: 86):

- (254) NUUCHAHNULTH a. $\lambda u \dot{y} i s c k^w i$ $\lambda u s - i s - c k^w i$ herring-consume-remains.of 'left-overs from eating herring'
 - λusck^wi?is
 λus-ck^wi-q-'i's
 herring-remains.of-BFR-consume
 'eating left-overs of herring'

This open-ended "stacking" of suffixes creates layered structure rather than flat, slot-based structure with a fixed number of affix positions. The remainder of this section describes these formal aspects of unextended word structure further. Use of clitics has been briefly described in §4.3 and is more fully covered in Chapter 7.

An unextended word is formed by a base plus (core) lexical suffixes plus aspectual morphemes. (Expanded unextended words and the core/peripheral suffix distinction are discussed below.) Words can have aspectual value with no overt aspectual formative if their final morpheme (root or lexical suffix) has inherent aspectual force. Anticipating more detailed discussion of suffix types in §5.3, we find two basic types of lexical suffix: <u>nuclear</u> suffixes (nominalizing, verbalizing suffixes, etc.), which determine the word class of the resultant word (§5.4), and <u>restrictive</u> suffixes, which merely modify the meaning of the base without necessarily altering its word class (§5.5). From these definitions we derive two principles of Southern Wakashan word formation:

- i. The category of a nuclear suffix becomes the category of the resultant word.⁷¹
- ii. Restrictive suffixes do not necessarily determine the category of the resultant word.

Consider, for example, the Makah verb $\dot{q}idi^{\lambda}\lambda^{i}ks$ 'bringing a dog' in (255)a and the noun $\dot{q}idi^{\lambda}\lambda^{i}lit$ 'big dog' in (255)b.

(255) макан

a. $\dot{q}idi\cdot\dot{\lambda}i\cdot ksi\cdot k$ $\dot{l}uca\dot{c}i\dot{\lambda}$ $\dot{h}ida\cdot q\dot{\lambda}asiq$ $\dot{q}idi\cdot\dot{\lambda}-iks = \hat{i} = ak$ $\hat{l}u-ca-\dot{c}i\dot{\lambda}$ $\dot{h}ida-\dot{a}\cdot q\dot{\lambda}as = \hat{i}q$ dog-bring=INDIC.3sg=HAB so.and.so-go.to-PERF empty.root-in.woods=ART 'He/she always goes to the woods with a dog.'

- b. qidi λł?itwa d qidi λ-(k)ł?it = wa:da dog-big=QUOT.3sg
 - 'They say it is a big dog.'

Based on the principles in i. and ii., the two words could be represented in tree form, as in (256)a, or by labeled bracketing, as in (256)b (V = verb, N = noun).



```
b. [[\dot{q}idi'\lambda]_{N} - iks_{V}]_{V} \quad [\dot{q}idi'\lambda_{N} - (k)\dot{t}it]_{N}
```

The nuclear verbalizing suffix -*i:ks* 'bringing, carrying...' attached to the noun $\dot{q}idi\cdot\lambda$ 'dog' produces a verb, while the restrictive suffix -(k)?*it* 'big; very' attached to the same noun leaves a noun. Attaching -(k)?*it* to a verb would likewise leave a verb: ha?uk-?*it* 'eat a lot' (ha?uk 'eat').

The number of lexical suffixes a level of hierarchical structure may contain depends on the type of suffix. One nuclear suffix may appear per level of word structure. Examples (257) and (258) show derived words containing a single nuclear suffix; (257)a and (258)a are nouns, and (257)b and (258)b-d are verbs.

- (257) MAKAH a. $\check{c}atturp$ $\check{c}at-(k)turp$ paint-thing 'paint, dye'
 - b. *če?i'ks ča-'i'ks* water-consume

'drinking water'

- (258) NUUCHAHNULTH a. $pa \check{c} ak$ $pa - \check{c} ak^w$ give.gift.in.potlatch-thing.for 'potlatch gift'
 - b. hunqsimč hu'ńi-q-simč [L] drift.whale-BFR-perform.ritual.for

'performing a ritual for (bringing in) drift-whales'

c. naýaqi[,]ł naýaq–(č)i:ł baby–make

'delivering (lit. making) a baby'

d. *λ̂imšyu λ̂imš-yu* boil-having.been
 'boiled'

Addition of another nuclear suffix creates a new level of structure. Any number of nuclear suffixes may be so added, each creating a new word which may then serve as base for further derivation. This is essentially a restatement of Swadesh's (1939: 85) generalization that "[when] a series of [nuclear] suffixes are added to a [base], each successive suffix makes a new [word] which serves as the underlying [base] for the next suffix." The following rewrite rule captures this generalization:

(259)
$$\operatorname{Word}_{\alpha} \to \operatorname{Base} + \operatorname{Nuc}_{\alpha}$$

(259) states that a word of category alpha (i.e. noun, verb, etc.) consists of a base of any category plus a nuclear suffix of category alpha (i.e. nominalizing, verbalizing, etc.). This rule is recursive; successive applications of it can add any number of nuclear suffixes, although more than three is rare in a given word. Multiple suffixes of the same category can be added in succession, or, as more frequently occurs, the category can change with each suffix.

The phrases and sentences in (260) and (261) each contain derived words with multiple nuclear suffixes. The word in question is repeated below the example's translation with labeled bracketing to show its constituent structure; buffer consonants (§5.2.2) and indications of CV template associations are omitted from the bracketed representations to faciliate readability. (Vroot = bound verb root, Nroot = bound noun root).

(260) MAKAH a. $\dot{c}a'ttupi'yikbe'q\lambda xa's$ $\dot{c}at-(k)tu'p-(k'')i:t$ [L+S]-'ik-be: $q\lambda = xa:s$ paint-thing-make-expert.at-want.to=INFER.3sg

'Apparently she wants to be an expert at dyeing straw.'

 $[[[[[\acute{c}at]_{V \text{ root}}-(k)tu'p_N]_N-(k'')i!d_V]_V-'ik_N]_N-be!q\lambda_V]_V$

verb: 'want to be an expert at dyeing straw'

b. $wi'ka\lambda s$ $\dot{c}e?i'ksyaksis$ $wik-(w)a\lambda$ [L] = s $\dot{c}a-'i'ks-yak^w=sis$ not-find=INDIC.1sg water-consume-thing=POSS.1sg 'I can't find my cup.'

 $\left[\left[\left[\dot{c}a\right]_{Nroot}-\dot{i}ks_{V}\right]_{V}-vak_{N}^{w}\right]_{N}$

noun: 'thing for consuming water'

The Nuuchahnulth verbalizing suffix -(c)sma2aqa in (261)a actually consists of the verbalizing suffix -(c)sma 'defending ...' plus the restrictive plural suffix -2aqa (§5.5.4), but the combination may be treated as a single nuclear suffix for our purposes, since it is now more or less lexicalized to mean 'fighting over, competing in...' (as in *ciq-sma2aqa* 'competing in oratory', *hawa-csma2aqa* 'fighting to eat', etc.).
(261) NUUCHAHNULTH a. *?ah nu'k*

?aḥ	nu'k	jačaksma2aqajak
?aḥ	nu'k	pa–čak ^w –(c)sma2aqa–yak ^w
DEM	song	give.gift.in.potlatch-thing.for-fight.over-thing.for
'this g	gift-scra	mble song' (NA 57.27)

 $[[[\dot{p}a]_{V \text{ root}} - \dot{c}ak^{w}_{N}]_{N} - (c)sma^{2}aqa_{V}]_{V} - \dot{y}ak^{w}_{N}]_{N}$

noun: 'thing for (when) fighting over potlatch gifts'

b. $2una^{k}si\lambda a^{k}$ $na^{k}y^{a}qi^{k}sim\check{c}yak...$ $2u-na^{k}w^{w}=si^{k}=\lambda a^{k}$ $nay^{a}q-(\check{c})i^{k}t-sim\check{c}$ [L]- $y^{k}ak^{w}$ so.and.so-have=1sg=also baby-make-do.ritual.for-thing.for

'I also have a ritual for delivering babies.' (NT 190.3)

 $[[[nayaq]_{Nroot} - (\check{c})i: !_V]_V - sim\check{c}_V]_V - \check{y}ak^w_N]_N$

noun: 'thing (i.e. ritual) for delivering babies'

c. ...wi'ca'ka'hitqas wi'ca'k='a:h=(m)it=qa'=s hesitant=IRR=PAST=SUBOR=1sg

 $\begin{array}{ll} \hat{\lambda}im \dot{s}ya \dot{r}isita \dot{r}i\lambda & si \dot{h}it... \\ \hat{\lambda}im \dot{s}-yu'-q-\dot{i}rs-irta-q-\dot{r}i\lambda \ [L] & si \dot{h}^w-(\check{c})it \ [L] \\ \text{boil-having.been-BFR-consume-one.who-BFR-invite.PERF} & 2pl-do.to \end{array}$

"... for I would have been hesitant about inviting you to come and eat boiled food." (NT 198.25-26)

 $[[[[[\lambda im \check{s}]_{V \text{ root}} - yu'_{V}]_{V} - i's_{V}]_{V} - i'ta_{N}]_{N} - i\lambda_{V}]_{V}$

verb: 'invite sb to be an eater of boiled food'

Rule (259) builds left-branching words with each suffix on its own level of constituent structure. This is the minimum amount of structure necessary to account for what we may call (following Fortescue 1980 on West Greenlandic) the "global scope rule" evident in Southern Wakashan: a nuclear suffix is structurally and semantically superordinate to everything to its left within the word. As Fortescue (1980) argues for West Greenlandic, however, this simple branching structure will almost certainly need to be augmented to account for the many subregularities evident in the co-occurrence patterns of various suffixes with one another. The largest classes of restrictive suffixes are the classes of path-orientation (§5.5.1) and locative suffixes (§5.5.2). (262) and (263) show examples of path (262)a, (263)a and locative suffixes (262)b-c, (263)b-d occurring singly in derived words.

(262) MAKAH a. $\frac{i a p x a' y i \lambda wa' d}{i a p x - a' y i \lambda} = wa: da$ fly-move.into.building.PERF=QUOT.3sg

'It flew into the house.'

b. $xaya \cdot q\lambda asalat$ $xaya \cdot - 'a \cdot q\lambda as = 'a\lambda = `at$ far-in.woods=TEMP=3pl

'They were deep in the woods.'

c. $wi \cdot wiksta \cdot la \cdot škub$ $wik - (k)sta [LR] = 'a\lambda = a \cdot škub$ not-at.legs=TEMP=MIR.3sg

'Oh, he doesn't have pants on!'

(263) NUUCHAHNULTH

a. *hinusaλa hina-wisa* = λa: empty.root-come.to.surface.of.water.PERF=again

'Again he came to surface.' (NT 84.13)

mu hurt
 mu-a hur(t)
 burn-in.front

'Burned-Front' (place name)

c. $hu^{4}apa\lambda in$ $hu^{4}-api [L] = 'a\lambda = (m)a^{*} = ni$ dance-up.in.air=TEMP=INDIC=1pl

'We were (clouds), dancing above.' (NA 146.33)

d. $\check{c}u^*\check{c}i\check{s}t\hat{a}\lambda$ $\check{c}u-a\check{c}i\check{s}t=\hat{a}\lambda$ face.down-on.ocean=TEMP

'It lay face-downward on the water.' (NT 154.8)

Unlike nuclear suffixes, multiple restrictive path-orientation and locative suffixes may occur on a single level of hierarchical structure. When more than one occurs on the same level, they are or-

dered according to the following hierarchy: path > locative site > locative locale. That is, if a path suffix is present, it comes first, followed by any locative site suffixes, followed by any locative locale suffixes. (The structural distinction between site and locale suffixes is discussed in $\S5.5.2$; there are only four locale suffixes: M - 'a', N - 'a'?a 'on the rocks', M, N - 'as 'on the ground', M, N - 'it 'in the house', M, N - 'is 'on the beach'.) Sequences of more than three restrictive suffixes have not been observed. Only one path and one locale suffix may occur per sequence. Ordering principles governing multiple site suffixes are discussed in Davidson (1999). See also Rose (1981: 336). The following examples show several Nuuchahnulth nouns with restrictive sequences.

(264)

a. hačatak ... łu hu łas... hačatak łu-a hu (ł)-a s... all board-in.front-on.horizontal.surface...

'Each had a board in front of him (on his canoe).' (NT 82.6)

 $[tu_{N root} - a'hu'(t)_{site} - a's_{site}]_N$

NUUCHAHNULTH

restricted noun: 'board in front of one on a surface'

b. $ii cxmalapi2ak\lambda ak$ iicx-mal-api [L]-q-' $ak\lambda i$ = 2akspread.cloth-moving.about-up.in.air-at.rear=POSS black-on.fabric=ART

hita·k λ i?i hita-'ak λ i = ?i· empty.root-at.rear=ART

'Their black blankets flapped about their hips.' (based on NA 75.9-10)

 $[tic_{N root} - mat_{path} - api_{site} - ak\lambda i_{site}]_{N}$

restricted noun: 'spread cloth flapping about at one's rear'

c. $2uca\check{c}i\hat{a}\lambda in$ $2u-ca-\check{c}i\hat{\lambda} = a\hat{\lambda} = (m)ar = ni$ so.and.so-go.to-PERF=TEMP=INDIC=1pl house-at.vertical.surface-on.ground

'We went to House-at-Cliff (place name).'

$[ma_N - at\dot{c}a_{site} - as_{locale}]_N$

restricted noun: 'house at a vertical surface on the ground'

An important feature of restrictive sequences is that the entire sequence carries a single aspectual value. This is, in fact, one reason for analyzing the series of suffixes as being on the same level. Aspect is normally indicated by the last morpheme in an unextended word, whether by an aspect suffix, or by the aspectual value inherent in a word-final lexical suffix or root. In a wordfinal restrictive sequence, however, a path suffix can determine the aspectual value of the word, even though it may precede a locative suffix in the sequence that otherwise has a different value, e.g. the verbs in (265)and (266) are perfective because of the path suffix M, N $-k^{wis-t-}$ 'move out, away (perf.)' despite the presence of the following imperfective locative site suffixes $-\dot{c}u^{*}$ 'in a container; in a bay' and $-\dot{a}hs$ 'in a vessel'.

(265) MAKAH $susk^{w}is\dot{c}a^{*}\lambda wa^{*}d$ $sus-k^{w}is-\dot{c}u^{*}='a\lambda = wa^{*}da$ swim-move.out.PERF-in.bay=TEMP=QUOT.3sg

'He/she swam out of the bay.'

(266) NUUCHAHNULTH $tuxk^{w}istahs?a\lambda$ $tux-k^{w}ist-'ahs = 'a\lambda$ jump-move.out.PERF-in.vessel=TEMP 'She jumped out of the canoe.' (based on NT 84.21)

Any number of nuclear suffixes and restrictive sequences may co-occur in a derived word. For example, the Nuuchahulth verb $2a\lambda qimti csatas$ 'carry two round objects out of the woods' in (267) consists of the numeral root $2a\lambda$ - 'two' plus the nuclear nominalizing suffix -qimt '... many round objects', forming the noun $2a\lambda qimt$ 'two round objects'. This in turn serves as base for the nuclear verbalizing suffix -*iics* 'bringing, carrying ...', forming the verb $2a\lambda qimti cs$ 'carrying two round objects'. The word is then capped off by the restrictive sequence -*at-'as* 'move out of the woods on the ground', which, incidentally, is another example of a path suffix determining aspect despite a following locative suffix. (267) NUUCHAHNULTH $?a\lambda qimti csatas ?a\lambda qu'$ $?a\lambda -qimt -i:cs -at - 'as = 'a\lambda = qu:$ two-X.many.round.objects-carry-move.out.of.woods.PERF-on.ground=TEMP=COND ?artuš ?artuš deer 'Titichakyo would bring two deer out of the woods.' (based on NT 86.13-14)

 $[[[?a\lambda]_{NUM} - qim t_N]_N - ics_V]_V - at_{path} - as_{locale}]_V$

verb: 'carry two round objects out of the woods'

The lexical suffixes we have seen so far in this section are core lexical suffixes, which attach either to bound roots, to free roots, or to bases with suffixes. Another, much smaller, group of suffixes called peripheral suffixes attach only to bases that can also occur as words, i.e. free roots or bases with suffixes, not to bound roots.⁷² The nuclear verbalizing suffix M *-beyaq* λ *-be:q* λ , N *-ma* $2i:q\lambda$ 'want to ...' is a peripheral suffix (the peripheral/core distinction cross-cuts the nuclear/restrictive distinction). As (268) shows, peripheral suffixes have their own aspectual value, or they can be followed by an aspect suffix, which can vary independently of the core unextended word's aspect:

(268)	a.	NUUCHAHNULTH $hitachin\lambda ma^{2i} qstu^{2}a\lambda$ $hita-chi-nu\lambda-ma^{2i} qst-u\lambda = 'a\lambda$ empty.root-married.to-PERF-want.to-PERF=TEMP	<i>?u•k^wiŧ</i> <i>?u−(č)iŧ</i> [L] so.and.so−do.to	wa'ki'ta?uq wa'ki'ta?uq Purple.Woman
		'He wanted to marry Purple-Woman' (NA 410	0.52)	

b. $hitachima2i qsu2a\lambda$ $hita-chi-ma2i qst-u\lambda = 'a\lambda$ empty.root-married.to-want.to-PERF=TEMP

'He wanted to have her as wife.'

Addition of a peripheral suffix forms what we will call an "expanded unextended word".

5.2 Roots

5.2.1 Bound roots

Roots make up about three-fourths of the underived lexicon, the rest consisting of suffixes and a few particles. Roughly half are bound roots, that is, roots that cannot function as words without a (core) lexical or aspect suffix. Bound roots are written with a hyphen when cited: M *qax*-, N *qah*- 'dead', M, N *ča*- 'water', M *xa*-, N *ha*- 'complete, sufficient', M λa -waq-, N *his*- 'blood, bleed', M, N *ča*- 'sit'. Most correspond semantically to English verbs and adjectives, and most are monosyllabic, although there are disyllabic roots (e.g. M λi ·*daq*- 'foggy', N *?amaq*- 'have sexual intercourse with'), and even a few trisyllabic members of the category (e.g. M *?ayisaq*-, N *?ayisax*- 'trick, deceive').⁷³ The suffixes that a bound root occurs with to form derived words are dependent on the combinatory possibilities of that root and the communicative need of the moment. The following are a sample of the possibilities for M *tiq*^w- 'sit' and N *his*- 'blood, bleed'.

```
Derived Makah words formed from tiq^{\,\it w}\!\!-\! with lexical suffixes
```

(nouns)

```
tiq<sup>w</sup>acis 'chair' (-acis 'surface for ...')
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tiquwit 'living room' (*-ut*^w 'place for ...', *- 'it* 'in the house')

(verbs with restrictive suffixes)

tiqi wadiqs 'sitting alone in a canoe' (-wadi 'in the middle', -qs 'in a vessel', epenthetic /i'/)

tiqsi?*ati*?*i*' 'sitting at the door (-(*k*)*s*?*ati*?*i*:)' (with epenthetic /*i*'/)

tiq^w*a*'s 'sitting on a horizontal surface (-*a*'s)'

tiq^wi·*cit* 'sitting in water, a puddle (-*cita*)' (with epenthetic /*i*^{*r*}/)

 $\dot{ti}q^{w}a^{v}s\dot{c}$ 'sitting on the roof (-*a*'s $\dot{c}a$)'

Nuuchahnulth verbs formed from *his*- with aspect suffixes

Perfective *hisši* 'start bleeding, bleed'

Caus. Perf. *hissarp* 'cause to bleed'

Continuative *hisa* 'bleeding'

Derived Nuuchahnulth words formed from his- with lexical suffixes

(nouns)

hismis 'blood' (*-mis* 'collectivity of ...')

hirssit 'blood-colored, blood-laced liquid' (-(c)sit. [L] '... liquid')

(nouns with restrictive suffixes)

<i>hihisčink</i> 'blood on the calves of the legs (- <i>čink</i> [R])'	
--	--

 $hihiyaq\lambda wi$ 'blood under the fingernails' (-' $aq\lambda$ 'inside', -wi [R] 'at nails, claws')

*hisci*t 'blood along the edge of a linear object (-*ci*t)'

hihisnuk 'blood on the hands (-*nuk* [R+L])'

hihi ssut 'blood in the eyes, bloody-eyed (-(c)su(t) [R+L])'

(verbs)

nisnaq fold of difficing (- naq) bloc	hisnaq	'fond of drinking ((-naq)	blood
--	--------	---------------------	--------	-------

hisimýu λ 'get covered with blood' (-(q)*imýu* λ , perf. of -(q)*im*t 'over a rounded surface') *hiýirs* 'drink one's blood' (-'*i*rs 'consuming ...')

An especially common bound root that deserves separate mention is M *hita- hida-*, N *hita-hina- hin-*, glossed "empty root" in examples. This root allows lexical suffixes to be used without a contentful base. Instead of N $2ayak^wat$ 'many absent' (< 2aya 'many' + path-orientation suffix (§5.5.1) $-k^wart$ 'absent'), M, N $qirk^wart$ 'absent for a long time' (< qir 'long time' + $-k^wart$), M, N $2uk^wart$ 'so-and-so (is) absent' (< $2u- + -k^wart$), or some other derivative, the empty root can be used to form simple M, N *hitak^wat* 'absent'.

The empty root is limited to occurrence with verbalizing and restrictive path-orientation and locative suffixes, but fairly liberal with its selection of suffixes within these classes:

Empty root with verbalizing suffixes

(verbs)

M hirdurł, N hirnuł 'waiting for' (M -urł, N -uł [L])

M hitacx, N hitachi 'married to' (M -cxi, N -chi)

M hitadak, N hitanak 'have' (M -da'k^w, N -na'k^w)

M hirdač, N hirnač 'ask for' (M, N -č [L])

N hina hin 'deprive of' (-a:hin)

M *hididux* 'look for, search for' (*-idux*)

M hidi', N hini' 'give' (M, N -i:)

M hita'?a'p, N hita?ap 'buy' (M - 'a'?a:p, N -. 'a'p)

Empty root with path-orientation or locative suffixes

N hirnak^win?it '(at) the head of the bed' (-ak^win, -'it)

M *hitaksaq* λ 'under one's clothing' (-(k)saq λ)

M hita?a'ćił, N hina'yił '(in) the sky' (M -?a'ćił, N -a'yi'ł)

N *hi*'n*i*' λ *a* 'underneath, (at) the bottom, underneath part' (-'*i*: λ *a*)

M hitaksiłti's, N hitacsuhtis 'come out of the woods onto the beach' (M -(k)siłta, N -(c)suhta,

M, N - '*is*)

The general rule for selection of the allomorphs is *hita-* occurs with consonant-initial and glottalizing/leniting suffixes while M *hida-*, N *hina-* occurs with vowel-initial suffixes. The Nuuchahnulth *hin-* allomorph occurs with either. Exceptions to the rule are not difficult to find though, e.g. M *hirdač*, N *hirnač* 'ask for' above.

5.2.2 Free roots

A root that can be used as an (unextended) word (e.g. M *qa?awac*, N *qa?u^c* 'pack-basket') is called a free root. Most free roots are nouns. Other salient word classes among the free roots in-

clude the numerals (except 'one', which is a bound root), and some property words expressing dimensional and evaluative concepts like 'big', 'wide', 'fat', 'thick', 'good', and 'bad'.⁷⁴

5.2.2.1 Combining forms and the buffer consonant

By definition, bound roots must occur with some suffix or suffixes to be used as a word. Although free roots may appear independently as words, they can, and often do, combine with suffixes as well. When they do so, they frequently undergo changes in form; many have special combining allomorphs when they combine with suffixes. These are reduced forms with shortened vowels, truncation of final segments, loss of formative suffixes and sometimes other changes relative to free forms, e.g. the Nuuchahnulth noun root qu't' 'slave' has a combining form with a shortened vowel, qut.-. A given free root may have no combining form, or it may have several. If a root has a combining form or forms, these are cited preceding the free form, following Sapir & Swadesh's citation practice in their (1939: 243-316) vocabulary list, e.g. N qut.-, qu't 'slave', M *babic-*, *ba'bi'qsu* 'elder sibling'. To conserve space, only the observed form, whether it is a free form or a combining form, is normally shown in morpheme-by-morpheme analyses and glosses.

(269) a.	Free form of root qu'i qu'i slave	<i>ba'bi'qs</i> <i>ba'bi'qsu</i> elder.sibling
	'slave'	'elder sibling'
b.	Combining form of root qui?ahsu?ai qui?-`ahs-(y)u?ai slave-in.vessel-perceive 'see a slave in a vessel' (NT 188.30)	<i>baba[·]bicdukub</i> <i>babic–duk</i> [R+L]– <i>uba</i> elder.sibling–at.hands–thing 'thumb'

If the final segment of a combining form or the free form of a free root is a vowel or, in Nuuchahnulth, a coda nasal, the voiceless uvular stop /q/ may intervene as a buffer consonant when the root functions as base, e.g. N $\dot{c}ix^watin-q-i\dot{n}ak$ 'perform an eagle dance' (eagle-qimitate.in.dance). Derived bases ending in vowels or coda nasals are also sometimes followed by a buffer consonant: N *hur4-api-q-inak* 'perform a dance representing the quivering of (heated) air' (dance-up.in.air-q-imitate.in.dance). (However, bound roots (§5.2.1) as bases are never separated from suffixes by the buffer consonant.) A few exceptions have been noted thus far: the free Nuuchahnulth noun roots *minme:ks* 'bank note' and *hartix* 'root of a certain kind' are listed by Sapir & Swadesh (1939: 265, 300) as occurring with /q/ even though they end in consonants.

The original function of the buffer consonant was perhaps to preserve the formal integrity of words in derivation by preventing fusion through vowel contraction or other phonological processes when additional suffixes are added. If so, it still serves this function today — as a rule, vowel-initial and glottalizing/leniting suffixes (§§3.3.2-3.3.3, §3.4.2) condition its appearance with appropriate bases. It is now partly morphologically conditioned, however, since it sometimes appears before consonant-initial suffixes, where no fusion would occur in any case, as in N *yašma-q-pał* 'fur-seal season' (hunt.fur.seal-*q*-season.of), M ?*atkse*?*i*-*q*-*ċi*!*tč* 'using wood as fuel' (wood-*q*-use.as.fuel). If a morpheme ever occurs with the buffer consonant in derivation, this is indicated by Sapir and Swadesh in its citation form, e.g. N *ċix^watin*(-*q*-) 'eagle', N, M *-api*(-*q*-) [L] 'up in the air, erect'. Note, however, that some vowel- and nasal-final free roots do not seem to occur with the buffer consonant (e.g. N *ṫaňa* 'child'), which is why its occurrence must be noted for the roots and suffixes it has been recorded with.

5.2.2.2 Free root types

The majority of free roots belong to one of two morphological types, simple roots and composite roots.⁷⁵

Simple roots

Simple roots include M, N *we?ič* '(to) sleep', M *čuku'dabi:*, N *čukňa*(-*q*-) 'wren', and M, N $\lambda u \dot{\rho} a \dot{c}$ 'root'. A subtype consists of roots that contain one or more frozen lexical suffixes. For example, the Makah noun $\dot{q} a \dot{a} a' \dot{r} a \dot{x} s$ 'chamber pot' contains the locative suffix - '*a* $\dot{x} s$ 'in a ves-

sel' on the otherwise unattested element $\dot{q}a\dot{t}$.-. Similarly, the Nuuchahnulth verb $2u\dot{c}a\dot{h}s$ 'taking a share of what one's neighbor has got in hunting, fishing' has the locative suffix -' $a\dot{h}s$ 'in a vessel' on the initial cranberry element 2uc-.

The initial cranberry element in a such a root is no longer used productively, but comparison with related languages sometimes gives hints about their original meanings. For example, the Nuuchahnulth verb *?irčarpi* 'lifted up', which consists of initial *?iča-* plus *-api* [L] 'up in the air; erect', may (etymologically) contain a root PW *2ik, still attested in Kwakwala: 2ik 'above' (from Boas 1947: 224 with regularized orthography). Correspondences between Makah and Nuuchahnulth forms are often enlightening in this regard. Makah hukturp 'bird' is composed of the nominalizing suffix -(k)turp '... thing, ... species' plus cranberry element hu-, the original meaning of which is suggested by Nuuchahnulth hu- 'flying in a flock'. Similarly, the Makah place name tuku'dit, glossed 'sea lion' in the Makah Traditional Cultural Property Study (Makah Cultural and Research Center 1989: 2), refers to Ringbolt Rock, a sea rock located off Tatoosh Island. It can be morphologically analyzed as tuk - + u' epenthetic + -dit 'stocked with ...'. The regular Makah word for 'sea lion' is hakwa'diš, but Nuuchahnulth tuk- 'sea lion' explains the traditional gloss. Jacobsen (1979c: 776-77) cites other examples in which the initial element in a cranberry root in one of the languages is a productive root in the other, e.g. the Makah noun $\lambda ata wa \dot{c} a k^w$ '(a) paddle' consists of the nominalizing suffix $-\dot{c} a k^w$ 'thing for ...' on the cranberry element $\lambda ata wa$ - or, minus the epenthetic vowel, $\lambda atwa$ -, which is transparently related to Nuuchahnulth $\lambda at \dot{w}a$ - 'paddling steadily'.

There is also a small category of irregular simple roots, which consists of roots with irregular combining forms, that is, combining forms that are not derivable from their free forms by any of the normal means (such as vowel shortening), e.g. M $\dot{q}i\lambda\dot{c}$ -, $\dot{q}idi\cdot\lambda$, N $2i\dot{t}\dot{c}$ -, $2ini\cdot\lambda$ 'dog', M, N $\check{c}apx^w$ -, $\check{c}akup$ 'male, husband'.

Composite roots

Composite roots consist of an initial radical element plus a semantically empty formative suffix that "completes" it and allows it to appear as an independent word. Following Sapir & Swadesh (1939), full citation form for a root in this category lists the initial radical element first along with indication of its co-occurrence with the buffer consonant -q-, if applicable. This is followed by the free form of the root, i.e. the root with its formative suffix:

(270) M, N Xuč-, M Xuča·ba, N Xučim 'large mussel sp.' (suffix M - 'a·ba, N - 'im)
M, N pic-, pićup 'inner cedar bark' (suffix M, N - 'up)
M qič-, qiči·da, N qič-, qičin 'louse' (suffix M - i:da, N - in)
M sax-, saxa·?ap, N saḥ-, saḥas 'picking cedar bark' (suffix M - 'ap, N -as)
N tačku-q-, tačkumc 'sardines' (suffix N -ma·c)
M wa?aq-, wa?aqap 'perch sp.' (suffix M -ap)

Some formative suffixes occur with many roots (e.g. M -*i:da*, N -*in* in *qiči'da*, *qičin* above, M -*a:bac*, N -*ma'c*), while others are cranberry suffixes, appearing with a single root (e.g. N -*a'k* in *yaḥa'k* 'salmon weir'). When combined with ordinary lexical suffixes, these roots sometimes appear with their formative suffix and sometimes without it (see below).

Kin terms are a special class of composite roots. The free form of most kin terms ends with the kin suffix M, N -(.?)*i*^{*r*}*qsu*, e.g. M, N ?*a*^{*rsi*^{*r*}*qsu*</sub> 'niece, nephew', M ?*ukwe*??*iqsu* 'stepparent, step-child'. Combining forms feature several changes relative to free forms: long vowels are generally shortened, the kin suffix is dropped, and a formative element -*c* is added, a rare case of material being added in a combining form. The combining forms of the above cited roots are M, N ?*a*^{*rsic*-, M ?*ukwac*-. Words with Makah ?*ukwac*-, ?*ukwe*?*iqsu* 'step-parent, step-child' are shown in (271).}}

- (271) макан
 - a. free form of kin term *?ukwe'?iqsusis ?ukwe'?iqsu = sis* step.parent=POSS.1sg 'my step-parent'

b. combining form of kin term *Pukwacdakits Pukwac-dark*^w=(b)*it*=s step.parent-have=PAST=INDIC.1sg

'I had a step-parent'

Note that Makah appended vowels (§3.4.4) are treated as formative suffixes for purposes of lexical representation: *qut-*, *qutu* 'slave', *wik-*, *wiki* 'not, nothing'.

5.2.2.3 Use of combining forms

Although a free root may have a combining form, it may or may not appear in this form with a given lexical suffix. At this point there appears to be no general rule that will predict which form, free or combining, a root will take with different suffixes. As Rose (1981: 288) observes: "The morphology of base-affix linking is complex and idiosyncratic." Some suffixes occur only with the free forms of roots, others only with combining forms. Some occur with the free forms of some roots and the combining forms of others. Still others can occur with either the free form or the combining form of the same root. In this case there may be a difference in meaning between the derivative based on the free form and the derivative based on the combining form. As the following Nuuchahnulth examples with the composite roots M, N $\lambda u \dot{c}$ -, M $\lambda u \dot{c} a \cdot ba$, N $\lambda u \dot{c} im$ 'large mussel sp.' and M iux-, $iuxu \cdot \dot{c}ida$, N iuh^w -, $iuh\dot{c}iti$ 'head' show, the derivative based on the combining form (i.e. the root with its formative suffix) has the more compositional meaning, while the derivative based on the combining form (i.e. the initial radical element alone) has a more specialized, idiosyncratic meaning.

- (272) NUUCHAHNULTH
 - a. Derivative based on free form of root 𝕺učimck^wi 𝕺učim−ck^wi mussel−remains.of

'discarded mussel shell' (< 'remains of a mussel')

b. Derivative based on combining form of root

λ̃učck^wi λ̃uč–ck^wi mussel–remains.of

'mussel shell for use in making a knife' (Swadesh 1933: 62)

(273) NUUCHAHNULTH

a. Derivative based on free form of root $tuhcitick^{wi}$ $tuhciti-ck^{wi}$ head-remains.of

'remains of a head (of a baby that had died in the womb)' (NT 192.4)

 b. Derivative based on combining form of root *tuhck^wi*· *tuh^w-ck^wi*· head-remains.of 'severed head' (NA 378.17, 441.9, etc.)

Perhaps more frequently there is no discernable difference in meaning between the two:

(274) NUUCHAHNULTH

a. Derivative based on free form of root hax^winmacapuł hax^winmac-(q)apuł wren-impersonate

'impersonate a wren'

 b. Derivative based on combining form of root hax^witqapuł hax^wit-q-(q)apuł wren-BFR-impersonate
 'impersonate a wren' (Swadesh 1933: 62)

A few further examples of differences in meaning between the free forms and combining forms

of roots can be found in §6.4, ex. (334).

5.3 Classification of suffixes

The 500 or so suffixes can be grouped into a number of categories on the basis of common semantic features and shared grammatical behavior. The broadest classification divides them into three groups.

- 1. Formative suffixes, e.g. M -i:da, N -in, M -ciida, N -ciiti
- 2. Aspect suffixes, e.g. M, N - ak^{w} -uk durative imperfective, M, N - $\check{s}i\lambda$ perfective
- 3. Lexical suffixes, e.g. N -mirt 'son of ...', M -eyax, N -iyaqh [R] 'singing ... song'

Formative suffixes are semantically empty suffixes that create the free forms of composite free roots. Most formative suffixes are used with noun roots. For example, the Nuuchahnulth noun roots $\dot{c}ix^wat$ - 'eagle' and $2ayux^wa$ - 'cod-fish decoy' appear as words with the formative suffix -*in*: $\dot{c}ix^watin$, $2ayux^win$. There are at least two dozen of these formative suffixes. They are discussed in more detail above in §5.2.2.

The dozen or so aspect suffixes make up part of the aspect system, a central grammatical category in Southern Wakashan. Aspect is described in Chapter 6.

By far the majority of suffixes are lexical suffixes. Lexical suffixes are a Northwest Coast areal phenomenon that also appears in Salish languages, and Quileute.⁷⁶ They earned this name because they have meanings more typical cross-linguistically of open-class lexical morphemes than closed-class grammatical morphemes. They express a wide range of concepts, and researchers on languages that have them have proposed various semantic classification schemes. Boas (1947: 236-7) expresses reservations about classifications of this sort on the grounds they impose categories of the researchers' languages on the languages of study, but concludes in the end that they are harmless and descriptively useful as long as it is clear that they make no claim to represent native classifications.

His worries about imposition of external categories on the object language are clearly wellfounded, and even today this is a common pitfall of comparative semantic research. Lucy (1994: 624) describes such research as follows:

Lexical items are grouped together [in analyses of this sort] and analyzed as a coherent set not because speakers of those languages group them together in a set as revealed, for example, by common grammatical treatment, but because the analyst so groups them. And meanings are assigned not on the basis of close examination of actual usage, but on the basis of rough functional equivalence with forms in our own language. Thus an external framework is imposed on the language in place of a framework deriving from its native logic.

Conclusions from these studies are likely to reveal more about the external framework than about the language under analysis.

Fortunately, we need not content ourselves with a classification of lexical suffixes in Southern Wakashan that is descriptively useful, but ultimately of little value in understanding how the languages works. We can make use of language internal criteria, both semantic and formal, to classify the suffixes following "native logic". Given the importance of the suffixes in the grammar, this is, in fact, an essential task. As we know, however, "all grammars leak", so there is no reason to expect every suffix to fit neatly into our classification scheme, whether its logic is native or external. By and large, suffixes do fall fairly clearly into one category or another, but a few belong to more than one category, and we are left with the inevitable residue of suffixes that are difficult to classify.

Use of language internal criteria can be demonstrated by considering the status of two ostensibly similar Nuuchahnulth suffixes, $-\underline{\check{c}}i$ 'at, in ...' and $-\dot{c}u$ ' 'in a container'. At first glance, one might think to group these together as "locative" suffixes. However, closer study of their semantic relationship with bases and their effect on the grammatical category of the resultant word shows that, according to Nootkan logic, they actually belong to different categories. Consider (275), which shows each suffix with the simple noun root qa ucc 'pack-basket' as base.

(275)	a.	qa?u [,] cči	b.	qa?u [.] cću
		qa?u'c– <u>č</u> i		qa?u'c–ću'
		pack.basket-in		pack.basket-in.container
		'in a pack-basket'		'pack-basket (that is) in a container'
		*'pack-basket (that is) in sth'	;	* in a pack-basket'

The addition of the suffix $-\underline{\check{c}}i$ 'in ...' to the noun in (275)a changes the word class of the resultant word to a locational verb: noun *qa?u*·*c* 'pack-basket' \rightarrow verb *qa?u*·*c* $\check{c}i$ 'in a pack-basket', e.g.

(276) NUUCHAHNULTH $qa?u'c\check{c}a\lambda ma$ ha?um?i $qa?u'c-\underline{\check{c}}i = `a\lambda = ma'$ ha?um = ?i'pack.basket-in=TEMP=INDIC food=ART 'The food is in a pack-basket.'

The base, which is here only a noun root, provides more precise specification of the meaning of the suffix — it fills out or completes its meaning just as the object NP does for the English preposition.

The word in (275)b demonstrates an entirely different grammatical relationship between suffix and base. Unlike $-\underline{\check{c}}i$, the suffix $-\dot{c}u^{\prime}$ 'in a container' does not determine the class of the resultant word, which remains a noun; it adds information about the base and limits or restricts its denotation, much as an adjective or relative clause limits the denotation of an English noun: the word's potential referent is not only a pack-basket, but a pack-basket that is in a container. The noun $qa?u^{\prime}c\dot{c}u$ 'pack-basket in a container' functions like any other noun. Example (277) shows it as nominal predicate head in a main clause:

(277) NUUCHAHNULTH $qa?u^{*}c^{*}ca\lambda ma$ $ni^{*}sa^{*}k?i$ $qa?u^{*}c^{-}cu^{*} = 'a\lambda = ma^{*}$ $ni^{*}sa^{*}k^{w} = ?i^{*}$ pack.basket-in.container=TEMP=INDIC sack=ART a. 'There is a pack-basket in the sack.' b. 'The sack has a pack-basket in it.' c. 'He/she/they have a pack-basket in the sack.'

The source of the multiple meanings is described in \$4.4.3.2. If the predicate is atransitive (\$4.4.3.1), the clause has the existential reading in (277)a, and the RP *nirsark?i* 'the sack' is a

locative oblique expanding the reference of $-\dot{c}u^{\prime}$. If the subject is personal, the sentence can mean either (277)b or (277)c depending on the subject reference: if *ni* sa k?i is interpreted as the subject, (277)b is the appropriate translation; if it is interpreted as an oblique locative, (277)c is the appropriate translation. The word might also occur as predicate head in a referring phrase (RP):

(278) NUUCHAHNULTH

wirka λ ši?a λ ah[nirsark?iqa?urcću]wik-(w)a λ [L]-ši λ = 'a λ = (m)ar = ah[nirsark^w = 2irqa?urc-ću']not-find-PERF=TEMP=INDIC=1sg[sack=ARTpack.basket-in.container]referring phrase'I could not find [the sack with a pack-basket in it].'

This use is related to the possessive-existential meaning in (277)b. The RP literally means something like 'the sack having a pack-basket in it'.

I refer to suffixes of the $-\underline{\check{c}}i$ type as nuclear suffixes. Suffixes like $-\dot{c}u^{-}$ are restrictive suffixes.⁷⁷ The essential difference between the nuclear and restrictive types is that a nuclear suffix determines the class of the resultant word, while a restrictive suffix simply modifies the meaning of its base without fundamentally altering its semantic category or word class. This can be also expressed in terms of headedness: a nuclear suffix becomes the head of the resultant word, while the base remains the head when a restrictive suffix is added.⁷⁸ There are also the morphological differences between the two types described in §5.1.

The Nuuchahnulth examples in (279) (from Swadesh 1948b: 62) provide further illustration of the nuclear/restrictive distinction. Compare the word class and denotation of the words in (279)a and (279)c with that of the word in (279)b.

NUUCHAHNULTH a. Underived čapacma čapac = ma' canoe=INDIC 'It is a canoe.' noun: čapac 'canoe'

(279)

b. Word with nuclear suffix $\dot{c}apacu?a4ma$ $\dot{c}apac-(y)u?a4 = ma'$ canoe-perceive.PERF=INDIC

'He sees a canoe.'

verb: *čapacu?ał* 'see a canoe'

c. Word with restrictive suffix

čapacaqma čapac–(q)aq = ma^{*} canoe–big=INDIC

'It is a large canoe.' noun: *čapacaq* 'large canoe'

The underived word in (279)a, $\dot{c}apac$ 'canoe', and the derived word with the restrictive suffix in (279)c, $\dot{c}apacaq$ 'large canoe', are both nouns and refer to the same entity: addition of the restrictive suffix -(q)aq 'very; big' (this time a degree suffix rather than a locative suffix) has not changed the word class or reference of the resultant word. Addition of the verbalizing suffix -(y)u?ał 'perceive ... (perf.)' in (279)b, on the other hand, changes the category from noun to verb, and fundamentally alters the relation of subject to predicate.

Boas's (1947: 237) objection to this classification scheme runs as follows. (The original quote is rather oddly phrased. I have taken the liberty of including Nakayama's 1997a: 49 clarificatory emendations in brackets):

We cannot accept the classification of "formative" suffixes in two groups: "governing" and "restrictive" suffixes which are not based on internal evidence, but rather on our European classifications ... For instance [the morphological complex] "to see a canoe" which [includes a lexical suffix expressing the notion of "to see" that] would fall under the heading of "governing suffixes" may as well be conceived as "to perform an action relating to a canoe by seeing" in which case [the lexical suffix expressing] "to see" would be a restrictive element ... It is impossible to decide how these combinations may be felt by native speakers. Formally the governing and restrictive groups are identical.

His point concerning Eurocentric approaches to grammar is well taken, as I have said. In this case though, *contra* Boas, the nuclear/restriction distinction is not a product of "European classifications". The distinction is real and fundamental to Nuuchahnulth word formation. We see better

why his charge is unwarranted if we break it down into three subparts and address them individually. Each makes a slightly differently claim:

- 1. There is no language internal evidence for the distinction;
- 2. There is no formal evidence of the distinction;
- Classifications of individual suffixes as governing [nuclear] or restrictive are artifacts of translation, as purportedly shown by the 'see a canoe' example.

All three of these points can be shown to be false.

The first and second claims are contradicted by patterns like those I presented above, which show systematic differences in the grammatical and semantic relationships between the two types of suffixes and their bases. These are certainly language internal and formal (since determination of word class is based on distributional evidence) — nuclear suffixes have the power to determine the class of the resultant word, while restrictive suffixes normally do not. Chapter 8 discusses the criteria for defining word classes.

As for the third claim, Boas fails to show that the distinction is an artifact of translation because the revised translation of 'see a canoe' he proposes to demonstrate this is nothing more than a convoluted restatement of the original translation. His revision still contains a verb phrase, namely 'to perform an action relating to ... by seeing'. Hence, the suffix with this translation would still produce a verb rather than a noun, which is precisely what is predicted. Further, the fact that 'see' is restrictive in the new translation is irrelevant since it does not modify the right word. If the suffix were restrictive in the present sense, it would modify the base 'canoe' and produce a noun denoting something about a canoe that sees or is seen. Instead, the phrase 'by seeing' is an adverbial phrase that modifies the participle construction 'relating to ...', which itself modifies the word 'action' in the verb phrase 'perform an action'. As Swadesh (1948b: 62) himself points out: Boas says that 'to see a canoe' ... may as well be conceived as 'to perform an action relating to a canoe by seeing.' But, since the stem alone means 'canoe,' this translation includes for the meaning of the suffix 'by seeing to perform an action relating to' — which leaves the problem exactly as before ... It is no mere trick of English translation but an inescapable fact that the relation of subject and stem remains the same in [(279)a and (279)c] but is radically changed in [(279)b].

Ironically, Boas' pessimism about gaining insight into native classification leads him to a wholly translation-based descriptive categorization of suffixes in Kwakwala that is not so far from the structurally-based scheme adopted for Southern Wakashan in this dissertation (see especially Boas 1947: 237-46). He divides Kwakwala suffixes into 19 categories (some of which contain only one or two suffixes) with labels like "general locatives", "special locatives", "nominal suffixes", "verbal suffixes", etc. Based on examples of suffixes he offers from various categories, it seems likely that at least the locative suffixes and nominal/verbal suffixes (and perhaps suffixes of the other classes) fall into behaviorally distinguishable super categories comparable to the Southern Wakashan restrictive and nuclear classes.

I present a provisional summary classification of the various Southern Wakashan nuclear and restrictive subcategories below. Complete suffix lists can be found in Appendix A. For the most part these categories have distinct formal properties, which provides some justification for claiming they are reflective of native classification. However, the semantic subdivision of restrictive locative suffixes in Appendix A (after Rose 1981: 359-61) is simply a convenience to show the reader the range of meanings expressed by them and is not based on language-internal or formal criteria.

The proposed classification is not intended as a Procrustean scheme into which all suffixes must neatly fit. Some fall into more than one category. For example, a handful of suffixes are sometimes used as restrictive locative suffixes and other times as nuclear verbalizing suffixes (e.g. N -ci·t '(restrictive) on the edge; (nuclear verbalizing) on the ... edge'). These are generally listed only once in Appendix A, under the category that seems most characteristic.

Nuclear suffixes §5.4

- Verbalizing suffixes §5.4.1 (e.g. N, M 'iλ [L] 'get, go for, invite ... (perf.)')
- Nominalizing suffixes §5.4.2 (e.g. N, M -. 'aqsup 'woman of ... tribe')
- Quantifier suffixes §5.4.3 (e.g. N, M -*i*'q^w '... score')
- Temporal suffixes §5.4.4 (e.g. N -yi, M -yu 'at ... time')

Restrictive suffixes §5.5

- Path-orientation suffixes §5.5.1 (e.g. N -2a' ?atu, M 'aqatu 'move down (perf.)')
- Locative suffixes §5.5.2 (e.g. N, M -(q)u'(t) 'on the face')
- Degree suffixes §5.5.3 (e.g. N -*ckin*, M -*ckida* 'slightly')
- Plural formations (including suffixes, infixes, and reduplication) §5.5.4

There are also a number of miscellaneous restrictive suffixes and a few miscellaneous or difficult to classify general suffixes listed in Appendix A.

5.4 Nuclear suffixes

5.4.1 Verbalizing suffixes

Verbalizing suffixes fall into roughly two groups, one creating verbs expressing actions or activities undertaken by their S/A argument, and the other creating verbs expressing a state, quality, or condition, defined, as Swadesh (1933: 65) says, "with the aid of the underlying [base]". We refer to these types as verbalizing "action" and verbalizing "state" suffixes, respectively.⁷⁹

Verbalizing action suffixes generally denote more abstract or superordinate types of actions than verb roots. For instance, some verbalizing action suffixes denote a generalized type of action like 'consume', whereas verb roots in the same semantic domain express a specific subtype of that action like 'eat' and 'drink'. Consider these Nuuchahnulth examples:

(280)	NUUCHAHNULTH Suffix – action hypernym – ' <i>i</i> 's 'consuming'	Root – action hyponym haŵa- 'eat' naq- 'drink'
	-(y)u?ał 'perceive (perf.)'	<i>ňač</i> - 'look, see' <i>na?a</i> ' 'hear, understand, perceive'
	- <i>ca</i> - 'go to'	yac- 'walk, step, go' kamitq ^w - 'run' mat- 'fly' sus- 'swim'
	-a·ta 'directing action, blows at'	<i>his</i> 'hit with beating instrument' $\hat{\lambda}upk$ - 'hit with beak, peck' $\hat{\lambda}aph$ - 'slam broad object against' cuq^{w} - 'punch' cux^{w} - 'stab'

Eating and drinking are kinds of consuming, or, put differently, specific manners of action that effect the more general action of consuming. In the same way, seeing and hearing are ways of perceiving, and hitting, slapping, pecking, punching, etc. are all ways of directing blows. Even in cases where translations do not make the contrast apparent, there are usually subtle differences in usage between roots and suffixes with similar meanings, e.g. the free verb root N *nunu*'k, M *dudu*'k 'singing' denotes the activity of singing per se, while the suffix N *-iyaqh*, M *-eyax* [R] 'singing ... song' denotes the performance of a particular song denoted by the base. See §4.6.1.1 for examples of how these general-action verbalizing suffixes are used in conjunction with manner roots in discourse.

Despite the tendency of verbalizing action suffixes to denote more generalized types of action, there is also a set of verbalizing suffixes with surprisingly specific meanings relating to ritual or ceremonial activities, e.g. N - 'ay'imč 'doing ritual for ... weather', N -?a'mač [L] 'signifying, auguring, casting a spell for ...', N -simč, M -subač [L] 'doing ritual for ...', N -cawinyuk [L] 'doing (esp. give a potlatch) on account of, in honor of ...', N -. 'int, M -. 'idit [L] 'giving a feast of ...', N -sirh?i: 'go to ... on a gift visit', N -tu:ta [L] 'giving a potlatch or ceremony in honor of ...'. Sapir (1912, reprint 1949: 99-100, 1916, reprint 1949: 444) famously cites the existence of such suffixes as evidence for the importance and antiquity of these ritual activities, par-

ticularly those having to do with the potlatch, in Nootkan culture.

Examples of verbalizing action suffixes

(281) N -(\check{c})*i*:t [sometimes L], M -(k^{w})*i*:t [sometimes L+S] 'making ...'

NUUCHAHNULTH a. $\dot{c}i\cdot\dot{h}ati\cdot\dot{i}\dot{s}i\hat{a}\lambda\lambda a'$ $\dot{c}i\dot{h}at-(\dot{c})i\cdot\dot{i}[L]-\dot{s}i\lambda = \dot{a}\lambda = \lambda a:$ arrow-make-PERF=TEMP=again

'They again start making arrows.' (NA 15.43)

b.	?u'ḥŵinkck ^w i	?ink ^w irł	pu'?ak?i	₽iyarlqi?a
	?u–ḥwink ^w [L]–ck ^w i	?ink ^w –(č)i:ł	pu' = ?ak = ?i'	₽iyarl–qi′–. 'a'
	so.and.so-use-havinged	fire–make	gun=POSS=ART	plume-on.top-on.rocks

'Plumed-Head (man's name) had used his gun in making fire.' (NA 405.35-36)

c.	k ^w isi'yisanap	ma hťiqi lšiλčip
	k ^w is-ci [•] 4-'isanap	$mahti - q - (c)irt [L] - si\lambda - cip$
	different-on.the.X.edge-on.beach.CAUS.PERF	house-BFR-make-PERF-BEN

'He took her to the other end of the beach and built her a house.' (NA 161.8)

MAKAH

d. $\hat{\lambda}axa'\hat{\lambda}a'x\check{s}^{2}a\hat{\lambda}$ $\hat{\lambda}aZ''$ adze-REP-PERF=TEMP $\hat{\lambda}a^{2}u'$ $\hat{\lambda}a^{2}u'$ $\hat{\lambda}a'u'$ $\hat{\lambda}a'u'$

'He began adzing again, making arrows.' (MP, Qweti and his Mother)

e. $2a \cdot dak^{w} i \cdot t \check{c}^{2} i$ $2a da \cdot k^{w} - (k^{w}) i \cdot t [L+S] = \check{c}^{2} i$ fire-make=GoIMPER.2sg

'You go build a fire!' (HI)

f. $kakwałš?a\lambda$ basket*i*'łiq $kakwał-ši\lambda = `a\lambda$ basket- $(k^w)irl = `iq$ lost-PERF=TEMP basket-make=ART

'The (skill of) basket-making is lost now.' (KH)

(282) N - 'aýimč [L] 'presaging, forecasting, doing ritual for ... weather'

NUUCHAHNULTH a. *2u'paýimč 2up-`aýimč* [L] calm-presage.X.weather

'presaging calm weather'

b. $2u^2Ayim\check{c}a\lambda qa$ $2u:q-ayim\check{c}[L] = a\lambda = qa'$ $yu:q^wa'$ $yu:q^wa'$

?u'?aýimčaλ ?u:q-'aýimč [L] = 'aλ pleasant.do.ritual.for.X.weather=TEMP

'The geese on their part do ritual for good weather.' (NA 13.11)

c. wi'2aýimč?a'ła wi'q-'aýimč = ?a:ła stormy-presage.X.weather=HAB

'It is a sign of bad weather.' (NA 162.4-5)

(283) N -*yi*'*ha*, M - '*i*'*xa* 'die of ...; suffer from excess of ...'

	NUUCHAHNULTH			
a.	yaq ^w in <i>ì</i> i'	?ayims	ćaxýi ha	qu'?as
	$yaq^{w}-a'nu'\lambda = (y)i$?ayims	ćax ^w –ýi:ha	qu'?as
	that.which-for.X.reason=INDEF	often	hurl.point.foremost-die.of	person

'That is why people are often speared to death.' (NA 85.2)

b. ni' hakuýiha λin ni' haku-ýi ha = 'a λ = (m)a' = ni DISC hunger-die.of=TEMP=INDIC=1pl

'See, we are starving.' (NA 449.45)

c.	х́иру́і haλ	λ̃iλkši?aλ	k ^w atya't
	$\lambda um - \dot{y}i \dot{h}a = \dot{a}\lambda$	$\hat{\lambda}i\lambda k$ — $\check{s}i\lambda$ = ' $a\lambda$	k ^w atya [•] t
	hot-suffer.from.excess.of=TEMP	inflated-PERF=TEMP	Kwatyat

'Now Kwatyat was perspiring and swelled up like an inflated bladder.' (NT 40.8)

MAKAH

d. $wikirtxa\lambda itward$ hak?ux $wikirt-(x)x = 'a\lambda = wa:da$ haku-'irxanobody-meanwhile=TEMP=QUOT.3sg hunger-suffer.from

'Nobody was hungry.' (HW, Bible)

e. $baq?ixa^{2}u$ $baqi-'ixa = 'a\lambda = (b)u = i$ what-die.from=TEMP=PAST=INDIC.3sg

'What did he die of?'

f. $tu\dot{p}a'yi\dot{x}a'\lambda itwa'd$ $tu\dot{p}at-'i'\dot{x}a = 'a\lambda = (b)it = wa:da$ salt.water-die.from=TEMP=PAST=QUOT.3sg 'He drowned (in salt water).'

Verbalizing state suffixes cover a wide range of notions, including mental states, attitudes, and proclivities of the subject (N -*awit*, M -*urt* [L] 'expecting ...', N -*ma2i:qλ*, M -*beyaqλ* 'wanting to ...', N -*nahi* [L] 'ready, intending to ...', N -*sim*, M -*suba* 'needing ...', N -*hsa*', M -*xsa*' 'desiring to eat ...'), physical characteristics (N -*htin*, M -*xtida* 'made of ...', N, M -*kuk* [R] 'resembling ...', N -*pu'qs* 'smelling of ...', N -*yuk* 'wrapped in ..., covered over with ...'), and others that are less easily categorized (N -*chi*, M -*cxi* 'married to ...', N -(*č*)*ta*', M -(*k*)*ta*' 'having ... as name', N -*na'k*^w, M -*da'k*^w 'having ...').⁸⁰

Examples of verbalizing state suffixes

- (284) N -atah, M -a:tax -atax [L] (also [R], [R+L] in Makah) 'lying in wait for, trying to get; [R] 'ready to, about to ...'
 - NUUCHAHNULTH a. ... $\dot{c}u\dot{c}uckata\dot{h}\dot{s}i\hat{a}\hat{\lambda}$ $\hat{\lambda}isa\dot{d}\hat{i}i...$ $\dot{c}uck-ata\dot{h}$ [R]- $\dot{s}i\hat{\lambda} = \hat{a}\hat{\lambda}$ $\hat{\lambda}isa\dot{d} = \hat{i}i...$ tip.over-ready.to-PERF=TEMP blanket=ART...

'The (pile of) blankets became wobbly.' (NA 302.33-34)

b. $2ir\dot{c}arpapa\lambda$ $his\dot{y}akuk?i$ $hihisatah?a\lambda$ $2ir\dot{c}arpi='ap='a\lambda$ $his-\dot{y}ak^w=uk=2ir$ his-atah [R]='a\lambda lifted.up-CAUS=TEMP strike-thing.for=POSS=ART strike-ready.to=TEMP

'He raised his axe, ready to strike.' (NA 401.35)

c.	haši'či?aλ	či či łata <u>h</u> ?i	ťuk ^w a ?ath
	hašił–'ačiλ = 'aλ	$\dot{c}i:$ <i>t-ata</i> h [R] = ? <i>i</i> '	ťuk ^w a ?ath
	have.news.of-INCEP=TEMP	escape-ready.to=ART	Tukwa

'The Tukwa man who was preparing to escape heard that ...' (NA 406.50)

MAKAH

d. $huhuxši\lambda ataxkuw$ šučasiq $hux-ši\lambda-atax$ [R]-kuk = i šučas = iqfall.over-PERF-about.to-look.like=INDIC.3sg tree=ART

'The tree looks like it's about to fall over.'

e. *kikiłatqa taxxa łš kiłat-q-a:tax* [R] = *xa:łš* fur.seal-BFR-try.to.get=INFER.3pl

'I guess they're after fur seal'

f. waw?aqa^taxuwis wa?aq-a:tax [R]-ut^w-'is perch-try.to.get-place-on.beach

'Beach-place-for-catching-Perch (place name)'

(285) N-chi, M-cxi 'married to ...'

NUUCHAHNULTH a. $hitachinu?a\lambda$ tuša'k?i $\dot{c}u'\dot{c}kchin\lambda$ $hita-chi-nu\lambda = 'a\lambda$ tuša'k = ?i' $\dot{c}u'\dot{c}k-chi-nu\lambda$ empty.root-married.to-PERF=TEMP rascal=ART both-married.to-PERF

ma?aḥ?i ma?aḥ=?i pair.of.sisters=ART

'The rascal then became her husband, became the husband of both sisters.' (NT 84.1)

b. ...*masčimcḥinλ*... *masčim-cḥi-nuλ* commoner-married.to-PERF

'She had married a commoner.' (NT 132.26)

c. ...?ani cišar?aqsupchiqa... ?ani cišar-.'aqsup-chi=qar SUBOR Tsishaa-woman.of-married.to=SUBOR

'... because he was married to a Tsishaa woman' (NA 387.17)

MAKAH

d.	wiki [*] beyaq λs wik-i [*] -beyaq $\lambda = s$?ucxidiλ ?u–cxi–diλ	ka'šču?u'?iq ka'šču?u:=°iq
	not-EPEN-want.to=INDIC.1sg	DEM	so.and.so-married.to-PERF	hair.seal=ART

'I don't want to marry these seals.'

λax^wacxidi'yiks
 λax^wa-cxi-diλ = 'eyik = s
 ten-married.to-PERF=FUT=INDIC.1sg

'I will marry ten!'

f. $hidi ?a\lambda it$ $?a\lambda i tq wat$ katsaciq $hida-i = 'a\lambda = 'it$ $?a\lambda i tq wat$ kaT-sac = `iqempty.root-give=TEMP=PINV black.bear oil-container.for=ART

yaqcxiq $yaq^{w}-cxi=(q)i$ one.who-married.to=REL.3sg

'Bear was given the oil bowl by his wife.' (HW, Raven and Bear)

- (286) N, M -i:c 'belonging to ...'
 - NUUCHAHNULTH a. $2i\cdot hturpi\cdot cuk^w ah$ $2i\cdot h^w - (š)turp - i:c = uk = (m)a^r = ah$ big-thing-belong.to=POSS=INDIC=1sg DEM sing.tama.song-thing.for=ART

'This tama song of mine belonged to a whale.' (NT 154.17)

b. $2uk^{w}i\cdot cah$ $2uk^{w}a-i:c = (m)a' = ah$ oneself-belong.to=INDIC=1sg

'It is my own' (NA 172.9)

c. wiki'cma tupa'ti... wik-i:c=ma' tupa'ti not-belong.to=INDIC tupati

'No one owns the tupati (ritual prerogative).' (NA 69.28-29)

MAKAH

d. $baba{diqi}\dot{c}iks\dot{s}?a\lambda du$ $ba-ba{d-q-i:c-'iks-\dot{s}i\lambda = 'a\lambda = du:$ dwelling-moving.about-on.water-BFR-belong.to-consume-PERF=TEMP=1pl food

'Now we eat whiteman's food.' (KH)

e. $2ucu^{2}aps$ Maria $2u-i:c-u^{2} = ap = s$ Maria so.and.so-belong.to-APPEN=CAUS=INDIC.1sg Maria

'I'm saving it for Maria.'

f. *ya'daqi'c katałyak ya'daq-i:c kaT-ał-yak*^w baby-belong.to oil-on.external.surface-thing.for

'baby oil'

(287) N -či, M -či 'at; in ...'; N [LR] 'attached to ...'

	NUUCHAHNULTH					
a.		'ḥtu'p?i				
		$\dot{h}^{w} - (\check{s})tup =$	· · ·	1		
	stop–PERF big	g–thing=ART	canoe-in-	in.vessel		
	'The whale st	copped in the ca	anoe.' (NT 142	2.35)		
b	ġa't₽i?aλ	ha'v	virhat?i	čiłani hči		
0.				$\check{c}iid(q)imd-iih-\dot{c}$	<i>i</i> i	
			young.man.PL=ART woven–over.round.surface–PL–in			
		-	-			
	Men went to	get the cargo	in the woven b	ags.' (NA 161.41)		
c.	maλis	?u [,] ?uk ^w is		?iłčmapt?i		
	maλ–'is	?u– <u>č</u> i [LR]–	<i>`is</i>	$\frac{1}{2it}\check{c}-mapt=?i$	•	
				h dog-tree=ART		
	'It was tied on the beach to a willow tree.' (NA 23.44)					
d.	MAKAH					
	dač?ołits		?uči [,] čakt	tuṗałiq		
	$da\check{c}_{u}^{2}a\dot{q} - ($	h) $it - s$	$2u - \check{c}i - a \check{c}$	akt tuňal-	°ia sus_uk	

c.	ma <i></i> tis	?u'?uk ^w is	₽iłčmapt?i…
	maħ–ʿis	?u− <u>č</u> i [LR]−`is	$2it\dot{c}-mapt=2i$
	tied-on.beach	so.and.so-attached.to-on.beach	dog-tree=ART

C $da\check{c}-u?a\dot{t}=(b)it=s$ *?u–či–a*'čakt tupal = iqsus-uk look-perceive=PAST=INDIC.1sg so.and.so-at-on.ocean salt.water=ART swim-DUR

'I saw it swimming around in the ocean.'

łučč?etxwa'd e. $4u\check{c}-\check{c}i-iatx = wa:da$ woman-at-dwelling=QUOT.3sg

'I hear he's living with his wife's people.'

5.4.2 Nominalizing suffixes

Nominalizing suffixes denote superordinate classes of things like N -(\check{s})turp, M -(k)turp '... species, genus, class, ... type of creature, object' and N -mapt, M -bap '... plant, tree, bush; M ... material'. The base specifies which particular subclass of the superordinate suffix category the resultant derived noun denotes, e.g. M cikyešbap 'elderberry bush' (cikyeš- 'elderberry'). There are nominalizing suffixes denoting classes of persons (N, M -. 'aqsup 'woman of ... tribe', N, M -(q)a's 'daughter of ...', N, M - 'aq λ 'expert at ...'), objects and instruments for various purposes (N -hta', M -xta'... instrument', N -(c)sac, M -(k)sac 'container for ...', N -acus, M -acis 'surface for ...'), and other miscellaneous notions.

Nakayama (1997a: 45-46) points out a clear semantic contrast between the generic, superordinate classes of entities expressed by nominalizing suffixes and the more specific entities expressed by noun roots, e.g. next to N -(\check{s})tu^p, M -(k)tu^p '... species, type of thing' we find noun roots like N *na*·<u>h</u>*tač*, M *da*<u>x</u>*atač* 'mallard duck' and N *mi*²*a*^{*t*}, M *biqa*^{*t*} 'sockeye salmon (name when in lake)'.

An important and commonly used subclass of nominalizing suffixes are the enumerative suffixes, which attach only to quantity/quantifier bases like N ?aya, M ?akyi'q 'many' and numerals. These are similar to numeral classifiers in languages like Chinese in that they index certain physical or configurational properties of quantified entities, e.g. N ?a λ qimł, M ?a λ qapł 'two roundish or chunky objects', N ?a λ pi'ł, M ?a λ a'pa'yił 'two long, broad objects', N ?a λ ciq, M ?a λ a'ciq 'two long, thin objects'. Although they can be used independently as nouns, classified quantifier words are generally used to modify a noun denoting an entity of the appropriate type, e.g. N ?a λ pi'ł nitup 'two beams'. Not all enumerative suffixes are nominalizing suffixes. For example, the suffixes N -q?ičh, M -qičx 'for ... many years' and N -či'ł, M -čeyał 'for ... many days' are nuclear temporal suffixes (for which see §5.4.4).

Examples of nominalizing suffixes

(288) N -(š)tup, M -(k)tup '... species, type of creature, being, thing'

a.	NUUCHAHNULTH ?i'ḥtu'p ?i'ḥ ^w -(š)tu'p big-thing 'whale'	b.	$k^{w}is - (\check{s})tu^{r}p$ different-thing	c.	<i>sašturp</i> <i>sa–(š)turp</i> crawl–thing
a.	whate dax tup dirdax -(k)turp low.tide-thing 'small, black chiton sp.'	b.	'supernatural being' $k^{w}isturp$ $k^{w}is-(k)turp$ different-thing 'supernatural being'	c.	'animal' <i>xikturp</i> <i>xi-(k)turp</i> crawl-thing 'animal'

(289) N -(c)sýi, M -(k)si?i' 'medicine for ...'

a.	NUUCHAHNULTH Χ΄aýaxsýi Χ΄aýax ^w –(c)sýi move.quickly–medicine	b.	našsýi naš.–(c)sýi strong–medicine	c.	wi?aksýi wi?ak ^w –(c)sýi invulnerable–medicine
	'medicine for fleet running'		'strength medicine'		'medicine for being in- vulnerable'
a.	макан <i>puxsi?i</i> <i>pux–(k)si?i:</i> inflate–medicine.for	b.	<i>ģiwi 'šaqsi ʔi '</i> <i>ģiwi 'šaq–(k)si ʔi ː</i> healed.up–medicine.for	c.	<i>wasaqsi?i</i> <i>wasaq–(k)si?i:</i> cough–medicine.for
	'baking powder, yeast'		'medicine for wounds'		'cough medicine'
(290)	N, M -(.?) ut^{w} ' place, pla	ice o	f'		
	NUUCHAHNULTH				

a.	$\dot{c}axu\dot{w}a?a$ $\dot{c}ax^w-ut^w-\dot{a}a$ spear-place-on.rocks	b.	<i>ḥusuŧ ḥus−uŧ</i> ^w salt.water–place	c.	<i>ku∙qu</i> ł <i>ku∙q−u</i> ł ^w stalk–place
	'place for spearing'		'Salt-water-Place (place name)'		'hunting ground'
a.	MAKAH bako'was $bak^{w}-ut^{w}-'as$ buy-place-on.ground 'store'	b.	<i>ha'wa?uwił</i> <i>ha'wa–.?uł^w–'ił</i> eat–place–in.house 'dining room'	c.	<i>turd?axuł</i> <i>turd?ax–uł</i> ^w cattail–place 'Cattail-Place (place name)'

5.4.3 Quantifier suffixes

There are also a few quantifier suffixes. These are semi-productive at best. Most are nonproductive. The suffix N $-\dot{m}a^{*}$ '... in quantity, degree' occurs in a few words like N $q^{w}a\dot{m}a^{*}$ 'thus many' $(q^{w}a^{-}$ 'thus, such' $+ -\dot{m}a^{*}$) and N $2iq\dot{m}a^{*}$ 'the same number' (2iq 'same' $+ -\dot{m}a^{*})$. The suffix N, M $-i\cdot q^{w} - i:q^{w}$ '... many score' attaches to numeral roots, and a few non-numeral quantifier bases: N, M $2a\lambda i\cdot q$ 'forty' ($< 2a\lambda a$ 'two' $+ -i\cdot q^{w}$), N $hayu\cdot q$ 'ten score' (hayu 'ten' + $-i\cdot q^{w}$), N $q^{w}a\dot{m}i\cdot q$ 'thus many score' $(q^{w}a^{-}$ 'thus, such' $+ -\dot{m}a^{*}$ '... in quantity' $+ -i\cdot q^{w}$), M $2akyi\cdot q$ 'many' (2aya 'many' $+ -i\cdot q^{w}$, with velar increment). N $-\dot{t}im$ [L] '... many at a time' probably belongs in this class as well, but is not well attested at present.

5.4.4 Temporal suffixes

Finally, there are a few nuclear temporal suffixes. These include several enumerative suffixes (e.g. N -*či·*t, M -*čeyat* 'for ... many days', N -*pinq* '... many times around', N, M -*pit* '... many times', N -*qič*h, M -*qič*x 'for ... many years'), which, like enumerative nominalizing suffixes, occur only with quantifier or numeral bases: N $2a\lambda cirt$, M $2a\lambda ceyat$ 'two days' ($2a\lambda$ - 'two' + -*cirt*, -*ceyat*), N 2urspit 'sometimes' (2urs 'something, someone' + -*pit*). There is also a suffix meaning 'at ... time', which occurs in several allomorphs: N 2uyi, M 2uyu 'at so-and-so time, when' (2u- 'so-and-so' + -*yi*, -*yu*), N 2ah2aryiya 'at that time' (2ah2ar 'then' + -(*y*)*iya*), N 2upiya 'in calm weather' (2up- 'calm weather' + -(*y*)*iya*).

5.5 Restrictive suffixes

Restrictive suffixes are divided into five classes. The first two, path-orientation and locative suffixes, account for the majority of the restrictive suffixes and together form a significant subclass, the spatial disposition class, concerned with the expression of motion and location. They frequently occur in sequences of path-orientation suffix + one or more locative suffixes. See (264) above, and (291)-(292) below, for instance (§5.1). These sequences allow very precise localization of situations and participants, a capability necessitated by the languages' almost obsessive insistence on expression of spatial orientation and location.

5.5.1 Path-orientation suffixes

Path-orientation suffixes express various notions of physical orientation and spatial relation, particularly the motion or location of an entity with respect to a certain path. As will be seen in examples below, path-orientation suffixes normally attach to the clausal predicate head, expressing the physical orientation or path of motion of its subject. The manner of motion, if expressed, is usually the base to which the path suffix attaches, e.g. (292). There are two path subclasses based on inherent aspectual value. The first is the perfective directional class, which expresses motion in a particular direction. This involves suffixes like N, M - k^{wist} - 'move away (perf.)', N -wahsu(t), M -waxsit 'N move out, M move out of mouth (perf.)', N -2a?atu, M - 'adatu 'move down, off (perf.)', and N -(c)sta', M -(k)sta' 'move down into (perf.)', e.g.

(291) N, M - k^{wis-t-} 'move away (perf.)' (must be followed by locative suffix)

NUUCHAHNULTH a. $hitak^{w}ista^{2}a\lambda we^{2}in$ $hita-k^{w}ist-'a^{2}a = 'a\lambda = we^{2}in$ empty.root-move.away.PERF-on.rocks=TEMP=QUOT attack-move.away.PRF-on.rocks=TEMP

'They started out from their ambush among the rocks.' (NA 350.26-27)

b. $\dot{y}akk^{w}istahs\dot{m}inh?a\lambda$ $\dot{y}ak-k^{w}ist-\dot{a}hs-\dot{m}inh=\dot{a}\lambda$ in.view-move.away.PERF-in.vessel-PL=TEMP

'They all showed themselves from in the canoe.' (NA 241.34)

c. $hi\check{c}k^{w}isa\dot{n}a\dot{p}a\lambda$ $hi\check{c}-k^{w}is-sa\dot{n}ap = 'a\lambda$ illuminate-move.away.PERF-on.beach.CAUS.PERF=TEMP

'They startled them (the birds) off the beach with light.' (NA 13.32)

d.	макан ?ackatk ^w isća [,] l	wa'qidiq
	$Packat-k^{w}is-\dot{c}u'=a\lambda=\hat{i}$	wa'qit=°iq
	jump-move.out.PERF-in.container=TEMP=INDIC.3sg	frog=ART

 $yat\dot{c}i\dot{c}ubitqey$ $yat-\dot{c}i-\dot{c}u' = (b)it = qeyu$ where-at-in.container=PAST=COND.3sg

'The frog jumped out of the container he was in.' (RC, Frog)

(292) N -2a'?atu, M - 'aqatu 'move down, off (perf.)'

- NUUCHAHNULTH a. $\dot{c}itk$?a'? $a\dot{t}as$? $a\lambda$ $\dot{c}itk$ -?a'?atu-'as = ' $a\lambda$ roll-move.down.PERF-on.ground=TEMP
 - 'It rolled downhill.' (based on NA 370.2)

b.	$\check{c}i'2a'ita\lambda$ $\check{c}i'-2a'itu=ia\lambda$ pull-move.down.PERF=TEN	<i>ŧu?uk</i> <i>ŧu?uk</i> MP board.	· · · ·
	'Boards were pulled down	.' (NT 136	5.22)
c.	<i>mat?a'?ataλ</i> <i>mat-?a'?atu = 'aλ</i> fly-move.down.PERF=TEMP	<i>ma'ma'ti</i> <i>ma'ma'ti</i> bird=ART	
	'The bird flew down.'		
d.	MAKAH $ka^{w}a\dot{q}ata^{l}$ $kax^{w}-'a\dot{q}atu = 'a\lambda = i$ fall-move.down.PERF=TEMP=	=INDIC.3sg	wikwi'ya'wičiq wikwi'ya:k ^w =°ič=°iq boy=DIM=ART
	'The little boy fell off' (R	C, Frog)	

The 'move' element in the meaning of these suffixes (sometimes also glossed as 'go', although path suffixes express no deixis relative to the speaker's location) is believed to be a result of their perfective aspect value, rather than any inherent verbal force per se.

The second path subclass expresses perfective motion along a path when affixed to verbal bases or the empty root N *hita- hina- hin-*, M *hita- hida-*, but static location along or on the same path when affixed to bases of other classes, e.g. N, M *-cpa' -pa'* 'go over, past (perf.); on the side, end', N *-in2atu* 'go up the coast (perf.); up the coast', N *-(c)swi'*, M *-(k)swi'* 'go through (perf.); extending through'.

(293) N -(*c*)*swir*, M -(*k*)*swir* 'go through' (with verbal bases or *hita*-)

a.	NUUCHAHNULTH $?a\dot{h}?a'?a\dot{\lambda}$ $?a\dot{h}?a' = 'a\dot{\lambda}$ then=TEMP	$\dot{c}ax\dot{s}i\partial a\lambda$ $\dot{c}ax^{w}-\dot{s}i\lambda = a\lambda$ spear-PERF=TEMP	ćax	?akuk?i ∽–ýak ^w =uk=?i ∽–thing.for=POSS=ART	
		αλ = ?ak = 'ap = 'aλ h.perf=poss=caus=	TEMP	<i>yaq^w?ič?itq</i> <i>yaq^w-?ič=?irtq</i> that.which-clothed.in=DEF	quq ^w a's?i [R]–qu'?as = ?i' PL–person=ART

*tiq^wiłmin*h *tiq^w- 'ił-min*h sit-in.house-PL

'Then they thrust their spears through the clothing of the people seated in the house.' (NA 65.27-28)

b.	hitacswi	?ink?i'	₽i∙k ^w ink?i
	hita–(c)swi'	?ink ^w =?i'	$2i'k^w - (\check{c})ink^w = 2i'$
	empty.root-go.through.PERF	fire=ART	pair.of.brothers-together=ART

'The brothers went through the fire together.' (NA 129.24)

MAKAH c. *hitakswi'?al hita*-(k)*swi'* = ' $a\lambda$ = 'i empty.root-go.through.PERF=TEMP=INDIC.3sg

'He/she/it went through.'

(294) N -(*c*)*swir*, M -(*k*)*swir* 'through' (with bases other than verbs or *hita*-)

	NUUCHAHNULTH	
a.	kuḥswi'?akwe?in	nitup
	$kuh^{w}-(c)swir = ?ak = wer?in$	nitup
	hollow-through=POSS=QUOT	beam

'They say their beams have holes through them.' (NT 168.22)

b. $...\lambda ikswi ?a\lambda$?ah $\lambda ik-(c)swi = `a\lambda$?ah hands.located-through=TEMP DEM

'His hand stuck through (the wrapping) here.' (NT 164.7)

c.
$$kuxsu'wi'?$$

 $kux - \langle u' \rangle - (k)swi' = i$
hole- $\langle epen \rangle$ -through=INDIC.3sg

'It has a hole through it.'

Some path suffixes occur obligatorily with a following locative suffix. These are indicated by

a final hyphen, e.g. $-k^{w}is-t$ - above.

The examples in (295) and (296) show two suffixes expressing notions of physical orientation and spatial relation other than path, N - $s\dot{y}u$: \dot{c} - $(\dot{y})u$: \dot{c} , M -yu: \dot{c} [L] 'exposed, extending out, in view' and N, M -(.?)at 'attached on'.

(295) N -sýu:č -(ý)u:č, M -yu:č [L] 'exposed, extending out, in view'

NUUCHAHNULTH a. ... hur?aksýurčičim hur?ak^w-sýu:č [L] = 'irčim early-exposed=FUTIMPER.2pl 'Be up (i.e. out of bed) early!' (NT 180.9)

b.	na'λksýu'či?aλλa'	λitink?i	ya'	qu'?as?is?i
	$na\lambda k$ -sýu:č [L]-i λ = 'a λ = λa :	λitink ^w =?i	ya'	qu'?as = ?is = ?i'
	feet.located-exposed-PERF=TEMP=again	cape=ART	DEM	person=DIM=ART

'The little person again put his foot out of the cape (enfolding him).' (NT 90.20)

c.	макан qi'yu'čâλitsi'cux	hid?aw
	$qi'-yu:\check{c}$ [L] = $\dot{a}\lambda = (b)it = si:cux$ long time-exposed=TEMP=PAST=INDIC.1sg/2sg	<i>hida-'awi</i> empty.root-wait.for

'I was awake a long time waiting for you.'

(296) N, M -(.?)at 'attached on'

	NUUCHAHNULTH			
a.	susučaqimłałuk	čimun	ċawa ' k	qu'?as
	$[R]-su\dot{c}a-qim i-(.?)ai=uk$	čimun	ċawa–?ak ^w	qu'?as
	PL-five-X.many.round.objects-attached=POSS	halibut.hook	one-DUR	person

'Each person's (halibut) line has five hooks on it.' (NA 21.48)

b.	?u?a‡?aħ	maħał	λuk [™] i∙t?i
	$2u-(.2)at = a\lambda$	maħ–(.?)ał	λuk ^w i∙t=?i′
	so.and.so-attached=TEMP	tie-attached	stout=ART

 $2a\lambda yaqanuł...$ $2a\lambda -yu'-q-a'nu(l)$ twist-having.been-BFR-along.length

'A stout cedar-branch rope was tied on to it.' (NA 13.9)

5.5.2 Locative suffixes

The locative class includes well over 100 suffixes expressing location. Like path-orientation suffixes, locative suffixes attach to bases of all classes. They usually express the location of the referent of their morphological base, or its subject, if it is a predicate head. Locative suffixes belong to two formally and semantically distinct subclasses, the locale class and the site class. There are four locale suffixes:⁸¹

N - 'a'?a, M - 'a'	'on the rocks; N in the fire'
N, M - 'as	'on the ground, outside the house, in the village'
N, M - ' <i>it</i>	'in the house, on the floor'
N, M - ' <i>is</i>	'on the beach'.
They are formally distinguished from site suffixes by three main criteria:

- All four have suppletive portmanteau perfective aspect allomorphs, e.g. N 'u'λ, perfective of 'a'?a 'on the rocks', N -('i)piλ, M -paλ, perfective of 'it' in the house'. Site suffixes do not have suppletive perfective forms unless they contain one of the locale suffixes as an ety-mological component, e.g. the site suffix N -a'yirt 'on a raised platform in the house; in the sky', which is probably a fossilized combination of -a's 'on a horizontal surface' and 'it' in the house', has the perfective form -a'yipiλ.
- Locale suffixes are in paradigmatic opposition; unlike site suffixes, locale suffixes do not cooccur.
- Locale suffixes always occur last if they appear in sequences of multiple spatial suffixes unless they are lexicalized as part of the base.

There are also semantic differences between locale and site suffixes. Locale suffixes divide the world into four broad zones or spheres of activity in which events and objects can be situated (297). They express the equivalent of Talmy's (2000) "locale" semantic category, which, in his words, "pertains to the type of area or physical setting in which an event takes place". He cites cognate Kwakwala suffixes as examples of this category. Example (298) shows three Nuuchahnulth words with N - 'a'?a, M - 'a'.

(298) N - 'a'?a, M - 'a' 'on the rocks; N in the fire'

а	nuuchahnulth ci?a'?a?aħuk	λaqmis
	$\dot{c}i-\dot{a}$ ' a '? $a=\dot{a}\lambda=uk$	λaqmis
	pour-in.fire=TEMP=POSS	oil
	'One's oil is poured on	the fire.' (NA 167.12)

b. *kiċa*·?a λatmapt... *kic*-'a·?a λatmapt stick-in.fire yew

'A yew log was put on the fire.' (NA 172.16-17)

c. *mał?a*'?ama?a'ła $\dot{m}a\dot{q}$.-'a'?a = ma' = ?a: $\dot{q}a$ cold-on.rocks=INDIC=HAB 'It is always cold on the rocks.' (NA 80.21)

Site suffixes express location relative to body parts, objects in nature, man-made objects like

containers and house parts, and also to more abstract geometric notions like 'behind'.

(299) N -(w)int, M -adit [L] 'on the neck'

NUUCHAHNULTH a. *hi*'ninim hina–(w)inł [L]-im empty.root-on.neck-thing 'necklace'

b.	?u [,] caḥtaksa	₽a′pk ^w inawi?at	ča'stimcmit
	?u [.] caḥtaksa	$2apk^{w}$ –(w)inawi λ [L] = 'at	ča'stimc–ḿi't
	at.once	hug-on.neck.PERF=PINV	mink-son.of

'At once it hugged Mink about the neck.' (NT 82.35)

c. ta'q^winawi?at $ta'q^{w} - (w)inawi\lambda$ [L] = 'at squeeze-on.neck.PERF=PINV

'They were strangled.' (NA 359.3)

МАКАН ' ¹⁹а д

d.	$hi'dad?a\lambda$ $hida-adi\lambda$ [L] = 'a λ empty root-on neck PERF=TEMP	<i>tar?aduba?urc</i> <i>ta-adit-uba = 'u:c</i> object on line-on neck-thing=POSS 3sg
	empty.root-on.neck.PERF=TEMP	object.on.line-on.neck-thing=POSS.3sg

'She put her necklace around her (own) neck.' (HW, Sky Man)

(300) N -*na*·*qi*, M -*da*·*qi* 'up on a height'

a.	NUUCHAHNULTH <i>mu'čiʻł'naqi mu'–čiʻł–'na'qi</i> four–X.many.days–on.height	<i>hiŧ'na∙qi</i> <i>hiŧ–'na∙qi</i> there–on.height	<i>?e?i·h?i</i> [R]– <i>?i·h^w=?i</i> · PL–big=ART	<i>nu'čyu'</i> <i>nuč–yu'</i> [L] mountain–PL		
	'Four days he stayed on the high mountains.' (NA 49.2)					

b. hininganu?a^λ wayi?i... $hina-\dot{n}a$ ' $qi-nu\lambda$ = ' $a\lambda$ $\dot{w}a:vi = ?i'$ empty.root-on.height-PERF=TEMP Wayi=ART

'They climbed the hill at Wayi (place name).' (NA 337.17-18)

c.	yacna'qinuλ	₽u'₽uq ^w acqi
	yac–n'a'qi–nut	[LR]–2uq–ac–qi
	step-on.height-PERF	PL-urinate-container.for-on.top

'He climbed up Bladders-on-Top (place name).' (NA 147.44)

(301) N -(c)s?atu., M -(k)s?ati?i' [L] 'at the door'

	NUUCHAHNULTH			
a.	ňa'csa'ħḥak	yarł	ťaši ?i	?a'qs?atu?i
	$\dot{n}a$ csa = $\dot{a}\lambda = \dot{h}a$ = k	yarl	ťaši = ?i	?aq-(c)s?atu. [L] = ?i'
	see=TEMP=INTERR=2sg	yonder	door=ART	wide-at.door=ART

'Did you see the wide doorway there?' (NT 154.1)

b. $hirls?ata\lambda qur$ čarni iašir?ihil-(c)s?atu. [L]= 'a λ =qu: čarni iašir=?irthere-at.door=TEMP=COND for.a.while door=ART

'He would stay for a while at the door.' (NA 81.7)

c. $2u \cdot 2i \cdot cs \cdot 2atu \cdot 2asni$ $2u - 2i \cdot -(c) \cdot s \cdot 2atu$. [L]-'as = ni'so.and.so-get.to.be.at.PERF-at.door-on.ground=1pl 'We reached the door.' (NA 143.11-12)

The property word $2a \cdot qs 2atu$ 'wide (door)' in (301)a is an example of a secondary, classificatory function in both Nuuchahnulth and Makah performed by locative suffixes. In this use, a locative suffix attaches to a predicate head to index or classify its overt or implied subject, e.g. the locale suffix -'a·2a 'on the rocks' attached to N *mit*.- 'smooth' in (302) forms N *mit2a*·2a 'smooth (said of a rock)', which is predicated of the noun N *muksyi* 'rock'.

(302) NUUCHAHNULTH mi i ?e'?e?i mu ks yi mi i .- 'a'?a = ?i' mu ks yismooth-on.rocks=ART rock 'the smooth rock' (NT 94.27)

The classificatory use contrasts with the more usual locative function, in which the suffix specifies the location of the subject rather than its type. The regular locative function of 'on the rocks' is, in fact, also shown in the very sentence from which the RP in (302) was drawn. Attached to the main predicate head, the suffix (in its suppletive perfective form) specifies the location of the subject (Pitch-Woman); the classificatory reading is obviously nonsensical here: she is not asserted to be a supine rock.

(303) NUUCHAHNULTH $\dot{n}i\lambda u \lambda$ $2i2i\bar{s}su2i\bar{t}$ $mi\bar{t}er2e2i$ $\dot{m}uks\dot{y}i$ $\dot{n}i\lambda - 'u'\lambda$ $2i2i\bar{s}su2i\bar{t}$ $mi\bar{t} - 'ar2a = 2ir$ $\dot{m}uks\dot{y}i$ supine-on.rocks.PERF Pitch.Woman smooth-on.rocks=ART rock

'Pitch-Woman lay down on her back on the smooth rock.' (NT 94. 26-27)

(304) shows two more Nuuchahnulth examples of classificatory locatives.

(304) NUUCHAHNULTH a. $\hat{\lambda}u^2a^2a \quad \dot{m}uks\dot{y}i$ $\hat{\lambda}uq-\dot{a}^2a \quad \dot{m}uks\dot{y}i$ broad-on.rocks rock 'broad stone' (NT 94.39-40)

> b. λaqmis ma'?aksit λaqmis ma'?ak^w-(c)sit oil whale-on.surface.of.liquid
> 'whale oil' (NA 298.23)

Use of classificatory locatives appears to be always grammatically optional, although it may be stylistically preferred in certain contexts. That is, one could probably say simply *miłak?i muksy*ⁱ 'smooth rock' (with the durative aspect suffix on *mił.-*).

It is not known how may locative suffixes have this classificatory function, but there are almost certainly more than those represented in (304). Jacobsen (1996: 12) records two Makah examples of classificatory locatives: $2a\dot{q}as$ 'wide (of a road)', $2a\dot{q}axs$ 'wide (of canoe, house)'. It is likely that the Nuuchahnulth cognates (-'as and -'ahs) allow classificatory use as well..

5.5.3 Degree suffixes

There are a half dozen or so restrictive degree suffixes, all of which appear to be peripheral suffixes. These are N -(q)aq -aqaq [often S+S], M -(k)l?it 'very, big', N, M -a:pi [LR+S] 'too much, too ...', N -ckin, M -ckida 'slightly', N -(q)hli 'excessively', N, M -sa -sasa [usually L or L+S] 'precisely, very, too, really, just', and N -*ta:na* -*tana* 'slightly'.

a.	NUUCHAHNULTH hupi [,] čiλckin?is hupi ^{,_} čiλ–ckin–?is help–PERF–slightly–DIM	b.	?i•ḥckin ?i•ḥʷ–ckin big–slightly	c.	<i>qi[,]ckin</i> <i>qi'–ckin</i> long.time–slightly
	'help out a bit'		'a little bigger'		'a little while'
a.	макан ha?ukšiħckid ha?uk—šiħ—ckida eat–PERF–slightly	b.	<i>ko?ułckid</i> <i>ko?uł–ckida</i> further.away–slightly	c.	te?iłckid te?ił–ckida sick–slightly
	'eat a little bit'		'a short distance away'		'a little sick'

(305) N - $c\dot{k}in$, M - $c\dot{k}ida$ 'slightly, a little' (often occurs with the diminutive = 2is in N)

(306) N, M -sa -sasa [often L or L+S] 'precisely, really, very, just, too'

a.	NUUCHAHNULTH hir‡sasa hi‡–sasa [L] there–precisely	b.	?ayasa ?aya–sa many–too	c.	<i>ha'wi'sa</i> <i>hawi'-sa</i> [L] finish-precisely
	'right at that place'		'too big'		'stop altogether'
a.	^{макан} ?i?i [,] x ^{,w} as ?i?i [,] x ^{,w} a—sa big—too	b.	<i>qała'tk^w—sa</i> [L] younger.brother–precisely		<i>yu'bułs</i> <i>yubuł–sa</i> [L] unable–precisely
	'too big'		'youngest brother'		'absolutely unable'

5.5.4 Plural formations

Plural formation is one of the most irregular processes in Wakashan. This section summarizes six ways of forming plurals attested in Nuuchahnulth and Makah. Although the kind of plural semantics carried by the different formations varies (the collective plurality of N -*minh*, M -*badax*, simple plurality, distributive plurality), all are simply glossed "PL". The meanings of some, particularly reduplication, depend on the word class and morphological composition of the base.

(307) Plural formations

- 1. Peripheral plural suffix N -minh, M -badax
- 2. Core plural suffixes
- 3. Plural infixes

- 4. Core plural suffixes with plural infixes
- 5. Reduplication
- 6. Irregular

Peripheral plural suffix

The peripheral plural suffix N *-minh*, M *-badax*, the only fully productive plural marker, attaches with equal ease to verbs and nominals. It generally indicates a collectivity. Rose (1981: 240-47) has an enlightening discussion of the use of this suffix. Examples (308)a-b show it on a predicate head of a main clause, and (308)c-f show it in an RP.

- (308) NUUCHAHNULTH
 - a. *?api'sminh?aλat ?ap-i:s-minh= 'aλ= 'at* carry.on.shoulders-carry-PL=TEMP=PINV

'They were carried on (people's) shoulders.' (NA 11.5)

b. $?a?a?a\lambda qim !htim yi! minh?a'q\lambda e?icu'$ [R]- $?a\lambda - qim! - (q)hta$ [R]- $ma! - `i! - minh = ?a:q\lambda = (m)a' = ?icu:$ PL-two-X.many.round.objects-on.feet-move.about-in.house-PL=INTENT=INDIC=.2pl

'The bunch of you will each carry two (dollars) on your feet' (NA 67.32-33)

c. ?amashułminh?at?i ?am-ashu·(ł)-minh = 'at = ?i· locative.root-at.chest-PL=PINV=ART

'their chests' (NA 71.18)

d. 2a·maminh 2a·ma—minh loon—PL

'loons' (NT 17.3)

- MAKAH
- e. dade ?iqsu badax dade ?iqsu badax grandparent-PL

'grandparents'

f. ?aλasub ła'xukbadax ?aλasuba ła'xuk-badax eight man-PL

'(a group of) eight men'

Core plural suffixes

There are three core plural suffixes, all of which are in complementary distribution. The suffix N -aqa -'aqa -'aqa, M [L?] -a'qa -'a'qa, translated by Sapir & Swadesh (1939: 319) as 'sever-ally ... -ing' in Nuuchahnulth, attaches to a limited number of bound verb roots denoting actions.

(309)	NUUCHAHNULTH	
	<i>čirq-</i> 'chant'	ći'2aqa
	<i>či:ŧ</i> - 'escape'	či 42aqa
	pisat- 'play, move'	pisaťaqa
	МАКАН	
	du- 'sing'	du?a'qa or du'?a'qa?
	ha'wa- 'eat'	ha'wa'qa
	hu'l- 'dance'	hu'ła'qa

The suffix N - yu^{*} [R+L or L], M [R+L] -yu, also translated by Sapir & Swadesh (1939: 324) as 'severally ... -ing', attaches to several bound verb roots. These mostly denote vocal activity such as speaking, shouting, singing, etc., but Sapir & Swadesh (1939: 239) also cite N $\dot{n}a\dot{n}a^{*}\check{c}yu$ 'severally looking'. It occurs with the [L] template in Nuuchahnulth and the [R+L] template in Makah with a few noun roots.

(310)	NUUCHAHNULTH <i>ciq-</i> 'speak' <i>huḥ-</i> 'shout' <i>čiḥ-</i> 'ghost' <i>nuč-</i> 'mountain'	cici'qyu huhu'hyu či'hyu' nu'čyu'
	макан <i>ciq-</i> 'speak' <i>Xirx^w-</i> 'laugh' <i>qix-</i> 'cry' <i>ya'daq-</i> 'baby'	ciqci qyu XiXi xyu qiqi xyu yakya daqyu (plus velar increment)

The final core plural suffix, N -*i:*h [sometimes L], M -*i*x, attaches to bases ending in restrictive locative suffixes with final /t/ (which is lost preceding it), and, in Nuuchahnulth, also to a few roots denoting humans (311)c. The class of suffixes with which -*i:*h, -*i*x occurs seems to be coextensive with the class described in §3.3.7 that loses final /t/ before certain suffixes, but further research is necessary on this point.

(311)	NUUCHAHNULTH <i>huqurt</i> 'wearing a mask' <i>k^wik^winxsut</i> 'eyes sealed shut with gum' <i>čakup</i> 'man, male'	ḥuqu'ḥ k ^w ik ^w inxsu'ḥ ča'kupi'ḥ
	MAKAH λ <i>isurt</i> 'white-faced, ghost' <i>cixapt</i> 'sour roundish object'' <i>xutapt</i> 'slimy roundish object'	<i>λ̃isa wi</i> x <i>cixapi</i> x 'crab apples' <i>xułapi</i> x 'sole (fish sp.)'

Plural infixes

There are four plural infixes. The first, N, M -t-, is associated with various CV templates. In Nuuchahnulth it occurs at least with the [L], [R], [R+L], and [LR] templates, and, in Makah, it is attested with the [R+L], and [LR] templates. The infix is inserted after the first vowel of the templatically specified base.

(312)	NUUCHAHNULTH ha?um 'fish, food' naýaqak 'infant' hičaqît 'torch' ?asma 'high-born child' piš- 'bad' ma?as 'tribe'	[R+L]	hart?um nartýaqak hithičaqħ ?at?arsma pitpirš martmars (< martma?as)
	MAKAH ba?as 'house' q ^w aċał 'pretty' ba?as id. te?ił 'sick' wiġis 'bad, dirty'	[R+L] [LR] [LR]	<i>batbar?as</i> (Jacobsen 1997a: 18) <i>q^watq^warċał</i> <i>bartb?as</i> (Jacobsen 1997a: 18) <i>tart?eł</i> (Jacobsen 1997a: 18) <i>witirwiqis</i> (plus epenthetic / <i>ir</i> /) ⁸²

The second plural infix, N -Vý-, M -a'y- [L], is inserted after the first consonant of the base.

The initial vowel of the Nuuchahnulth form is a short copy of the original initial base vowel. In some cases, an original /*i*/ base vowel shifts to /*a*^{*i*}/ (lengthened by the [L] CV template) following the infix, e.g. N *wičit* 'poor marksman', *wiýa*'*čit*, M *hiti*'*da* 'blanket', *ha*'*ya*'*ti*'*da*.

(313)	NUUCHAHNULTH	
	<i>ċa'xuk</i> 'swift vehicle; traveling swiftly'	ċaýa'xuk
	<i>ċušuk</i> 'new'	ċuỷu'šuk
	<i>čapac</i> 'canoe'	čaýa pac
	<i>k</i> ^{<i>w</i>} <i>isath</i> 'another, a different tribe'	k ^w iýi sath
	<i>tiq^wit</i> 'sitting in the house'	ťiýi q ^w ił
	wičit 'poor marksman'	wiýa'čit

MAKAH	
<i>čapac</i> 'canoe'	ča'ya'pac
<i>hiti da</i> 'blanket'	hayatida (Jacobsen 1997a: 18)
<i>łuččaqsuba</i> 'sister of a male'	łavyu ččaqsuba (Jacobsen 1997a: 19)
<i>λicux^wadi</i> ' 'person, Indian'	λ̃a'yi'cux ^w adi'
*	-

The third plural infix is N, M -4- [R]. It is inserted after the reduplicated vowel.

(314)	NUUCHAHNULTH <i>muq^wał?ič</i> 'clothed in a phosphorescent robe' <i>ti'č</i> 'alive, well'	mułmuq ^w ał?ič tiłti [,] č		
	MAKAH kux^wat 'a hole on it'	kułkux ^w ał		
	wirb 'not recognize'	<i>wirtwirb</i> 'not recognize them'		

The final plural infix, N, M -?a'- [R], is inserted after the reduplicated vowel. The meaning of this infix can be described as "comitative plural": it not only indicates plurality, but also that the members of the plural set are together as companions, housemates, relatives, etc. In Nuuchahnulth it has been found with the relative pronoun root yaq^w 'one who', ya?a'yaq 'companions, ones who accompany' (315), and derivatives of this root formed with lexical suffixes having meanings appropriate to the comitative sense, e.g. -(q)hýu' 'related to …' yaqhýu 'relative', ya?a'yaqhýu 'relatives'.

(315) NUUCHAHNULTH $\hat{\lambda}ir?it?a\hat{\lambda}in\hat{\lambda}a'$ ya?a'yaqitqin $\hat{\lambda}ir?it='a\hat{\lambda}=(m)a'=ni=\hat{\lambda}a:$ $yaq^{w}-<?a'>[R]=(m)it=qa'=n$ feast=TEMP=INDIC=1pl=again one.who-<PL>=PAST=DEF=1pl

'We gave another feast to those that had accompanied us.' (NA 140.22)

It is also attested in Makah in the plural of *baččiba* 'commoner', *ba?a·baččiba* 'commoners', cited by Jacobsen (1997a: 18). The original meaning of this word, 'those dwelling along with', accounts for the use of the comitative plural. In the days of communal housing, only men with rank and wealth, i.e. *ča·ča·baťa* 'chiefs', owned houses. Lower ranking relatives or associates, "commoners", lived "along with" a wealthier relative in his house.

Core plural suffixes with infixes

Core plural suffixes sometimes co-occur with plural infixes.

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(316)	N - <i>i:</i> h with infixed - <i>t</i> - [L]				
	<i>maqu'l</i> 'blind'	ma'tqu' <u>h</u>			
	tumisuł 'charcoal on the face'	tu tmisu h			
	M - yu [R+L] with infixed - t -				
	<i>xada-</i> 'woman'	xatxa'dačyu			

The Makah form is slightly irregular in that the plural suffix appears as $-\check{c}yu$ rather than -yu.

Reduplication

In our discussion of affix-associated CV templates (§3.3.1) we noted that these have no semantic force in most cases. However, several of the reduplicative templates listed in §3.3.1, ex. (42) above are used to form plurals independent of any affix. We also find types of reduplication in plural marking that do not occur as affix-associated templates, full reduplication (symbolized here as [FR]) and full reduplication with lengthening of the original initial vowel (symbolized [FR+L]). Full reduplication appears to occur only with a few selected monosyllabic roots. Other than this, it is unclear what principles, if any, govern the association of plural templates with bases. Reduplication of nouns tends to indicate simple plurality, while reduplication of both nouns with locative suffixes and other word classes tends to indicate distributive. Makah forms are cited from Jacobsen (1997a).

(317)	[FR]	NUUCHAHNULTH kuh 'hollow; hole' λuq 'wide' nuk 'song' $q^{w}iq$ relative pronoun root	kuḥkuḥ ீ้XuqŽuq nu knu k q ^w iqq ^w iq
	[FR+L]	NUUCHAHNULTH ?uḥ 'so-and-so' ?uḥ?u'ḥ スuł 'good' えuŧえu'ŧ	
	[R]	NUUCHAHNULTH ?anaħ 'thus in size' ?ayaqs 'much in one's canoe' ?i'čim 'old person' $\lambda a ?u'$ 'another' ma:ma'ti 'bird' mawa: 'deliver' qu'?as 'person, Indian, man' ta:yi' 'older brother'	<pre>?e?inḥ (< ?a?inḥ < ?a?anaḥ) ?a?ayaqs ?e?i'čim 'old people' (< ?a?i'čim < ?i?i'čim) λaλu' (< λaλa?u', §3.3.4) ma'ma'mti mamawa' quq^wa's (< ququ'?as) ta'ta'yi</pre>

	MAKAH ?a'si'qsu 'nephew' ča'bata 'chief' kuxa'sća 'hole in the roof' Âu'yas 'dry ground' lu'lapi: 'hand' tiq ^w it 'sit in the house'	?a?a'si'qu ča'ča'bata kukuxasća XuXu'yas lu'lu'lapi' titiq ^w it
[R+L]	NUUCHAHNULTH <i>nupqimłayi</i> , 'give one round o' <i>nuwirqsu</i> 'father' <i>qutihta</i> 'tough-nosed' <i>sahas</i> 'pick cedar bark'	bject' n॑un॑u pqimłayi nํunํu ŵiqsu ququ tiḥta sasa ḥas
[LR]	MAKAH <i>takya'yu</i> 'older brother'	tata ⁻ ya ⁻ yu
	<i>ca?ak</i> 'river, stream' <i>ča?ak</i> 'island' <i>λatŵi</i> ' 'ceremonial paddler' <i>maḥti</i> ' 'house' <i>muč?it</i> 'covered with fabric in t <i>saya</i> ' 'far off'	ċa·ċa·k (< ċa·ċaʔak) ča·ča·k (< ča·čaʔak) λa·λatŵi ma·maḥťi the house' mu·mučʔił sa·si· (< sa·saya)

Plural reduplication can co-occur with reduplication induced by affix-associated CV tem-

plates producing doubly reduplicated words. Note also the presence of *-minh* (collective plural) in the Nuuchahnulth word, which nicely illustrates the interaction of collective and distributive meanings.

(318)	a.	NUUCHAHNULTH
Ì,		?a?a?aÅqimłhtimyiłḿinh?a·qħe?icu [,]
		$[R]-2a\lambda - qim t - (q)hta [R] - mat - 'it - minh = 2a:q\lambda = (m)a' = 2icu:$
		PL-two-X.many.round.objects-on.feet-moving.about-in.house-PL=INTENT=INDIC=2pl

'The bunch of you shall each move about the house with two dollars on your feet.' (NA 67.32-33)

b. макан ?u?u'?uwaťida [R]–?u–wat [LR]–'ida PL-so.and.so-friend.of-treated as 'friends'

The Nuuchahnulth word is first reduplicated to meet the templatic requirements of -(q)hta [R] 'on the feet' and then re-reduplicated to indicate distributive plurality: $2a^2a^2a\lambda$ The Makah word is reduplicated according to the requirements of *-wat* [LR] 'friend of ...' and re-reduplicated to indicate simple plural.

Irregular

In addition to the five plural formations just discussed, there are various irregular plurals. For example the plural of N, M *we?ič* 'sleeping' is N, M *hu'?ič*. Nuuchahnulth also has the pair *?ux-* 'topple over' *hux-* 'several things fall'. Most other irregular plurals involve various irregular reduplication types. In both languages the plural of N *qu't*, M *qutu'* 'slave' is N, M *qaqu't*. Jacobsen (1997a: 17-19) lists other examples of irregular plural reduplication in Makah, e.g. *?abe'?iqsu* 'mother' *?a'?abi'qsu*, *qatartk* 'younger brother' *qa'qtartk*, *qidi'\lambda* 'dog' *qi\lambda i'qi\lambda*.

5.6 Special suffixes

In addition to the lexical suffixes already discussed, each language also has a couple dozen "special suffixes", as Swadesh (1933) refers to them, that are not discussed in this dissertation. These are non-productive suffixes with dimensional or adjective-like meanings that occur with a limited number of bases, e.g.

Dimensional special suffixes

N, M [L]/ -ar 'at ... distance' in N ?anar, M ?ardar 'thus close, at this distance'

N, M -*a'ča* 'at ... height' in N, M λ*awa'ča* 'low down, close to the ground', N saya'ča, M xaya'ča 'high up'

N - h^w , M - x^w '... in size' in N ?anah, M ?adux 'thus big'

Adjective-like special suffixes

M -barsaq λ [L] '... friendly, tame' in 2u·barsaq λ 'friendly, tame' and wirbarsaq λ 'unfriendly, hostile'

N, M -*ca*- [L] '... bold' (with durative aspect -*?ak*^w) in N *ha*·*ca*·*k*, M *xa*·*c?ak* 'bold, unafraid, fearless' and N *wi*·*ca*·*k*, M *wi*·*c?ak* 'timid, hesitant'

M -*ċa·da* '... brightness (of light)' in *xaċa·d* 'bright light' and *wiċa·d* 'dim light'
M -*ṫap-aŧ* '... lucky (esp. in love)' in *xaṫapaŧ* 'lucky in love' and *wiṫapaŧ* 'unlucky'
A complete catalog of these morphemes must await future research.

5.7 Etymological relations between lexical suffixes and roots

Lexical suffixes are at least very rare cross-linguistically and clearly very different semantically than affixes in familiar languages.⁸³ Despite their root-like meanings, very few show any phonological relationship to a root from which one might hypothesize they are historically derived. Swadesh (1939: 79) points out two lexical suffixes with both obvious phonological and semantic similarity to an extant root: the path suffix N -mat-, M -bat- 'moving about' with root N mat-'move', M bałat- '(large object) tremble, shake', and the verbalizing suffix N, M -wa'(1) 'say ...' with root N, M war 'say'. We might also compare the root N 2irqh- 'tell, narrate' (probably reduced from earlier **?iyaqh*-) to the verbalizing suffix N -*iyaqh* [R] 'sing ... song', or, in Kyuquot dialect, 'tell ... story' (Rose 1981: 356). A final example involves the primitive root element N, M wi- that occurs as a component of various roots expressing negative concepts, e.g. N wik, M wiki' 'not', N wi'va, M wi'va 'never', M wi'ba 'not know, recognize a person', N wi?ak^w 'invulnerable, unafraid', N, M wi'-q- 'angry, unpleasant; stormy, bad (weather)', and many others.⁸⁴ This element evidently occurs as a suffix in a single Nuuchahnulth derivative, suwirýak 'instrument for not holding, nothing to hold' ($\leq su$ - 'hold' + -wir + $-vak^{w}$ '... instrument') (Swadesh 1933: 154). These root/suffix pairs exhaust readily detectable examples. More typical is the situation shown in (319): roots with semantically similar suffixes are not phonologically related to them:

(319) Root

Lexical Suffix

N <i>papir</i> , M <i>pipilir</i> 'ear'	N - 'imŧ, M - 'abiŧ	'at the ear'
N qasi', M qali?i' 'eye'	N - $(c)su(t)$, M - $(k)sit$	'at, in the eye'

N tuhciti, M tuxu cida 'head' N -ayuk, M -eyuk	'at the head, hair'
N -(w) $i:k^w$	'on the head'
N -(c)sinyuk	'on the head'
N -wiḥta	'at the head'

Many body parts are not even coded by roots. If they must be referred to, the corresponding body-part locative suffix is affixed to a dummy root, either the empty root N *hita- hina- hin-*, M *hita- hida-* or the general locative root N *?am-*, M *?aP- ?ab-* e.g.

(320) N ?a?amas '(on) the cheeks' (-as [R] 'at the cheeks')
M ?a?abadaqił '(at) the midriff' (-adaqił [R] 'at the midriff')
N hinaksuł '(at) the mouth, lips' (-aksu(ł) 'at the mouth, lips')
M hitaquł '(at) the face' (-(q)u'(l) 'at the face')

5.8 Specialization

Derived words vary widely in spontaneity of composition and degree of lexicalization. Speakers are capable of using the principles of derivation we have discussed in this chapter to spontaneously produce and interpret new words, but many derived words must be considered elements of the permanent mental lexicon, that is, words that are learned as units by speakers during the course of language acquisition and not derived anew for each use. The clearest indication of this is specialization of meaning. Derived words frequently have meanings more specific than the meanings of their component parts would suggest. Examples are legion. The Nuuchahnulth word $2i\cdot\hbar turp$ ($2i\cdot\hbar^{w}$ 'big' + -(δ)turp '... species') literally means 'big sort, species of thing' but now denotes only 'whale'. The literal force of the component morphemes ('big' and '... species') has been lost, as shown by the fact that one can say 'big whale' by modifying the derived word with one of its own components: $2i\cdot\hbar$ $2i\cdot\hbar turp$ 'a big whale' (NA 149.47). Similarly, N ci2as (ciq- 'speak' + -'as 'go in order to ...') literally means 'go in order to speak', but it is now specialized to refer to a formal marriage party made up of the groom's relatives going to the prospective bride's people to discuss the proposal in certain ritualized ways. Derived words with specialized meanings are commonly used for names of flora and fauna, tools, ceremonies, personal names, and place names, e.g.

- (321) NUUCHAHNULTH
 a. λatmapt λan-mapt wedge-plant
 'yew wood' (lit. 'wedge plant')
 - b. *ċisspu?is ċis-(c)spu(t)-`is* strung.out-between.legs-on.beach

'Rope-between-Legs (name of ceremonial contest)'

c. λiḥwitu?a
 λiḥ-witu(t)-'a'
 move.pointwise-move.past.head.PERF-on.rocks

'Pokes-past-head-on-Rocks (man's name)'

d. *tiqur?is ti-qu:.-'is* stone-at.point.of.land-on.beach

'Stone-on-Point (place name)'

- MAKAH
 *λi*x*api*x
 *λi*x-(*q*)*api-i*x
 red-over.a.rounded.surface-PL
 'red snapper'
 - 11
- f. *turpksit tupk–(k)sit* [L] black–on.surface.of.water

'Black-Water (place name)'

Sometimes both the specialized and literal meanings of a word are available. The root N, M $\dot{c}a$ - means '(to) flow', but with the durative aspect it is also used for 'river, stream, creek'. The two senses are even used together in the same phrase at NA 165.43: $\dot{c}a?ak?i$ $\dot{c}a?ak$ 'the flowing creek' (-? ak^w durative).

No one has dealt with the subject of specialization in Southern Wakashan in full detail, but further discussion and Nuuchahnulth examples can be found in Swadesh (1933: 54-58, 1939: 95-98) and Rose (1981: 289-91).

6 Aspect

6.1 Introduction

Aspect and aspectual distinctions are pervasive in Southern Wakashan. Most words have, or are at least eligible for, aspect marking of one sort or another, including some that, from a non-Southern-Wakashan point of view, might not seem likely candidates for aspectual modification. It is not uncommon to find words corresponding semantically to English nouns, adverbs, and temporal expressions marked for aspect along with those corresponding to English verbs and adjectives. Even lexical elements that are not formally marked for aspect almost always have some inherent aspectual value that must be reckoned with in determining their meaning, and, hence, their behavior in various morphological and syntactic contexts.⁸⁵

Aspect is indicated by the final morpheme of the unextended word.⁸⁶ This may be an aspect suffix (322)a, or else aspect is inherent in the meaning of the final morpheme, whether it is a lexical suffix (322)b or free root (322)c.

- (322) a. Perfective aspect suffix $\check{c}aq\check{s}i\lambda$ $\check{c}aq-\check{s}i\lambda$ push-PERF 'push'
 - b. Perfective aspect inherent in meaning of lexical suffix $\dot{\tilde{c}}e'\hat{i}\hat{\lambda}$ $\dot{\tilde{c}}a-i\hat{\lambda}$ [L] water-get.PERF

'get water'

c. Perfective aspect inherent in meaning of root $waha^{k}k$ $waha^{k}k^{w}$ go.PERF

ʻgo'

Aspect in Southern Wakashan may thus be considered a type of completing element (cf. Swadesh 1931: 13, note 1). In the morphological terminology of this dissertation, aspect creates an unextended word; a word is complete when it has an aspectual value (either inherently, or by means of a lexical or aspect suffix). Formal expression of aspect is considered in more detail in §6.3.

6.2 The character of aspect in Southern Wakashan

At least from Sapir (1924), researchers on Southern Wakashan have recognized a basic two-way semantic aspectual distinction. As we will see below, I claim with Rose (1981) that the distinction is between imperfective and perfective aspect, but the two categories were originally labeled "durative" and "momentaneous" by Sapir and Swadesh in Nuuchahnulth. This analysis is explicitly stated in places,⁸⁷ but, even where not claimed outright in their works, it is often implied.⁸⁸ Swadesh & Swadesh (1933: 199) give a representative characterization of the meanings of the durative and momentaneous categories (as originally conceived) in Ditidaht:⁸⁹

The durative expresses a continued existence, state, or activity; thus duratives are translatable by English nouns, adjectives, and verbs expressing states and continued activities. The momentaneous expresses momentary occurrences, including transitions into states and states of activity (these are generally translated "to start doing ...").

They evidently see the aspectual distinction as deriving from the duration of the situation itself: a situation that lasts a relatively long time ("a continued existence, state, or activity") is expressed by the durative, and, conversely, a situation that lasts a very short time (a "momentary occurrence") is expressed by the momentaneous. An aspectual distinction of this type is a situation-type distinction, because it involves some feature of the intrinsic temporal structure of the situation as represented by the semantics of the language. Different situation-type aspects correspond to different semantic situation types.

A problem arises immediately with a situation-type definition of the two aspects based on duration: the "momentaneous" is not limited to expressing momentary situations. It does express situations that are truly instantaneous, as the suffix M, N - $\dot{s}i\lambda$ in (323)a does, but it can just as easily refer to a situation that might last minutes (323)b or days (323)c.

(323) NUUCHAHNULTH a. $\lambda i \lambda q si a \lambda ma$ $\lambda i \lambda q - si \lambda = a \lambda = ma'$ explode-?=TEMP=INDIC

'It exploded.'

b. $\dot{c}irs\ddot{s}ia\lambda ma$ yaq $c\dot{h}iqas$ $\dot{c}irs-\ddot{s}i\lambda = 'a\lambda = ma'$ yaq^w- $c\dot{h}i = (q)ar = s$ sweep-?=TEMP=INDIC one.who-married.to=DEF=1sg

'My wife swept (the floor) clean.' (based on NA 231.35-36)

c. $wałśi?a\lambda si$ $wał.-śi\lambda = 'a\lambda = si'$ go.home-?=TEMP=1sg

'I went home.' (NT 150.16; context: the speaker travels home to the west coast of Vancouver Island from Vancouver after visiting various tribes to invite them to his daughter's puberty potlatch)

It is difficult to see how the duration of the situations could be the primary factor in the choice of aspect in these examples.

On the contrary, the point of using $-\delta i\lambda$ in (323) is not to express some intrinsic characteristic of the situations (like momentary duration), but to present a particular view of them relative to other situations in the flow of discourse, whatever their intrinsic structure might be. This is "extrinsic" or viewpoint (Smith 1996) aspect, a "temporal restriction on what is asserted" (Klein 1995: 690).⁹⁰ Here the basic distinction is between perfective and imperfective aspects. Following the spirit (though not necessarily the letter) of Klein's (1995) "time-relational" analysis of aspect, the difference between perfective and imperfective can be thought of as a difference in the scope of assertion relative to internal situation boundaries. As I interpret this with respect to Southern Wakashan, viewpoint aspect does not express durativity or lack thereof (as situation-type aspect would), but rather, by selection of one (viewpoint) aspect over another, a speaker elects to include or exclude any phases or boundaries that *already exist* in the meaning of a base. For example, in (323)c, by choosing $-\delta i\lambda$, which we now reinterpret as a perfective suffix, the speaker includes all phases of the situation in his assertion, and thus in effect presents it as a completed whole relative to other situations in the discourse context. The following Nuuchahnulth text excerpt (from Text 39) shows example (323)c *in situ*, with its immediately preceding and following sentences.

	NUUCHAHN	ULTH			
39.22.27	wa	?ani	ŵaq?u'?a'qλ	ču'čk	qu'xu'miš?atḥ
	war	?ani	$\dot{w}aq$? u ' = ? a : q λ	ču'čk	qu'xu'miš?atḥ
	say.PERF	SUBOR	respond.to.invitation.PERF=INTENT	all	Kohomishath
	(771				• • • • • •

- 'They said that all the Kohomishath would come (in response in my invitation).'
- 39.23.1 $watsi?a\lambda si$ $wat.-si\lambda = 'a\lambda = si'$ go.home-PERF=TEMP=1sg 'I went home.'

39.23.2 $hinasi\lambda si$ hinku'?asnit $hina-as-i\lambda = si'$ hinku'?as-nitempty.root-arrive-PERF=1sg dog.salmon-stocked.with

'I arrived at Stocked-with-Dog-salmon (place name).'

The three situations are presented as temporally sequenced, independent, and completed events, like beads on a string:

[event 1] 'they said' [event 2] 'I went home' [event 3] 'I arrived'

On the other hand, when an imperfective aspect is applied to *wał.-*, all internal situation boundaries are *not* included in the assertion, allowing the situation of going home to be interpreted as ongoing and overlapping another situation. Example (324) has *wał.-* with the graduative imperfective aspect (§6.5.1), an aspect used for secondary imperfectivization (i.e. to imperfectivize an already perfective form), as a bare absolute predicate head following the inherently imperfective $ti'\check{c}$ 'alive'. Because, as imperfectives, neither (*wa'tši* λ or $ti'\check{c}$) has its situation boundaries included in the assertion, they can be construed as simultaneous.

(324)	NUUCHAHNULTH
-------	--------------

ti čuk ^w a <u>h</u>	warłšiλ		?i [,] tu?i	ya'
$ti\check{c} = uk = (m)ai = ah$	wał–šiλ–[L+S]		?i*tu = ?i*	ya'
alive=POSS=INDIC=1sg	go.home-PERF-GRAD		iitu=ART	DEM
'That iitu bird of mine	was alive as I returned	l hon	ne.' (NA 14	35-36)

The two situations of the bird being alive and the speaker traveling home are clearly to be taken as temporally overlapping: '... was alive *as I returned home*'. For another example, see (359)b.

Comrie (1976: 16-17) argues against equating perfectivity with short duration or momentaneous occurrence in part by citing examples from several languages that show perfective verbs in construction with temporal expressions that imply duration like 'for an hour' and 'for ten years', e.g. Ancient Greek *ebasileuse* (perfective past) *déka étē* 'he ruled ten years'. A similar argument can be made in Southern Wakashan, with the difference that the temporal expressions themselves take the perfective marking; they are complement-taking words that serve as matrix predicate heads for the temporally modified complement clauses (§4.6.2.1), e.g. qi^{r} '(do) [COMP] for a long time' and $mu^{r} \check{c}i^{r} i^{r}$ (do) [COMP] for four days'. The perfective suffix with these expressions indicates the completion of the time period denoted by the matrix.

(325)	a.	MAKAH $i^{a}\lambda \check{c}eya i \check{s}^{2}a \lambda it di^{i}cux$ $hi^{i}du^{i}i$ $i^{a}\lambda - \check{c}eya i - \check{s}i\lambda = ia\lambda = (b)it = di:cux$ $hida-u^{i}i$ [L]two-X.many.days-PERF=TEMP=PAST=INDIC.1pl/2sgempty.root-expect'We expected you for two days.'
	b.	NUUCHAHNULTH $qi'\check{c}i\lambda ma$ $hu'ya' i$ $qu'?as?i$ $qi'-\check{c}i\lambda = ma'$ $hu'ya' i$ $qu'?as = ?i'$ long.time_PERF=INDIC dance person=ART 'The man danced for a long time (and is no longer).'
	c.	$mu'\check{c}i'l\check{s}i\lambda we?in$ $ha\dot{t}i's$ $qu'?as?i$ $mu'-\check{c}i'l-\check{s}i\lambda = we'?in$ $ha\dot{t}i's$ $qu'?as = 2i'$ four-X.many.days-PERF=QUOTbatheperson=ART'The man completed four days of bathing.' (NT 62.33)

6.3 Formal expression of aspect

Before discussing the functions of each aspectual morpheme in more detail in §§6.4-6.5, a summary of how the different aspects are marked is in order (Table 12). Perfective aspect is inherent in the meaning of some free roots and lexical suffixes, e.g. M, N *waha*· k^w 'go (perf.)', M, N - ' $i\lambda$ [L] 'get ... (perf.)', M -(k)siłta, N -(c)suhta 'come out of the woods (perf.)'. If it is not inherent,

Table 12. Summary of (non-inherent) aspect markingAspectFormal RealizationBasic Function

Aspect	Formal Realization	Basic Functions
Perfective (§6.4)	- $\dot{s}i\lambda$ plus other allomorphs (also perfective inceptive - $\dot{a}\dot{c}i\lambda$, etc.)	perfective events, processes, and changes of state
Imperfective (§6.5)		
(uniplex categories)		
Graduative (§6.5.1)	[L+S] CV template	secondary imperfectivization
Durative (§6.5.2)	$-ak^w$ - uk	stative intransitive; manner of motion
Continuative (§6.5.3)	-(<i>y</i>) <i>a</i> [*] , or, rarely, the [L] CV template	dynamic imperfective situations
(multiplex categories)		
Repetitive (§6.5.4)	reduplication with -(y)a	events repeated at regular intervals
Iterative (§6.5.5)		events repeated at irregular intervals
Iterative I	reduplication with $-\dot{s}$	
Iterative II	altered perfective suffix with changes to vowel length of the base	

perfective aspect is marked by the M, N suffix $-\dot{s}i\lambda$, which has many allomorphs (Table 13). A handful of free roots and lexical suffixes (e.g. M $2i2ir\dot{x}^wa$, N $2ir\dot{h}^w$ 'big', N $\dot{y}arq$ 'long') take the "inceptive" suffix - 'ači\lambda instead: $\dot{y}arqači\lambda$ 'become long'. However, other roots and lexical suf-

fixes, particularly those with final vowels or (in Nuuchahnulth) coda nasals (§2.3), are marked for perfective aspect by another suffix, M -*eyači* λ or -*i:wi* λ , N -*i:či* λ , traditionally known in the literature as the inceptive: M *duči·wi* λ 'turn into a mountain' (*duči?ir* 'mountain'), N *qičanirči* λ 'become a louse' (*qičin* 'louse').

Perfective aspect is essentially marked by a single suffix (the inceptive suffixes notwithstanding), but imperfective aspect is indicated in a variety of ways. Most free roots and lexical suffixes are inherently imperfective and require no special imperfective marking: M *qičirda*, N *qičin* 'louse', M, N - 'as 'on the ground', M -*idux*, N -*'na⁺ħ* 'seeking ...'. If a word is already perfective, it can be imperfectivized by the graduative, indicated by the [L+S] CV template (see example (324)).⁹¹ The durative suffix -*ak^w* -*uk* added to a bound root indicates a stative intransitive imperfective aspect: N *ninkak^w* 'wrapped around' (*nink*- 'twist, wrap around'); it also occurs with many bound roots denoting manner of motion: M *xir?uk* 'crawling' (*xi*- 'crawl'). The continuative suffix -(*y*)*a^{*}* or, occasionally, the [L] CV template, with a bound root indicates dynamic imperfective aspect: verb N *ninka^{*}* 'getting wrapped around', verb M, N *čaqa^{*}* 'pushing' (*čaq*-'push, shove').

In addition to the graduative, durative, and continuative imperfective aspects, which can be called "uniplex" imperfective aspects, there are two multiplex aspectual formations, the repetitive and the iterative. These imply various types of iteration of events versus the essentially steadystate meanings of the uniplex aspects. The repetitive, which expresses events repeated at regular and generally narrow-spaced intervals, is formed by a special reduplication type plus the suffix -(y)a. As we will see below, the repetitive has expanded its function somewhat beyond this in Makah to cover semantic space expressed by the continuative in Nuuchahnulth. The iterative, which expresses irregular iteration, is formed in two ways, one involving reduplication, and the other involving changes to the perfective form of the base.

6.4 Perfective

Perfective aspect indicates that all internal phases or boundaries of a situation are included in the assertion, i.e. are asserted to have taken place; the situation thus is presented as complete relative to other situations in the discourse context. The exact meaning of the perfective word depends on the semantics of the base to which the perfective suffix is attached. With punctual bases like M *?ackat-*, N *tux-* 'jump', M, N $\lambda i\lambda q$ - 'explode' or M, N *his-* 'strike with a beating instrument' the perfective expresses the simple occurrence of the event. If the base denotes an event that may occur repetitively, the perfective normally has a semelfactive sense — it expresses a single repetition of the event.

(326) MAKAH a. $2ackatš2a\lambda its$ $2ackat-ši\lambda = (b)it = s$

jump–PERF=PAST=INDIC.1sg 'I jumped (once).'

	NUUCHAHNULTH			
b.	hisšiλ	qiłćim	?inksýi	?u'ḥwał
	his–šiλ	qiłćim	?inksýi	?u-hwał [L]
	strike.with.beating.instrument-PERF	<i>Î</i> Kithltsim	wood	so.and.so-using
			a 12 a	

'Kithltsim clubbed him (once) with a stick of wood' (NA 447.33)

With stative bases (e.g. nouns, property words, stative verbs) the perfective suffix usually expresses perfective change of state (an inceptive/inchoative/ingressive reading). Comrie (1976: 19-20) mentions several other languages that allow this type of reading with perfective markers on stative verbs. In these languages, among them Ancient Greek, Spanish, and Russian, this possibility is apparently limited to a handful of verbs. In Southern Wakashan, on the other hand, it is the rule — almost all stative bases produce a change-of-state readings with the perfective suffix.

(327) MAKAH a. $ki\lambda \tilde{s} 2a\lambda 2u$ $ki\lambda - \tilde{s}i\lambda = 'a\lambda = (b)u = \hat{i}$ shattered-PERF=TEMP=PAST=INDIC.3sg

'It shattered, broke to pieces (intr.).'

b. $tuq \hat{s} \hat{a} \hat{\lambda} \hat{z} u$ $tuq - \hat{s} \hat{i} \hat{\lambda} = \hat{a} \hat{\lambda} = (b)u = \hat{i}$ melted-PERF=TEMP=PAST=INDIC.3sg

'It melted (intr.).'

c. hitaċitad?aλ?u
hita-ċita-diλ = 'aλ = (b)u = °i
empty.root-in.water-PERF=TEMP=PAST=INDIC.3sg
'He/she/it went into the water.'
lit. '... got to be in the water.'

The construction in (327)c, which has the perfective suffix added to a base ending in a restrictive locative suffix, is a common way of indicating motion in Southern Wakashan. Or, phrased in a less English-centric fashion, we might say what is expressed as motion (with 'go' or 'come') in English is often not expressed as motion in Southern Wakashan, but as simple change of location ('get to be at X'). This can also be seen with the nuclear verbalizing suffix M, N -*či* 'at ...', which means 'get to be at ...' (usually glossed as 'go to ...') when it is followed by the perfective suffix.

(328)	NUUCHAHNULTH		
	?aḥ?a ?aħwe?in	łuččinu?aħ	ya2i'2i
	$?ah?a' = 'a\lambda = we'?in$	$u\check{c}-\check{c}i-nu\lambda = a\lambda$	$ya_i = i'$
	then=TEMP=QUOT	woman-at-PERF=TEMP	Yai=ART

'Then the Yai (a type of supernatural creature) went to his (own) wife.' (NT 72.17)

With processual bases the perfective expresses either inception of the process or (less commonly) its occurrence for an unspecified duration. This last usage is an especially clear indication of the perfective value of the suffix. It is often the case that text examples can be translated either way with little difference to the overall meaning of the passage.

(329) NUUCHAHNULTH $kamitq ši\lambda$ inthtin... $kamitq^{w}-ši\lambda$ int-htinrun-PERF mucus-made.of 'Mucus-Made started running.' (NT 98.23) or 'ran (for some duration)'; see also (323)b-c

The perfective is most commonly used in discourse to narrate a series of completed past events. Occasionally, however, it occurs in an otherwise present context. Perfectivity in Southern Wakashan is by nature incompatible with present time reference: since the speaker, by choosing the perfective, includes all situation boundaries in the assertion, and thereby asserts its completeness, this leaves little room for the situation to be interpreted as ongoing at the time of speaking. In a present tense context, a (non-tense marked) word in the perfective is interpreted as immediate past:

(330) NUUCHAHNULTH $\dot{c}ii\cdot i\dot{s}i\lambda a\dot{h}$ $\dot{c}ii\cdot d-\dot{s}i\lambda = (m)a' = a\dot{h}$ escape-PERF=INDIC=1sg 'I have (just) run away.' (NA 255.49)

Boas (1947: 289) describes a Kwakwala suffix $-x^{2id}$ that he refers to as "recent past". Significantly, there is another Kwakwala suffix with the same form $-x^{2id}$, which is cognate to Southern Wakashan $-\dot{s}i\lambda$, that he calls "momentaneous and inchoative" (Boas 1947: 290-91). This alleged homophony between "recent past" and "momentaneous" morphemes may point to a similar situation in that language.

Perfective marking has become tied up with causative marking. When the perfective suffix is not present (with no explicit aspect marking, or with the continuative, repetitive, etc.) causative is expressed by the clitic M, N = 'ap. With the perfective suffix, however, it is normally expressed by a causative perfective portmanteau suffix. The words in (331) are the causative perfective counterparts to the words in (326) and (327).

(331) MAKAH a. $Packatsa'Pa\lambda its$ $Packat-sa:p = 'a\lambda = (b)it = s$ jump-CAUS.PERF=TEMP=PAST=INDIC.1sg

'I made him/her/it jump.'

b. $ki\lambda sa' ?a\lambda its$ $ki\lambda - sa:p = 'a\lambda = (b)it = s$ shattered-CAUS.PERF=TEMP=PAST=INDIC.1sg

'I shattered it.'

c. hitaċitadu ?aλits hita-ċita-du:p = 'aλ = (b)it = s empty-in.water-CAUS.PERF=TEMP=PAST=INDIC.1sg
'I put him/her/it in the water.'

The perfective suffix has a number of allomorphs, each with a corresponding causative perfective form; Table 13 shows the perfective allomorphs in Nuuchahnulth. The distribution of the allomorphs is at least partially predictable based on a) the morphological class of the final morpheme of the base, and b) the final segments of the base. However, a complete statement of their distribution awaits further research.

Perfective	1a -šiλ	1b - <i>či</i> λ	$\frac{1c}{-k^{w}i\lambda}$
Caus. Perf.	-sa'p, -sa'q-	-ỷa'p, -ỷa'q-	-ýa'p, -ýa'q-
	2a	2b	3
Perfective	$-i\lambda$	-u <i></i> λ	-nuλ
Caus. Perf.	-ip ~ -iỷap	-up	-nup
	4	5	6
Perfective	-u'λ, -awiλ	-stuλ	- 'u'À
Caus. Perf.	-u'p, -awup	-stup	- 'u'p
	7	8	9
Perfective	- 'i'λ	-(`i)piλ	-(`i)saλ
Caus. Perf.	-'i'tap	-('i)pitap	-('i)sanap

Table 13. Perfective allomorphs in Nuuchahnulth

Makah has similar allomorphs, e.g. N 1a - $\dot{s}i\lambda$ -sap, M - $\dot{s}i\lambda$ -sap, N 2b - $u\lambda$ -up, M - $i\lambda$ -up, and N 8 -(i) $pi\lambda$ -()pitap, M - $pa\lambda$ -patap, etc.

In addition to the suffix in Table 13, perfectivity can be marked by two other suffixes, M, N -' $a\check{c}i\lambda$ (causative M - 'a:ya:p?, N - ' $a\check{y}ap$) and M - $eya\check{c}i\lambda$, N - $i:\check{c}i\lambda$ (causative M -a:ya:p, N - $i:\check{y}ap$), the latter of which is referred to by Sapir & Swadesh (1939: 320) as "inceptive". Makah also has - $i:wi\lambda$ (causative -i:wi:ya:p). In this dissertation, these suffixes are referred as "perfective inceptive" or simply "inceptive" suffixes to distinguish them terminologically from the regular perfective suffix. The impression of inceptivity seems to arise because they attach to stative bases, and an inchoative/inceptive reading is the regular result when a perfective morpheme attaches to a stative base.

The suffix - ' $a\check{c}i\lambda$ occurs with only a few roots and suffixes, apparently all property words or nouns, e.g. in Nuuchahnulth ?apars 'small', ? irh^{w} 'big', λut 'good', $\dot{p}i\check{s}$ - 'bad', tart 'warm', $tir\check{c}$ 'alive, well', $\dot{y}arq$ 'long', (nominalizing suffix) -pat 'season of ...':

- (332) NUUCHAHNULTH a. $\lambda uya \dot{c}i\lambda$ $\lambda u4-\dot{a}\dot{c}i\lambda$ good-INCEP 'She got well.' (NT 68.18)
 - b. $ta'ya\check{c}i?a\lambda$ $we?i\check{c}u\lambda$ $\dot{c}u'\check{c}k...$ $ta'i-\dot{a}\check{c}i\lambda = a\lambda$ $we?i\check{c}-u\lambda$ $\dot{c}u'\check{c}k$ warm-INCEP=TEMP sleep-PERF both

'Both of them got warm and fell asleep.' (NA 444.36)

 c. ha?umpi'čiî\we?in ha?um-pai-`ačiî\ = we'?in food-season.of-INCEP=QUOT

'It became time for the run of salmon.' (lit. 'Food came into season') (NT 52.8)

The suffix M -*eyači* λ , N -*i:či* λ generally attaches to words ending with final coda nasals (333)a (in Nuuchahnulth) or final vowels (333)b, but some morphemes with other final consonants take the inceptive as well (333)c.

(333) NUUCHAHNULTH

a. $nu^{i}ami^{i}\check{c}i^{2}a\lambda in$ $nu^{i}im-i\check{c}i\lambda = ia\lambda = (m)a^{i} = ni$ nuthlim-INCEP=TEMP=INDIC=1pl

'We turned into nuthlim (a type of supernatural creature).' (based on NA 123.15)

b.	えawi'či?aरे	ḥa'ŵiłaħ?is?i	?um?i'qsak
	$\lambda a w a - i : \check{c} i \lambda = a \lambda$	ḥa'ŵiłaλ = ?is = ?i'	?um?i'qsu = ?ak
	near-INCEP=TEMP	young.man=DIM=ART	mother=POSS

'The little fellow approached (lit. became near) his mother.' (NT 16.3-4)

c. wiki'čiλ hitačink wik-i:čiλ hita-(č)ink not-INCEP empty.root-together.in.competition
'They stopped fighting.' (NA 392.38)

Inceptive suffixes do not occur directly with bound roots, but N $-i:\check{c}i\lambda$ can be added to their continuative form (if they have one), which is marked by the suffix $-(y)a^{\prime}$ (§6.5.3), e.g. N $\dot{c}icka^{\prime}$ 'pounding', continuative of $\dot{c}ick$ - 'pound', inceptive $\dot{c}icki^{\prime}\check{c}i\lambda$ 'begin pounding'. Based on the morphophonemic processes we have seen so far, $\dot{c}icki^{\prime}\check{c}i\lambda$ could in theory derive either from the form $\dot{c}ick$ - $i:\check{c}i\lambda$ or the form $\dot{c}ick$ - a^{\prime} - $i:\check{c}i\lambda$, but forms like $\dot{c}iyi^{\prime}\check{c}i\lambda$ 'begin cutting' at NT 40.16 seem to assure the presence of the continuative; $\dot{c}i$ - $i:\check{c}i\lambda$ would surface as $\dot{c}i^{\prime}\check{c}i\lambda$.

The perfective inceptive occurs in addition to the perfective (not at the same time) with certain Nuuchahnulth roots to mark change of state or inception of a process, while the perfective has a specialized meaning, e.g.

(334)	a.	NUUCHAHNULTH Perfective inceptive ?ayi'čiħ ?aya-i:čiħ many-INCEP	Perfective ?ayačiλ ?aya–čiλ many–PERF
		'come to be many'	'give away, handle, bet many'
	b.	łu·csmi·čiλ łu·csma–iːčiλ woman–INCEP	łučšiλ łuč–šiλ woman–PERF
		'grow up (said of a woman)'	'give a woman in ransom'

c.	qu?i'čiλ	qu?acšiħ
	qu'?as-ʿačiħ	qu?ac-ši λ
	person–INCEP	person–PERF
	'grow up (said of a man)'	'do sth brave' (lit. 'act like a person')

Note with reference to our discussion in §5.2.2.3 that the derivatives in (334)b-c based on the free form of the root (N 4u csma 'woman' < 4u csma [L] free formative suffix, N qu?as 'person') have the more compositional meaning, while the derivatives based on the combining forms have specialized meanings.

6.5 Imperfective

6.5.1 Graduative

The graduative, formed by application of the [L+S] CV template,⁹² is used to make secondary imperfectives, that is, to imperfectivize an already perfective base. The perfectivity of the base may be inherent in its meaning (335) or may be due to the presence of perfective or inceptive suffixes (336).

(335)		Inherently perfective base NUUCHAHNULTH		
	a.	hułi ?i?aλsi huł–i:?iλ = 'aλ = si	?aḥ?a ?aḥ?a'	
		dance-move.into.house.PERF=TEMP=1sg	then	
		'Then I danced into the house.' (NA 86.8)		
		Inherently perfective base with graduative		
	b.	NUUCHAHNULTH $hur ii?i\lambda$ $hut -i:?i\lambda - [L+S]$		
		dance-move.into.house.PERF- GRAD		
		'(as) they danced into the house' (NT	88.11)	

(336) MAKAH a. *hitaćidi*titid $hita - \dot{c}u' - di\lambda = (b)it = id$ empty.root-in.container-PERF=PAST=INDIC.1pl 'We entered the bay.' NUUCHAHNULTH b. hitaćinħni $hita - \dot{c}u' - nu\lambda = ni'$ 'We entered Uchucklesit Bay.' (NA 146.6) Base with perfective suffix and graduative MAKAH c. hi⁻taćidi[†]titid $hita - \dot{c}u' - di\lambda - [L+S] = (b)it = id$ 'We were entering the bay.' NUUCHAHNULTH d. hi taćin t *hita* $-\dot{c}u$ ' $-nu\lambda$ -[L+S]

empty.root-in.container-PERF- GRAD

'They were entering the bay.' (NA 410.12)

In combination with the Nuuchahnulth intentive future clitic = $2a:q\lambda$ (§7.3.2) the graduative

has a conative ('try to') sense:

```
(337)
            NUUCHAHNULTH
        a. hi'tacswi?a'qħ
            hita - (c)swi - [L+S] = 2a:q\lambda
            empty.root-move.through.PERF-GRAD=INTENT
            'try to go through'
```

b. qa'hsap?a'qt $qah-sap-[L+S] = 2a;q\lambda$ dead-CAUS.PERF- GRAD=INTENT 'try to kill'

The graduative also occurs with the irrealis clitic (N = 'a:h, M = 'ux?) with a conative sense (§7.3.6).

Base with perfective suffix

hu čug tis hu'čug*žis* empty.root-in.container-PERF=1pl Uchucklesit.Bay

empty.root-in.container-PERF-GRAD=PAST=INDIC.1pl

Although the graduative typically expresses an imperfective process, it sometimes seems neutral with respect to viewpoint and merely indicates that the process in question is taking place slowly or gradually. This is probably its original function, in fact. The viewpoint component of the aspect system as a whole seems to be an addition to, or modification of, an earlier, purely Aktionsart-based system. One apparent clue is a group of roots that do not have a simple perfective, but only occur with the graduative. Most denote situations that cannot come about instantaneously, e.g. M *burłši* λ , N *murłši* λ 'high tide', N *turpši* λ 'evening'.

6.5.2 Durative

The durative aspect suffix M, N $-ak^{w} -uk$ ($-2ak^{w} -2uk$ after vowels) only occurs with bound roots (§5.2.1) and a handful of suffixes. The distribution of the allomorphs is unpredictable, but each root or suffix may only occur with one of the two. The durative has two basic uses:

a) It expresses an intransitive imperfective state:

(338) MAKAH a. $\lambda i x u w$ $\lambda i x - u k = i$ red-DUR=INDIC.3sg

'It is red.'

b. $pusaka\lambda id$ $pus-ak^w = a\lambda = id$ tired-DUR=TEMP=INDIC.1pl

'We are tired.'

NUUCHAHNULTH c. qahakma ?aye?i ?i[·]htu[·]p qah-ak^w = ma[·] ?aya = ?i[·] ?i[·]h^w-(š)tu[·]p dead-DUR=INDIC many=ART big-thing

'The many whales are dead.' (based on NA 378.4)

d. ?aktak ?akt-ak^w gnaw-DUR b) It is commonly used with manner-of-motion roots to indicate an imperfective process. The first vowel of the root is often lengthened in this usage:

(339) MAKAH ła pxukal huktu[•]biq a. $4apx-uk = a\lambda = i$ huktu'p = iqfly–DUR=TEMP=INDIC.3sg bird=ART 'The bird is flying.' b. *xi'?ukal ŧi*'?i?i'?iq $xi - 2uk = a\lambda = i$ i'?i?i! = iqcrawl-DUR=TEMP=INDIC.3sg snake=ART 'The snake is crawling.' NUUCHAHNULTH c. kamitquk kamitq^w-uk run–DUR 'He was running.' (NA 255.48) d. hu?ak

d. hu?ak
hu-?ak^w
fly.in.flock-DUR
'(birds) are flying in a flock'

In Makah this "motive durative" pattern is so regular the durative can even add a motion sense to

roots that do not otherwise denote motion:

(340) MAKAH $?a^{i}ptu\dot{k}^{w}al$ $?apt.-uk = 'a\lambda = `i$ hidden-DUR=TEMP=INDIC.3sg 'He/she/it is sneaking around.'

A similar example in Nuuchahnulth:

(341) NUUCHAHNULTH *načuksi nač-uk=sir* look-DUR=1sg

'I went around looking for him' (NT 138.21)

A few other apparent process roots also take the durative, e.g.

- (342) макан
 - a. *q́ixak q́ix–ak^w* cry–DUR

'crying'

NUUCHAHNULTH b. ?a?u'q^wak ?a?u'q-ak^w play.with.spouse-DUR

'to play with one's spouse'

- c. či·qak
 či·q-ak^w
 inflict.harm-DUR
 'inflicting bodily harm'
- d. *?iḥak ?iḥ-ak*^w cry-DUR 'crying'
- e. qiλa·qak qiλa·q-ak^w fish.for.halibut-DUR
 'fishing for halibut'

6.5.3 Continuative

The continuative,⁹³ which occurs only with bound roots and a small number of suffixes (§6.7), is marked by the suffix $-(y)a^{r}$ (343)a-c, or, in the case of a few vowel-final monosyllabic roots, by lengthening the root vowel (343)c-d.

(343)	a.	MAKAH ?u'xuwa'ł ?u-xwa:ł [L+S]= 'i so.and.so-use=IMPER.2sg	<i>λ̃upku yaksic</i> <i>λ̃upk–u – yak^w = sic</i> peck–EPEN–thing.for=POSS.2sg		<i>čaqa</i> ' <i>čaq–(y)a'</i> push–CONT
	b.	NUUCHAHNULTH hawi'?aħwe?in	<i>čiya</i> , <i>či–(y)a</i> , cut–CONT		

c. $\dot{c}i\cdot qa\cdot \hat{a}\lambda ah$ $\dot{c}i\cdot q-(y)a\cdot = \dot{a}\lambda = (m)a\cdot = ah$ chant-CONT=TEMP=INDIC=1sg

'I am chanting.'

d. $ha\check{c}atiyuq\lambda$ ma' susa' $ha\check{c}at-iyuq\lambda$ ma-[L] sus-(y)a' all-in.mouth hold.in.the.teeth-CONT swim-CONT

'He had them both in his mouth, holding them in his teeth while swimming.' (from NA 378.16)

e. $su'?a\lambda we?in$?akyakuk?i... $su-[L] = 'a\lambda = we'?in$ $?ak^w-yak^w = uk = ?i'$ hold-CONT=TEMP=QUOT cut.with.knife-thing.for=POSS=ART 'She held her knife.' (NT 78.30)

Rose (1981: 263) and Nakayama (1997a: 27) both analyze the continuative as indicating that "a dynamic situation ... is enduring through time" (Rose 1981: 263). This definition is adequate as long as "dynamic" is defined along the lines suggested by Comrie (1976: 13): "[Dynamic situations] require a continual input of energy if they are not to come to an end". That is, there need be no activity or change per se, but some energy or force must be exerted to maintain the situation. A crucial set of examples shows that activity and change are not required to license the continuative. Along with dynamic process roots like M, N $\dot{c}i$ - 'cut' and M, N $\dot{c}i$ ·q- 'chant', the continuative also regularly occurs with roots denoting attachment, adhesion, holding, etc: M, N $\dot{k}u$ 'hooked', N $\dot{c}upqa$ · 'stuck in, planted', M \dot{k} "ita·, N \dot{k} "ina· 'stuck on', M $\dot{\lambda}apa$ ·, N $\dot{\lambda}ama$ · 'two-pronged object clamped on (e.g. clothespin on line)', M $ba\lambda a$ ·, N $ma\lambda a$ · 'tied', M ba·, N $\dot{m}a$ · 'holding in teeth', M qapa·, N qama· 'lassoed, snared, entangled', N sinka· 'spear, arrow sticking in target', M, N su· 'holding in hand'.

(344) NUUCHAHNULTH $\vec{k}^{w}ina'?a\hat{\lambda}ate?ic$ ya'ts?atu ti'tu'p?i $\vec{k}^{w}in-(y)a' = 'a\lambda = 'at = (m)a' = ?ic$ ya't-(c)s?atu. [L] ti'tu'p = ?i'stuck.on-CONT=TEMP=PINV=INDIC=2sg yonder-at.door devil.fish=ART

'You will be held by (lit. stuck on to by) the devil-fish there at the door.' (NT 170.31)

These examples are hard to explain away as exceptional given the consistency of the pattern, yet none of the situations they denote can be described as action or change. Any of them *could* undergo change of some sort, e.g. something can suddenly become unstuck from a surface, or ropes can gradually loosen around a bundle, but change is not intrinsic to their nature as it is with a situation like that denoted by $\dot{c}i$ - 'cut'. But neither are they inherently stable — some application of force, external or internal, is necessary for the maintenance of the expressed configuration. Application of force seems to be the core meaning of this use of the continuative.

In Nuuchahnulth, when the continuative occurs with stative roots it expresses imperfective inception: $tuq^{w}a^{v}$ 'melting' (tuq-), $cika^{v}$ 'becoming aslant, overbalanced' (cik-), $\hat{\chi}isa^{v}$ 'whitening, dawning' ($\hat{\chi}is$ - 'white, bright').

(345) NUUCHAHNULTH tu'mapi 2i'qhi' $\hat{\lambda}isa'2a\hat{\lambda}$ tum-api [L] 2i'qhi' $\hat{\lambda}is-(y)a' = 'a\hat{\lambda}$ dark-in.air still bright-CONT=TEMP 'It was still a bit dark as it dawned.' (NA 157.8)

In this use, the continuative appears to overlap the graduative (§6.5.1). It is not known whether a root like *tuq*- 'melted' also occurs with the graduative (added to its perfective form), and, if so, how this form is different in meaning from the continuative, i.e. do we find $tu \cdot q \sin \lambda$ 'melting' along with $tuq^{w}a'$ 'melting'?

In their list of Nuuchahnulth "primary stems" (1939: 243-316), Sapir and Swadesh record most bound verb roots as occuring with the continuative, e.g. $\dot{c}uq^{w}a^{r}$ 'to punch', $\check{c}ux^{w}a^{r}$ 'to tickle', $tux^{w}a^{r}$ 'to jump'. In Makah, the continuative is generally disallowed with such roots, the repetitive (§6.5.4) being preferred instead as the basic imperfective aspect. In this language, the continuative appears restricted to situations that are truly continuous, involving little internal structure and no distinguishable phases. Some light is shed on this by HW's response when queried about $\dot{c}uq^{w}a^{r}$ 'punching'. Initially, she disallowed the formation. When asked what the word would have to mean if it *were* used,⁹⁴ she said (paraphrasing), "You'd have to be like Popeye af-
ter he ate spinach", referring to an almost superhuman continuous blur of punches. After further reflection she decided the word might be possible to describe the action in a boxing match, although the repetitive $\dot{c}uqu\cdot\dot{c}u\cdot q$ would still be preferred.

6.5.4 Repetitive

The repetitive generally applies only to roots and is formed by the suffix -(y)a plus repetitive reduplication (symbolized [RepR]), which involves full reduplication of monosyllabic roots with both the reduplicative vowel and the original first syllable vowel long (346)a,d.⁹⁵ If the root ends in a vowel, $/\lambda$ / is inserted in the coda of the reduplicative syllable (346)b,e. Polysyllabic roots have initial CV reduplication with both vowels lengthened (346)c,f. Due to the apocope rule described in §3.4.3, the final vowel of the repetitive suffix in Makah is not evident in surface forms if it is word final.

(346)

- MAKAH a. či'tči't čit-(y)a [RepR] saw-REP 'sawing'
- b. $k^{w}i\cdot\lambda k^{w}i\cdot y$ $k^{w}i-(y)a$ [RepR] sharpen-REP

'sharpening, grinding, filing'

c. ?a'?a'ckat ?ackat-(y)a [RepR] jump-REP

'jumping'

NUUCHAHNULTH d. qa'tqqa'tq^wa qatq^w-(y)a [RepR] behead-REP

'behead one after another'

- e. tirλtirya ti-(y)a [RepR] wipe-REP
 'wipe repeatedly'
- f. hi'hi'xuq^wa hixuq-(y)a [RepR] shout-REP 'shout repeatedly'

Several Makah roots ending in /x/ do not show the regular vowel lengthening: čaxčaxa 'dripping' (čax- 'drip'), čuxčux^wa 'tickling' (čux- 'tickle').

Monosyllabic roots in Makah with initial voiced or ejective consonants (including glottal stop) are subject to the epenthesis rule described in §3.4.3. As usual, insertion of the long epenthetic vowel induces shortening of the initial long vowel.

- (347) MAKAH a. $ba\lambda a'ba'y$ $ba- \langle a' \rangle - (y)a$ [RepR] close.teeth- $\langle \text{EPEN} \rangle$ -REP 'biting down repeatedly'
 - b. *Âupku Âu pk Âupk-<u >-(y)a* [RepR]
 peck-<EPEN>-REP
 'pecking'
 - c. ?ała'?a'ł ?ał-<a'>-(y)a [RepR] vomit-<EPEN>-REP 'vomiting repeatedly'

A few roots irregularly insert /c/ in the coda of the reduplicative syllable. This irregularity is not limited to monosyllabic vowel-final roots. (The Makah root λa - is not attested with this meaning outside this formation.)

(348) MAKAH a. $\lambda a'c\lambda a'y$ $\lambda a-(y)a$ [RepR] hew-REP 'hewing stone' b. $\lambda i' c \lambda i' ya$ $\lambda i - (y)a$ [RepR] shoot-REP 'shoot repeatedly'

c. $\vec{k}^{wir}c\vec{k}^{wirxa}$ $\vec{k}^{wix}-(y)a$ [RepR] suck-REP

'suckling'

 d. harchurła (< harcharwiła) hawił-(y)a [RepR] wealthy-REP
 'perform a wealth display'

The repetitive has relatively uncomplicated semantics. It expresses a series of regularly spaced iterations of an event. Unlike an iterative series (§6.5.5), the series of iterations expressed by the repetitive typically takes place over a relatively short space of time and requires an agentive subject. In a pattern apparently first noticed by Rose (1981: 278), the repetitive participates in a type of split intransitivity: stative intransitive roots are transitive in the repetitive, while dynamic intransitive roots remain intransitive. (349) shows several Nuuchahnulth examples.

(349)	stative root:	<i>ki</i> λ- 'shattered' <i>qaḥ</i> - 'dead' <i>nink</i> - 'wrapped'	\rightarrow	$ki\cdot\lambda ki\cdot\lambda a$ 'shatter one after another' $qa\cdot hqa\cdot ha$ 'kill one after another' ninkninka 'wrap (tr.) repeatedly'
	dynamic root:	<i>ta'x-</i> 'spit' <i>tux-</i> 'jump' <i>ciq-</i> 'speak'	\rightarrow	<i>tarxtarxa</i> 'spit repeatedly' *'cause' <i>turxturx^wa</i> 'jumping' *'cause' <i>cirqcirqa</i> 'speaking' *'cause'

One area that requires further research is the difference in meaning between the continuative and repetitive aspects with roots like M, N $\dot{c}i$ - 'cut'. In isolation, of course, there is a difference in translation: with the continuative (M $\dot{c}ikya$ ', N $\dot{c}iya$ ') this root is translated 'cutting' and with the repetitive form (M $\dot{c}i\lambda i \cdot \dot{c}i \cdot y$, N $\dot{c}i \cdot \lambda \dot{c}i \cdot ya$), 'cutting repeatedly'. In context it is not so clear what the distinction is. For example, in Makah, 'she is cutting (the) fish' is equally well expressed by either. I examined this issue with speaker HW at some length but was unable to pin down a difference, although she seemed to feel that there was one.

6.5.5 Iterative

The iterative is formed in two ways, which I will refer to as iterative I and iterative II. In some cases, iterative I and II appear to contrast semantically, but in most other cases, they do not. As an initial approximation, both can be translated as 'do X at intervals'. I first describe the formation of iterative I and II (§§6.5.5.1-6.5.5.2), and then compare their functions (§6.5.5.3).

6.5.5.1 Formation of iterative I

Iterative I involves the suffix $-\check{s}$ (- \check{c} after vowels except -k after /u/ in Nuuchahnulth) plus a unique iterative I CV template, symbolized [IterR]: full reduplication of a monosyllabic root plus insertion of $/\lambda$ / in the coda of the reduplicative syllable if the root ends in a vowel (350)a,c-e.⁹⁶ In a few cases $/\lambda$ / is inserted even with consonant-final roots in Nuuchahnulth. Polysyllabic roots have only the first consonant and vowel reduplicated (350)b,f:

(350) MAKAH a. *hithitš hit-š* [IterR] remember-ITER

'remember every now and again'

b. *čičibuqš čibuq–š* [IterR] halibut.hook–ITER

'fishing with a halibut hook'

NUUCHAHNULTH c. mitxmitxš mitx^w-š [IterR] turn-ITER 'turn at intervals'

- d. čiλčič
 či-č [IterR]
 cut-ITER
 'cut at intervals'
- e. su λ su'k su-k [IterR] hold-ITER

'pick up at intervals'

f. *uvtučaqš učaq-š* [IterR]
 trap.with.deadfall-ITER
 'trap with a deadfall'

In Makah, epenthesis applies as normal with roots beginning with voiced or ejective consonants (including glottal stop).

(351) MAKAH
a.
$$bi\lambda i \cdot bi\lambda š$$

 $bi\lambda - \langle i \rangle - \check{s}$ [IterR]
rain--ITER
'raining intermittently'

b. ?apta·?aptš ?apt-<ar>-š [IterR] hidden-EPEN-ITER

'hiding at intervals, playing hide-and-seek'

Iterative I normally applies only to roots, not to derived bases. There are a few exceptions in Nuuchahnulth, e.g. $hi\lambda histaqš$ 'come from at intervals', from his- 'there' + -taq 'come from'. Derived bases always seem to have $/\lambda/$ inserted in the coda of the reduplicated syllable.

There are some complexities with regard to vowel length. Often, length is unchanged in either the reduplicated syllable or the original first syllable. Sometimes, however, one finds the original first syllable lengthened (e.g. M $k^w a \lambda k^w a \dot{c}$ 'back up at intervals; lobster' < $k^w a$ - 'move backwards', N $su\lambda su \dot{k}$ 'take up at intervals' in (350)c), or both vowels lengthened (e.g. M $\dot{c}a \dot{c}a \dot{$ *na'sqna'sqš* with both vowels lengthened as composed of the iterative plus the graduative, and says that they contrast semantically with the forms lacking the long vowels. She writes that the iterative "denotes sporadic occurrence of an event" (p. 271), while the so-called "graduative iterative" "indicates that the iterativity is more intense, frequent, or progressive" (p. 277). I have been unable to evaluate this claim for the Tseshaht corpus because forms with both vowels lengthened are exceedingly rare, only two have turned up so far, and the translations are not precise enough for comparison with other forms. Makah iteratives with one or two long vowels do not seem to have contrasting forms with short vowels.

6.5.5.2 Formation of iterative II

The formation of iterative II is based on the perfective (or perfective inceptive) form of a word. We first consider iterative II formation in Nuuchahnulth. Two operations are involved:

- 1. Change the final $/\lambda$ of the perfective suffix to $/\ell$.
- Lengthen the first two vowels and the last vowel (normally the vowel of the perfective suffix) of the resulting word and shorten all other vowels. In disyllabic bases both vowels are lengthened. In trisyllabic bases it is optional whether the second vowel is long or short (Sapir & Swadesh 1939: 239).

For example,

(352)	a.	NUUCHAHNULTH Perfective $\check{c}u$ ·s $i\hat{\lambda}$ $\check{c}u$ - a ·s $-i\hat{\lambda}$ face.down-on.horizontal.surface-PERF	l terative ll <i>ču'si'ł</i> <i>ču–a's–i</i> え–[IterL] face.down–on.horizontal.surface–PERF–ITER
		'lie face down on a surface'	'lie face down on a surface at intervals'
	b.	? <i>api[.]csu</i> λ ? <i>ap–i:cs–u</i> λ carry.on.shoulder–carry–PERF	? <i>a[•]picsu[•]</i> ? <i>ap–i:cs–u</i> λ–[IterL] carry.on.shoulder–carry–PERF–ITER
		'carry on shoulders'	'carry on shoulders at intervals'

c.	hisak ^w isačištu <i>ħ</i>	hirsark ^w isačišturł
	hisa–k ^w is–ačišt–uλ	hisa–k ^w is–ačišt–u <i>λ</i> –[IterL]
	there-move.away-on.ocean-PERF	there-move.away-on.ocean-PERF-ITER
	'come up there out of the sea'	'come up there out of the sea at intervals'

Recall that syllables with coda nasals count as long (§2.3). This means that an iterative II form with a coda nasal in the final syllable requires no additional lengthening there.

(353)	NUUCHAHNULTH Perfective $hupwa'k\lambda in\lambda$ $hup-wi'-'ak\lambda i-nu\lambda$ round object, move out, at rear, perfect	Iterative II hu [·] pwakλ in ł hup-wi [·] - 'akλi-nuλ-[IterL] round object, move out, at rear PEPE, ITEP
	round.object-move.out-at.rear-PERF	round.object-move.out-at.rear-PERF-ITER
	'round object comes out the rear'	'round object comes out the rear at intervals'

Some lexical suffixes are inherently perfective and thus do not occur with the perfective suffix. Bases ending in these suffixes form the iterative II in one of two ways. Some simply add the allomorph of the perfective suffix they would take if the suffix were not inherently perfective and apply the regular iterative II length changes:

(354)	a.	NUUCHAHNULTH Inherently perfective suffix kamitqwi [,] ?as kamitq ^w -wi:?as run-go.outside.PERF	Inherently perfective suffix with perfective suffix karmirtqwi?asčirł kamitq ^w -wi:?as-čiλ-[IterL] run-go.outside.PERF-PERF-ITER
		'run outside'	'run outside at intervals'
	b.	<i>hitacsuḥta hita-suḥta</i> empty.root-come.out.of.woods.PERF 'come out of the woods'	hi [•] ta [•] csuḥtinł hita–suḥta–nuλ–[IterL] empty.root–come.out.of.woods.PERF–PERF–ITER 'come out of the woods at intervals'

Others add the suffix - 'a:t and apply iterative II lengthening to the resulting base.

(355)	NUUCHAHNULTH				
	Inherently perfective suffix	Inherently perfective suffix with Iterative II suffix			
	?ayayi'	?a'ya'yi?a'ł			
	?aya–ayi:	?aya-ayi:-'a:t [IterL]			
	many-give.PERF	many-give.PERF-ITER			
	'give many'	'give many at intervals'			

The common restrictive path suffix *-?atu* 'move off, down; [L] sink, esp. into water (perf.)' has a suppletive iterative form (*-?a:t*) that is apparently related to this iterative II suffix:

(356)	NUUCHAHNULTH		
	hu [,] p?atu	hu'p?a'ł	
	hup–?atu [L]	hup-?a: [IterL]	
	round.object-sink.PERF	round.object-sink.ITER	
	'round object sinks into water'	'round object sinks into water at intervals'	

The iterative II formation is not well attested in Makah, though it is known to exist from a few forms that have turned up. For example, in one text we find

(357) MAKAH $2a \cdot di \cdot da \cdot xa \cdot \lambda wa \cdot d$ $k^{w} is \dot{c} i \cdot si \dot{t}$ $a \cdot di \cdot da \cdot xa \cdot \lambda wa \cdot d$ $k^{w} is \dot{c} i \cdot si \dot{t}$ $a \cdot di \cdot da \cdot xa \cdot \lambda = wa \cdot da$ $k^{w} is - \dot{c} i - a \cdot s - i \lambda - [Iter]$ $su \dot{c} a s$ $su \dot$

The iterative II form here, $k^{w}is\check{c}i'sil$ 'get to be on a different one at intervals' is formed by simply changing the final $/\lambda/$ of the perfective suffix to /l/, mirroring step one of the Nuuchahnulth formation as described above. More thorough description must await further examples.

6.5.5.3 Comparison of functions

Given the current dearth of Makah iterative II examples, we must confine our semantic comparison of the iterative I and II formations to Nuuchahnulth. In most cases, iterative I and iterative II are in complementary distribution: iterative I applies to bare roots and iterative II applies to derived words, with no apparent difference in meaning. Both formations express an irregularly spaced (or at least not necessarily regularly spaced) series of repetitions of an action or event.

(358) NUUCHAHNULTH

a. Iterative I

?a·qinhakčitčitš?a·qin-ha-kčit-š [IterR]why-INTERR-2sgsidewise-ITER

'Why do you keep dodging to one side (during our spearing contest)?' (NT 27.9)

 b. Iterative II ?a'ya'yi?a'ł?aλ´atma ?aya-ayi:-'a:ł [IterL]-'aλ-'at-ma' many-give.PERF-ITER-TEMP-PINV-INDIC

'He was given a lot each time (in the potlatch).' (based on NA 222.7)

Some translate Nuuchahnulth iteratives out of context as 'every now and then' or 'once in a while' (cf. Rose 1981: 271-74, Nakayama 1997a: 28), e.g. $\dot{c}ax\dot{c}ax\dot{s}$ 'spearing every now and then' ($\langle \dot{c}ax^{w}$ - '(to) spear' + iterative I). These translations might imply that the repetitions must be temporally distant from one another, perhaps days or weeks apart, and that the series as whole occurs over a considerable length of time, but no such restrictions exist: $\dot{c}ax\dot{c}ax\dot{s}$ can denote a series of events that lasts only a few minutes. The temporally extended sense may be more typical though; in fact, iteratives sometimes have a habitual connotation, as shown by their tendency to lexicalize as deverbal nouns (§8.2.1), e.g. $\dot{c}i'\dot{c}i'wahsu't$ 'bureau (of drawers), lit. gets pulled out at intervals' $\langle \dot{c}i'$ 'pull' + -wahsu(t) 'move out' + iterative II.⁹⁷

Exceptions have been recorded to the generalization that iterative I and iterative II are merely formal alternates. For example, Sapir (1924: 87, note 37) notes for the root λupk - λimk - 'awake' that the iterative II form (which he calls the "durative iterative") $\lambda u pk irl$ 'to be waking up time and again' contrasts with the iterative I form (which he calls the "momentaneous iterative") $\lambda upk \lambda upk \delta$ or $\lambda imk \lambda imk \delta$ 'to keep waking up by fits and starts'. More investigation is necessary to see how general the possibility for such contrasts is, but, at this point, it appears limited.

6.6 Aspect combinations

In addition to the simple aspects we have discussed, Makah and Nuuchahnulth allow the formation of various two- and three-aspect combinations. The main purpose of such combinations is to imperfectivize perfectives or, conversely, to perfectivize imperfectives.

We have already seen examples of the first case in §6.5.1: the graduative is added to a base ending with the perfective or perfective inceptive suffixes to imperfectivize it:

(359) **PERF-GRAD**
MAKAH
a.
$$wi'\dot{s}abu'?a\lambda s$$

 $wi\ddot{s}.-(q)ap\dot{t}-u:p-[L+S] = 'a\lambda = s$
flat-over.a.rounded.surface-CAUS.PERF-GRAD=TEMP=INDIC.1sg
'I am deflating it (a sealskin float).'

NUUCHANNULTH b. $hi \cdot ninqin \lambda ?a \cdot q \lambda a \lambda ni$ $hina - n'a \cdot q i - nu \lambda - [L+S] = ?a \cdot q \lambda = 'a \lambda = ni'$ empty.root-on.a.height-PERF-GRAD=INTENT=TEMP=1pl

We are trying to get up to the top.' (NA 142.30)

INCEP-GRAD

	NUUCHAHNULTH			
c.	пипи ⁻ к ^w алта	ya'ł	ma'k ^w aýi'ḥ?i	ћa'wiči?aћ
	$nunu'k = a\lambda = ma'$	yar!	$ma'k^wayi:h=?i'$	λawa'–iːčiλ–[L+S]
	sing=TEMP=INDIC	yonder	rescue.party=ART	near-INCEP-GRAD

'There was the rescue party singing as they approached.' (NA 238.50-51)

In the second case, the perfective or perfective inceptive suffix is added to an imperfective base to

perfectivize it, usually resulting in an inchoative/ingressive meaning. Note that the repetitive suf-

fix is lost before the perfective suffix (360)c-d.

(360) CONT-INCEP

a.	NUUCHAHNULTH $Pu's Pa\lambda qu'$ $Pu's = 'a\lambda = au'$	łu csa mi h łu csma–i h	?ałi'čiλ ?ał.–(y)a'–i:čiλ	ćićiša ćićiša
	-	woman-PL	vomit–CONT–INCEP	

'Some women would vomit from loathing.' (NA 72.19)

ITER-PERF

NUUCHAHNULTH
NOOCHAINOLIII

b.	suħsu kši?aħ	?aḥ?a'	wa'čmin
	su−š [IterR]–šiλ	?aḥ?a'	wa'čmin
	hold-ITER-PERF	then	policeman

'Then the policemen started taking them.' (NT 208.9)

REP-PERF MAKAH

c.	?a'd?aħ	čaxčaxš?aħ	<i>katuk</i>
	?a'di= 'âλ	$\check{c}a\dot{x} - (y)a \ [\text{RepR}] - \check{s}i\lambda = \dot{a}\lambda$	kaT−uk
	in.fact=TEMP	drip-rep-perf=temp	oil-DUR

'Sure enough, oil began to drip.' (HI, Raven and Bear)

NUUCHAHNULTH d. *cu'ccu'cši*λ *cuc*-(y)a [RepR]-šiλ scratch.at.itch-REP-PERF

'One starts scratching.' (NT 206.21)

Three-aspect combinations are formed by the perfective added to the graduative imperfective to re-perfectivize it. The exacts semantics of this construction require further investigation, e.g. how is $\lambda a'wiči\lambda ši\lambda$ 'approach' in (361)b different from simple $\lambda awi'či\lambda$ 'approach'?

a.	nuuchahnulth ?a'yiýapšiλ?a'qλ	ha?um
	$aya - iiyap - [L+S] - i\lambda = aiq\lambda$ many-CAUS.INCEP - GRAD - PERF = INTENT	<i>ha?um</i> fish

'He started trying to make the fish numerous.' (NT 118.35)

b. $\lambda a'wiči\lambda ši?a\lambda$ $\lambda awa'-i:či\lambda-[L+S]-ši\lambda = 'a\lambda$ near-INCEP-GRAD-PERF=TEMP

'They approached.' (NA 440.29)

PERF-GRAD-PERF

MAKAH

c. $ba \dot{c}i\lambda \dot{s}?al$ $ba - \dot{c}i\lambda - [L+S] - \dot{s}i\lambda = \dot{a}\lambda = \ddot{i}$ close.teeth-PERF-GRAD-PERF=TEMP=INDIC.3sg butter.clam=ART

'The clam is beginning to close down.'

NUUCHAHNULTH d. $qa!h\dot{s}i\lambda\dot{s}i?a\lambda$ $ha!k^{w}a!\lambda?i$ $qah-\dot{s}i\lambda-[L+S]-\dot{s}i\lambda = 'a\lambda$ $ha!k^{w}a!\lambda?i$ dead-PERF-GRAD-PERF=TEMP girl=ART

'The girl was (close to) dying.' (NT 78.4)

e. mi^{*}txšiλšiλ mitx^w-šiλ-[L+S]-šiλ turn-PERF-GRAD-PERF

'to start making a circuit, turn' (Sapir & Swadesh 1939: 241)

In theory, one can make a four-aspect combination by adding the inceptive to the continuative, followed by the graduative and then by the perfective. For example, Sapir & Swadesh (1939: 241) give Nuuchahnulth $mi^{-}tx^{wi}\check{c}i\lambda\check{s}i\lambda$ 'to start starting to turn about' (which they label "Pre-inceptive"), but there are no other clear cases. Given the rather forced translation, one can perhaps see why.

(362) **CONT-INCEP-GRAD-PERF** NUUCHAHNULTH $mi^{t}x^{w}i\check{c}i\lambda\check{s}i\lambda$ $mitx^{w}-(y)a^{t}-i:\check{c}i\lambda-[L+S]-\check{s}i\lambda$ turn-CONT-INCEP-GRAD-PERF 'to start starting to turn about' (Sapir & Swadesh 1939: 241)

6.7 Aspect and lexical suffixes

Bases with lexical suffixes have less potential for aspectual modification than bare roots because lexical suffixes typically have some aspectual force of their own. I note the basic patterns of lexical suffix/aspectual co-occurrence in this section for the sake of completeness, but a comprehensive suffix-by-suffix survey is a task for the future.

Let us first consider the potential for co-occurrence of lexical suffixes with the simple aspects discussed above. The perfective is probably the most common aspect in terms of text frequency, and also has the greatest privilege of occurrence with lexical suffixes. Several of the Nuuchahnulth perfective allomorphs listed in Table 13 and their Makah analogues occur only with suffixes, or roots lexicalized with those suffixes.

Most lexical suffixes do not occur with the durative and continuative. There are, however, a handful of exceptions, perhaps relics from an earlier period of more productive co-occurrence. It seems unlikely that the aspect suffixes make much semantic contribution in these combinations today; they now have almost the character of formative suffixes.

The following list of Nuuchahnulth suffixes that occur with the durative or continuative may not be complete, but contains the majority of the clear examples.

Examples of Nuuchahnulth suffixes that occur with the durative

Nominalizing suffixes:

-*ḥta*-, -*ḥta*·*k*^w '... many flexible receptacles full' -(*š*)*taq*-, -(*š*)*taqak*^w '... many units' Verbalizing suffixes:

-(w)aqsa-, -(w)aqsak^w 'in ... generation, layer'

-*ċinaq-*, -*ċinaqak*^w [L] 'talking about ...'

-*yihtaq*-, -*yihtaqak*^w 'derived from, originating from ...'

Restrictive path-orientation suffix:

-*hta*-, -*hta*·*k*^w 'apart, divided off; out to sea'

Examples of Nuuchahnulth suffixes that occur with the continuative

Verbalizing suffixes:

-ca'q-, -ca'qa [L] 'busied with getting, cooking, eating ... food'

-caiq-, -caiqa 'paying attention to ...'

-*cuq*-, -*cuq*^w*a* 'in ... hand'

-cał-, -cała [LR] 'give attention to, do only ...'

-ci:q-, -ci:qa 'unable to find ...'

-<u>č</u>iyuq-, -<u>č</u>iyuq^wa 'dealing with ...; attacking, trying to capture ...'

-*i'yuq*-, -*i'yuq^wa* 'doing to ...'

-mitaq-, -mitaqa [L] 'telling about ...'

-pat-, -pata [R] '... on each side; several ... -ing at once'

-pał-, -pała 'looking on admiringly at ...'

 $-(\underline{\check{s}})tu:q$ -, $-(\underline{\check{s}})tu:q^wa$ [L] 'going through ... formalities'

-*ti:?it-*, -*ti:?ita* [sometimes L] 'pretending to (be) ...'

Restrictive locative suffixes:

- '*apu*(*t*)-, - '*aputa* [L] 'underneath, on the bottom'

-cimu(t)-, -cimuta 'on the ceiling'

-cit.-, -cita 'in the water, water hole'

- $\dot{c}uq$ -, $\dot{c}uq^wa$ 'in the mouth'

-piq-, -piqa 'at the summit'

Other suffixes simply end in /a/; these may contain the continuative as an etymological component, e.g. - $\underline{\check{c}}i:qa$ [R+L] 'dragging ... along, impeded by ...', -hta' 'doing to ...', -naqa [L] 'using ... as bait', - $\dot{p}iqa$ [R] 'on the knee', - $\dot{t}u:ta$ [L] 'giving a potlatch, ceremony for ...'.

Makah cognates of the suffixes is the above lists also occur with the durative or continuative suffixes (e.g. M - xta^{w} '... many flexible recepticles full', M - 'apuła [L] 'underneath'), but it is not known if the aspect suffix is separable from the lexical suffix as in Nuuchahnulth or now simply fused with it.

When any of the above Nuuchahnulth suffixes is the final lexical suffix in a base, it must be followed by either the appropriate aspect suffix, as in (363)a, or else the perfective. The aspect suffix does not appear otherwise because a following lexical suffix normally takes aspectual precedence (363)b:

- (363) NUUCHAHNULTH
 a. ?aλhta'k ?aλ-hta-?ak^w two-X.many.sackfuls-DUR
 'two sackfuls'
 - b. ?aλhtaha ?aλ-hta-ha' two-X.many.sackfuls-buy.PERF
 'buy two sackfuls'

Bases with lexical suffixes rarely occur in the repetitive aspect. Those that do are generally specialized in some way, and hence have some independence from their component morphemes in the lexicon. For example, in §5.8 I mentioned N *ci2as* 'woo' as an example of a derivative with a specialized meaning. This is also one of the few derived words that occurs with the repetitive: *ci^2asa* 'continually engaging in marriage talk' at NA 142.49, 145.30, 276.46, etc.

Another possibility of occurrence with the repetitive in Nuuchahnulth, and perhaps in Makah as well, rests on the fact that derived or underived nominal bases denoting an exchangeable commodity can occur with a non-durative aspect to form a verb meaning 'give away X commodity', e.g. N *tarnar* 'money, dollars' in the perfective (*tarnarqši* λ) means 'give away money', N *tuč*-'woman' in the perfective (*tučši* λ) means 'give a woman in ransom'. Derived bases donating a commodity may thus occur in the repetitive with similar semantic force:

(364) NUUCHAHNULTH
 ?a'?a'λqimła
 ?aλ-qimł-(y)a [RepR]
 two-X.many.round.objects-REP

'give away two dollars repeatedly' (lit. 'give away two round objects ')

Most lexical suffixes have inherent aspectual value. The majority are imperfective, but some verbalizing and restrictive path-orientation suffixes are perfective, e.g. perfective verbalizing suffixes N -*a:hin* 'deprive of ... (perf.)' and M, N - ' $i\lambda$ [L] 'get, go for, invite ... (perf.)'; perfective path-orientation suffixes M -*a'yi* λ , N -*ayi:*? $i\lambda$ 'enter the house (perf.)', M -(*k*)*sta'*, N -(*c*)*sta'* 'move down into (perf.)'. As noted in §5.5.1, certain path-orientation suffixes are (stative) imperfective with some bases and perfective with others, e.g. M -(*k*)*swi'*, N -(*c*)*swi'* 'move through (perf.); extending through'.

7 Clitics

7.1 Introduction

An important feature of Southern Wakashan syntax is the presence of clitics in the predicate expressing grammatical categories like voice, tense, mood, among others. In Chapter 5, we described lexical suffixes in some detail. There are a number of phonological, morphological, and semantic differences between the two morpheme types. These are as follows:⁹⁸

(365) Phonological differences between suffixes and clitics

- Labialized velar and uvular consonants alternate with their homorganic non-labialized counterparts before clitics just as they do before word boundaries (§3.2.2).
- Clitics are never associated with CV templates (§3.3.1).
- Glottalizing clitics do not affect fricatives (§3.3.2).
- Long vowels in the second syllable of a word do not contract over a glottal stop inserted by a glottalizing clitic (§3.3.4).
- Sequences of vowels that do not normally reduce over a glottal stop do reduce with glottal stops inserted by glottalizing clitics (3.3.4).

(366) Morphological differences between suffixes and clitics

Clitics may be added only to complete words, that is, words that are capable of independent use in a sentence, while most suffixes are core suffixes that attach to both bound and free bases. Thus, the Makah Indicative mood clitic = "i may be directly added to the free verb root we?ič 'sleeping':

we?ič we?ič = [°]i sleep=INDIC.3sg 'He/she/it is sleeping.' A bound root like $\dot{q}^w a b a q$ - 'yellow, green', on the other hand, must first take some suffix before the Indicative clitic can be added:

 $\dot{q}^{w}abaqaw$ $\dot{q}^{w}abaq-ak^{w}=$ [°]i yellow-DUR=INDIC.3sg 'It is yellow.' * $\dot{q}^{w}aba\dot{q}$

 $\dot{q}^w abaq = \hat{i}$

- Closely related to this is the fact that clitics never occur with the combining forms of free roots or suffixes (§5.2.2.1), only with free forms.
- In the overall structure of the word, suffixes appear closer to the root than clitics; clitics never precede suffixes in a word.
- Clitics must occur in a fixed order relative to each other, while (nuclear) suffixes may often occur in different orders to express different meanings.
- Clitics attach without formal or semantic irregularity to almost any word in the language according to its syntactic function (see below). Suffixes are collocationally more restricted, and can have idiosyncratic semantic effects or enter into lexicalized combinations with bases.

Finally, there is an obvious difference in denotation between lexical suffixes and clitics. As we have seen, suffixes often have semantic content akin to that of independent lexical items, or even phrases, in English, e.g. M $-(k^w)irt$ [L+S] 'making ...', -idux 'looking for ...', -adit [L] 'on the neck'. The meanings of clitics (e.g. tense, mood) are much more abstract by comparison, and clearly mark them as belonging to the grammatical, rather than the lexical level, of the language.

Before turning to more detailed discussion of individual clitics, let us remind ourselves of their general character. Syntactically, clitics are most associated with the predicate, which was defined in §4.3 as an obligatory predicate head (normally a single word, but sometimes a complex of property + noun, numeral + noun, etc.) and one or two optional predicate modifiers. Based on

their typical positions in this predicate structure, three types of clitics can be distinguished (§4.3.4): 1) second-position clitics, which attach to the first word of the predicate, whether head or modifier, 2) head clitics, which attach at least to the head, and 3) flexibly-positioned clitics. The Nuuchahnulth sentence in (367) shows exemplars of each category. The second-position tense, mood, and pronominal subject clitics are hosted by the initial predicate modifier; the passive-inverse and possessive head clitics are hosted by the predicate head $\dot{c}irfsarp$ 'cause to escape, run away'; and the flexibly-positioned temporal specifer = ' $a\lambda$ is hosted by both.

(367) NUUCHAHNULTH $?ah?a'?a\lambda itah$ $?ah?a'?a\lambda itah$ it=(m)a'=ah $it=-sa'p=a\lambda = at = uk$ it=-caused my (slave) to run away.' (NT 162.40)

However, rightward copying of second-position clitics is sometimes possible and leftward copying of head clitics is common. In (368)a, the subject clitic has been copied from the initial modifier onto the following head, and in (368)b, the passive-inverse has been copied onto the initial modifier from the following head:

NUUCHAHNULTH (368)a. ?ah?a'?aħsi ma'kuksi qu'{... $?ah?a' = 'a\lambda = si' mak^{w} - uk = si'$ qu'ł then=TEMP=1sg buy-DUR=1sg slave 'Then I bought a slave.' (NT 138.19) b. *ÿ́u'q^wa'?at*λa' *łahači?at* $\dot{v}u^{w}a^{v} = \dot{a}t = \lambda a$: $\partial aha - \check{c}i\lambda = \dot{a}t$ likewise=PINV=again turn.away-PERF=PINV

'He was likewise turned away from again.' (NT 82.27)

Another situation in which head clitics are copied leftward involves the passive-inverse, which is often copied from the head of a lower bare absolute complement head onto the head of the higher matrix predicate (§4.6.2.1):

(369) NUUCHAHNULTH wikat hin?atši?at...wik='at $hin-.?at-si\lambda$ = 'at not=PINV empty.root-aware.of-PERF=PINV 'He was not noticed.' (NA 408.2-3)

It has been suggested by some (e.g. Klokeid 1976, Renker 1987) that clitics in Ditidaht and Makah (and, by extension, Nuuchahnulth) form a second-position AUX constituent. I find examples like (367)-(369) to be evidence against this analysis, since the clitics do not appear to form a single block or constituent in sentence structure, nor do they all automatically attach to the first word of the predicate (or sentence).

7.2 Mood and pronominal clitics

We begin with description of the mood and pronominal clitics due to their importance in the grammatical system. The basic principles underlying their use have been described in §4.3.1.

7.2.1 Makah mood-pronominal forms

Jacobsen (1973) contains the first description of Makah moods and pronouns. My analysis generally agrees with his, but does differ in certain respects. Some differences are merely terminological, e.g. I have renamed his "nominal" mood the "Relative". In other places, as he notes, alternative analyses of forms are possible given the raw data. My choice of an analytical alternative for Makah has sometimes been influenced by study of the Nuuchahnulth material (and vice-versa). For instance, one can analyze one particular Makah variant of the third person plural clitic as either $= \mathbf{t}$ or $= a\mathbf{t}$ (see the section "Third person subject" below). Based on the Nuuchahnulth cognate $= ?a\mathbf{t}$ (§7.4.1), I have analyzed the form as $= a\mathbf{t}$. This also brings the form into line with two other variants of the clitic in Makah which are uncontroversially $= a \cdot \mathbf{t}$ and $= a \cdot \mathbf{t}$. On the other hand, Jacobsen selects the $= \mathbf{t}$ option (Jacobsen 1973: 5, et passim), presumably on the sound principle that, everything else being equal, one should only posit segments for which one has direct evidence. For me, the Nuuchahnulth form and the other Makah forms tip the scales for $= a^{\ddagger}$. This allows us to straightforwardly reconstruct a third plural allomorph for Proto-Nootkan $* = (?)a^{\ddagger}$ (assuming the Ditidaht data is not contradictory) without having to account for an errant Makah reflex that lacks the vowel. Nonetheless, there is one instance in which it does seem we must posit an $= i^{\ddagger}$ allomorph in Makah (§7.4.2).

Combinations of first and second person

We begin our presentation of Makah pronominal clitics with forms expressing combinations of first and second persons, shown in Table 14.

			Non-subjects	
Subjects	2sg	2pl	1sg	1pl
1sg	=si:cux	=so:wacux		
1pl	=di:cux	=do:wacux		
2sg			=°icis(a:)	=°icdi:s(a:)
			=sis	=dis
2pl			= $icso:wasač(a:)$	= $icdo:wasač(a:)$
			=so:wasač	=do:wasač

Table 14. Makah pronominals - combinations of first and second person

Rows represent subjects, and columns represent non-subjects. (I say "non-subject" rather than "object" because, as mentioned in §4.3.1, obliques are sometimes indexed by these forms as well as objects.) Further morphological segmentation is possible in the table, but I have chosen to leave the forms unanalyzed in this dissertation for simplicity. Jacobsen (1973: 6-8) can be consulted for suggestions concerning further analytic possibilities.

The four forms at the top left of the table express first person subject with second person nonsubject. These forms occur by themselves as Indicative mood forms as well as with clitics expressing other moods, or with no mood clitic (in absolute predicates). The bottom right of the table shows the eight forms expressing second person subject with first person non-subject. The upper form in each cell occurs by itself as the Indicative mood form. (The longer forms appear preceding the responsive post-modal clitic $= \check{s}i$: (§7.4.3).) The lower form occurs elsewhere, i.e. with mood clitics or in absolute predicates.

First and second person subject, intransitive or with third person non-subject

Table 15 shows pronominal clitics expressing first and second person intransitive subjects. The same forms convey first or second person subjects with third person non-subjects. Some forms

	Set 1	Set 2a	Set 2b	Set 2c
1sg	=s(i)	=si: $=s$		= S
pl	=(i)d	=du:	=d	=du:
2sg	=°ic	=su:		=Ø
pl	=°ica:	= sa:		

Table 15. Makah pronominals - first and second person intransitive subjects

have longer shapes when followed by certain post-modal clitics, especially the habitual = a:k (§7.4.2) and the responsive $= \check{s}i:$ (§7.4.3), e.g. the Set 2 second plural form is $= so:wa\check{c}$ when followed by $= a:k: = so:wa\check{c}a:k$ 'you (pl.) always ...'. Presentation of these longer variants is mostly reserved for later sections to avoid cluttering the table with alternate forms. We can note here, however, that the first person singular Set 1 form is = si when followed by the habitual and responsive, otherwise it is = s. The first person plural Set 1 form is = d unless it follows a consonant and is not in turn followed by a vowel, in which case it is = id.

The forms are divided into four sets according to the shape they take following different mood clitics, although no person/number combination shows four distinct variant forms: first singular and plural and second singular have three variants each; second person plural has only two. Some individual variants for any given person/number combination are obviously shared between sets, but the sets differ as to which particular variant they show, e.g. Set 2a and Set 2c show the same first plural variant (=du), but for second singular, it is Set 2a and Set 2b that are identical (=su).

Turning now to the distribution of the sets by mood, Set 1 occurs by itself to express Indicative mood. It probably also follows the Purposive clitic = '*a*:, but this mood is not fully attested (§7.2.5). Set 2a occurs in absolute predicates and with the Subordinate mood and the various evidential moods (Quotative, Inferential, etc.). Set 2b occurs only with the Conditional mood = qey(u) (§7.2.6). Set 2c occurs with the Relative mood and the two Interrogative moods. (These mood-pronominal set combinations are repeated in Table 16.)

Third person plural non-subjects can be indicated by the third plural clitic = a:t (§7.4.1) following the first singular and plural and second singular forms in Table 15 (for second plural with third plural see below). This third plural marking is apparently limited to human and perhaps higher animate non-subjects. When followed by = a:t, the non-Indicative sets (Sets 2a-c) reduce to a single set of forms equivalent to Set 2a. That is, non-Indicative first singular is always = si:with = a:t, second singular is = su:, etc. This formal syncretism suggests that originally there were only two sets, Indicative and non-Indicative (modern Set 2a). The longer variants these forms show with other post-modal clitics point to the same conclusion.

The =a:t plural clitic cannot follow the second person plural clitic. Jacobsen (1973: 5-6) plausibly relates this expressive gap to potential loss of semantic contrast, e.g. adding third plural =a:t to Set 1 (Indicative) second plural = *ica:* would produce * = ica:t on the surface — the same form that expresses Indicative second *singular* subject and third plural non-subject. He (1973: 6) also describes several "work around" strategies, the simplest of which is to ignore the plurality of the non-subject.

Third person subject, intransitive or with third person non-subject

Third person singular Indicative intransitive subjects are expressed by the clitic = i. As with first and second persons, the same clitic is used with third person non-subjects. Third plural intransitive subjects (or, again, third plural subjects with third non-subjects) add a short-vowel variant of the third plural suffix, = at, to produce = it. Third plural non-subjects cannot be indicated with a third person subject. If the plurality of a third person P argument must be expressed (often, of course, it is simply unexpressed), a passive is used, which allows it to be coded as subject.

There is no third person singular non-Indicative clitic: third person singular non-Indicative subject is either zero or indicated by a variant shape of the mood clitic; these are listed below. Third person plural non-Indicative is expressed by yet another variant of the third plural clitic, = at. The restriction against marking a third person plural non-subject with a third plural subject also applies to non-Indicative forms.

Throughout the preceding discussion readers may have noted the lack of any forms with third person subjects and first or second person non-subjects. This is explained by the hierarchical pattern of subject choice described in §4.4.2 and §7.3.5; propositions with a third person A and first or second person P are expressed by a passive-inverse construction with the first or second P coded as subject.

Mood clitics

The mood clitics are listed in Table 16.⁹⁹ A couple have variant forms in past tense that are explained in the relevant sections below. The shapes that appear with first and second person pronominals are listed separately from the one indicating third person, if they differ. The Content Interrogative clitic has three forms. The first occurs with first and second person singular intransitive subject pronominals; the second occurs with all other first and second person pronominals; the third is the third person form. Hyphens in the representation of a clitic indicate possible etymological boundaries between modal formatives. The third column of the table indicates the pronominal set from Table 15 that accompanies the clitic.

Paradigms for most common and fully attested moods in Makah are laid out in the tables following the mood table.

Table 16. Makah mood clitics

Mood	Clitic	Set
Indicative	Indicative pronominals	1
Purposive	= 'a:	1?
Quotative	1, 2 = wart, 3 = warda	2a
Subordinate	1, 2 = x, 3 = qa	2a
Inferential	= x-aš	2a
Mirative	=°a:š-kub	2a
Conditional	1, 2 = qey, 3 = qeyu	2b
Relative	1, 2 = (q)ik, 3 = (q)i	2c
Content Int.	1sg(/3sg), 2sg(/3sg) = (q)i:k,	2c
	other 1, $2 = (q)ik$,	
	3 = (q)ad	
Polar Int.	1, 2 = (q)a:k, 3 = (q)a:	2c

Indicative

Non-subjects				
Subjects	2sg	2pl	1sg	1pl
1sg 1pl	= siːcux = diːcux	= so:wacux = do:wacux		
2sg 2pl		·	= °icis(a:) = °ico:wasač	= °icdi:s(a:) = °icdo:wasač

	Non-subjects		
Subjects	(3sg)	3pl	
1sg	=s(i)	= satt	
1pl	=(i)d	= da:	
2sg	=°ic	=°ica:	
2pl	=°ica:		
3sg	=° <i>i</i>		
3pl	=°i t		

	Non-subjects			
Subjects	2sg	2pl	1sg	1pl
1sg 1pl	= wa:tsi:cux = wa:tdi:cux	= wa:tso:wacux = wa:tdo:wacux		
2sg	-	-	=wa:tsi:s	=wa:tdi:s
2pl			= wa:tso:wasač	= wa:tdo:wasač

	Non-subjects		
Subjects	(3sg)	3pl	
1sg	=wa:tsi:	=wa:tsi:ł	
1pl	=wa:tdu:	=wa:tdu:{	
2sg	=wa:tsu:	=wa:tsu:ł	
2pl	=wa:tsa:		
3sg	=wa:da		
3pl	=wa:dał		

Subordinate

		Non-	subjects	
Subjects	2sg	2pl	1sg	1pl
1sg 1pl	= xsi:cux = xdi:cux	= xso:wacux = xdo:wacux		
2sg 2pl			= xsi:s = xso:wasač	= xdi:s = xdo:wasač

	Non-subjects	
Subjects	(3sg)	3pl
1sg	=xsi	=xsit
1pl	= x du	= x du d
2sg	= xsu	=xsust
2pl	=xsat	
3sg	= qa	
3pl	= qa!	

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	Non-subjects				
Subjects	2sg	2pl	1sg	1pl	
1sg 1pl		=qeyso:wacux =qeydo:wacux			
2sg 2pl			=qeysi:s =qeyso:wasač	= qeydi:s = qeydo:wasač	

	Non-subjects			
Subjects	(3sg)	3pl		
1sg	= qeys	=qeysi:t		
1pl	= qeyd	=qeydu:ł		
2sg	= qeysu:	=qeysu:ł		
2pl	= qeysa:			
3sg	= qeyu			
3pl	=qeyuł			

Relative

	Non-subjects				
Subjects	2sg	2pl	1sg	1pl	
1sg 1pl	· ·	=(q)ikso:wacux =(q)ikdo:wacux			
2sg 2pl			=(q)iksi:s =(q)ikso:wasač	=(q)ikdi:s =(q)ikdo:wasač	

	Non-subjects			
Subjects	(3sg)	3pl		
1sg	=(q)iks	=(q)iksist		
1pl	=(q)ikdu	=(q)ikdud		
2sg	=(q)ik	=(q)iksust		
2pl	=(q)iksa:			
3sg	=(q)i			
3pl	=(q)adt			

Content Interro	gative

	Non-subjects				
Subjects	2sg	2pl	1sg	1pl	
1sg 1pl	· ·	=(q)ikso:wacux =(q)ikdo:wacux			
2sg 2pl			=(q)iksi:s =(q)ikso:wasač	=(q)ikdi:s =(q)ikdo:wasač	

Non-subjects			
(3sg)	3pl		
=(q)iks	=(q)iksit		
=(q)ikdu	=(q)ikdud		
=(q)ik	=(q)iksut		
=(q)iksa:			
=(q)adt			
=(q)a:			
	(3sg) = (q)i:ks = (q)ikdu: = (q)i:k = (q)iksa: = (q)a:t		

Polar Interrogative

	Non-subjects				
Subjects	2sg	2pl	1sg	1pl	
1sg 1pl	•	= (q)a:kso'wacux $= (q)a:kdo'wacux$			
2sg 2pl			=(q)a:ksi:s =(q)a:kso:wasač	=(q)a:kdi:s =(q)a:kdo:wasač	

	Non-subjects			
Subjects	(3sg)	3pl		
1sg	=(q)a:ks	=(q)a:ksi: t		
1pl	=(q)a:kdu	=(q)a:kdu:d		
2sg	=(q)ak	=(q)a:ksu:t		
2pl	=(q)a:ksa:			
3sg	=(q)a			
3pl	=(q)ad			

7.2.2 Nuuchahnulth mood-pronominal forms

Earlier descriptions of Tseshaht Nuuchahnulth mood and pronominal subject forms are found in Sapir (1924), Swadesh (1933: 16-17), Swadesh (1939: 82), Sapir & Swadesh (1939: 242-43), Swadesh (1948a), and Haas (1969).¹⁰⁰ The analysis contained herein is along the lines suggested by Sapir (1924), although the Indicative paradigm listed by Sapir (1924: 82, note 1) does not segment the modal formative from the pronominal endings.

Nuuchahnulth presents fewer complications than Makah with regard to mood and pronominal marking. To begin with, in most moods Nuuchahnulth pronominal clitics index only subjects. Second, there is less variation in the shapes of mood clitics and in the pronominal subject clitics. Third, in the present analysis, third person is unmarked (except, occasionally, by an irregularity in the form of the mood clitic when it is not followed by a first or second person clitic). A third person plural subject or object can optionally be marked with the third plural clitic = 2at (§7.4.1).

Nuuchahnulth subject clitics fall into four sets based on the mood clitics they occur with (Table 17). (These four sets are not to be taken as etymologically equivalent to the four Makah sets in Table 15, although, many of the individual formatives are undoubtedly at least partially cognate.) Set 1 occurs with the Indicative and Purposive clitics. Set 2a occurs in absolute predicates and with the Quotative. Set 2b occurs with most of the other mood clitics: Interrogative,

	Set 1	Set 2a	Set 2b	Set 2c
1sg	= aḥ	= si'	$= s^{c}$ $= n$ $= k$ $= su:$	= sa'
pl	= ni	= ni'		= na
2sg	= ?ic	= su'k ^a		= ka'
pl	= ?icu:	= su' ^b		= su:(wa)

Table 17. Nuuchahnulth pronominal subject sets

^a-*cuk* following Quotative

^b-cu^r following Quotative

^c-si with Inferential I

Conditional, Subordinate, Definite and Indefinite Relative, and Inferential I. Set 2c occurs with the Inferential II and Dubitative moods. The Assertive apparently mixes Set 1 and Set 2 forms.

The Nuuchahnulth mood clitics are listed in Table 18. Hyphens indicate a few probable boundaries between etymologically distinct modal formatives. I have mostly retained the mood names as given in Sapir & Swadesh (1939: 242) except their "Relative" mood has been renamed "Definite Relative". The Inferential I and Assertive moods, not included by them, have been added based on my study of the texts.¹⁰¹ Their names are my own invention. My "Assertive" mood corresponds to Rose (1981) and Nakayama's (1997a) "indicative" in Kyuquot and Ahousaht dialects. See §7.2.19. One of Sapir and Swadesh's moods, the Relative Dubitative, has

Table 18. Nuuchahnulth mood clitics

Mood	Clitic	Set		
Indicative ^a	$=(m)a^{\prime}, =ma^{\prime}$	1		
Purposive ^a	= 'a:, = 'e:-?it	1		
Quotative ^b	=we'?in, $=$ we'?i	2a		
Subordinate ^c	= qa', = 2i't-qa, = 2i't-q	2b		
	$= \dot{h}^{\mathrm{d}}$	2a		
Inferential I	$=\dot{\check{c}}a'\check{s}$	2b		
Conditional	=qu	2b		
Definite Rel. ^e	=qa', =2i't-qa, =2i't-q	2b		
Indefinite Rel.	=(y)iz	2b		
Interrogative	= ha·	2b		
Inferential II $^{\rm f}$	$= \dot{\check{c}}a'\dots - \hat{r}a - \check{s}, = c\dots - \hat{r}a - \check{s}, = \check{c}\dots - \hat{r}a - \check{s}$	2c		
Dubitative ^f	$=qa'$ - $\dot{c}a$, $=qa'$ - c , $=qa'$ - \dot{c}	2c		
Assertive	= ?i'-š	1, 2		

^aSecond form when no pronominal follows, i.e. third person

^bSecond form with 1sg

^cSecond form with 2sg, third with 2pl

^dSee text

^eSecond form with 2sg, third with 2pl or no pronominal

^fSecond form with 1sg and 2pl, third with 2sg

been judged a mood combination rather than a simplex mood and so does not appear in the table. See §7.2.3 and §7.2.14 below for details.

Complete Nuuchahnulth non-Imperative mood-pronominal paradigms are shown in Table 19 (based on Sapir & Swadesh 1939: 242).

1sg pl 2sg pl 3	Absolute = si^r = ni^r = su^rk = $su:$ = \emptyset	Indicative $= (m)a\cdot h$ $= (m)in$ $= (m)e\cdot 2ic$ $= (m)e\cdot 2icu:$ $= ma\cdot$	Purposive = 'a:ḥ(sa) = 'a:ni = 'e:?ic(a) = 'e:?icu' = 'e:?it(a)	=we'?inni =we'?incuk =we'?incu:	Subordinate = qa's = qin = 2i'tqak = 2i'tqsu: = qa'
1sg pl 2sg pl 3	Inferential I = $\dot{c}a'si\ddot{s}$ = $\dot{c}in\ddot{s}$ = $\dot{c}a'k\ddot{s}$ = $\dot{c}a'su'\ddot{s}$ = $\dot{c}a'\ddot{s}$	Conditional = qu:s = qun = qu:k = qu:su: = qu:	Definite = qa 's = qin = $2i$ · $tqak$ = $2i$ · $tqsu$: = $2i$ · tq	Indefinite = $(y)is$ = $(y)in$ = $(y)ik$ = $(y)isus$ = $(y)isus$	Interrogative = ha's = hin = ha'k = ha'su: = ha'
1sg pl 2sg pl 3	Inferential II = $(c)sa^{2}as$ = $\dot{c}a^{2}aas$ = $\dot{c}ka^{2}as$ = $csu:(wa)^{2}as$ = $\dot{c}a^{2}as$	Dubitative = $qa \cdot csa$ = $qa \cdot csa$ = $qa \cdot csa$ = $qa \cdot csa$ = $qa \cdot csa$	Assertive = si'š = niš = ?ick = ?icu:š = ?i'š		

Table 19. Nuuchahnulth non-Imperative mood-pronominal paradigms

7.2.3 Mood combinations and other modal formatives

The mood clitics are mutually exclusive with one exception in Nuuchahnulth: the Quotative can combine with some of the other moods. It co-occurs at least with the Conditional, the Subordinate, the Inferential II, and the Dubitative. The Conditional and Subordinate precede the Quotative, while the two evidential moods, the Inferential II and Dubitative, follow it, e.g.

COND=QUOT: = qu:we?in (but occasionally QUOT=COND, = we'?inqu:) SUBOR=QUOT: = hwe'?in QUOT=DUB: = we'?inqača QUOT=INFERII: = we'?inča?aš Examples of these Quotative combinations will be given below in the sections on the relevant non-Quotative moods.

Several other modal formatives are in use in Makah and Nuuchahnulth, but these never occur without the presence a mood clitic from Table 18.¹⁰² These additional formatives are as follows:

- M = (o:)wis, N = (w)u:s dubitative, precedes at least the M, N Indicative, N Subordinate, M Relative, N Indefinite Relative, N Inferential II, and N Dubitative. Other combinations may be possible. The dubitative expresses the possibility that an event might occur or doubt as to whether it will occur.
- M = pit evidential, occurs with the Indicative.¹⁰³
- $N = \check{c}$ quotative/evidential, occurs with the Conditional, Interrogative, Indefinite Relative, and perhaps Subordinate. It is inserted between the mood clitic and the pronominal clitic, e.g. the second person singular quotative Indefinite Relative is $= (y)i: = \check{c} = k$. This formative is probably also an etymological component of the Inferential I & II and Dubitative mood clitics.
- $N = 2a^{\prime}$ follows the Interrogative to form negative biased questions: 'Is he? (of course not)' (Swadesh 1939: 83).
- N = qo: follows the Subordinate (rarely) and Inferential II (commonly) to express unanticipated result: 'as it turned out'.

See below for examples of these formatives in use.

7.2.4 Indicative

The Indicative is the unmarked mood for assertion in conversation.

(370) MAKAH a. $tapxa raq\lambda ittadi yiksi cux$ $tapx-a - 'aq\lambda - 'itta-di\lambda = 'eyik = si:cux$ fly-EPEN-inside-in.nose-PERF=FUT=INDIC.1sg/2sg 'I will fly up your nose! (said Wren)' (Elk and Wren) b. sitxi yur ?awic $sitx - ir - yur = ?ak^w = °ic$ tear - EPEN-having.been...-ed=POSS=INDIC.2sg $yaq^w - 'ic = (q)ik$ that.which-clothed.in=REL

'Your dress is torn.' (II and RC)

c.	İi l alal	wałšiħ	ћu [,] kšu [,] d
	$\dot{t}it - at = a\lambda = \ddot{i}$	wał–šiλ	λu [,] kšu [,] da
	wet-on.external.surface=TEMP=INDIC.3sg	go.home-PERF	raven

'Raven went home wet.' (Qweti and Raven)

(371) NUUCHAHNULTH a. *?apsči'kma*

?apsči [,] kma	ya'yił	we'?i'tq	ḥaŵił?i
?am–sči:k ^w –ma [,]	yarl-'il	wa'=?i'tq	hawił=?i'
right.in.center-going.along=INDIC	there-in.house	say=DEF	chief=ART

'The chief's words are true.' (NA 77.38-39; said in a potlatch speech) lit. 'What the chief is saying is going along the right way there.'

b. $hisa \cdot \check{c}i\lambda itah$ $hisa - a \cdot -\check{c}i\lambda = (m)it = (m)a \cdot = ah$ there-go.out.to.sea-PERF=PAST=INDIC=1sg

'I went out to sea there.' (NT 74.28; said in conversation)

c.	?ačýa'me?ic	wa'?aħwe?in	qu'?as?i
	$a\check{c}\check{y}a'p = (m)a' = 2ic$	$wa' = a\lambda = we'?in$	qu'?as=?i'
	gather.wood=INDIC=2sg	say=TEMP=QUOT	person=ART

"You are after wood," said the man.' (NT 64.12-13)

d.	?aħamin	λatŵi'
	$a \lambda a = (m)a' = ni$	λatŵi'
	two=INDIC=1pl	paddler

'There were two of us crewmen.' (NA 281.1)

e. $\check{c}u$ hawi' $?a\lambda e?icu'$ wa' $?a\lambda atni$ quq^wa's?i $\check{c}u$ hawi' $-\lambda = `a\lambda = (m)a' = ?icu:$ wa' $= `a\lambda = `at = ni'$ [R]-qu'?as = ?i' DISC finish-PERF=TEMP=INDIC=2pl say=TEMP=PINV=1pl PL-person=ART

"Well, you are finished," the people told us.' (NT 180.8)

Following are a few examples of the Indicative with the dubitative formative introduced in

§7.2.3, =(o')wis in Makah and =(w)us in Nuuchahnulth.

(372)		MAKAH	
	a.	ye'yi‡sa'po'wisic	qałartksic
		veryid—sa: $p = (o:)wis = ic$	$qa^{a}a^{a}tk^{w}=sic$
		hurt–PERF.CAUS=DUB=INDIC.2sg	younger.brother=POSS.2sg
		'Vou might hurt your brother '	

'You might hurt your brother.'

b. $qax\dot{s}i\lambda o'wiss$ ti' $qa\dot{x}-\dot{s}i\lambda = (o:)wis = s$ ti'dead-PERF=DUB=INDIC.1sg DEM

'I might die here!' (HS, Qweti Looks for a Wife)

(373) NUUCHAHNULTH

a. ...qahši λ urse?ic qah-ši λ = (w)urs = (m)ar = ?ic dead-PERF=DUB=INDIC=2sg wikirt-sarp-čirp = (w)urs = (m)ar = ah not.exist-CAUS.PERF-BEN=DUB=INDIC=1sg

ča?ak ča-?ak^w water-DUR

'You might die – I might cause your water (supply) to disappear.' (NT 72.7)

b. ...wirkitsakursin wikirt-sa [L+S] = 2ak = (w)u:s = (m)a = ninone-precisely=POSS=DUB=INDIC=1pl tuhck^wir... head-remains.of

'We might have no heads at all (even having killed a man).' (NA 441.9)

c. $\dot{w}asnawu'se?ic$ $\dot{w}asna = (w)us = (m)a' = ?ic$ unwilling=DUB=INDIC=2sg

'You might be unwilling.' (NT 94.4)

d. $...qahsa \dot{p}atu sma$ $nu\dot{w}i...$ $qah-sa \dot{p} = at = (w)us = ma$ $nu\dot{w}i$ dead-CAUS.PERF=PINV=DUB=INDIC father.POSS.2

'Your father might be killed.' (NA 357.50-51)

Objects in Nuuchahnulth are not normally marked in the clitic sequence. One exception is found with Imperative moods, which I discuss at §7.2.20. In the ceremonial language of speeches, one also occasionally finds forms for second person singular subject acting on first person singular object that occur only with the Indicative, $=(m)a^{\prime}=2icas$, transparently formed from the regular second singular plus *-as*:

(374) NUUCHAHNULTH
a.
$$2ir\dot{c}arpapa\lambda e2icas$$

 $2ir\dot{c}arpi=ap=a\lambda=(m)ar=2icas$
lifted.up=CAUS=TEMP=INDIC=2sg/1sg
'You have lifted me up.' (NA 76.33)

b.	łučha me?icas	?uwi'
	$4u\check{c}-\dot{h}a'-(m)a'=2icas$?u–wi
	woman-buy.PERF=INDIC=2sg/1sg	so.and.so-first
	'You took in marriage from me	first.' (NA 136.34)

c. ?u'šýa'?apaλe?icas
 ?u'š-ýa' = 'ap = 'aλ = (m)a' = ?ic = as
 something-troubled.by-CAUS=TEMP=INDIC=2sg=1sg

'You are making me suffer.' (NA 449.43)

This is obviously reminiscent of the regular Makah Indicative second singular on first singular form. Approximate Makah counterparts of (374)a and (374)b would be (375)a and (375)b, respectively.

(375) MAKAH a. $hi \cdot dapa \cdot \hat{\lambda} u b i c i s$ h i da - api [L] = ' $a \hat{\lambda} = 'ap = °i c i s$ empty.root-in.air=TEMP=CAUS=INDIC.2sg/1sg 'You are holding me up.'

b.	?a?a'b?ucis	?uxu'	łuč <u></u> xa'
	$a^{a}a^{b} = (b)u = icis$?ux−u′	łuč–xa'
	first=PAST=INDIC.2sg/1sg	so.and.so-APPEN	woman-buy

'You took in marriage from me first.'

7.2.5 Purposive

A Purposive adverbial clause expresses the reason or purpose for the action denoted by the main

clause.

(376)	a.	NUUCHAHNULTH $hinatsa\dot{\rho}i\lambda a'$ $hina-at-sa'p = 'i' = \lambda a:$ empty.root-arrive-CAUS.PERF=IMPER.2sg	=again	$\lambda a 2u'qu'$ $\lambda a 2u' = qu:$ another–COND	<i>ṗinẁał</i> <i>ṗinẁał</i> war.canoe
		[$mu'\dot{c}iq\dot{s}i?e'?it$ [$mu'-\dot{c}iq-\dot{s}i\lambda = 'e:?it$ [four-X.many.long.objects-PERF=PURP	<i>ṗinẁa ṗinẁa</i> war.car	[d]	

'Have another war-canoe come, so that there are four.' (NT 148.19-20)

b.	hičmači [,] łši?ič	[čiči?a'ni]
	$hi\check{c}$ -ma-(\check{c})i: t - $\check{s}i\hat{\lambda}$ = 'i' \check{c}	$[\dot{c}i-\dot{c}i\lambda=ia:=ni]$
	illuminate-thing-make-PERF=IMPER.2pl	[cut-PERF=PURP=1pl]

'Make torches so we may cut them (sea lions) up.' (NA 74.4)

The Purposive is not fully attested in Makah, but has been noted in the following passage (by speaker KH):

(377) MAKAH
 wike'?ic hakya'qawiλ
 wik = 'a: = °ic hakya'qawiλ
 not=PURP=2sg forget.PERF
 'It's so you don't forget.' (KH)

Its formation is apparently similar to the Purposive in Nuuchahnulth: clitic = 'a: plus Set 1 (Indicative) pronominals.

7.2.6 Quotative

The Quotative indicates that a statement is based on hearsay evidence rather than the direct experience of the speaker. The person reference cross-references the person of the subject, not the speaker.

(378)MAKAH ?iyaxa'txitwa'd hupačakt a. $2iyaxa-atx = (b)it = wa:da \quad hup-ačakt$ at-residing=PAST=QUOT.3sg round.object-on.ocean 'They say she lived at Round-thing-on-Ocean (Tatoosh Island)' (HS, Sea Gull) b. da?a'?aħwa'dał wa'qitbadax $da?a' = 'a\lambda = wa: da = a$ wa: qit-badaxhear=TEMP=QUOT.3sg=3pl frog-PL '(It is said) they heard frogs (croaking).' (HW, Frogs) (379) NUUCHAHNULTH ?aḥ?a'?aħwe?in kaḥši?aλ k^watya't a. $?ah?a' = `a\lambda = we'?in \quad kah-\check{s}i\lambda = `a\lambda$ k^watya't then=TEMP=QUOT burst-PERF=TEMP Kwatyat 'They say that Kwatyat then burst.' (NT 40.10)

b. hu'ya'ł?a'qλwe?isi hu'ya'ł = ?a:qλ = we'?i = si' dance=INTENT=QUOT=1sg
'It is said I am to dance.' (NT 122.34)

As mentioned in §7.2.3, The Nuuchahnulth Quotative may co-occur with the Conditional §7.2.11,

Subordinate §7.2.7, Inferential I §7.2.9, Inferential II §7.2.17, and Dubitative §7.2.18 moods.

7.2.7 Subordinate

The Subordinate is used most often in realis complement clauses following predicates of perceiving, saying, thinking, and feeling. In Nuuchahnulth, such clauses are frequently preceded by the subordinating particle *?ani*.

(380)	a.	MAKAH $ba'qi'daxa'\lambda'u'k$ $kaba'tap$ [? $iyaxaqa$ xu' $cu'widiq$] $ba'qi'daxi = 'a\lambda = 'u:k$ $kabat = 'ap$ [? $iyaxa = qa: xu'$ $cu'wit = `iq$] how=TEMP=PAST.INTERR.2sg known=CAUS [at=SUBOR.3sg DEM silver.salmon=ART] 'How did you know that the salmon was there?' (HW, Raven and his Beak)
	b.	NUUCHAHNULTH $\dot{n}a\check{c}u?al?a\lambda we?in$ $\dot{h}a'k^{w}a'\lambda?i$ [?ayaqa $\check{s}i'\lambda uk$] $\dot{n}a\check{c}-(y)u?al='a\lambda = we?in$ $\dot{h}a'k^{w}a'\lambda = ?i'$ [?aya = qa' $\check{s}i\lambda - uk$] see-perceive.PERF=TEMP=QUOT girl=ART [many=SUBOR move-DUR]
		'The girl saw that many were moving (changing residence)' (NT 62.3)
	c.	wa'?a λ we?in[?aniči'či λ ?a'q λ qaćistu'puk?i]wa' = 'a λ = we'?in[?aniči'-či λ = ?a:q λ = qa'ćis-(š)tu'p = uk = ?i']say=TEMP=QUOT[SUBORpull-PERF=INTENT=SUBORstrung.out-thing=POSS=ART]
		'He told him that he would pull on the rope.' (NT 64.1-2)
	d.	$\begin{array}{ll} \dots kamatsa\dot{p}a\lambda & [?u\dot{h}ukqa & \dot{t}a't\dot{n}a]\\ kamat-sa'p=`a\lambda & [?u\dot{h}=uk=qa' & \dot{t}a\dot{n}a-[L]]\\ known-CAUS.PERF=TEMP & [so.and.so=POSS=SUBOR & child-] \end{array}$
		'She knew that it was her own children.' (NT 54.34)
Su	bor	dinate-mood clauses are frequently used as adverbial clauses with a causal sense.
(381)	_	MAKAH $\dot{f}_{int} = 2 - \dot{f}_{int} + 2 $

,				
a	tiqp?aλ	ћu [,] kšu [,] d	[kabaťapqa	ha?uk ^w e'?isqa
	\dot{tiq}^w –pa \hbar = 'a \hbar	λu [,] kšu [,] da	[kabat = ap = qa:	ha?uk–'e:?is=qa:
	sit-in.house.PERF=TEMP	raven	[known=CAUS=SUBOR.3sg	eat-going.to=SUBOR.3sg
?akwati'd	?u?u [,] ks	cu'wit]		
------------	----------------------	----------------		
?akwati:da	?u−'i′ks	cu'wit]		
eagle	so.and.so-consume	silver.salmon]		

'Raven sat down because he knew that Eagle was going to eat silver salmon.' (HW, Raven and his Beak)

NUUCHAHNULTH

b. $haya^{?}2aka\lambda si$ $wa^{'}qhu^{'}si$ $wa^{'}$ $haya^{'}-?ak^{w}= 'a\lambda = si'$ $wa^{'}-qh = (w)u^{'}s = (y)i^{'}si$ $wa^{'}$ not.know-DUR-TEMP-1sg say-while-DUB-INDEF say

[wiki pqinha?um][wik-i:p=qar=nha?um][not-obtain.PERF=SUBOR=1pl]fish]

'I did not know what he meant by what he said, because we had not got any fish.' (NT 180.16-17)

c.	tu'ḥši?aħsi	[?anis	hut?atatqas]
	$tuh-\check{s}i\lambda=\check{a}\lambda=si$	[2ani = s]	hut?atu = 'at = qa' = s]
	afraid–PERF=TEMP=1sg	[SUBOR=1sg	jealous=PINV=SUBOR=1sg]

'I was afraid because someone was jealous of me.' (NT 164.1)

Subordinate clauses in Makah can also be used as temporal adverbial clauses denoting situa-

tions coincident with the action of the main clause. In this use it is accompanied by *?uyu* 'when'.

(382)	MAKAH		
	tiči'qa	<i>?uy</i>	Harold
	$ti\check{c}-i\dot{r}=qar$?u-yu	Harold
	alive-APPEN=SUBOR.3sg	so.and.so-at.X.time	Harold

 $\dot{\tilde{c}}arttupir{}^{4}a\lambda s \qquad \dot{\tilde{c}}arttupir{}^{4} \\ \dot{\tilde{c}}at-(k)turp-(k^{w})ir{}^{4} [L+S] = a\lambda = s \\ paint-thing-make=TEMP=INDIC.1sg \qquad paint-thing-make$

'When Harold was alive, I dyed straw, dyed straw.' (II, Dye on Face)

Makah has a quotative subordinate formation $= x \dot{c} a$.

(383) MAKAH $\hat{\lambda}aca'x\dot{c}a$ $bi'la'\dot{c}$ $ha?u\dot{k}^wa\dot{\lambda}itqey$ $\hat{\lambda}ac-a'=x\dot{c}a:$ $bi'la'\dot{c}$ $ha?uk='a\lambda='it=qeyu$ fat-APPEN=QUOT.SUBOR.3sg skate eat=TEMP=PINV=COND.3sg

'(Raven wanted Skate) because he heard Skate was fat when eaten.' (HW, Raven and Skate)

There is an alternate form of the Subordinate clitic in Nuuchahnulth, =h. This has been observed in examples with second person and third person subjects. This alternate is followed by Set 2a pronominal subject clitics, hence one finds $=h=su\cdot k$ 'that, because you (sg.)' for second singular. It is not yet known in what circumstances =h is chosen over the regular Subordinate clitic.

- (384)
- NUUCHAHNULTH a. ...?anik ha?uksaphsuk ni'wa ha?um?ak?itqak?ani=k ha?uk-sa'p=h=su'k ni'wa ha?um=?ak=?i'tqa=kSUBOR=2sg eat-CAUS.PERF=SUBOR=2sg 1pl food=POSS=DEF=2sg
 - "... for you have given us your food to eat." (NA 332.17-18)

b.	či•qaka•nitwe?in	kiłanu's	?u [.] ktaqat
	$\check{c}i'q-ak^w = at = (m)it = we'?in$	kiłanu:s	$2u - (\underline{\check{s}})taqa = at$
	inflict.harm-DUR=PINV=PAST=QUOT	furseal	so.and.so-punish.for=PINV

?anič	?ayasu [.] mitḥwe?in	qaḥsa'p	qu'?as
7ani = č	aya-su:p=(m)it=h=we?in	qaḥ–sa'p	qu'?as
SUBOR= QUOT	many-die.CAUS.PERF=PAST=SUBOR=QUOT	dead-CAUS.PERF	person

yašmaqýiha... yašma-q-ýi ha hunt.furseal-BFR-die.of

'They say that they did harm to the fur seals because they killed many people in sealing.' (NA 25.31-32)

As (384)b shows, the =h Subordinate may co-occur with the Quotative. It also co-occurs

with the dubitative formative =(w)u (§7.2.3):

(385) NUUCHAHNULTH

	uk ^w i λ−nuk='i∙ ←at.hand=IMPER.2sg	pu'	<i>wikirtapi</i> <i>wikirt='ap='i</i> not.exist=CAUS=IM		?u'nu'λ ?u–a'nu:λ so.and.so–because.of
Panik Pani=k SUBOR=2sg	<i>itkhin?atushsul itk-hin = 'at = (</i> jerk-deprive.of.PER	w)u:s		<i>kapši?</i> <i>kap–ši</i> rob–PER	$\hat{\lambda} = at$

'Don't have guns in your hands; see that there are none, because they might jerk them away.' (NA 447.6-7)

7.2.8 Inferential (Makah)

The Inferential indicates statements made based on inference or supposition.

(386) $we?iča\lambda xa \cdot s$ $we?ič = 'a\lambda = xa \cdot s$ eat-PERF=TEMP=INFER.3sg

'I guess he/she/it is sleeping.'

The Inferential also has a special past form: $=xu\dot{c}a?a$...š:

(387) dabarłxuča?arłš dabarł=xuča?arłš have.party=PAST.INFER.3pl
'I guess they were having a party.'

Jacobsen (1973: 19) records that the regular past tense clitic =(b)it may precede the non-past inferential shown in (386). The semantic difference between this and the past inferential in (387), if any, is unknown.

7.2.9 Inferential I (Nuuchahnulth)

The Inferential I mood is to be compared to the other two Nuuchahnulth non-quotative evidential moods below, the Inferential II (§7.2.17) and the Dubitative (§7.2.18). The first Inferential does not question the actuality of the event itself as strongly as the Dubitative, but often denotes that some aspect of it (cause, duration, etc.) has been inferred by the speaker rather than being definitely known. In (388)a, for example, it is not the sleeping that is in doubt, but its duration. In (388)b, it simply indicates that the event has been learned about after the fact through its effects, rather than being witnessed directly.

(388)	a.	qi'?aħitčasiš	we?ič	wa'?aħ	k ^w atya [,] t
		$qir = a\lambda = (m)it = \check{c}arsi\check{s}$	we?ič	$wa' = a\lambda$	k ^w atya [,] t
		long.time=TEMP=PAST=INFERI.1sg	sleep	say=TEMP	Kwatyat
		"Evidently I have been a long ti	me sleep	ing," said Kv	watyat.' (NT 40.24)

b.	hi'y	λuyačiλčasu'š	wa'?aħaḥ	ciqšiλ
	hi'y	λuł−'ačiλ=čarsu:š	$wa' = a\lambda = (m)a' = ah$	ciq—šiλ
	DISC	good-INCEP=INFERI.2pl	say=TEMP=INDIC=1sg	speak-PERF
	ʻʻAh,	" I said, "I see you have	done something good"' (I	NT 198.25)

7.2.10 Mirative (Makah)

Jacobsen (1973: 19) describes the function of this mood, which he calls the "realizational", as "indicating that the speaker has only belatedly perceived, learned, or realized a fact ...". It also seems that the fact is generally surprising or unexpected in some way, which makes this mood a marker of mirativity, as this is described by DeLancey (1997).

(389) 2uxur 2arškub Arly. 2ux-ur = arskub Arly so.and.so-APPEN=MIR.3sg Arly 'Oh! It's Arly!' (KH)

7.2.11 Conditional

Clauses in the Conditional mood have several uses.

- a) Protasis (condition or 'if' clause) of a conditional sentence:
- (390) макан

[wiki:qeysi's $\check{c}akya'$] $k^{w}i\check{s}k^{w}i\check{s}i'wi\lambda o'wiss$ [wik-i'=qey=si:s $\check{c}a-k-ya'$] $k^{w}i\check{s}k^{w}i\check{s}i:-i:wi\lambda = (o:)wis = s$ [not-APPEN=COND=2sg/1sgwater-INCR-give.PERF]bluejay-INCEP=DUB=INDIC.1sg

'If you don't give me water, I might turn into a bluejay.' (MP, Qweti and his Mother)

(391) NUUCHAHNULTH

[wi'sik ^w a'ł?aĥatqu'	q ^w aṁa'	?athi']
$[wi-si:k^w-'a:t]$ [IterL] = ' $a\lambda$ = ' at = qu:	q ^w aṁa'	?athi']
[incomplete-do-ITER=TEMP=PINV=COND	as.many.as	night]

 $Pu'ssila\lambda at...$ $Pu's-sila = 'a\lambda = 'at...$ sth-happen.PERF=TEMP=PINV

'If one does not carry things out to completion every night, something bad happens to one.' (NT 110.16)

The protasis is often reinforced by *?uyi* 'if, when' (lit. 'at such and such a time') in Nuuchahnulth.

(392) NUUCHAHNULTH a. [$2uya^{\lambda}au^{w}e^{2in}$ $\hat{\lambda}it^{2}ata^{\lambda}au^{v}$ [$2u-yi='a^{\lambda}=qu:=we^{2in}$ $\hat{\lambda}in-2atu='a^{\lambda}=qu:$ [so.and.so-at.X.time=TEMP=COND=QUOT stem.breaks.off-come.off.PERF=TEMP=COND $\dot{c}awa^{k}k$] $q^{w}a\dot{m}acsinyuk^{2}itq$ $\dot{p}iya\dot{c}i^{2}a^{\lambda}uk$ $\dot{c}awa-2ak^{w}$] $q^{w}a\dot{m}a'-(c)sinyuk$ [L] = 2itq $\dot{p}is-'a\dot{c}i^{\lambda}='a^{\lambda}=uk$ one-DUR] as.many.as-on.head=DEF bad-INCEP=TEMP=POSS

'It is said that if one (head of a shitlaa fern root) breaks off, then all its heads go bad.' (NA 23.29-30)

b. qaḥsapʔaqʾàḥ surtit [ʔuyi qaḥ-sap = ʔaːqʾà = (m)ar = aḥ sut-(č)it [L] [ʔu-yi dead-CAUS.PERF=INTENT=INDIC=1sg 2sg-do.to [so.and.so-at.X.time
wiwišʔaqʾà qurk huryart] wiš- 'aqà = qur = k huryart] lazy-inside=COND=2sg dance]
'I shall kill you if you are too lazy to dance.' (NT 126.22-23)

This construction needs to be checked further in Makah.

The conjunctive particle M, N ?at 'even if, sure enough; even he, they' often reinforces a

Conditional concessive.

(393) макан

ya'ksu'qħs	[?atqeys	ča'bať]
$ya' - (k)su'q\lambda = s$	[?at = qey = s	ča'baťa]
sore-in.mind=INDIC.1sg	[though=COND=1sg	rich]

'I'm sad even though I'm rich.'

(394) NUUCHAHNULTH

a. $cumarmaq\check{s}i\lambda uk^{w}ikqas$ $cumar-maq\check{s}i\lambda = uk = (y)ik = qar = s$ full-constantly=POSS=IRR.FUT=SUBOR=1sg wealthy-collectivity.of [?atqurs [?at-qurs] [?at-qurs] [though=COND=1sg]

hirtak^wa?ap] *hita-k*^wa?ap-[L+S]] empty.root-spent.CAUS.PERF-GRAD]

'May my place always be full of wealth even though I am spending it.' (NA 48.24)

b.	čuḥi'čiħ	?ink?i'	[?atqu'	?i'ḥ?aħ	ťi'cqa']
	čuḥ–iːčiħ	?ink ^w =?ir	[?at = qu:	?i∙ḥ ^w = 'aħ	ťi'cq–(y)a']
	extinguished-INCEP	fire=ART	[though=COND	big=TEMP	flame-CONT]

'The fire went out even though it had been flaming fiercely.' (NT 100.5-6)

b) Counterfactuality

(395) NUUCHAHNULTH

wa'?aħwe?in	k ^w atya't	?aqisqu [,] s	naču?ał
wa'= 'aħ=we'?in	k ^w atya't	2aqi-s = quz = s	nač−(y)u?ał
say=TEMP=QUOT	Kwatyat	what-do=COND=1sg	see-perceive.PERF

'Kwatyat said, "How could I have seen him?"" (NT 30.10)

- c) Habitual action or situation
- (396) макан

hix ^w ałc?akalic	wa'?aħqey
$hix^{w}a^{t}c^{2}ak^{w}=a^{t}\lambda=ic$	$wa' = a\lambda = qeyu$
crazy=TEMP=INDIC.2sg	say=TEMP=COND.3sg

"You're crazy!" he would (always) say.' (II, ANA)

(397) NUUCHAHNULTH

 $\dot{c}a\dot{c}a\dot{h}\dot{w}aq\lambda i\dot{t}^{2}a\lambda ukqu s$ [R] $-\dot{c}a\dot{h}\dot{w}a-\dot{a}q\lambda-\dot{i}\dot{t}=\dot{a}\lambda=uk=qu =s$ PL-litter-inside-in.house=TEMP=POSS=COND=1sg DEM bed=POSS=DEF=1sg

λ̃i[•]caʔuk λ̃i[•]caʔuk mouse

'I used to have mice with litters here under my bed.' (NA 76.1-2)

d) Conditional-mood clauses also function as the complements of certain predicates, especially

irrealis complements.

(398) макан

a. $wi'da\check{c}s$ [wiki'qey $\hat{\lambda}ulu'wi\hat{\lambda}$] $wi'da\check{c}=s$ [wik-i'=qeyu $\hat{\lambda}ul-u:wi\hat{\lambda}$] afraid=INDIC.1sg [not-APPEN=COND.3sg good-INCEP]

'I am afraid she will not get well.' (HI, Bible)

b.	yubułqarł	[?a'di'daxqeyuł	ti	?iyax]
	yubut = qat = at	[?a'di'dax = qeyu = at	ti	?iyaxa]
	unable=SUBOR.3sg=3pl	[just=COND.3sg=3pl	DEM	at]

'(I thought) they can't just be here (they must be here for a purpose).' (II, ANA)

(399)

NUUCHAHNULTH a. $iapatši?a\lambda we?in$ $ha'k^wa'\lambda?i$ $[wałši?a\lambda qu']$ $iapat-ši\lambda = 'a\lambda = we'?in$ $ha'k^wa'\lambda = ?i'$ $[wal-ši\lambda = 'a\lambda = qu']$ think-PERF=TEMP=QUOT girl=ART [go.home-PERF=TEMP=COND]

'The girl decided to go home.' (NT 72.13)

- b. $wi\dot{m}a'q\lambda ma$ $ti'\dot{c}qu'...$ $wi\dot{m}a'q\lambda = ma'$ $ti'\dot{c} = qu:$ unable.to=INDIC alive=COND 'He could not live.' (NA 396.10)
- e) In Makah, the Conditional also has an optative use in conjunction with the habitual post-

modal clitic = a:k:

- (400) макан
 - a. $\check{c}abu i qeysi'k$ ha?uk $\check{c}abu i = qey = si: = a:k$ ha?uk able=COND=1sg=HAB eat 'I wish I could eat.'
 - b. $dupxta^{?}akqeysi^{k}k$ $duptxa^{*} = ?ak^{w} = qey = si^{*} = a^{k}k$ die.instantly.upon.being.struck=POSS=COND=1sg=HAB

'May mine (my prey) die instantly upon being struck!' (said in a ritual prayer)

Jacobsen (1973: 11) notes a related formation he calls the "counterfactual", which involves the Conditional plus the formative -*ča:*, as in $\lambda icux^w adi qey \acute{c}a sik$ 'I wish I were an Indian'. Speakers I checked with recognized the form, but felt it was archaic and suggested the simple Conditional instead: $\lambda icux^w adi qeysik$. This may be a result of attrition of more recondite forms in a language death situation. (In Nuuchahnulth, wishes have been observed in the Subordinate mood with the irrealis future clitic N = (y)ik: kimsši?atikqas 'may I be bitten, i.e. let my bait be taken!' at NT 108.8 kimsši λ 'bite on bait'; see also (394)a.)

 f) The Conditional may also be used as an indefinite or non-specific article in RPs, replacing the regular article clitic: (401) макан

a.

<i>?usubas</i>	₹a?a'šqey
2u - suba = s	<i>ła?a</i> ∙š = qeyu
so.and.so-need=INDIC.1sg	bag=COND.3sg

'I need a bag.' (HI, Qweti and Canoe-Swallower')

	NUUCHAHNULTH		
b.	?unˈaːhši?aħči	Ќи₽а'?aqu'	muksýi
	$2u - na'h - si\lambda = a\lambda = ci$	$\hat{\lambda}uq$ –'a' $\hat{i}a = qui$	<i>muksý</i> i
	so.and.so-look.for-PERF=TEMP=GoIMPER.2sg	broad-on.rocks=COND	stone
	'Go find a broad stone!' (NT 94.14-15)		

The Conditional may co-occur with the Quotative mood clitic in Nuuchahnulth. Normally,

the Conditional precedes the Quotative:

(402)	NUUCHAHNULTH		
	?aħqimłaṗał?aħqu'we?in	qičinmit	₽a∙tuš
	$a\lambda - qim i - a' pai = a\lambda = qu' = we' in$	qičin–m≀i t	₽a'tuš
	two-X.many.round.objects-on.back=TEMP=COND=QUOT	louse-son.of	deer

hitaḥtas hita-ḥt-`as empty.root-move.out.of.woods.PERF-on.ground

'Louse would always bring two deer out of the woods on his back.' (NT 84.35-36)

In Nuuchahnulth, Conditional clauses that are part of a sentence with multiple mood-marked clauses can be marked as hearsay by the quotative formative $= \check{c}$. For example, the sentence in (403) is a conditional sentence with two finite clauses, an if-clause (the protasis) and a thenclause (the apodosis). The protasis *sipturp ?uqħnuk̄^wațatqurč* 'if one is holding a stick' has the Conditional clitic in combination with $=\check{c}$.

(403)	NUUCHAHNULTH ?u [*] ?utýakhwe?in ?u–itýak [LR+S]=h=we [*] ?in so.and.so–fear=SUBOR=QUOT	<i>tu'ḥuk tuḥ–uk</i> afraid–DUR		[<i>siptu[.]p</i> [<i>sim–</i> (š) <i>tu[.]p</i> [pole–thing
	$\mathcal{P}uq\lambda \dot{n}uk^{w}a\lambda \dot{a}tqu^{*}\check{c}$] $\mathcal{P}u-\dot{a}q\lambda - \dot{n}uk = \dot{a}\lambda = \dot{a}t = qu^{*}=\check{c}$] so.and.so-inside-at.hand=TEMP=PINV=COND=QUOT]			

"... for it is said ghosts are afraid if one is holding a stick." (NT 184.32)

7.2.12 Relative (Makah)

The Relative mood forms relative clauses (i.e. root RPs, §4.5.2).

(404)	a.	$da\check{c}$? o { $its}$ $da\check{c}$ - u ? a { i = (b) it = s see-perceive.PERF=PAST=	INDIC.1sg		(b)it = (q)i PPEN=PAST=REL.3sg	waha'k waha'k ^w go–PERF
		'I saw (the one) who we	ent'			
	b.	$\begin{aligned} &?apta'?\\ ?apt-(y)a' = `i\\ &hidden-CONT=INDIC.3sg \end{aligned}$?učiqs ?u–či–q so.and.so	s –at–in.vessel	Čapačiq Čapac = `iq canoe=ART	
		yaqtibit yaq-ti:p = (b)it that.which-do.to=PAST=R	В	· · · · · · · · · · · · · · · · · · ·	∉ ') <i>i:</i> # [L+S] so−make	
		'He is hiding in the can	oe that Bi	ll made.'		

-

In its capacity as a quasi-indefinite article (§7.2.11), the Conditional mood frequently appears

in relative clauses in which the identity of the referent is unknown or inferred by the speaker (cf.

the Nuuchahnulth Indefinite Relative, §7.2.14).

(405)	hiqs?aħpi [.] d	ġidi'ličiq
	$hi - qs - i\lambda = 'a\lambda = pi:t = `i$	ġidi'λ=°ič=°iq
	head.located-in.vessel-PERF=TEMP=INFER=INDIC.1sg	dog=DIM=ART

yałčiqsiħqey	wa'q́idiq
$yat - \check{c}i - qs - i\hat{\lambda} = qeyu$	wa'qit=°iq
where-at-in.vessel-PERF=COND.3sg	frog=ART

'The little dog must have stuck his head in the container into which the frog had gone.' (RC, Frog Story)

7.2.13 Definite Relative (Nuuchahnulth)

The Definite Relative forms relative clauses in which the identity or fact of existence of the referent is known or presupposed by both speaker and addressee, either from previous discourse or world knowledge (cf. the Indefinite Relative, §7.2.14).

(406)	<i></i> int?ataλ	₽i∙ḥaksaqḥ	 łaqsanap
	<i>int−?atu=`aλ</i>	<i>₽iḥ−ak^w−sa</i> [L+S]− <i>qḥ</i>	łaq ^w −sańap
	snot-come.off.PERF=TEMP	cry–DUR–just–while	soft.mass-on.beach.CAUS.PERF

łu [,] csme?i	₽intmis?i	[yaq?atu?itq
łu'csma = ?i'	₽int−mis=?i	$[yaq^w - ?atu = ?i'tq$
woman=ART	snot-collectivity.of=ART	[that.which-come.off.PERF=DEF

2int?atu] *2int-?atu*] snot-come.off.PERF]

'The woman blew her nose while she was crying and threw the mucus that had come out down on the beach.' (NT 90.7-8)

The referent of the relative clause in (406), yaq?atu?itq '(the nasal mucus) that had come down',

is implied by $2int2ata\lambda$ 'blew her nose' (lit. 'had nasal mucus come off') and therefore known to exist.

(407)	ćix ^w atwi'?is	?ukŧa·?akni	
	ċix ^w at–wi:?is	$2u-(\check{c})a = 2ak = ni$	
	eagle-in.bow	so.and.so-have.as.name=POSS=1pl	
	[yaq ^w i'qqathqin]		
	$[yaq^{w} - (y)i:q - qa'th = qa' = n]$		
	[that.which-travel.in-pretendedly=DEF=1pl]		
	'Our imaginary	canoe was called Eagle-Bow.' (NA 81.5)	

The fact that the speaker's club in (407) has an imaginary canoe is established by the preceding sentence in the text: 'They refer to them as "thus many in a crew" because the clubs are pretendedly in canoes'.

A Definite Relative clitic hosted by a verbal predicate with a non-relative root forms a tempo-

ral adverbial clause:

(408)	ma'kuk ^w a <u>ḥ</u>	<i>ṗinŵa</i> ł	[λuˈkʷatqṅaḥaħqas]		
	$mak^{w}-uk=(m)a'=ah$	<i>ṗinŵa</i> ł	$[\lambda u k^{w} a t - q - \dot{n} a \dot{h} i [L] = a \lambda = q a = s]$		
	buy-DUR=INDIC=1sg	whaling.canoe	[give.Wolf.Ritual-BFR-ready.to=TEMP=DEF=1sg]		
	'When about to give the	ne Wolf Ritual, I bought a whaling canoe.' (NA 57.1)			

7.2.14 Indefinite Relative (Nuuchahnulth)

This mood forms relative clauses in which the referent or the referent's identity is new or uniden-

(409)	?uḥma'	yaqi'	?ukŧa'	hi'k ^w is		
	2uh = mar	$yaq^{w} = (y)i$?u−(č)ła′	hi'k ^w is		
	so.and.so=INDIC	that.which=INDEF	so.and.so-have.as.name	Hikwis		
	'It is the place they call Hikwis.' (NA 409.4)					

The speaker is pointing out landmarks to his nephew who has been away for many years as a slave among the Quinaults. Several sentences earlier we are explicitly told of the nephew's ignorance of the area: 'He [the addressee of (409)] did not know where they were going as they returned home, because he had become a slave when he was still small.'

Although the subject of the relative clause in (410) is grammatically first person, the possessive clitic signals that the subject is the possessor of the S argument (§7.3.4), the grandfather, who is thus the referent whose status is at issue. This is the first mention of him in the text and the relative clause occurs with the Indefinite Relative.

(410)	?uḥita ?uḥ=(m)it	=a	?irḥ ?irh ^w	?u [.] štaqyu ?u [.] š–(<u>š</u>)taqyu	$yaquk^{w}itis$ $yaq^{w}=uk=(m)it=(y)is=s$
	so.and.so=PAS		big	sth-having.power.from	one.who=POSS=PAST=INDEF=1sg
	nani [,] qsu na'ýaqu nani'qsu naýaq- grandparent baby-ma		(č)i:t–n	1a7uk [L]	

'My former grandfather was a great maternity doctor.' (NT 190.4-5)

The identity of the referent in (411) is unidentifiable to both speaker and addressee because

the event referred to has not yet occurred.

(411) $hayuqumyii haq\lambda e ic$ $hayu-qimi - iih [L] = 2a;q\lambda = (m)a = 2ic$ ten-X.many.round.objects-earn=INTENT=INDIC=2sg men-PL.VOC

yaq?a'qħi'k	hini'swaḥsuł	pacsa'kum?i
$yaq^{w} = ?a:q\lambda = (y)i:=k$	hin–i:s–waḥsu(ɬ)	pacsa'kum = ?i'
one.who=INTENT=INDEF=2sg	empty.root-carry-go.out.PERF	potlatch.handle=ART

yaqi'k	našuk
$yaq^{w} = (y)iz = k$	naš–uk
one.who=INDEF=2sg	strong-DUR

'You men, whichever strong one among you brings the potlatch handle out (of the crowd) will win ten dollars.' (NA 57.34-35)

It is important to emphasize that it need not be the referent of the relative clause that is new, but only its identity. In (412), the first person referent is obviously already a discourse participant, but his identity as a Kyuquot is emphasized by the Indefinite Relative.

qa'vu'k^wath (412)?u'špałaħah vaqi's qa'ýu'k^wath $2u'\check{s}-\dot{p}a\dot{t}-(v)a'=a\lambda=(m)a'=ah$ $yaq^{w} = (y)iz = s$ sth-look.on.admiringly-CONT=TEMP=INDIC=1sg one.who=INDEF=1sg Kyuquot 'I who am a Kyuquot look on admiringly.' (NT 174.13)

The Indefinite Relative frequently occurs with the dubitative formative =(w)u:s to form various types of irrealis relative clauses. The vowel of the Indefinite appears short instead of long in this construction, which undoubtedly indicates some degree of grammaticalization in the combination of these formatives, though I do not find it necessary to consider it an entirely separate mood as Sapir & Swadesh (1939: 242) do.

- a) The dubitative Indefinite Relative is used in indirect questions after predicates expressing lack of knowledge or understanding:
- (413) a. hava'?akat q^wiýi hawu si $q^{w}i-\dot{v}i$ ha=(w)u is =(v)i: $haya' - ?ak^w = `at$ not.know-DUR=PINV whatever-die.of.PERF=DUB=INDEF 'It was not known what he died of.' (NT 14.3-4)
 - q^wa'wu'si b. hayimhi'čiλ ti'č... hayimhi–i:čiλ $q^{w}a' = (w)us = (y)i$: $ti'\check{c}$ not.know-INCEP whether=DUB=INDEF alive

many-X.many.times-PERF=QUOT Kwatyat

'He did not know whether he was alive.' (NT 102.21-22)

b) It can be used in indirect questions with the verb *?a?artur* 'ask (a question)', a root that naturally implies lack of knowledge on the part of its subject (the questioner):

(414)	a.	?a?a [,] tu [,] ?atwe?in ?a?a [,] tu:= 'at=we'?in ask=PINV=QUOT	$q^{w}a'wu'si$ $q^{w}a' = (w)u's = (y)i$ whether=DUB=INDEF	wikýu : wik–ýu not–havinged	naču?ał nač–(y)u?ał see–perceive.PERF
		'He was asked whether h	he had not yet seen him.' (NT 30.9)		
	b.	?ayupໍitšiλwe?in ?aya–pํit–šiλ–we'?in	~	a?artur yaqukurs a?artu: yaq ^w =u	

ask

one.who=POSS=DUB=INDEF

nuwi'qsu
nuwi'qsu
father
'Many times did Kwatyat ask them who their father was.' (NT 40.3-4)

- c) It can also be used in any general relative clause expressing doubt, uncertainty, or lack of knowledge.
- (415) ... wa ha khahi či $2a\lambda$ hi łu si ma 2as 2i 2i š su 2i łwaha kw – na hi [L]– $i: či\lambda = a\lambda$ hi łu si ma 2as 2i 2i š su 2i łgo-ready.to–INCEP=TEMP where=DUB=INDEF dwelling Pitch. Woman

'He made ready to go where Pitch Woman might be living.' (NT 92.12)

See Rose (1981: 226-29) for a more detailed account of the Indefinite in Kyuquot dialect, where its functions have expanded somewhat so that it appears as a general indefinite mood in non-relative as well as relative clauses.

7.2.15 Content and Polar Interrogatives (Makah)

Makah has a mood for forming content questions and another for polar ('yes/no') questions.¹⁰⁴ The Content Interrogative attaches to an interrogative word like *?ačaq* 'who' or *warsa* 'where', which functions as predicate head. The word may be underived, consisting of an interrogative root alone (all the interrogative roots are free roots) (416), or derived, consisting of the interrogative root plus lexical suffixes (417).

- (416) a. $2a\check{c}aqarid dudurk$ $2a\check{c}aq = (q)arid dudurk$ who=CONTENT.3sg sing 'Who is singing?'
 - b. *wa*'saqikdu *wa*'sa=(q)ik=du: where=CONTENT=1pl

'Where are we?'

c. baqiqart ti' baqiq = (q)art ti' what=CONTENT.3sg DEM 'What is this?'

- d. wa'scu'watuk^wi'k čata'yak wa'scu'wat = uk = (q)i:k čat-a'-yak^w which=POSS=CONTENT write-EPEN-thing.for
 'Which pencil is yours?'
- (417) a. a'ya'čaquqtaqa'ti'tačaq-<a'y> [L]-(q)uqta=(q)at=itwho-<PL>-have.as.name=CONTENT.3sg=3pl

'What are their names?' (KH)

b. *ba·qićake*?*isa*λ*i·k baqi–ćak* [L+S]–*'e:*?*is* = 'aλ = (q)*i*:*k* what–cook–going.to=TEMP=CONTENT

'What are you going to cook?'

c. wa's?atxa' wa'sa-'atx = (q)at where-residing=CONTENT.3sg
'Where does he live?'

The Polar Interrogative attaches to the first word of a predicate that does not contain an interroga-

tive root to form a yes/no question.

- (418) a. *?ardiqark kabatsarp ?ardi*=(*q*)*a:k katat-sa:p* in.fact=POLAR known-CAUS.PERF 'Do you really know?'
 - b. $\lambda u t u' q a$ $\lambda u t - u' = (q) a$: good-APPEN=POLAR.3sg 'Is it good?

Both the Content and Polar Interrogatives have an irregular second person past tense form = 'u:k,

i.e. past interrogative second singular = $'u:k = \emptyset$, second plural = 'u:k = sa.

(419) $ba qix wa ta \lambda u k$ hita tup $baqi - xwa t [L+S] = 'a\lambda = 'u k$ hita - 'atu = upwhat-use=TEMP=PAST.INTERR empty.root-come.off-CAUS.PERF

'What did you use to get it (the dye) off?' (IW, ANA)

7.2.16 Interrogative (Nuuchahnulth)

The Interrogative mood in Nuuchahnulth is used in forming both content questions and yes/no questions. In content questions it attaches to an interrogative functioning as predicate head. As in Makah, the interrogative may be underived (420) or derived (421).

(420)	a.	wa'sihaTomwa'?atsiwa'si=ha'Tomwa' = 'at = si'where=INTERRTomsay=PINV=1sg""Where is Tom?" he asked me.' (NT 144.27)
	b.	$\begin{array}{llllllllllllllllllllllllllllllllllll$
		'Who (of you) will go to Flow-Point?' (NA 395.18-19)
	c.	$?a \cdot qinhak$ $\dot{c}itx \dot{s}i\lambda$ $?a \cdot qin-ha' = k$ $\dot{c}itx - \dot{s}i\lambda$ why=INTERR=2sggo.to.one.side-PERF
		'Why do you turn to one side?' (NT 27.5)
(421)	a.	wa'scači?a λ ha wa's-ca-či λ = 'a λ = ha' where-go.to-PERF=TEMP=INTERR
		'Where has he gone?' (NA 448.38)
	b.	$2aqirs 2a \cdot q\lambda ha$ $ha^{2}uk$ $hir i$ $2aye 2i$ $qu' 2as$ $2aqi-irs = 2a:q\lambda = ha'$ $ha^{2}uk$ $hir i$ $2aya = 2i'$ $qu' 2as$ what-consume=INTENT=INTERReatthere.in.housemany=ARTperson
		'What are the many people here going to eat?' (NT 154.23-24)
	c.	$a \cdot qi \cdot sita 2i?athas$ $aqi - i \cdot s - i \cdot ta - q - i\lambda$ [L] = $at = ha \cdot s$ what-consume-one.who-BFR-invite.PERF=PINV=INTERR=1sg
		'With what am I to be feasted?' (NT 44.18) lit. 'What am I invited to be a consumer of?'
	d.	$a^2aqu'hak$ $a^2a'tušme't$ $aqi-wa$ [R] = $ha' = k$ $a'tuš-mi't$ what-say=INTERR=2sgdeer-son of VOC

'What did you say, Deer?' (NT 20.4-5)

e. ?anayu?ałithak
?ana-(y)u?ał=(m)it=har=k
how.many-perceive.PERF=PAST=INTERR=2sg
'How many have you seen?' (Swadesh 1933: 109)

When in a non-interrogative predicate, it indicates a yes/no question:

(422) a. $hi \cdot ninqanu ?a\lambda hin$ wa' $hina - na \cdot qi - nu\lambda - [L+S] = `a\lambda = ha' = n$ wa' empty.root-up.on.a.height-PERF-GRAD=TEMP=INTERR=1pl DISC 'Aren't we climbing up?' (NA 142.28)

> b. $na?a?a\lambda hasu'$ $na?a' = 'a\lambda = ha' = su:$ hear=TEMP=INTERR=2pl

> > 'Do you hear now?' (NT 180.33)

c.	?a'niḥak	λ̃iči?aλ	?u∙k ^w iŧ	kayu'min
	?a'ni-ḥa' = k	$\hat{\lambda}i-\check{c}i\lambda=\dot{a}\lambda$?u−(č)ił [L]	kayu min
	really-INTERR=2sg	shoot-PERF=TEMP	so.and.so-do.to	panther

'Have you really shot a panther?

d. wikha's heli'sčila λ ... wik=ha'=s ha-'i's-či λ = 'a λ not=INTERR=1sg completely-consume-PERF=TEMP 'Have I not eaten everything?' (NA 83.15)

Note that inclusion of the discourse particle wa^r (obviously related to the verb wa^r 'say, tell') indicates a positively biased question, i.e. a question expecting an affirmative answer (422)a. Negative bias can be indicated by the formative $= 2a^r$ following the Interrogative (Swadesh 1939: 83). Unfortunately, this construction is not attested in the corpus.

The Interrogative can co-occur with the quotative formative \check{c} :

(423)	wikha č	?ukŧa∙?aħ	ňuŵi	sa'ya'čapis
	$wik = ha' = \check{c}$ not=INTERR=QUOT	$iu - (\check{c})ia = ia\hat{\lambda}$ so.and.so-have.as.name-TEMP	<i>ňuŵi</i> father.POSS.2	<i>sa'ya'čapis</i> High.Above

'Don't they say your father is named High-Above?' (based on NA 63.13-14)

7.2.17 Inferential II (Nuuchahnulth)

The semantic differences between the Inferential I and II moods are as yet unclear. In (424) the Inferential II denotes discovery of the situation of the predicate. Evidential force arises from the fact that the occurrence of the event is discovered on the basis of later evidence.

(424) $\check{c}u$ $ha\check{c}aq\check{s}i\hat{r}a\hbar sa\hat{r}a\check{s}...$ $\check{c}u$ $ha-\check{c}u'-q-\check{s}i\hbar = `a\hbar = (c)sa^{-2}a\check{s}$ DISC completely-having...-ed-BFR-PERF=TEMP=INFERII.1sg 'Well, I seem to have completed (my ritual).' (NT 112.16)

However, the Inferential I clitic can also have this sense.

One formal difference between the two clitics is that the Inferential II is frequently accompanied by $q^{w}a^{r}$ (be) thus, so' (425) or the enclitic = qo: (which may be a reduction of $q^{w}a^{r}$, since these two never co-occur in this construction), while the Inferential I only rarely is.

(425)	a.	$hin?i?a\lambda \dot{c}a?aš$ $hin-i:?i\lambda-[L+S] = 'a\lambda = \dot{c}a'?aš$ empty.root-move.into.house.PERF-GRAD =T	$\begin{array}{c} q^{w}a'\\ q^{w}a'\\ \text{EMP=INFERII} & \text{thus} \end{array}$			
		$hi'sti?i?a\lambda$ $hist-i?i\lambda-[L+S] = 'a\lambda$ there-move.into.house.PERF-GRAD=TEMP	kuḥwanim?i kuḥ ^w -wana-im = ?i [,] opening-in.middle-thing=ART			
		'It turned out that they were entering by	the side entrance.' (NT 152.12)			
	b.	huptsa'pa λ atukwe?inča a ašqo' hupt-sa'p = 'a λ = 'at = uk = we'?in = hidden-CAUS.PERF=TEM=PINV=POSS=QUOT	$\lambda = at = uk = we$? $in = \dot{c}a$? $a\dot{s} = qo$?			
		'It seems that it had been hidden.' (NA	that it had been hidden.' (NA 405.22)			

The addition of $q^w a^r$ or $= qo^r$ focuses on the unexpectedness of the results and gives the Inferential II the flavor of a mirative (Delancey 1997). Note also the co-occurrence with the Quotative in (425)b.

7.2.18 Dubitative (Nuuchahnulth)

This mood (not to be confused with the dubitative formative =(w)u:s, §7.2.3) acknowledges the possibility of a non-future event or situation. Speculation about future events is made by =(w)u:s.

(426) a. na'csa'λqača hirł hawił?i $\dot{n}a$ 'csa = 'a λ = qa'ča hi ℓ -'i ℓ hawił=?i' see=TEMP=DUB there-in.house chief=ART 'I think the chief here (Tyee Bob) now sees it.' (NA 77.20-21) b. wa'?aλqu'we?in ťuk^wa ?ath ciqšiλ wi'naqača $wa' = a\lambda = qu' = we'?in \quad ciq - \check{s}i\lambda$ ťuk^wa'?ath wi'na = qa'ča say=TEMP=COND=QUOT speak-PERF war.party=DUB Tukwa hintšiλ hina–at–šiλ empty.root-arrive-PERF 'The Tukwa would say, "Perhaps a war party is coming." (NA 389.37-38) c. hahaqčimmitwe?inqača hinusa $hahaq\check{c}im = (m)it = we'?in = qa'\check{c}a \quad hina-\check{w}isa'$ slightly=PAST=QUOT=DUB empty.root-come.to.consciousness.PERF 'He must have revived a bit.' (NA 397.40)

The Dubitative co-occurs with the Quotative, which it follows (see also (426)c):

(427) $?a^{2}ayas\dot{c}a^{2}pu?a\lambda itwe?inqa\dot{c}a qu?as...$ $?aya-a^{3}\dot{c}a-a:pi$ [LR+S]- $u\lambda = a\lambda = (m)it = we?in = qa^{2}\dot{c}a qu?as$ many-on.roof-too-PERF=TEMP=PAST=QUOT=DUB person

'Evidently too many people got onto it (the roof).' (NA 170.28-29)

7.2.19 Assertive

The Assertive is essentially a conversational mood, which accounts for its infrequency in the Nuuchahnulth texts. Rose's (1981: 224, 225) description of this mood in Kyuquot dialect (where it is called the "indicative", see below) applies to its use in Tseshaht as well:

The indicative mood is used for statements of fact validated by experience, observation, general cultural knowledge, or wise authority ... It is also used to indicate that the *act* of assertion is as communicatively as important as its content. This can be because the sentence is an important announcement [or] a statement contrary to the listener's opinion ...

The Assertive occurs most commonly in the texts precisely where this description would lead us

to predict, in contexts like that of Text 44, in which Tom gives his grandson (Alex Thomas) ad-

vice about life:

(428) NUUCHAHNULTH ?ah?e?ik?ick hupi? $?a\lambda at...$?ah?a' = 'i:k = ?ick hupi' $?a\lambda at...$ hupi' = ' $a\lambda = 'at$ then=FUT=ASSER.2sg help=TEMP=PINV 'Then they will help you.' (NT 192.22)

Another example from direct address:

(429) NUUCHAHNULTH
 ?a'ni?icu'š čimčiλ
 ?a'ni = ?icu:š čama-čiλ
 truly=ASSER.2sg proper-PERF
 'You fellows certainly hit it lucky' (NA 140.25)

The Assertive is obligatory with the contrastive particle *?ata*:

(430) NUUCHAHNULTH ni' 2atasiš $hayuqum{ahu}?i{2a\lambda\lambda a'}$ ni' 2ata = si'š $hayu-qim{-ahu'(t)-'it} = 'a\lambda = \lambda a:$ DISC CNTR-ASSER.1sg ten-X.many.round.objects-in.front-in.house=TEMP=again

Ҳ้aḥiqs	xaxaškuk	λah?uyi
$\dot{\lambda}ah-(w)iqs$	xaš–kuk [R]	λah?uyi
flat–at.lid	bone-resemble	now

'See, in spite of that, I now again have before me ten boxes of biscuits.' (NA 87.12-13)

Rose (1981) and Nakayama (1997a) refer to this mood in Kyuquot and Ahousaht dialects as the "indicative" mood. Dialects north of Barkley Sound (which include Kyuquot and Ahousaht) do not have the $=(m)a^{r}$ Indicative mood described for Tseshaht in §7.2.4. The $= 2i^{r}s$ formative in these dialects has apparently been named "indicative" because both it and the Tseshaht Indicative are found predominately in conversation, but this analogy is misleading because, as both Rose (1981: 224) and Nakayama (1997a: 31) point out, $= 2i^{r}s$ is highly marked pragmatically even in these dialects and so is not strictly comparable to the Tseshaht Indicative, which is unmarked.

The Assertive occurs in Makah as well. It is not fully attested, but seems to involve $=i\breve{s}$ added to Indicative endings, thus first person singular $=si\breve{s}$, first person plural $=di\breve{s}$, third person singular, $=`i\breve{s}$, etc. Its semantic force seems to involve emphatic assertion:

- (431) MAKAH a. $qi^{2}a\lambda sis$ $ci^{2}qci^{2}q$ $qi^{2}=a\lambda s=is$ ciq-(y)a [RepR] long.time=TEMP=INDIC.1sg=ASSER speak-REP 'I've been speaking for such a long time.'
 - b. $\lambda u t u' ? i \tilde{s}$ $\lambda u t - u' = `i = i \tilde{s}$ good-APPEN=INDIC.3sg=ASSER 'It's so good!'

As in Nuuchahnulth, it occurs in Makah (after the Indicative) with the contrastive particle ?atu,

e.g. ?at?uciš 'but you (sg.) ...' (Jacobsen 1973: 18).

7.2.20 Imperative moods

Makah has two Imperative moods. The simple Imperative is shown in Table 20. (For morpho-

logical analysis of the forms see Jacobsen 1973: 19-20.)

Table 20. Makah Simple Imperative

	Non-subjects					
Subjects	(3sg)	3pl	1sg	1pl		
2sg	= 'i	= 'a:t	= ' <i>is</i>	= 'idiːcuːx		
2pl	$=$ ' $i\check{c}$		= 'isač	= 'ido:wacux		

(432) макан

a. bač?aλ ba-čiλ = 'aλ = 'i bite.down-PERF=TEMP=IMPER.2sg
'Bite her now!' (HI, Qweti and Basket-Woman) b. bak^wa'?a'pičke bak^w-'a'?a:p = 'ič = ke: buy-buy=IMPER.2pl=ADVISE
'You folks buy it!'

The clitic = ke: in (432)b follows imperative forms to lessen the force of a command to advice or polite suggestion.

First person hortatives are formed by preceding the second person acting on first person plural imperative clitics with the causative clitic = 'ap. For comparison, non-hortative imperatives with first plural object are shown in (433). Example (433)a shows a regular (non-hortative) second person singular acting on first person plural imperative; (433)b shows second person plural acting on first person plural:

- (433) MAKAH a. $\check{c}aq\check{s}?a\check{\lambda}idi^{*}cux$ $\check{c}aq-\check{s}i\lambda = `a\lambda = `idi:cux$ push-PERF=TEMP=IMPER.2sg/1pl 'Push us! (said to one person)'
 - b. čaqš?aλido wacux čaq-šiλ = 'aλ = 'ido:wacux push-perf=temp=imper.2pl/1pl

'Push us! (said to more than one person)'

Example (434) shows the above with the causative clitic, which takes the shape = 'up after the

temporal specifier. These are now first person hortatives:

(434) MAKAH
a. čaqš?aλ́?udi·cux čaq-šiλ = 'aλ = 'up = 'idi:cux push-PERF=TEMP=CAUS=IMPER.2sg/1pl
'Let's push it! (said to one person)'
b. čaqš?aλ́?udo·wacux

 $\check{c}aq - \check{s}i\lambda = 'a\lambda = 'ap = 'ido:wacux$ push-PERF=TEMP=CAUS=IMPER.2pl/1pl

'Let's push it! (said to more than one person)'

The phonological alternations producing these forms are regular but perhaps deserve spelling out.

The clitic sequence underlying (434)a is $= a\lambda = up = idi:cux$. Glottalization rules produce

= ' $a\lambda u^{2}idi^{\prime}cux$, where the temporal specifier has been glottalized, and the causative /p/ is dropped before the glottalizing imperative. Next, the resulting $/u^{2}i/$ sequence is dealt with by assimilating the second vowel to the first, which is then syncopated to produce the surface form: = ' $a\lambda^{2}udi^{\prime}cux$.

The second Makah imperative mood is a "directional" imperative ('go and ...!'), formed by $= \check{c}i$ preceding the Simple Imperative clitics:

(435) MAKAH $\dot{c}u\dot{c}utki\lambda\ddot{c}?i$ $\dot{c}u-tk^{w}$ [R+S] $-i\lambda = \check{c}i = i$ wash-at.hands-PERF=GoIMPER=IMPER.2sg 'Go wash your hands!'

There are four Imperative moods in Nuuchahnulth. Table 21 shows two, the Present Imperative and Future Imperative paradigms (Sapir & Swadesh 1939: 242). First person singular and plural objects have distinct forms. The columns marked "3 obj" are really just intransitive forms that also serve to mark third person objects.

	Present Imperative			-	Future Imperative		
	(3 obj)	1sg obj	1pl obj	(3 obj)	1sg obj	1pl obj	
2sg	= 'i'	= 'i's	= 'in	= ' <i>i</i> -m	= 'i's-im	= 'i'n-im	
2pl	= 'i'č	= 'i'čas	= 'i'čin	= 'i'č-im	= 'i'čas-im	= 'i'čan-im	
1pl	= 'in			= 'i'n-im			

Table 21. Nuuchahnulth Present and Future Imperative paradigms

The Present Imperative indicates the action in question is to be undertaken immediately.

(436)		NUUCHAHNULTH			
	a.	?ayayi?is	qa'ci'	ya'qsimčqas	ḥawe ɬ
		aya-ayi' = i's	qa'ci'	yaq^{w} -simč [L] = qar = s	<u></u> haŵił
		many-give.PERF=IMPER.2sg/1sg	give.gift	that.which-do.ritual.for=DEF=1sg	chief.voc
		'Present me with many of what I'm doing ritual for, O Chief!' (NA 48.28)			

- b. čaqwa's?apaλi
 čaq-wa's = 'ap = 'aλ = 'i'
 push-go.outside.PERF=CAUS=TEMP=IMPER..2sg
 'Shove it outside!' (NA 65.32-33)
- c. $\check{c}impi?a\check{\lambda}i\check{c}$ $\check{c}ama-pi\lambda = `a\lambda = `i'$ ready-in.house.PERF=TEMP=IMPER.2pl

'You folks get ready in the house!' (based on NT 176.8)

The first person plural subject (hortative) form is the same as the second singular on first per-

son plural form, so

(437) NUUCHAHNULTH wikin $\hat{\chi}i\check{c}i\lambda$ wik='in $\hat{\chi}i-\check{c}i\lambda$ not=IMPER.2sg/1pl shoot-PERF =IMPER.1pl

could theoretically mean 'Don't shoot us' or 'Let's not shoot him/her/it/them'. Its hortative use can be directed at either a single addressee ('Let's (the two of us) do such and such') or at more than one addressee ('Let's (the bunch of us) do such and such'). Not indicated on the table is the fact that the second plural on first plural form (= '*i*'č*in*) can also be used as a hortative specifically directed at more than one addressee, e.g. *wikirčin* $\lambda i c i \lambda$ 'Let's (the bunch of us) not shoot him/her/it/them' (also, of course, 'Don't you folks shoot us').

(438) NUUCHAHNULTH wiki'čin $\hat{\lambda}i\check{c}i\hat{\lambda}$ $wik = 'i'\check{c}in$ $\hat{\lambda}i-\check{c}i\hat{\lambda}$ not=IMPER.2pl/1pl shoot-PERF =IMPER.1pl

The Future Imperative, formed by adding *-im* to the Present Imperative, indicates that the action need not be undertaken immediately, but may be performed at some future time.

(439)		NUUCHAHNULTH	
	a.	čarnar [*] ličim	?inksýiqnitši?aħ
		$\check{c}a$ ' ni = ' a $\hat{\lambda}$ = ' i ' $\check{c}im$	$ink^{w}-s\dot{y}i-q-nit-\check{s}i\lambda = a\lambda$
		for.a.while=TEMP=FUT.IMPER.2pl	fire-medicine.for-BFR-stocked.with-PERF=TEMP

?aḿi'λik?i... ?aḿi'λik=?i' tomorrow=ART

'Spend a while tomorrow getting stocked up with firewood.' (NA 235.31)

b.	$?ah?a'?a\lambda$ im $?ah?a' = 'a\lambda = 'im$ then-TEMP-FUT.IMPER.2sg	$hinatši?a\lambda$ $hin-at-ši\lambda = 'a\lambda$ empty.root-arrive-PERF-TEMP

hasirkirkqurk $ha-sirk^w = irk = qur = k$ completely-do-FUT=COND=2sg PL-buy-place.for=ART

'Then come here when you have finished (searching) the stores.' (NT 146.21-22)

Nuuchahnulth also has directional imperatives that mean 'come and ...!' or 'go and ...!'.

These are laid out in Table 22 (Sapir & Swadesh 1939: 243).

	'Come' Imperative			'Go	Imperativ	ve
	(3 obj)	1sg obj	1pl obj	(3 obj)	1sg obj	1pl obj
2sg	=' i '- k	='i's-ak	= 'i'n-ak	=či [,]		
2pl	= 'i'č-ak	= 'i'čas-ak	= 'i'čin-k	$= \check{c}a$ 'su:,		
1pl	= 'i•n-ak			= csut		

Table 22. Nuuchahnulth Directional Imperative paradigms

(440) NUUCHAHNULTH

'Come' Imperative
a. ha?uk^wik
ha?uk = 'i'k
eat=ComeIMPER.2sg
'Come and eat!' (NA 148.51)

b. we?ičupaλisak
 we?ič-up = 'aλ = 'i'sak
 sleep-CAUS.PERF=TEMP=ComeIMPER.2sg/1sg

'Come and put me to sleep!' (NT 21.1)

'Go' Imperative

c. $a?a'tu'\check{c}i$ $?a?a'tu' = \check{c}i'$ ask=GoIMPER.2sg

'Go ask him!' (NT 42.9)

d. hati'scsu' hati's = csu: bathe=GoIMPER.2pl
'You (boys) go and bathe!' (NT 62.6)

Finally, a structural note. As we have seen, the pronominal marking in the clitic sequence usually expresses the person and number (in first and second person) of the subject. In Imperative moods, however, first person objects are indexed with a pronominal clitic. In bare absolute complement constructions the mood and pronominal clitics occur on the matrix predicate (§4.6.2.1). This means the first person object of a transitive bare absolute complement predicate is actually marked on the matrix predicate instead of the complement in an Imperative mood.

(441) NUUCHAHNULTH wikirs 2itark... wik = 'irs 2itarknot=IMPER.2sg/1sg disbelieve 'Don't disbelieve me.' (NA 369.44)

The same pattern applies in Makah.

```
(442) MAKAH

wika\lambda iske

wik = 'a\lambda = 'is = ke:

not=TEMP=IMPER.2sg/1sg=ADVISE

'Don't eat all of me!' (HW, Deer and Wolves)
```

7.2.21 The articles

The article M = iq, N = 2ir (and its evidential-quotative counterpart $N = (m)i\dot{c}a \sim = \dot{c}ar$) normally attaches to the first non-demonstrative word of the RP.¹⁰⁵ It has multiple functions. The most basic is simply to mark referring phrases as such. It occurs optionally with RPs containing a noun or quantifier, but obligatorily with RPs that do not contain a word from one of these classes. In cases where it is optional, its appearance seems to be conditioned by some functional parameter akin to definiteness. Sapir (1924: 84, note 9) calls = 2ir a "suffixed definite article, often used as nominalizing element", Swadesh (1948: 109) calls it a "definite suffix", and Rose (1981: 25053) describes it as a definite and particularizing marker. Jacobsen (1973: 21) says the Makah article "indicates a certain definiteness of reference". It is true that RPs whose referents are definite (in the sense of identifiable) and particular (specific and referential) almost always have an article, sometimes in concert with the preceding demonstrative particle, *yar* in Nuuchahnulth¹⁰⁶ or *tir* 'this', *xur* 'that' and related forms in Makah.¹⁰⁷ For example, the referents of N *qur?as?i* 'the man' in (443)a and N *yar qur?as?i* 'the man' in (443)b are introduced in preceding sentences of their respective texts (Text 13 and Text 76) and are thus identifiable and particular.

(443)NUUCHAHNULTH ?i'hwe'?in qu'?as?i a. $?irh^w = wer?in \quad qur?as = ?ir$ big=QUOT person=ART 'The man was big.' (NT 64.9) b. wikax ši'ħuk ya' qu'?as?i... $wik = a\lambda$ siλ–uk qu'?as = ?i'va' change.residence-DUR DEM person=ART not=TEMP 'The man did not move.' (NA 379.19)

However, definiteness and particularity cannot be the whole story, as shown by the two RPs in example (444), which is the first sentence of Text 16.

(444)	NUUCHAHNULTH		
	?una [.] kwe?in	ḥa'kʷa'λ	qu'?as?i
	?u–na'k ^w =we'?in	ḥa'k ^w a'λ	qu'?as = ?i'
	so.and.so-have=QUOT	girl	person=ART
	'A certain man had a	daughter.' (NT 68.22)

This sentence introduces the referents of both RPs into the text for the first time, which means they ostensibly have the same identifiability status (unidentifiable), and both are particular, yet the subject RP has an article and the object RP does not.

In general, RPs that depart from the narrow identifiable-and-particular type in (443) (e.g. RPs with unidentifiable referents, non-referential expressions, generic RPs, etc.), show complex patterns of article use that are not well understood and that may not be reducible to a single general principle. Consider the RPs in (445). These sentences come from a passage in which the speaker

is describing his attempt to build a big house, a project which first requires finding appropriately large cedar logs. Sentence (445)a occurs two paragraphs before (445)b.

(445)	a.	NUUCHAHNULTH $i u n a n h i a \lambda si$ $i u - n a h = a \lambda = s$ so.and.so-look.for= 'I looked for stout	ri∕ TEMP=1sg	λuk ^w i•t?i λuk ^w i•t = ?i• large.in.girth= ' (NT 138.31	ART	<i>ḥumi's</i> <i>ḥumi's</i> cedar
	b.	$q^{w}iyiqas$ $q^{w}iyi = qa' = s$ when=DEF=1sg ' when I found g	so.and.so-o	obtain=TEMP	λuł λuł good 9)	<u>humi's</u> <u>humi's</u> cedar

The pattern of the article use in these sentences is further evidence against the definiteness-andparticularity hypothesis in its simplest form. Neither of the referents is identifiable, and the object RP in (445)a, $\lambda u k^{wirt} i i humirs$ 'stout cedar logs', which has the article, is non-referential — the speaker is looking for any objects that satisfy the intension of the RP rather than some specific subset of stout cedar logs. In fact, that may be exactly the point: the article in (445)a may indicate that the speaker is looking for "the whole set" in the sense that any member of the set of cedar logs that are stout will do, while the lack of article in (445)b indicates he did not find the entire set of good cedars, just some non-specific subset.

It is probably the case that the article is sensitive to discourse-pragmatic factors like topicality and communicative importance in addition to — or instead of — definiteness or particularity/specificity strictly defined. Other criteria, as yet undiscovered, may also be relevant. As Rose (1981) suggests, it may be necessary to take into account other elements that are present in an RP, and if so, their categories. Further study of how the article is used in discourse is the only sure way of making progress on these questions.

Makah also has a series of possessive clitics, shown in Table 23, that attach to the first word of RPs containing a noun to indicate possessor.

			1 4010	25. Wiakan	possessive entres	
				sg	pl	
			1	=sis	=dis	
			2	=sic	= saqsa or = sica:	
			3	= 'u:c	= 'uːċał	
(446)	a.	MAKAH $2u\dot{k}^{w}\dot{i}\dot{c}a\lambda s$ $2u-\dot{k}^{w}\dot{i}\dot{c}=\dot{a}\lambda=s$ so.and.so-clothed.in=	=TEMI	P=INDIC.1sg	<i>ċustku'sis</i> <i>ċustk–u' = sis</i> new–APPEN=POSS.1sg	1 2
		'I am wearing my r	new p	ants.'		
	b.	$suk^{w}2a\hat{\lambda}'$ $su-k^{w}i\hat{\lambda} = 'a\hat{\lambda} = 'a$ hold-perf=temp=im			= sic	
		'Pick up your boar	d!' (F	II, Qweti an	nd Raven)	

Table 23. Makah possessive clitics

The possessive clitics can attach to kin terms (e.g. *?abe'?iqsusis* 'my mother'), but first person singular also has a special possessive form =ax used only with kin terms: *?abe'?iqsax* 'my mother'. This is probably cognate to the Nuuchahnulth Set 1 first person singular subject clitic =ah (cf. Jacobsen 1969a: 137).

7.3 Pre-modal clitics

7.3.1 Diminutive

(Makah) = $i\check{c} = i\check{s}\check{c}$, (Nuuchahnulth) = 2is, = 2ic before glottalizing clitics (DIM): The very common diminutive clitic indicates that some aspect or participant of a situation is small. The most typical circumstance for the diminutive is when a participant is small in physical stature. It may occur in the main predicate of which the participant in question is an argument, as in (447)a-c and (448)a-b, or in an RP, as in (447)d and (448)c. Further research is necessary to determine criteria for choosing between these options.

(447) макан a. *tia^witi*

ťiq ^w iłičal	wikwi'ya'wiq	darłšiλ	wa'qidiq
tiq^{w} -' it = " $ič$ = ' $a\lambda$ = " i	wikwi'ya:k ^w =°iq	da'l–šiλ	wa'qit=°iq
sit-in.house=DIM=TEMP=INDIC.3sg	boy=ART	watch-PERF	frog=ART

'The little boy is sitting on the floor watching the frog.' (RC, Frog Story)

b. 2u-aba: $\dot{c}u = s$ so.and.so-talk.about=INDIC.1sg $q^{w}iyuq^{w}iks$ $k^{w}a^{2}awiš\check{c}$ $q^{w}iyu = (q)ik = s$ $k^{w}a^{2}ak^{w} = \tilde{i}\check{s}\check{c}$ when=REL=1sg small=DIM

'I'm talking about when I was really small.' (IW)

c. 4apxarbi?irsičward 4apx-ar-bi?irs = °ič = wardafly-EPEN-moving.about.on.ground=DIM=QUOT.3sg butterfly=ART

'The little butterfly was flying about.'

d.	hi'daq l al	wikwi'ya'wičiq
	hi ' daq $l = 'a\lambda = "i$	wikwi'ya: $k^w = i\check{c} = iq$
	amazed=TEMP=INDIC.3sg	boy=DIM=ART

'The little boy is amazed.' (RC, Frog Story)

- (448) NUUCHAHNULTH
 - a. $2a\lambda \dot{c}iq 2isuk$ $2a\lambda - \dot{c}iq = 2is = uk$ two-X.many.long.objects=DIM=POSS arrow

'He had two little arrows.' (NA 14.19-20)

b. $\dot{c}u\dot{c}kics?a\lambda$ $\dot{t}a\dot{c}the?isuk?i$ $\dot{h}ack^wac\lambda?i...$ $\dot{c}u\dot{c}k-ics=ia\lambda$ $\dot{t}a\dot{n}a-<t>[L]=?is=uk=?i$ $\dot{h}ack^wac\lambda?i...$ all-carry=TEMP child=<PL>=DIM=POSS=ART girl=ART

'The girl took along both her little children.' (NT 72.1)

Predicate diminutives may modify the object as well as the subject. Consider (449), which

shows a Nuuchahnulth example of an object-modifying diminutive on the main predicate head.

(449) NUUCHAHNULTH $\dot{n}up\dot{h}ta\dot{n}a\dot{h}\partial i\dot{c}a^{\prime}q\lambda a\dot{h}$ $\dot{n}up-\dot{h}ta-\dot{n}a^{\prime}\dot{h}=\partial is=\dot{a}\cdot q\lambda = (m)a^{\prime}=a\dot{h}$ one-X.many.sackfuls-seek=DIM=INTENT=INDIC=1sg

'I am going to look for one small sack.' (NA 83.41)

See also (450)c.

Occurrence in the main predicate clitic sequence or occurrence in the RP-level sequence are not mutually exclusive options. Example (450)a has the diminutive in both the main predicate and the subject RP, and (450)b-c show sentences with every word affixed by the diminutive (except the proper name *2imtši?at* 'Mentioned-by-Name'), even the predicate modifier *sa'čink* 'always':

(450) NUUCHAHNULTH a. $hu'?ič?ica\lambda qu'we?in$ ia'tne?is?i... $hu'?ič-?is = 'a\lambda = qu: = we'?in$ iana - <t > [L] = ?is = ?i'sleep.PL-DIM=TEMP=COND=QUOT child-<PL>=DIM=ART

'The little children would be asleep.' (NT 54.28)

b. $\dot{c}awark?\dot{c}a\lambda qurwe?in$ $\dot{c}awa-?ak^w=?is='a\lambda = qur=wer?in$ one-DUR=DIM=TEMP=COND=QUOT salways=DIM salways=DIM salways=DIM

 $\frac{2ini}{\lambda}$?is?i $\frac{2ini}{\lambda} = ?is = ?i'$ dog=DIM=ART

'Now there was one little dog who was always crying.' (NT 54.29)

c. $wa'sca\check{c}i\lambda?i\check{c}a\lambda\dot{h}a$ $wa's-ca-\check{c}i\lambda=?is=`a\lambda=\dot{h}a'$ where-go.to-PERF=DIM=TEMP=INTERR mention.name=PINVso.and.so-named=DIM=ART

ci2ik ^w aq?is	qaḥsa [·] p?ića [·] ni
ciq -' ik^{w} -(q) aq = ? is	qah-sap=?is='az=ni
speak-fond.of-very=DIM	dead-CAUS.PERF=DIM=PURP=1pl

'Where has the little talkative one named Mentioned-by-Name gone, so that we might kill him?' (NA 448.7-8)

In addition to small physical stature, the diminutive may index the low social rank of a par-

ticipant (451) (not reflected in Sapir and Swadesh's translation).

(451) NUUCHAHNULTH $2a^{2}aqu^{2}ishak$ $kamu^{2}$ $wa^{2}a\lambda we^{2}in\lambda a^{2}$ $2aqi-wa [R] = 2is = ha^{2} = k$ $kamu^{2}$ $wa^{2} = a\lambda = we^{2}in = \lambda a^{2}$ what-say=DIM=INTERR=2sg young.chap say=TEMP=QUOT=again ""What is it that you are saying, young fellow?" they said to Deer again." (NT 20.1-2)

The following Makah example occurred at the same point in a Makah version of the story:

(452) MAKAH $2uxu ?i\dot{c}a\lambda a k$ $yux - u' = i\dot{c} = a\lambda = (q)ak$ so.and.so-APPEN=DIM=TEMP=POLAR ""Is that you?" they said to Deer.' (HW, Deer and Wolves) Discussing the text later, the speaker indicated that inclusion of the diminutive in the greeting has the force of an insult — such a greeting would normally only be given to a child or slave.

The diminutive can also indicate that a situational element other than a participant is small or less than expected. Example (453) shows the diminutive used to indicate that the group size of a plural argument is few.

(453)	NUUCHAHNULTH atqu' at = qu: though= COND	?aλiste?is ?aλa-ista = ?is two-in.canoe.as.crew=DIM	<i>hitasaλ</i> <i>hita–saλ</i> empty.root–on.beach.PF	ERF
	ča∙puk čap–uk canoe.party–DUR	<i>hini'swisčis</i> <i>hin–i:s–wisč–`is</i> empty.root–carry–move.u	ıp.bank.PERF—on.beach	<i>ha?uk^wap</i> <i>ha?uk=`ap</i> eat=CAUS
		the canoe party consisted of the canoe party consisted of them.' (NT 196.36)	of a small two, (I) woul	d take them up

Certain roots in Nuuchahnulth that denote the lower end of a scale (e.g. *?anaḥ?is* 'small' denotes the lower end of the property SIZE) obligatorily take the diminutive. Compare, for example, the pairs of roots in Table 24.

size	?i'ħ ^w 'big'	?anaḥ?is 'small'
weight	<i>k^watyi'k</i> 'heavy'	<i>katyi[,]k?is</i> 'light'
texture	<i>qat</i> 'hard'	<i>čit?is</i> 'soft'
quantity	?aya 'many'	<i>kaṁa</i> ' = ?is ^a 'few'
distance	<i>saya'</i> 'far off'	<i>?ane'?is</i> 'close by'
time	<i>qi'</i> 'long time'	$\vec{k}a$ ' \vec{c} = $2is^a$ 'short time'
a		

Table 24. Scalar roots with the diminutive

^a This root is bound and must have a suffix before the diminutive. See (454)

Derived words based on these roots also have the diminutive:

(454) NUUCHAHNULTH a. $2e^{2inhač2is}$ $2anah^{w}-(w)ač[LR] = 2is$ small-at.margin.of.water=DIM

'a small margin from the surface of the water to the gunwale of the canoe'

b. $ka\dot{m}i^{\prime}?i\lambda?is$ $ka\dot{m}a-i?i\lambda = ?is$ few-move.into.house.PERF=DIM

'few enter the house'

c. *kaṁiste?is kaṁa–ista = ?is* few–in.canoe.as.crew=DIM

'few crew members in a canoe'

d. $\vec{k}a\cdot\vec{c}na\cdot\vec{k}$?is $\vec{k}a\cdot\vec{c}-na\cdot\vec{k}^w = ?is$ short.time-have=DIM

'have sth for a short time'

Roots that denote the upper limit of a scale like $2i \cdot h^w$ 'big' can occur with the diminutive as well, but with these roots it expresses qualified or partial possession of the property, e.g. $2i \cdot h 2is$ 'fairly big'.

Use of the diminutive with scalar roots in Makah is not obligatory. When it does occur with a root in this category, it intensifies the meaning: $k^wa?awišč$ 'really small' ($k^wa?ak^w$ 'small').

As first discussed in Sapir (1915), the Nuuchahnulth diminutive can be used to indicate persons with certain "abnormal" physical characteristics other than small size such as lame people, left-handed people, those who squint or are cross-eyed, hunchbacks, and others. In these cases the diminutive acts in concert either with a characteristic and otherwise meaningless consonant cluster that is inserted into the word (e.g. $-\lambda \check{s}$ - plus = 2is to indicate lameness) or with special articulatory changes that are applied to particular groups of consonants (e.g. to indicate those with a defect of the eye all sibilants are changed to the corresponding lateral stops or fricatives: $/s \check{s}/$ become /i/, etc.). To cite two of Sapir's examples, $\dot{t}ane2is2i$ 'the little child' becomes $ia\lambda sine 2is 2i$ to refer to or to address a lame child; similarly, $yar 42a\lambda ma$ 'He is yonder now' (yar 4'yonder', = 'a\lambda temporal specifier', = mar Indicative mood) becomes $yar 4ch 2ica\lambda ma$ to indicate a left-handed person, which Sapir translates as 'There now he is, poor little left-handed chap!'.

7.3.2 Intentive future (Nuuchahnulth)

 $= 2a:q\lambda$ (rarely $= a:q\lambda$) (INTENT): This Nuuchahnulth clitic is typically used as a future tense marker with the implication, though not the necessity, that the subject or some other participant in the event has control over whether it comes about.

(455)	a.	?anis	?a'yi'ħ?a'qħ
		2ani = s	$aya-i\lambda$ [L] = $aq\lambda$
		SUBOR=1sg	many-invite.PERF=INTENT

"...because I was going to invite many." (NT 140.21)

b. $\dot{c}ax\ddot{s}i\lambda ?a'q\lambda qas$ $\dot{c}ax^w - \ddot{s}i\lambda = ?a:q\lambda = qa' = s$ spear - PERF=INTENT=SUBOR=1sg

'And I am going to spear him.' (NT 48.4)

c.	qaḥšiħ?a'qħma	Tom	 ?u'nu' λ	<i>?ani</i>	piš?i'sqa
	$qah-\check{s}i\lambda = ?a:q\lambda = ma'$	Tom	?u−a′nu:ħ	?ani	ṕiš.–'i's=qa'
	dead-PERF=INTENT=INDIC	Tom	so.and.so-reason	SUBOR	bad-consume-SUBOR

'Tom will die because he is eating something bad.' (NA 72.26-27)

Example (456) shows the intentive future in an RP. The intentive element is barely felt here:

(456) $ka^{2}u^{2}c^{3}\lambda^{2}a^{2}q\lambda uk^{2}i$ $ka^{2}u^{2}c^{-}si\lambda = 2a^{2}q\lambda = uk = 2i^{2}g$ grandchild–PERF=INTENT=POSS=ART 'his future grandchild' (NA 77.24)

The intentive future does not co-occur with the other future clitics that appear later in the sequence. Rose (1981) reports that $= 2a:q\lambda$ co-occurs with the irrealis = 'a:h and the past tense clitic = (m)it in Kyuquot dialect, but examples of either are lacking in the Tseshaht corpus.¹⁰⁸

7.3.3 Temporal specifier

= ' $a\lambda$ (TEMP): This ubiquitous clitic, common to both languages, has a number of subtle functions, all of which derive from its basic function of fixing a situation at a specified time in the course of events. When translated at all, it is rendered 'now', '(and) then', or 'at that time'.

It often serves as a device for expressing the temporal succession of a series of events. The first two sentences of the following Nuuchahnulth excerpt from paragraph one of Text 77 (77.1.4 and 77.1.5 below; NA 385) relate two events in narrative sequence. The third sentence (77.1.6) introduces information about the setting:

	NUUCHAHNULTH		
77.1.4	ši•λuk ^w aλ	?u [.] ciýuk	naṁint
	$\check{s}i\lambda - uk = \dot{a}\lambda$?u–ciːýuk [L+S]	naṁint
	change.residence-DUR=TEMP	so.and.so-go.to	Namint

'They (the Ucluelets) were moving to Namint Bay.'

77.1.5	?u?iyačisťaħ	kanačištuħ	ťašwin
	$2u2iya-a\check{c}i\check{s}t=\check{a}\lambda$	kan−ačišt−uħ	ťaš–win
	so.and.so-get.to.be.at.PERF-on.ocean=TEMP	camp-on.ocean-PERF	trail-in.middle

'They laid to on the water at Road-Middle.'

77.1.6	hiła's	?anaḥ?is	čapac	hi [.] łe?e?i
	hił–a's	?anaḥ=?is	čapac	hid-(w)a?a [L] = $?i'$
	there-on.horizontal.surface	small=DIM	canoe	there-at.edge=ART

 $\lambda u sinqak ?i.$ $\lambda u sinq-ak^w = ?i'$ boarded.over.canoes-DUR=ART

'There was a small canoe on the barge near the edge.'

Both sequenced sentences are marked with $= a\lambda$. The third sentence, however, denoting a background or previously existing situation, is not in the narrative sequence and so is not marked with $= a\lambda$.

7.3.4 Possessive

(Makah, Nuuchahnulth) = uk (M = $?ak^w$, N = ?ak after vowels) (POSS): In Nuuchahnulth, the possessive clitic occurs on the first word of a possessed RP. If the possessor is third person, the possessive is often, though not obligatorily, followed by the article = $?i^r$. The possessor can be expressed in an independent RP that usually follows the possessed (457)c:

- (457) NUUCHAHNULTH a. $2a\dot{c}sa\dot{t}im?ak?i$ $2a\check{c}-(c)sa\dot{t}a$ [L]-im = 2ak = 2irsupport.with.pad-at.forehead-thing=POSS=ART 'his head flattener' (NT 15.1)
 - b. ciyapuxsuk?i ciyapuxs = uk = ?i' hat=POSS=ART
 'his hat' (NA 399.21)
 - c. ne?irqsak?i ne?irqsu=?ak=?ir uncle=POSS=ART'the girl's uncle' (NT 62.16)

If the possessor is first or second person, the possessive clitic is followed by the appropriate

Definite Relative mood clitic (§7.2.16) and pronominal clitic:

(458)		NUUCHAHNULTH	
	a.	?aħqimłukqas	ku'na'
		$2a\lambda - qim t = uk = qa' = s$	ku'na'
		two-X.many.round.objects=POSS=DEF=1sg	schooner
		'my two schooners' (NT 144.31)	
	b.	?asma [,] k?itqak ?asma = ?ak = ?i [,] tqa = k	
		favorite.child=POSS=DEF=2sg	

'your (sg.) favorite child' (NA 313.39)

As in English, a possessive construction in Nuuchahnulth can be used to express concepts

like 'center of the house' and 'top of the tree':

- (459) NUUCHAHNULTH a. 2appi?ituk?i mahtir?ak?i2am-pi(t)-'it=uk=?i mahtir?ak?ilocative.root-in.middle-in.house=POSS=ART house=POSS=ART 'the center of their house' (NA 344.2-3)
 - b. 2apqir2ak2i 2am-qir=2ak=2irlocative.root-on.top=POSS=ART $\frac{\lambda}{2}aqa2as=2ir$ tree=ART 'the top of the tree' (NT 76.15)

In Makah, the possessive clitic has been observed in RPs functioning in a manner similar to

that just described for Nuuchahnulth:

(460)	MAKAH	
	pi'kuq ^w i'ł	?abe'?iqsa'kqey
	$piku-q-(k^{w})id$ [L+S]	$?abe'?iqsu = ?ak^w = qeyu$
	basket-BFR-make	mother=POSS=COND.3sg
	'His mother was makin	g baskets.' (MP, Qweti and his Mother)

However, RP possession is more commonly accomplished by the possessive clitics in §7.2.21.

In both languages the possessive clitic participates in the very common possessor raising construction. In Makah, this is its primary use. It denotes that the subject (as indicated by the pronominal clitic in the clitic sequence) is the possessor of the S/A argument of the predicate head. The possessed is oblique. It occurs with intransitive predicates and, rarely, with transitive predicates.

(461) MAKAH a. $qax ši\lambda uks$ $\dot{q}idi'\lambda$ $qax - \tilde{s}i\lambda = uk = s$ $\dot{q}idi'\lambda$ dead-PERF=POSS=INDIC.1sg dog 'My dog died.'

> b. cubar?awic xačirqs $cubar = ?ak^w = °ic$ xačir-qsfull=POSS=INDIC.2sg deep-in.vessel

'Your bowl is full.'
c.	NUUCHAHNULTH hini'ṗaλuksi	?uwa'ťin
	$hina-i:p = a\lambda = uk = si$?u–wart–'in
	empty.root-obtain.PERF=TEMP=POSS=1sg	so.and.so-related.to-treated.as

'One of my relatives got it.' (NT 138.9-10)

d. ... $2i\dot{c}a't\dot{s}i^2a\lambda uksi$ $2i\dot{c}a't-\dot{s}i\lambda = 'a\lambda = uk = si'$ menstruate.first.time-PERF=TEMP=POSS=1sg sister.of.a.man

'My sister had her first courses.' (NT 138.15)

- e. ...wirkcqarsukqa 2arsirqsuwik-cqir [L]-'as = uk = qar 2arsirqsunot-overhead-on.ground=POSS=SUBOR child.of.sibling
 - '... for his niece didn't have a roof over her head.' (NT 54.19) lit. 'for his niece had nothing overhead (on the ground)'

f.	?uḥtin?ak	muš?asim	qu'?as?i	<i>ŧiḥaŧ…</i>
	?u-ḥtin = ?ak	muš.–'as–im	qu'?as=?i'	<i>łi</i> hał
	so.and.so-made.of=POSS	closed-on.ground-thing	man=ART	mat

'The man's door was made of a mat.' (NA 379.23)

7.3.5 Passive-inverse

(Makah) = 'it, (Nuuchahnulth) = 'at, = 'a:n before = (m)it past tense and sometimes = uk possessive (PINV): This clitic covers the functional range of passive and inverse constructions in other languages. Its use is triggered by the following conditions:

- 1. The A argument of a transitive clause is lower than the P argument on one of two hierarchies, a person hierarchy (1,2 > 3) or a topicality hierarchy (more topical > less topical).
- 2. The S argument of an intransitive clause or the A argument of a transitive clause is impersonal.

Let us first consider the principles governing the use of the passive-inverse in relation to the person hierarchy.¹⁰⁹

When one argument of a transitive clause is a speech-act participant (SAP) and the other is third person, the SAP must be the subject regardless of its semantic role. If the third person argument is the P (patient-like argument), it is coded as object, and the clause is direct, i.e. non-passive-inverse.

(462) MAKAH SAP acting on 3 P $kudu:ksa:?a\lambda its$ Bill $kudu:k-sa:p='a\lambda = (b)it = s$ Bill awake-CAUS.PERF=TEMP=PAST=INDIC.1sg Bill 'I woke Bill.'

If, on the other hand, the SAP is the P, a passive-inverse construction is used (marked by the passive-inverse clitic on the predicate head) with the SAP as subject and the third person A (agentlike argument) as an oblique (463)a. A direct construction with the third person A as subject and the SAP P as object is ungrammatical (463)b.

(463)	a.	MAKAH 3 A acting on SAP P $kudu'ksa'?a\lambda'itits$ $kudu'k-sa:p = 'a\lambda = 'it = (b)it = s$ awake-CAUS.PERF=TEMP=PINV=PAST=INDIC.J]	Bill Bill Bill
		'Bill woke me.'		
	b.	* $kudu\cdot ksa\cdot ?a\lambda ?u$ $kudu\cdot k-sa:p = 'a\lambda = (b)u = `i$ awake-CAUS.PERF=TEMP=PAST=INDIC.3sg	Bill Bill Bill	siya' siya' 1sg

When both arguments of a transitive predicate are SAPs, the two languages differ on the cod-

ing strategy employed according to the different grammatical resources they have available.

Makah simply uses first on second or second on first pronominals:

(464) MAKAH a. $kudu'ksa'?a\lambda itsi'cux$ $kudu'k-sa:p = 'a\lambda = (b)it = si:cux$ awake-CAUS.PERF=TEMP=PAST=INDIC.1sg/2sg 'I woke you.'

> b. kudu ksa ?aλ ?ucis kudu k = sa:p = 'aλ = (b)u = °icis awake-CAUS.PERF=TEMP=PAST=INDIC.2sg/1sg
> 'You woke me.'

In Nuuchahnulth, the A can appear as subject and the P as object, marked by an independent pronoun.

(465) NUUCHAHNULTH ...ha·hu·pa· $q\lambda a\lambda ah$ ha·hu·pa· $q\lambda a\lambda ah$ ha·hu·p-(y)a·= ?a· $q\lambda = `a\lambda = (m)a$ ·= ah suwainstruct-CONT=INTENT=TEMP=INDIC=1sg 'I shall instruct you.' (NT 60.6)

However, another common strategy is to use a bare absolute predicate to introduce the P argument in a separate clause.

(466)	a.	NUUCHAHNULTH $\hat{\lambda}upksa^{i}pa\hat{\lambda}ah$ $\hat{\lambda}upk-sa^{i}p = 'a\hat{\lambda} = (m)a^{i} = ah$ awake-CAUS.PERF=TEMP=INDIC=1sg clause 1 'I woke you (sg.).'	su ⁺ tił sut–(č)ił [L] 2sg–do.to clause 2
	b.	$\lambda upksa \dot{p}a\lambda e?ic$ $\lambda upk-sa \dot{p} = a\lambda = (m)a' = ?ic$ awake-CAUS.PERF=TEMP=INDIC=2sg clause 1 'You (sg.) woke me.'	si'čił si–(č)ił [L] 1sg–do.to clause 2

In (466), the A arguments are subjects of the initial clauses, and the P arguments appear as roots of bare absolute predicates with the verbalizing suffix $-(\check{c})it$ [L] 'doing to, with reference to ...'. Literally, the construction means something like 'X caused to be awake, doing it to Y'. See §4.6.1.1 for details on this type of construction.¹¹⁰

We turn now to the use of the passive-inverse in relation to the topicality hierarchy. When both arguments of a transitive predicate are third person, the more topical of the two is generally coded as subject, regardless of its role. If the A is more topical, the clause is direct: the A is coded as subject and the P is coded as object. If, on the other hand, the P is more topical, the clause is passive-inverse: the P is coded as subject, and the A, if mentioned at all, appears as an oblique agent RP. In syntactic terms, the passive-inverse clitic on the predicate head signals that the P rather than the A is subject. In discourse terms, it signals that the A is less topical than the P. A definitive statement of the factors determining topicality in Southern Wakashan requires a quantitative text study, but recency of mention is a relatively clear-cut parameter that will serve to demonstrate the basic principles at work. In general, the more recently a referent has been mentioned in the discourse, the more topical it is. If the A has been mentioned more recently than the P, and is hence more topical, it will likely be coded as subject, and the clause will be direct. Conversely, if the P has more recently been mentioned, it will be subject, and the clause will be passive-inverse. For instance, faced with the Makah sentences in (467)a-b out of context, an addressee could interpret either sentence as 'Bill saw Mary' or 'Mary saw Bill'.

(467)		МАКАН			
	a.	Direct clause $da\check{c}?o\hat{a}\lambda?u$ $da\check{c}-u?a\hat{t}=`a\lambda=(b)u=`i$	Bill Bill	Mar Mar	
		see-perceive.PERF=TEMP=PAST=INDIC.3sg	Bill	Mary	,
		a. 'Bill saw Mary.' b. 'Mary saw Bill.'			
	b.	Passive-inverse clause $da\check{c}?o\hat{t}a\dot{\lambda}it?u$ $da\check{c}-u?a\hat{t}=`a\lambda=`it=(b)u=`i$ see-perceive.PERF=TEMP=PINV=PAST=INDIC	c.3sg	Bill Bill Bill	Mary Mary Mary

a. 'Mary saw Bill.'b. 'Bill saw Mary.'

Now let us assume that the previous sentence in the discourse was $ba\check{c}id?a\lambda?u$ Bill 'Bill came in the house', and that Mary has not been mentioned for several minutes. In this context, the referent-role relations become clearer. Since Bill is the more topical of the two arguments, he will likely be coded as subject, and the a. translation of each sentence is the most probable.

The second circumstance for the passive-inverse is impersonal reference: clauses with impersonal S/A arguments are often passive-inverse. This impersonal passive-inverse marking is particularly common in the Nuuchahnulth corpus in texts describing how certain rituals are performed. The following example comes from the first two sentences of Text 25, *A Secret Ritual for Spearing Fish* (NT 110). The passive-inverse appears three times in this excerpt: in the intransitive clause 'one goes into the woods' and the transitive clauses 'one goes to (his) training place', and 'one makes an imitation canoe with a spear extending out in front'.

25.1.1 Puyi $\lambda awa'?a\lambda qu'$ hinin ha?um Pu-yi $\lambda awa'= a\lambda = qu$; hina-hi' ha?um so.and.so-at.X.time near=TEMP=COND empty.root-arrive.PERF fish

> *hita·q\lambdai?a\lambdaat hita-'a·q\lambdai\lambda-'a\lambda-'at empty.root-in.woods.PERF=TEMP=PINV so.and.so-go.to-PERF=TEMP=PINV*

 $\dot{c}a'xsim\dot{c}u\dot{w}as?i.$ $\dot{c}ax^w-sim\ddot{c}$ [L]- $ut^w-as=2i'$ spear-do.ritual.for-place.for-on.ground=ART

'When it is nearly time for the fish to come, one goes into the woods (and goes) to (his) training place.'

25.1.2	?uk ^w i•łši?aĥat	ča'pacťi' ?iła	sima'csyin	miłsýi
	$2u-(\check{c})i\dot{A}-\check{s}i\hat{\lambda}=\dot{a}\hat{\lambda}=\dot{a}t$	čapac–ťi:?ił [L]–(y)a	sim–a'csyin ¹¹¹	miłsýi
	so.and.so-make-PERF=TEMP=PINV	canoe-pretend-CONT	rigid-at.bow	spear

'He makes an imitation canoe with a spear extending out in front.'

Passive-inverse is not obligatory in such procedural contexts. Generally, the first several sentences in a text such as Text 25 are passive-inverse to establish the impersonal S/A in the discourse, but later sentences can be either passive-inverse or direct.

The following example of the impersonal passive-inverse in Makah occurs in a text in which

HI is describing the transparent appearance of a jar in a photograph.

(468) макан

čabułit	dačsa'wi'?it	jar?iq
čabuł='it	$da\check{c} - \langle a' \rangle - swi' = ?it$	jar = iq
able=PINV	see- <epen>-through=PINV</epen>	jar=ART

'You can see through the jar.' (Frog Story, HI)

The passive-inverse also regularly appears on the predicate head in both Makah and Nuuchahnulth when a body part is an S/A argument.

- (469) макан
 - a. $ya^{2}a\dot{k}its$ $ya^{2}-2ak^{w}=\dot{a}\lambda=\dot{i}t=s$ sore-DUR=TEMP=PINV=INDIC.1sg head 'My head is sore.'
 - b. $\lambda i \dot{c} k q e y a \dot{\lambda} i t s$ $\dot{\lambda} i \dot{c} k - q e y a \lambda$ [L] = 'it = screak-make.sound.PERF=PINV=INDIC.1sg neck

'My neck cracked (lit. made a creaking sound).'

c. $sa^{i}tq\check{s}i\dot{\lambda}its$ $\dot{p}i\dot{p}i\dot{p}i\dot{r}i$ $sa^{i}tq-\check{s}i\dot{\lambda}=\dot{r}it=s$ $\dot{p}i\dot{p}i\dot{r}i\dot{r}i$ itch-PERF=PINV=INDIC.1sg ear

'My ears itch.'

(470) NUUCHAHNULTH

a. $ya'?aka\lambdaatsi$ iimaqsti... $ya'-?ak^w = 'a\lambda = 'at = si'$ iimaqstisore-DUR=TEMP=PINV=1sg mind

'My mind was troubled.' (NT 140.21)

b.	?ani	hihiýaqħwat	čałča
	?ani	his -'aq λ -wi [R]= 'at	čałča
	SUBOR	blood-inside-at.nails=PINV	fingernail

'... that he had blood under his fingernails.' (NT 14.7-8)

Evidently related is the fact that it can optionally replace the possessive clitic (§7.3.4) to mark

inalienable possession of body parts in Nuuchahnulth:

(471) NUUCHAHNULTH
a. Inalienable possession marked by possessive *tuhċtitak?i tuhċtiti = ?ak = ?i* head=POSS=ART 'his/her/its/their head(s)'
b. Inalienable possession marked by passive-inverse *tuhċtitat?i*

 $\dot{t}u\dot{h}\dot{c}iti = at = 2i'$ head=PINV=ART

'his/her/its/their head(s)'

7.3.6 Irrealis (Nuuchahnulth)

= 'a:h (IRR): The irrealis occurs in the following constructions.¹¹²

- a) Optionally in past counterfactuals
- (472) a. $\dots caqsar\dot{p}ar\dot{p}ita\dot{p}$ surtid $caq-sarp='a:\dot{p}=(m)it=(m)ar=a\dot{p}$ $sut-(\check{c})id$ [L] on.end-CAUS.PERF=IRR=PAST=INDIC=1sg 2sg-do.to

 $q^{w}amihsimtqu's...$ $q^{w}a-mihsa = (m)it = qu: = s$ do.thus-want.to=PAST=COND=1sg

'I would have set you on end if I had wanted to.' (NT 88.26)

b. ... hayu'yipa hite?ic λ isat? ?is mucmuhaq hayu-i:yip='a:h=(m)it=(m)a'=?ic λ isat? ?is mucmuhaq ten-obtain.PERF=IRR=PAST=INDIC=2sg blanket and bearskin?

'You would have got the ten blankets and the bearskin.' (NT 154.4)

- b) Conative: denotes an attempted action (with the graduative aspect)
- (473) $harsikarh hayuqumt nurtyak ha-si:k^w-[L+S] = `a:h hayu-qimt nurt-y`ak^w completely-do-GRAD=IRR ten-X.many.round.objects roll.hoop-thing.for$

'They were trying to use up ten hoops.' (NA 16.49-50)

c) Optionally in Nuuchahnulth future imperatives

(474) a. ...*hinatši?a'h?im* $hin-at-ši\lambda = 'a:h = 'im$ empty.root-arrive-PERF=IRR=FUT.IMPER.2sg dog-imitate.in.dance

'Have Dog-Dancer (man's name) come.' (NA 378.3-4)

b.	wikim	ku'ŵił?a'ḥ
	wik = im	ku'ŵił= 'aːḥ
	not=FUT.IMPER.2sg	steal=IRR
	'Do not steal.' (N	Г 206.13)

These are often negative imperatives, as in (474)b, or involve a third person object with a causa-

tive sense (474)a.

d) Optionally reinforcing the past tense denoting 'deceased' on kin terms

- (475) $me?i\lambda qacuk^wa!hit?i$ $me?i\lambda qac = uk = 'a:h = (m)it = ?i'$ boy=POSS=IRR=PAST=ART 'his late son' (NA 125.29)
- e) Obligatorily in Nuuchahnulth with the bound root *hi* 'unable'
- (476) hica?aparhsi hu'niqityap...hi-ca?ap='a:h=si' hu'ni-q-i'tya'punable-go.to.CAUS.PERF=IRR=1sg drift.food-BFR-bring.as.gift.PERF

'I could not present it anywhere as drift-food.' (NT 198.14)

7.4 Post-modal clitics

7.4.1 Third plural

(Makah) = at = at = at = it = t — see §7.2.1 and §7.4.2 for distribution of allomorphs, (Nuuchahnulth) = 2at (3pl): This clitic indicates that a third person participant (subject, object, or oblique) is plural.

(477)	a.	MAKAH $da \partial u^{2} qs \partial a \lambda its art$ $da \partial u^{2} qs \partial a \lambda its art$ $da \partial u^{2} qs - i\lambda = a \lambda = s = a rt$ accompany-in.vessel-PERF=TEMP=INDIC.1sg=3pl 'I rode along with my parents (in the car, canoe, etc).'
	b.	$ha?ukš?ala!$ $ha?uk-ši\lambda = `a\lambda = `a!$ eat-PERF=TEMP=3pl
	c.	'They began to eat.' NUUCHAHNULTH $\check{c}ipqa'?a\lambda$ mu'statak?i?at $\check{c}ipq-(y)a' = `a\lambda$ mu'stati = ?ak = ?i' = ?at bow.is.drawn-CONT=TEMP bow=POSS=ART=3pl 'They had their bows drawn.' (NT 88.8)

d. $\hat{\lambda} i x a w u \dot{\rho} a \hat{\lambda} s i ? a \dot{t}$ $\hat{\lambda} i x - (q) a w u \rho = 'a \hat{\lambda} = s i' = ? a \dot{t}$ red-on.face.CAUS.PERF=TEMP=1sg=3pl

'I daubed red paint on their faces.' (NA 61.5)

- e. $wa'?a\lambda?a!$ $?a\lambda e?i$ $wa' = 'a\lambda = ?a!$ $?a\lambda a = ?i'$ say=TEMP=3pl two=ART 'The two said this.' (NA 84.32-33)
- f. $wikmihsaja\lambda ?al$ $qahši\lambda...$ $wik-mihsa = `ap = `a\lambda = ?al$ $qah-ši\lambda$ not-want.to=CAUS=TEMP=3pl dead-PERF

'He did not want them to kill him.' (NA 410.43-44)

It also occurs in the "associative plural" construction in which the predicate containing the third plural clitic combines with a singular proper name or kin term to mean 'NAME and associates did

Х'.

(478)	a.	MAKAH wałś?alił wał-śi $\lambda = a\lambda = i = al$ go.home-PERF=TEMP =INDIC.3sg=3pl 'Maria and her family went home.'	Maria Maria Maria	
	b.	$da\check{c}a'yi\hat{\lambda}e'?isa\lambda itsa' da\check{c}-a'yi\lambda-'e:?is='a\lambda = (b)it = s$ check.on-enter.house.PERF-go.to=TEM 'I just stopped by to look in on Mar	P=PAST=INDIC.1sg=3pl	Maria. Maria Maria

NUUCHAHNULTH	
hihi'qŵiłtaħ?ał	ma'ća'nux
$[R+L]-hiq-\dot{w}ita = a\lambda = 2at$	ma'ća'nux
PL-all-move.out.of.canoe.PERF=TEMP=3pl	Lunchman
	$\begin{aligned} hihi \cdot q \dot{w} i \dot{t} t a \lambda ? a \dot{t} \\ [R+L]-hiq-\dot{w} i \dot{t} t a = `a \lambda = ? a \dot{t} \end{aligned}$

'Lunchman (man's name) and all got out of the canoe.' (NA 409.23)

HW volunteered (479) as an alternative way of expressing (478)b, which shows the plural clitic

can also appear with an associative reading in the RP.

(479)	dača yi Že ?i sa li ts	Maria?ał
	$da\check{c} - a'yi\lambda - e'is = a\lambda = (b)it = s$	Maria = at
	look.in.on-enter.house.PERF-go.to=TEMP=PAST=INDIC.1sg	Maria=3pl

'I just stopped by to look in on Maria and her family.'

7.4.2 Habitual

(Makah) = a:k, (Nuuchahnulth) = ?a:ta (HAB): This clitic indicates the habitual nature of the

event denoted by the predicate.

(480) MAKAH a. $hidi \cdot kssi \cdot k$ $2uca \check{c} i \hbar$ ba ?assichida - i:ks = si = a:k $2u - ca - \check{c} i \hbar$ ba ?as = sicempty.root-bring=INDIC.1sg=HAB so.and.so-go.to-PERF house=POSS.2sg

'I always bring it to your house.'

	NUUCHAHNULTH	
b.	?ak ^w ałnahitqa?arła	łica <u>h</u> um
	$?ak^{w}al-\dot{n}a\dot{h}=(m)it=qar=?ala$	ŧic−aḥu'(ŧ)−ma
	borrow-seek=PAST=SUBOR=HAB	cloth.spread.out-in.front-thing

titinkum	ḥawi'ḥ	wikmaqakuk?i	łu'csma
ti–nuk ^w [R+L]–um	ḥaw̓ił–iːḥ	wik-maqak = uk = ?i'	łu'csma
wipe-at.hand-thing	chief-PL	not-skilled.at=POSS=ART	woman

'Chiefs whose wives were not smart used to (have to) borrow eating spreads and hand-wipers.' (NT 202.39-40)

c.	ła'kši?is	tumisawup	wa'?aﯖa'nita?a'ła
	ła∙kšiλ = 'i∙s	tumis–(q)awup	$wa' = a\lambda = at = (m)it = a = ?aAa$
	please=IMPER.2sg/1sg	charcoal-on.face.CAUS.PERF	say=TEMP=PINV=PAST=INDIC=HAB

*sirxur*4*mirk*... *six^w*-(*q*)*u*(*t*)-*mi:k* [L] sores-on.face-getter.of

"Please put charcoal on my face," they would say to Soreface-Hunter.' (NA 67.15)

d. wikir?arła we?ič wik='ir=?arła we?ič not=IMPER.2sg=HAB sleep

'Don't sleep all the time.' (NT 184.18)

Two second person plural clitics take longer forms in Makah when directly followed by the habitual clitic. I have not reelicited this material, so my description relies on Jacobsen's (1973: 16-17) presentation of the data; he refers to this morpheme as the "usitative". The Set 1 (Indicative) second person plural clitic in Table 15 takes the form = ico:wič (instead of = ica:) and the Set 2 form becomes = so:wač (instead of = sa:).

When the habitual is followed by the third plural clitic (§7.4.1), which here apparently has the form = i, metathesis takes place whereby the /k/ of the habitual and the /i/ of the plural metathesize: = a:k = i surfaces as = a:ik (cf. Jacobsen 1973: 16).

7.4.3 Responsive (Makah)

= *ši:* (RESP): This clitic indicates that the utterance is made in response to an utterance of the hearer, generally a question, as demonstrated by the following standard greeting formula:

- (481) Speaker 1: $2uxu^{2}a\lambda a^{k}k$ $2ux-u^{2}=a\lambda = (q)ak$ so.and.so-APPEN=TEMP=POLAR 'Hello! — (lit.) is it you (sg.)?'
 - Speaker 2: $2uxu \cdot 2a\lambda siši$ $2ux-u = a\lambda = si = ši:$ so.and.so-APPEN=INDIC.1sg=RESP 'Hello! — (lit.) indeed, it's me'

Second person plural clitics show longer forms with this clitic similar to those that occur with the habitual: the second plural Set 1 form (see Table 15) becomes = ico:wa, and the Set 2 form becomes = so:wa.

When the responsive follows the habitual (§7.4.2), the final consonant of the habitual and the initial consonant of the responsive metathesize: $=a:k=\check{s}i:$ becomes $=a:\check{s}ki:$. This metathesis also occurs when the habitual has already undergone metathesis with the third plural clitic. Thus, an underlying sequence of $=a:k=\check{t}=\check{s}i:$ surfaces as $=a:\check{t}\check{s}ki:$ (cf. Jacobsen 1973: 18).

Jacobsen (1973: 17) reports that the responsive occurs with the Indicative and the Quotative. Its failure to occur with most of the other moods can be explained pragmatically, e.g. it would be a contradiction of its function to combine it with either of the interrogatives.

7.4.4 'Again'

(Makah) = λ ?o, (Nuuchahnulth) = λ a: ('again, also'): This clitic indicates the repetition of an event or entity.

(482)МАКАН $2uda'kdu'\lambda$ du'pica'dax λupač a. $2u-da'k^w = du = \lambda 2o$ du pica daxi *Xupač* so.and.so-have=1pl=again all.kinds root 'We also have all kinds of roots.' (HW, Our Land) NUUCHAHNULTH b. ?aħhtayi'siħa' nuphta k nup-hta-?ak^w $a\lambda - hta - avi: = si' = \lambda a$ two-X.many.sackfuls-give.PERF=1sg=again one-X.many.sackfuls-DUR wawaćaqkuk nuphta kha ńińixkuk $\dot{n}ix^{w}-\dot{k}uk$ [R] wawaćaqkuk $\dot{n}up-hta-2ak^{w}=\lambda a$: one-X.many.sackfuls-DUR=again salmon.roe-resemble beans

'I gave him also two sacks, one of beans and one of peas.' (NA 83.6-7)

This is likely a reduced and cliticized form of M, N $\lambda a 2u'$ 'another'.

7.5 Organization of the clitic sequence

Clitics fall into three groups: pre-modal (§7.3), mood and pronominal (§7.2), and post-modal (§7.4). Though some combinations of clitics are rare or unattested (e.g. temporal specifier and future in Makah, intentive future and irrealis in Nuuchahnulth), most of the pre- and post-modal clitics may co-occur with one another and with the mood and pronominal clitics or an article. When two or more clitics are hosted by the same word, they appear in a fixed order. The order of clitics in Makah is shown in (483).

(483) Organization of the clitic sequence in Makah

=DIM=TEMP=CAUS=POSS=PINV=TENSE=MOOD=PRO=HAB=3PL=RESP=again

The tense slot can be filled by either future = 'eyik or past = (b)it (=(b)u preceding second and third person). There seems to be another future clitic = $i\lambda$, but this is not well attested. The pre-

modal benefactive clitic = up follows the temporal specifier, but its exact position among the other pre-modal clitics is unknown:

(484)	MAKAH	
	?uda katupsi cux	qata ?axs
	$2u - da'k^w = a\lambda = up = si:cux$	qała ?axs
	so.and.so-have=TEMP=BEN=INDIC.1sg/2sg	chamber.pot

'I have a chamber pot for you.' (HW, Deer and Wolves)

The "advisitive" clitic = ke: mentioned in §7.2.20 is another post-modal clitic; it is not known whether this co-occurs with the other post-modal clitics, and, if so, where it occurs in the sequence.

The order of Nuuchahnulth clitics is shown in (485).

(485) Organization of the clitic sequence in Nuuchahnulth

=DIM=INTENT=CAUS=TEMP=PINV=POSS=IRR=FUT=PAST=MOOD=PRO=3PL=again=HAB

One of three future tense clitics may appear in the FUT slot. Note that, unlike its Makah cognate, the Nuuchahnulth past tense is not in paradigmatic opposition with future tense. It may co-occur with at least two of the future clitics, =(y)ik IRR.FUT and = 'i:k FUT (not at the same time), to express present and past counterfactuality.

(486)	…Xiči?i'kitqa	<i>?uyi</i>	pu'na'kḥitqu'			
	$\hat{\lambda}i - \check{c}i\lambda = ik = (m)it = qar$?u–yi	pu'-na'k''-(q)h=(m)it=qu:			
	shoot-perf=fut=past=subor	so.and.so-at.X.time	gun-have-while=PAST=COND			
' that they would have shot if they had guns.' (NA 397.34)						

When the Nuuchahnulth causative and possessive occur in the same sequence, the possessive *precedes* the causative (487)a, although if the causative is not present it comes later in the sequence, following the passive-inverse (487)b:

(487) a. $\frac{POSS}{POSS} = CAUS = TEMP = PINV$ $\frac{POSS}{POSS} = CAUS = TEMP = PINV$ $\frac{PUh}{P} = \frac{uk}{a} = ap = a\lambda = at = nir$ so.and.so=POSS=CAUS=TEMP=PINV=1pl 'Ours was caused to be ...' (NA 19.8) b. TEMP = PINV = <u>POSS</u> $\dot{c}a\dot{n}i$ ' $2a\dot{\lambda}atuk$ $\dot{c}a\dot{n}i$ ' = ' $a\dot{\lambda}$ = 'at = <u>uk</u> not.see=TEMP=PINV=POSS 'Theirs were not seen.' (NA 124.8)

Example (487)b also shows that the temporal specifier normally *precedes* passive-inverse and possessive. When the irrealis and temporal specifier co-occur, however, the temporal specifier *follows* the irrealis and thus these other clitics as well:

(488) PINV = POSS = IRR = <u>TEMP</u> $\dot{k}^{w}a\dot{y}a\dot{p}atu\dot{k}^{w}a\dot{p}a\lambda qu'$ $\dot{k}^{w}a-\dot{y}a\dot{p} = at = uk = a\dot{p} = \underline{a}\dot{h} = qu'$ break.in.two-CAUS.PERF=PINV=POSS=IRR=TEMP=COND 'If they try to break it ...' (NA 17.14)

When the temporal specifier moves to the right of the irrealis, the passive-inverse and possessive may optionally "piggy-back" along. Compare their positions in (488) to their positions in (489):

(489) <u>PINV</u> = IRR = TEMP = <u>PINV</u> = <u>POSS</u> *huptsa'pata'h?a\lambda'a'nuk^witni hupt-sa'p* = <u>'at</u> = 'a:<u>h</u> = 'a\lambda = <u>'at</u> = <u>uk</u> = (m)it = ni' hidden-CAUS.PERF=PINV=IRR=TEMP=PINV=POSS=PAST=1pl 'Ours would be hidden.' (NA 142.47)

In (488) only the temporal specifier has moved. In (489) the passive-inverse and the possessive have moved with it; all three clitics now follow the irrealis. Surprisingly, a copy of the passive-inverse is retained before the irrealis. This means the passive-inverse occurs twice in the same sequence. Such double marking occurs only in this circumstance and is unknown with other clitics. Example (490) gives two more instances of double passive-inverse marking:

(490) a. ...wa^x ?ani hisiłi^x yapši?ała^xh?aλ^xatqa... wa^x ?ani hi-siła-i:yap-šiλ = <u>`at</u> = `a:h = `aλ = <u>`at</u> = qa^x... say SUBOR unable-do-CAUS.INCEP-PERF=PINV=IRR=TEMP=PINV=SUBOR...
'She said that he (the doctor) had been unable to do anything for her.' (NT 190.30-31)

b.	wikha's	mawa'?aťa'ḥ?aᄎat	ya'2i'ḥitqas
	wik = ha' = s	$\dot{m}a\dot{w}a' = \underline{at} = \dot{at} = \dot{a}\lambda = \underline{at}$	yaq^{w} -'i: h [L]=(m)it=qa'=s
	not=INTERR=1sg	deliver=PINV=IRR=TEMP=PINV	that.which-hunt=PAST=DEF=1sg
	'Are they not bri	nging to me what we [sic-MD ¹¹³]	tried to get?' (NA 169.40)

8 Word Classes

8.1 Inventory

Southern Wakashan has at least the following classes of unextended words (§4.2.1).

(491) Nominals

Nouns (§8.2.1)

Numerals, quantities, and quantifiers (§8.2.2)

Pronouns (§8.2.3)

 $\underline{\text{Verbs}}$ (§8.3)

Predicate modifiers (§8.4)

This list does not include particles, that is, words with limited capacity for taking lexical suffixes or clitics and no implication of aspect. The class of particles includes imperative particles, interjections, and syntactic particles. See Swadesh (1933: 20-23, 1939: 80-81) for more information.¹¹⁴

The degree of grammatical differentiation among word classes in Southern Wakashan is famously low.¹¹⁵ Words are sometimes said to be polyfunctional (e.g. Rose 1981: 10, who, referring to Kyuquot, speaks of "the extreme degree of constituent multipurposeness of lexical entries"), but according to the conception of Southern Wakashan syntax developed in Chapter 4, this characterization is a bit misleading. Referring phrases (RPs), the syntactic realization of referring expressions, are claimed to be headless relative clauses or "nominalized" clauses, where "nominal" is understood to mean "referring expression".¹¹⁶ This goes hand-in-hand with the idea that all full words (except proper names) are predicative, as Swadesh (1933, 1939) proposed early on. Hence, the difference between (common) nouns and verbs is not in their ability to function in different grammatical roles, for there is only one major syntactic role in Southern Wakashan, predicate head, but rather in the ease with which clauses headed by them can function as clauses that refer, referring phrases, which fill the syntactic roles of subject, object, and oblique.

Based on this insight, first expressed by Jacobsen (1979a) in somewhat different terms, we can say more precisely that clauses with verbal predicates cannot function as RPs unless they also have an expressed nominal subject or are marked by the enclitic article M = iq, N = 2ir, or both. Thus, the second and third words in (492)a, a verbal predicate and its object, cannot be interpreted as belonging to an RP that functions as subject of *hix^wa*?*al* 'he/she is working hard'. This proposition would have to be expressed by (492)b, which includes the article:

(492)		MAKAH			
	a.	*hix ^w a'?al	čiλirčiry	ha?ub	
		$hix^{w}a' = a\lambda = i$	$\dot{c}i$ -(y)a [RepR]	ha?uba	
		working.hard=TEMP=INDIC.3sg	cut–REP	food	
		'One who is cutting food is working hard.'			

b.	hix ^w a'?al	čiħi'či'y?iq	ha?ub
	$hix^{w}a' = a\lambda = i$	$\check{c}i-(y)a$ [RepR] = iq	ha?uba
	working.hard=TEMP=INDIC.3sg	cut–REP=ART	food

'The one, a certain one who is cutting food, is working hard.'

Note, however, that (492)a could mean 'he/she is working hard cutting fish'.

It may well be, as argued by Nakayama (1997a), that good functional motivations exist for this structural pattern, but since it defines distributional classes, there seems no reason not to call words in the resulting classes "nouns" and "verbs".¹¹⁷ I claim that the essential difference between Southern Wakashan and a language like Latin is one of degree, not of kind: it is not that Latin has nouns and verbs and Southern Wakashan does not, but that the degree of grammaticalization of the classes is much greater in Latin than in Southern Wakashan.

The three nominal subclasses (noun, numeral/quantifier, pronoun) are distinguished by formal criteria discussed in the relevant sections below. Such formal differences are again slight.

Predicate modifiers are distinguished from verbs by their lack of ability to function as predicate heads and by the pattern of clitic placement in predicates containing them (§8.4). The classification laid out in (491) does not include bound roots, since syntactic tests of the sort used to classify words are irrelevant to them. Some, like M, N $\dot{t}iq^{w}$ - 'sitting' or M, N *hup*- 'roundish object', seem clearly verbal or nominal, but, in the absence of specific distributional criteria, attempts at classification are speculative. Additional morphological criteria must be developed to allow definitive placement of bound roots in the classification scheme. One way of doing this is to compare the morphological distribution of bound roots with that of free roots whose categorical status is already established. For instance, it is known that when (free) nouns in construction with restrictive locative suffixes function as predicate heads, along with the regular readings allowed nominal predicates, a bahuvrihi reading is generally possible whereby the subject of the predication is asserted to have some association with the referent of the noun loosely referred to as "possession" (§4.4.3.2), e.g. the noun root M $\dot{q}idi\cdot\lambda$ 'dog' (in its combining form $\dot{q}i\lambda \check{c}$ -) with the locative suffix - 'axs 'in a vessel' can have the meaning 'X has a dog in a vessel' as a predicate head:

```
(493) Noun as base
```

MAKAH $\dot{q}i\lambda i'\dot{c}axsal$ $\dot{q}i\lambda\dot{c}-\langle i'\rangle-\dot{a}xs=\dot{a}\lambda=\ddot{i}$ dog-<EPEN>-in.vessel=TEMP=INDIC.3sg

'It is a dog in a vessel.' 'He has a dog in his vessel.'

When a verb with a locative suffix is predicate head, on the other hand, a possessive-existential reading is generally not possible:

```
(494) Verb as base

MAKAH

babuyak^{w}axsal

babuyak^{w}-'axs='a\lambda = i

work-in.vessel=TEMP=INDIC.3sg

'He is working in a vessel.'

*'He has someone working in his vessel.'
```

It appears that when the bound root $\dot{ti}q^{w}$ - 'sitting' is predicated with the suffix, the possessiveexistential reading is equally impossible: (495) Bound root as base MAKAH $ti\dot{q}^w axsal$ $tiq^w axs = 'a\lambda = i$ sit-in.vessel=TEMP=INDIC.3sg 'He is sitting in a vessel.' *'He has someone sitting in his vessel.'

The morphosemantic parallelism between $babuyak^w$ 'working' and iq^w - 'sitting' is one piece of evidence for classifying iq^w - as a bound verb root. Until more such tests are developed and systematically applied to the lexicon, however, classification of bound roots must be considered tentative.

8.2 Nominals

8.2.1 Nouns

There are several morphological sources for nouns. First, the Southern Wakashan lexicon contains many free noun roots:

$(496) \quad \text{Free noun roots, e.g.} \\$

M ?aqiλ, N ?a?iλ 'cave'
M ber?ic 'sand dollar'
M curwit, N cuŵit 'silver salmon'
M čirłseyap, N kirłcurp 'owl sp.'
M kucup, N kucim 'small mussel sp.'
M tuxurcida, N tuhciti 'head'
M wadiš, N wanuš 'skirt'

Second, a derived noun can be formed from a base of any class with the addition of a nuclear nominalizing suffix (§5.4.2):

(497) Derived nouns, e.g.

M ciqi'ti?i', N ciqi'ta 'spokesman' < bnd verb root ciq- 'speak' + -i'ti?i:, -i'ta '..-er'

N huł?in 'dancing garment' < bound verb root huł- 'dance' + -.?in 'costume for ...'

- M xuqu'ba, N huqu'ma 'mask' < noun xuqu't, huqu't 'inverted hollow object at one's face' + -ba, -ma nominalizer '... thing'; the underlying noun base consists of noun root xuq-, huq- 'inverted hollow object' + restrictive locative suffix -(q)u'(t) 'at the face'
- M *burparyił*, N *murpirł* 'four long bulky objects' < numeral root *bur*, *mur* 'four' + -*paryił*, -*pirł*^w '... many long bulky objects'
- M *\lambda i'daqbis*, N *?učqmis* 'fog' < bound verb root *\lambda i'daq-*, *?učq-* 'foggy' + M *-bis*, N *-mis* 'collectivity of ...'

Third, nouns can be derived from lexicalized verbs. This is a particularly common source for personal and place names. Like the examples in (498), many lexicalized verbs are in the iterative aspect, which, as mentioned earlier (§6.5.5.3), can have a habitual sense.

(498) Nouns derived from lexicalized verbs, e.g.

- M $\vec{k}^{witi}\cdot\vec{k}^{wit}$ ' hummingbird' < lit. 'sticks on at intervals', bound verb root $\vec{k}^{wi}T$ 'stick on' + iterative I aspect
- N *či či wahsut* 'bureau' < lit. 'gets pulled out at intervals', verb *či* 'pull' + restrictive path suffix *-wahsu(t)* 'move out (perf.)' with iterative II aspect
- N $q^{w}a'ya'cikši'l$ 'Turns-into-Wolf (man's name)' < noun $q^{w}ayacik$ 'wolf' with perfective (and hence verbalizing) suffix $-i\lambda$ and iterative II aspect

The following examples show nouns as predicate heads in RPs. By definition, RPs with nominal predicates can occur without the article under appropriate discourse conditions (see §7.2.21 for discussion of the article), which is not true of RPs with predicates of non-nominal classes. However, proper nouns like N *čirkap* 'Jacob' and N *q*^w*aryacikširt* 'Turn-into-Wolf' in

(499)i-j are *not* predicates of nominalized clauses, and perhaps should not be considered RPs, but simply single words functioning directly as referring expressions.

(499) MAKAH a. q^wiša'?al ba?asiqa[·]c $q^{w}i\check{s}.-(y)a' = a\hat{\lambda} = i$ ba?as = iqa:csmoke-CONT=TEMP=INDIC.3sg house=DEM.ART 'Smoke is coming out of that house.' b. *yu'xłapa'l k*^wisi *yuxi*–*api* [L] = ' $a\lambda$ = "*i k*^wis−i' float-in.air=TEMP=INDIC.3sg snow-APPEN 'Snow is blowing in the air.' čapac c. du beya' λ cuba'?ak du bey $u = a\lambda = i$ $cuba' = ?ak^w$ čapac always=TEMP=INDIC.3sg full=POSS canoe 'His canoe was always full.' (HW, Qweti and Raven) NUUCHAHNULTH d. *\upksi?a* me?itqac?i... $\lambda u p k - \check{s} i \lambda = a \lambda$ $me?i\lambda qac = ?i'$ awake-PERF=TEMP boy=ART 'The boy awoke.' (NT 166.13) e. *suk^wi?a*λ huqu^{mak}?i $su-k^{w}i\lambda = a\lambda$ $huq-(q)u'(\ell)-ma = 2ak = 2i'$ inverted.hollow.object-at.face-thing=POSS=ART hold-perf=temp hitaqawi?a\t

 $hita - (q)awi\lambda = a\lambda$ empty.root-at.face.PERF=TEMP

'He took his mask and put it on his face.' (NT 102.37)

f. $tu^{k}k^{j}i\lambda$ **?a?uk "a** λ **it?i**... $tu^{k}k^{j}k\lambda$ **?a?uk** = 'a λ = (m)it = ?i' cover.with.soil-PERF lake=TEMP=PAST=ART

'He threw dirt in the lake.' (NT 166.22-23)

g. $?ah?ar?a\lambda itah$ $?ah?ar = `a\lambda = (m)it = (m)ar = ah$ then=TEMP=PAST=INDIC=1sg $mak^w-uk = `a\lambda = sir$ buy-DUR=TEMP=1sgslave

'Then I bought a slave.' (NT 162.39)

h. $\dot{p}isaqma$ $ku'\dot{w}itmis$ $\dot{p}isaq = ma'$ $ku'\dot{w}it-mis$ bad=INDIC steal-collectivity.of

'Stealing is bad.' (NT 206.13)

i.	pači?at	či [,] kap	?uyi [,] ?at	čirčirwaḥsurŧ
	$\dot{p}a-\check{c}i\lambda$ = 'at	či kap	2u-ayi'=at	či'–wahsuł–[IterL]
	potlatch-PERF=PINV	Jacob	so.and.so-give.PERF=PINV	pull-move.out.PERF-ITER
	'Jacob was potlatch	ned a bure	eau.' (NA 260.1-2)	
•	· · · · · · · ·			

j. $ciqsa'\dot{p}a\lambda si$ $q^{w}a'ya'\dot{c}ik\check{s}i'$ $ciq-sa'p = 'a\lambda = si'$ $q^{w}aya\dot{c}i:k-\check{s}i\lambda$ -[IterL] speak-CAUS.PERF=TEMP=1sg wolf-PERF-ITER 'I had Turn-into-Wolf speak.' (NT 152.39)

Note the lexicalized deverbal nouns from (498) in (499)i-j, examples which provide evidence that

these lexemes are, in fact, nouns.

Common nouns may also function directly as predicate heads of main clauses.

(500)	a.	MAKAH $\dot{q}idi \cdot l$ $\dot{q}idi \cdot \lambda = \hat{i}$ dog=INDIC.3sg 'It is a dog.'	
	b.	<i>qa?awaćalši</i> <i>qa?awac</i> = ' $a\lambda$ = " i = š <i>i</i> : burden.basket=TEMP=INDIC.3sg=RESP 'This is a burden basket.' (RC, ANA	
	c.	NUUCHAHNULTH $me?i\lambda qac?iswe?in$ $iane?is$ $me?i\lambda qac=?is=wer?in$ $iana=$ boy=DIM=QUOT child=DI 'The child was a boy.' (NT 90.36-3)	?is = ?i' ™=ART
	d.	?ani ?ini'λukqa nuwu ?ani ?ini' $\lambda = uk = qa'$ nuwu SUBOR dog=POSS=SUBOR father ' for his father was a dog' (NT 58	rqsu

However, proper nouns cannot be (syntactic) predicate heads:

(501) NUUCHAHNULTH *Billma' Bill-ma' Bill-INDIC 'He is, there is Bill.'

Nouns freely accept certain aspectual morphemes, particularly the perfective or perfective inceptive suffixes (§6.4). In this case, they become verbs, e.g. M $\dot{q}idi^{2}\lambda^{2}$ 'dog', $\dot{q}idi^{2}\lambda^{2}\lambda^{2}$ 'become a dog' (§8.3).

Southern Wakashan has an interesting set of kin terms, which, to my knowledge, have not received prior description. The class of "associative kin terms" is distinct from (although in some cases morphologically related to) ordinary kin terms like M *?aber?iqsu*, N *?um?irqsu* 'mother' and M *yuk^wirqsu*, N *yuk^wirqsu* 'younger sibling'. It consists of a few free roots, e.g.

(502) Associative kin roots, e.g.

M *qiki*', $2i'k^w$ 'pair of brothers'

N hicsnup 'husband with his wife, a couple'

M ba?ax, N ma?ah 'pair of sisters'

and derivatives with the associative kin suffix M -čix, N -čih suffixed to kinship nouns, e.g.

(503) Derived associative kin terms, e.g.

M ?asči, N ?asči, 'parent with child' (?as- cranberry root)
N hačicči, 'sister with brother' (hačic-, hačimsiqsu 'female's brother')
N ka'?ucči, 'grandparent with grandchild' (ka'?uc-, ka'?u'c 'grandchild')
N wi'?ucči, 'uncle with nephew' (wi'?uc-, wi'?u' 'sibling's child')

N *ýimacči*h 'brother with brother-in-law' (*ýimac-, ýimi qsu* 'male's brother-in-law')

These are not yet well attested in Makah, so examples are taken from the Nuuchahhulth texts. Associative kin terms describe someone in company of a person with the particular kin relation specified by the root. They have syntactic behavior typical of other Nuuchahnulth nominals. They may occur as nominal predicates in RPs, with or without the article, to directly denote a person with the property they describe, an ability shared with most other nominals.

(504)NUUCHAHNULTH ču čka t a. hina'si?aħ $\dot{c}u'\dot{c}k = a\lambda$ $hina - a's - i\lambda = a\lambda$ all=TEMP empty.root-on.horizontal.surface-PERF=TEMP hina'siλ hicsnup hina–a's–i λ hicsnup empty.root-on.horizontal.surface-PERF husband.with.wife 'Both got on, husband and wife got on.' (NT 76.15) b. *ha'hu'pši?at* ?aḥ?a' hačicčih?i... hačic-čih=?i' $ha'hu'p-\check{s}i\lambda = at ?ah?a'$ instruct-PERF=PINV then female's.brother-with.kin=ART

'They instructed the brother and sister.' (NA 47.15-16)

Associative kin terms can also occur in construction with proper names, e.g. *Bill hicsnup* 'Bill with, and his wife' (505)a. A second name can be added to specify the individual with the kin relation denoted by the root: *Bill hicnup Mary* 'Bill with, and his wife Mary' (505)b-c.

(505)	a.	NUUCHAHNULTH $\dot{m}e'?i?a\hat{\lambda}at$ $\dot{m}a-'i\hat{\lambda} \ [L] = 'a\hat{\lambda} = 'at$ bite-get.PERF=TEMP=PINV	buglas) and his wife were "bitt		k ^w [L] hics	husband.with.wife	
		'Soreface-Hunter (Dougl Wolf Ritual).' (NA 58.14			re "bitten aw		
	b.	$\dot{p}a\check{c}i\hat{r}a\hat{\lambda}at$ $\dot{p}a-\check{c}i\hat{\lambda}=\hat{a}\hat{\lambda}=\hat{a}t$ give.in.potlatch-PERF=TEMI	P=PINV	<i>q^wa'ńitux</i> <i>q^wa'ńitux</i> Kwanituh	•	child	k ^w iya [,] ctin k ^w iya [,] ctin Kwiyatstin

'Kwanituh and his son Kwiyatstin got presents.' (NA 175.31-32)

c.	pači?aĥat	 wa'ṁi'š	₽i∙k	se'sil
	$\dot{p}a-\check{c}i\lambda=\dot{a}\lambda=\dot{a}t$	wa'ṁi'š	₽i'k ^w	se'sil
	give.in.potlatch-PERF=TEMP=PINV	Wamish	brother.with.brother	Cecil

'Wamish and his brother Cecil got presents.' (NA 175.31-32)

The nature of the syntactic relations in these constructions needs further investigation. It is unclear, for example, whether the second name is an argument of the associative kin term (i.e. 'with-his-wife Mary') or merely in apposition to it (i.e. 'with-his-wife, Mary').

The same questions arise when associative kin terms function as main predicate heads. (506)a is relatively unproblematic, but, in (506)b, it is unclear whether sixurlmirk 'Soreface-Hunter' is the object of lasčih 'parent with child', or in apposition to it.

(506)

NUUCHAHNULTH	
a?asčiḥma	?i'ḥtu'p
?asčih=ma	$2i'h^w - (\check{s})tu'p$
parent.with.child=INDIC	big-thing

'The whales were parent and child.' (NT 168.20)

b. $?ah?a ?a\lambda si$ $yu q^w a^v$ $?as čih?a\lambda si$ $si xu · 4mi \cdot k$ $?ah?a = `a\lambda = si'$ $yu q^w a^v$ $?as čih = `a\lambda = si'$ $si x^w - (q)u \cdot (t) - mi \cdot k^w$ [L] then=TEMP=1sg likewise parent.with.child=TEMP=1sg sores-on.face-getter.of `I also had my son Soreface-Hunter (Douglas) with me.' (NA 80.50-51)

Bound classificatory (or "figure-conflating", cf. Talmy 1985, 2000) roots, some which are listed in (507), is another class of noun-like roots that deserves separate mention.

(507) Classificatory roots, e.g.

M, N hup- 'roundish object'

M, N kic- 'stick-like object'

M *liq*^w-, N *laq*^w- 'soft, yielding mass (e.g. mass of wet seaweed, pile of blankets)'

M N tic- 'fabric-like object spread out'

M, N *tu*- 'board'

N ni- 'hollow object; container'

M pa-, N tu- tuk.- 'mass of small, roundish objects (e.g. pebbles, coins, clods of dirt)'

M?, N ta'- 'pole-like object sticking up, out'

M, N $\dot{t}a$ - 'object on a line'

The most characteristic use of these roots is as base in a derived verb with a restrictive path or locative suffix describing the movement or location of an entity of the sort they denote, which can appear in an independent subject or object RP.

(508) NUUCHAHNULTH a. ...*łagsaňap*

łaqsańap	łu [,] csme?i	₽intmis?i
łaą ^w –sańap	łu∙csma = ?i′	₽int–mis=?i
soft.mass-on.beach.CAUS.PERF	woman=ART	snot-collectivity.of=ART

'The woman threw the snot down on the beach.' (NT 90.8)

b.	tu'si?aλ	ta'ne'?i
	$tu-a$'s $-i\lambda = a\lambda$	ta'na' = ?i'
	mass.of.small.objects-on.horizontal.surface-PERF=TEMP	money=ART

'The money was spread out on it (the table).' (NT 146.13)

c. $tu\dot{c}u'$ pu'2i' $tu-\dot{c}u'$ pu' = 2i'mass.of.small.objects-in.container gun=ART

'The gun was loaded with shot.' (lit. 'had a mass of small objects inside') (NA 392.28)

d.	łu hawi ?aλma	?aḥ?a'?aħ	ŧu?uk		
	$4u - a \dot{h} a w i \lambda = \dot{a} \lambda = m a \dot{h}$	$ah?a' = a\lambda$	ŧu−?uk		
	board-in.front.PERF=TEMP=INDIC	then=TEMP	board-DUR		
	'Boards were set before them.' (NA 240.45) ¹¹⁸				

They can, however, be used with only an aspect formative, and the resulting verb then expresses

general movement of an entity of the class in question:

(509) MAKAH a. $\hat{\lambda} apq \hat{s} \hat{c} a \hat{\lambda} its$ $\hat{\lambda} apq - \hat{s} i \hat{\lambda} = \hat{c} a \hat{\lambda} = (b) it = s$ mushy.substance-PERF=TEMP=PAST=INDIC.1sg 'I threw it (something soft and mushy)'

b. $\frac{i}{aq} \overset{i}{si} \overset{j}{a\lambda} \qquad \overset{i}{\lambda} \overset{i}{isa} \overset{i}{ad} \overset{i}{soft.mass-PERF=TEMP} \overset{i}{b} \overset{i}{slaket}$

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'The blankets were thrown (down).' (NT 170.13)

8.2.2 Numerals, quantity words, and quantifiers

Words in this class are easily distinguished from other nominal classes by their semantics, but also by their ability to take enumerative suffixes (e.g. M, N -*ciq* '... many long, thin objects), which words of other classes (with sporadic exceptions) cannot.

(510) Numerals, e.g.

- 1 M $\dot{c}akwa'?ak^w$, N $\dot{c}awa'k^w$; N $\dot{n}up$ as base for enumerative suffixes
- 2 M, N $2a\lambda a$ 'two'; $2a\lambda$ as base for enumerative suffixes
- 3 M wi'yu, N qačća ~ qacća
- 4 M *bu*', N *mu*'
- 5 M šuča, N suča
- 10 M $\lambda a x^w a$, N hay u
- 11 M $\lambda a x^w a$?iš cakwa ?ak^w, N hayu ?iš cawa k^w (?iš 'and')
- 12 M λax^wa ?iš ?aλa, N hayu ?iš ?aλa
- 13 etc.
- 20 M, N caqi'c

Note that multi-word numerals like N *hayu ?iš suča* 'fifteen, ten and five' do not a form a syntactic constituent. Evidence for this claim comes from a) the locus of suffixation when a nuclear suffix has semantic scope over a multi-word numeral and b) from the placement possibilities of the individual words of the numeral within larger structures. Only the first word of a multi-word numeral need be affixed by a nuclear suffix, and this affixed word may be separated from the other words of the numeral by grammatically unrelated material. For example, in (511), the verbalizing suffix N - '*i*'s 'consuming ...' applied to *hayu ?iš suča* 'fifteen' produces *hayu's ?iš suča* 'consuming fifteen', which can be discontinuous in a sentence:

(511) NUUCHAHNULTH hayu's?apsi ya2ihte?itq haŵił ?iš suča ma'tma's yaq^{w} -'ihta = ?i'tq havu-'is = 'ap = si'haŵił ?iš suča ma?as - < t > [LR]ten-consume=CAUS=1sg one.who-at.point=DEF chief tribe-<PL> and five 'I let the leading chief of each tribe consume fifteen.' (NT 170.25)

There are also a few non-numeral quantity words:

(512) Non-numeral quantity words, e.g.

M ?akyi'q, N ?aya 'many'

M du ba, N ču čk 'both, all'

M ?idirq 'few', N kamar-... = ?is 'few, little'

Derived numeral and quantity words are formed by nuclear quantity suffixes like M, N $-irq^{w}$

many score' and N - $\dot{m}a$ ' (§5.4.2).

(513) Derived numeral and quantity words with nuclear quantify suffixes, e.g.

M, N ?aλi'q 'forty' (?aλa 'two')

M šučirq, N sučirq 'one hundred' (M šuča, N suča 'ten')

N *?irqmar* 'same amount' (*?iq* 'same; still')

M ?adis, N q^wama' 'however many, as many as'

Finally, there are free quantifier roots.

(514) Free quantifier roots, e.g.

M ?ada, N ?ana 'only'

M, N $\lambda a 2u^{\prime}$ 'another, more'

Words in these categories can appear as predicate heads in RPs with or without the article,

thus demonstrating their affinity with nouns:

(515)	a.	MAKAH $suk^{w}i\hat{\lambda}'$ $su-k^{w}i\hat{\lambda} = i$ hold-perf=IMPER.2sg	čakwa'?ak čakwa'−?ak ^w one−DUR
		'Take one!'	

b.	kabatsa'?âλit	?uda [,] kšiħqa	λax ^w
	$kabat-sa:p = a\lambda = it$	$2u-da'k^w-\check{s}i\lambda = qa:$	$\lambda a x^w a$
	known-CAUS.PERF=TEMP=PINV	so.and.so-have-PERF=SUBOR.3sg	ten

qidi'λbadax *qidi*'λ−badax dog–PL

'They found out that she had gotten ten dogs.' (HW, Dog Husband)

	NUUCHAHNULTH			
c.	kaħḥši?aħ	hinki'c	?аћа	
	$ka\lambda h - \check{s}i\lambda = a\lambda$	hinki'c	?аћа	
	visible-PERF=TEMP	wear.headmask	two	

'Two appeared wearing headmasks' (NA 276.19)

d. ma^{\$}ši?a^{\$} hayu?i q^wayaċi[•]kši?aħ $q^{w}aya\dot{c}ik-\check{s}i\hbar=\dot{a}\hbar$ $ma\lambda - \check{s}i\lambda = a\lambda \quad hayu = 2i$ tied-PERF=TEMP ten=ART wolf-PERF=TEMP

'The ten tied on (their wolf blankets) and became wolves.' (NT 127.23)

e.	?uqhýu [,] min	ťuk ^w a ?at <u>h</u>	wawa'4yaX	?aya
	$2u - (q)h\dot{y}u = (m)a = ni$	ťuk ^w a ?at <u></u> h	warł–yur [R+L] = 'a λ	?aya
	so.and.so-related.to=INDIC=1pl	Tukwa	say.PERF-PL=TEMP	many

"We are related to Tukwa people," many said.' (NA 356.36)

f.	tuxŵi�taħwe?in	ćawa [,] k
	$tux - \dot{w}i ta = a\lambda = we'in$	ćawa'–?ak ^w
	jump-move.out.of.vessel.PERF=TEMP=QUOT	one-DUR

'One jumped out of the canoe.' (NT 74.4-5)

g.	?uyu?ałwe?in	k ^w atya't	?аћа	ḥa'tḥa'k ^w aħ
	$2u - (y)u^2a^4 = we^2in$	k ^w atya't	?аћа	$ha'k^wa'\lambda - < t > [LR]$
	so.and.so-perceive.PERF=QUOT	Kwatyat	two	girl- <pl></pl>

'Kwatyat caught sight of two girls.' (NT 40.1)

h.	ġačiλsi	λ̃isał	?аћа
	$\dot{p}a-\check{c}i\lambda=si$	λ̃isał	?aħa
	give.gift.in.potlatch-PERF=1sg	blanket	two

'I gave her two blankets as a potlatch gift.' (NT 170.38)

i. kima's?at

 $kim-a's = a\lambda$

hi'ńi'Xaksuł?at?i hin-'i: $\dot{X}a$ [L]-aksu(t) = 'at = ?i' resting.chin.on.surface-on.horizontal.surface=TEMP empty.root-below-at.mouth=PINV=ART

te'?isim	?aye?i	ha?um
ta'-'is-im	?aya = ?i'	ha?um
pole.sticking.up-on.beach-thing	many=ART	food

'The chin of Beach-Pole (name of a house-post) rested on the great quantity of food.' (NA 72.46-47)

j.	suk ^w i?aħ	<i>int</i> htin?	λa?u∙?i	muksýi
	$su-k^{w}i\lambda = a\lambda$	₽int–ḥtin	<i>ћа?u</i> ' = ?i'	muksýi
	hold-perf=temp	mucus-made.of	other=ART	stone

'Mucus-Made took the other stone.' (NT 94.27)

Numerals, quantities, and quantifiers can also function as predicate heads or parts of complex heads in main clauses. Sometimes predication of numerals and other words in this class seems to involve a type of quantifier raising, whereby a word that would otherwise appear as a predicate in an RP is instead raised to main predicate position, e.g. (516)b,d.

(516)MAKAH λ̃a'yi'cux^wadi ?e'?e' *?akyirqpird* ti' *?iyax* a. $\hat{\lambda}icux^{w}adi: - \langle a'y \rangle$ [L] ?iyaxa ?e'?e' ?akyi'q = pi:t = iti' DISC many=INFER=INDIC.3sg person-<PL> DEM at 'My, there must be a lot of people here.' (RC, ANA) NUUCHAHNULTH b. **ču čk** mačit mu'?i' ču čk ma–čiλ mu' = ?i'all bite-PERF four=ART 'All four bite him.' (NA 66.41) c. Pavart wikmihsap?i ?imtši\u00c7qu'... $2aya = a\lambda$ wik-mihsa = ap = 2i $2imt-ši\lambda = qu$ many=TEMP not-want.to=CAUS=ART sing.words.of.song-PERF=COND 'Many did not want the words to be sung.' (NA 74.46) d. *?aya ma* tiłšiλ yu'yu'łu?ił?aqsup ťa[·]tne?is... ḿa'tił–šiλ [R]-yurlu?il.-.'aqsup tana-<t> [L] = ?is ?ava captive-PERF PL-Ucluelet-woman.of child-<PL>=DIM many 'Many Ucluelet women and children became captive.' (NA 388.8) e. caqi'cma ?iš qačća caqi'c-ma' ?iš qačća

> and three 'There were twenty-three.' (NA 236.31-32)

Southern Wakashan is apparently cross-linguistically unusual in having numerals as predicate heads: it is an exception to Greenberg's (2000: 770) generalization that "most languages show a reluctance to predicate numerals".

8.2.3 Independent pronouns

twenty-INDIC

Southern Wakashan has a set of independent first and second persons pronouns. Nuuchahnulth pronouns have distinct forms for referential, predicative, and possessive functions (Table 25). The

simple referential form of the pronoun appears when it is base (in its combining form) to lexical suffixes in a derived word, or when it is used (in its free form) in a subject or object RP. The examples in (517) demonstrate the first of these environments. (517)a shows si- 'I, me' in a derived

Table 25. Nuuchahnulth independent pronouns

	Referential	Predicative	Possessive
1sg	si-, siýa 'I, me'	<i>siýarq</i> 'it is I'	siýa's 'mine'
pl	<i>ni'ḥ-, ni'ẁa</i> 'we, us'	ni'ŵa'q 'it is we'	ni'wa's 'ours'
2sg	sut-, suwa 'you (sg.)'	suwarq 'it is you (sg.)'	suwars 'yours (sg.)'
pl	<i>si'ḥ</i> ^w -, <i>si'ŵa</i> 'you (pl.)'	<i>si'ŵa'q</i> 'it is you (pl.)'	si'wa's 'yours (pl.)'

verb with the verbalizing suffix - 'a?a [LR+L] 'doing in revenge of ..., for ...'s sake', and (517)b shows *sut*- 'you (sg.)' in a derived verb with the verbalizing suffix -*?i:p* 'give a gift to ... (perf.)'.

(517)	a.	0 0	<i>sirsir?a?a</i> <i>si-`a?a</i> [LR+L] 1sg-do.for.X's.sake
		'Don't do it becaus	se of me!' (NA 336.36)

b.	sut?i [.] maḥ	łučšiλ	kapčo'k
	sut-2i:p=(m)a:=ah	łuč−šiλ	kapčuk
	2sg-give.gift.to.PERF=INDIC=1sg	woman-PERF	Kapchuk.VOC

'I give you a woman (in ransom), Kapchuk.' (NA 161.13)

Independent pronouns generally occur in subject RPs only for emphasis and contrast (518)a-b.

(518)	a.	NUUCHAHNULTH ni' wika $\lambda e^{2}ic$ ni' wik = ' $a\lambda = (m)$ DISC not=TEMP=INDIC=		suwa suwa 2sg	wi [•] caqλ wi [•] caqλ shy.about.doing.sth
		'See, you on your part do it).' (NT 200.7)	o not think in	t too mu	ch (i.e. aren't hesitant about undertaking
	b.	tu· huk ^w $ahtuh-uk = (m)a$ · $=ahafraid-DUR=INDIC=1sg$	siýa siýa 1sg		

'I for my part am afraid.' (NA 74.45)

Their use in object RPs is more common and not pragmatically marked:

(519) NUUCHAHNULTH

- a. $ka'\lambda hsaja\lambda si$ suwa. $ka\lambda h-sa'p-[L+S] = 'a\lambda = si'$ suwa visible-CAUS.PERF- GRAD=TEMP=1sg 2sg 'I was introducing you.' (NA 75.29)
- b. $wik^{2a}q\lambda in$ $wi^{c}a^{k} ha^{i}i^{d}$ $si^{w}a ha^{w}e^{h}$ $wik = 2a;q\lambda = (m)a^{r} = ni$ $wi^{c}a^{k} ha^{i}i^{d}$ $si^{w}a ha^{w}i^{d}-i:h$ not=INTENT=INDIC=1pl hesitant ask.to.accompany 2pl chief-PL.VOC 'We shall not be hesitant in asking you, Chiefs.' (NA 317.2-3)

When a pronoun is to function as the P (patient-like) argument, it often occurs as base in a derived verb with the verbalizing suffix $-(\check{c})i i [L]$ 'do to ...' rather than appearing as an independent word; this is actually the most common circumstance in which pronouns appear in derived verbs. The derived P-encoding verb usually occurs as a bare absolute predicate following the transitive predicate denoting the main action (§4.6.1.1).

- (520) NUUCHAHNULTH a. $qahsa p ?a q \lambda a h$ surtit... $qah-sa p = ?a : q \lambda = (m)a := a h$ sut-(\check{c})it [L] dead-CAUS.PERF=INTENT=INDIC=1sg 2sg-do.to 'I shall kill you.' (NT 126.22-23)
 - b. $iaiak^{win}?a q \lambda a \lambda a h$ $iaiak^{win}?a q \lambda a h$ $iaiak^{win}?a$

Subject RP elements under certain types of focus, especially identificational and contrastive focus, can appear as nominal predicates in cleft-like constructions. When pronouns do so, they take their predicative form, expanded by the formative $-a \cdot q$.

(521)

)		NUUCHAHNULTH		
	a.	?aḥ?a'?aħsi	siýar¥aX	ciqšiλ
		$?ah?a' = `a\lambda = si'$	$siya'q = a\lambda$	ciq—šiλ
		then=TEMP=1sg	1sg.PRED =TEMP	speak-PERF

'Then I myself spoke.' (NT 164.26)

b. ...**siýa·?a\lambdaa**h siýa·q = 'a λ = (m)a· = ahlsg.PRED=TEMP=INDIC=1sg ya·q^wiłit?itqak yaq^w-(č)ił[L] = (m)it = ?i·tqa = k one.who-do.to=PAST=DEF=2sg *Puchimihsa... Pu-chi-mihsa* so.and.so-married.to-want.to

'It is I, the one you wanted to be married to.' (NA 147.26-27)

c. ...? $a'xnimah^{119}$?a'ni-<x>=(m)a'=ahreally-<KWAT>=INDIC=1sg 'It was really I that killed the chief of the Wolves.' (NT 32.9)

When the referent indexed by a pronoun is a possessor, the pronoun takes its possessive form marked by the formative *-a*'s. These possessive forms are uncommon in the texts, and their syntax has not been thoroughly investigated. In (522)a-b the possessive pronouns occur in main nominal predicates, and, in (522)c, the possessive occurs in an RP.

(522)	a.	NUUCHAHNULTH wikqa's siya's $\dot{t}a\dot{n}a$ ya' $\dot{t}a't\dot{n}a'kqas$ wik=qa'=s siya's $\dot{t}a\dot{n}a$ ya' $\dot{t}a\dot{n}a-=?ak=qa'=s$ not=SUBOR=1sg 1sg.POSS child DEM child- <pl>=POSS=DEF=1sg</pl>	
		'These children of mine are not my sons.' (NA 336.33)	
	b.	$ \begin{array}{lll} hamup \check{s}i\lambda suk & si \check{c}i \dot{t} & yaqqa \cdot s & nani \cdot qsu & su \check{w}a \cdot s \\ hamup - \check{s}i\lambda = su \cdot k & si - (\check{c})i \dot{t} \ [L] & yaq^w = qa \cdot = s & nani \cdot qsu & su \dot{w}a \cdot s \\ recognize - PERF = 1sg & 1sg - do.to & one.who = DEF = 1sg & grand father & 2sg. POSS \end{array} $	
		'You recognize me, I who am your grandfather.' (NA 323.41-42)	
	c.	$2uk^{w}iqs$ $2a\lambda uku shsuk$ $sijars$ $2i$ $ku na'$ $2u-\underline{\check{c}}i-\dot{a}hs = \dot{a}\lambda = uk = (w)us = h = su'k$ $sijars$ $2i'$ $ku na'$ so.and.so-at-in.vessel=TEMP=POSS=DUB=SUBOR=2sg $1sg.POSS=ART$ schooner	
		<i>p̀atquk</i> <i>p̀atq^w–uk</i> goods–DUR	
	'Your goods would be carried in my schooner.' (NT 144.34-35)		

It may be the case that the regular possessive construction (with the possessive clitic = uk = 2akand Definite Relative mood, §7.2.16) is not allowed as a (syntactic) nominal predicate; if so, a major function of the possessive pronoun construction in (522)a-b would be to fill the expressive gap. Makah pronouns, shown in (523), are apparently particles, taking neither lexical suffixes nor clitics.

(523) Makah independent pronouns

lsg *siya*[,] pl *duwa[,]du*[,] 2sg *suwa*[,] pl *suwa[,]č*

They are rarely used and only appear under conditions calling for special emphasis.

(524)	a.	MAKAH wikałeyiks wik-ał = 'eyi not-included=F		siya' siya' lsg
		'I won't go m	yself.' (Jacoł	osen 1979a: 124 with modified glosses)
	b.	<i>da'csas</i> <i>da'csa=s</i> see=INDIC.1sg 'I even see my	even	siya' 1sg

8.3 Verbs

Verbs are formed in the following ways. First, there are a handful of free verb roots (some of which may contain aspect or lexical suffixes etymologically).

(525) Free verb roots, e.g.

M ?a?artu, N ?a?artu: 'ask'

N hahi či 'gathering a certain kind of black snail-like shell-fish called hayistup'

M babuyak^w, N mamu'k 'working'

M *ba*·*ba*·*skad*, N *ma*·*ma*·*kin* 'playing with shells, dolls, playing in the manner of little girls'

M, N waha' k^w 'go (perf.)'

M warwida 'hunting game in the forest', N warwin 'hunting deer in the manner of wolves'

M, N we?ič 'sleeping'

Second, and more frequently, verbs are formed by aspectual morphemes on bases of any class:

(526) Verbs formed by aspect morphemes, e.g.

M, N $a\check{c}\check{s}i\lambda$ 'wedge up' < bound verb root $a\check{c}$ - 'wedge up' + $-\check{s}i\lambda$ perfective

N $2inks yiqnit si\lambda$ 'get stocked up with firewood' < verb 2inks yiqnit 'stocked with firewood' + $-si\lambda$ perfective; the underlying base consists of noun root $2ink^w$ 'fire' + nominalizing suffix -(c)syi 'medicine for ...' + verbalizing state suffix -nit 'stocked with ...'

N $\lambda a 2u' \dot{c} i \lambda$ 'come to be another' < quantifier root $\lambda a 2u'$ 'another' + -*i*: $\dot{c} i \lambda$ inceptive

M *ba*', N $\dot{m}a$ ' 'holding in the teeth' < bound verb root *ba*-, $\dot{m}a$ - 'hold in teeth, bite' + [L] continuative

N $\dot{n}i\lambda k \dot{s}i\lambda$ 'turn inside out' < bound verb root $\dot{n}i\lambda k$ - 'turn inside out' + - $\dot{s}i\lambda$ perfective N $ti\dot{c}a\dot{c}i\lambda$ 'come to life' < root $ti\dot{c}$ 'alive' + - ' $a\dot{c}i\lambda$ inceptive

M $\dot{q}idi'\lambda\dot{s}i\lambda$ 'become a dog' < noun root $\dot{q}idi'\lambda$ 'dog' + - $\dot{s}i\lambda$ perfective

A word on the morphological status of aspectual formatives as inflectional or derivational elements in Nuuchahnulth is in order at this point. In this dissertation, word class terms like *noun* and *verb* refer to classes of lexemes. To claim that M $\dot{q}idi\cdot\lambda$ 'dog' is a noun and $\dot{q}idi\cdot\lambda ši\lambda$ 'become a dog' is a verb is therefore also to claim that the perfective aspect suffix is changing the lexeme class of the base.¹²⁰ The power to change lexeme class is generally seen as a property of derivational, rather than inflectional morphemes. According to such a conception of the inflectional/derivational distinction, it would seem that Southern Wakashan aspect must be considered derivational. Further support for this idea comes from the frequent occurrence of aspect before affixes that would seem uncontroversially derivational, as in the Makah noun (527) λa'λa'škateyak
 λaškat-(y)a [RepR]-yak^w
 rigid-REP-thing.for
 '(an) iron'

where the nominalizing suffix $-yak^w$ 'thing, instrument for ...' occurs on a base already containing the repetitive aspect formation. In terms of the analysis of word structure given in Figure 2 (Chapter 5), the word consists of the bound root $\lambda a \bar{s}kat$ - 'rigid, stiff' as base followed by the repetitive aspect to form an unextended word $\lambda a \bar{\lambda} a \bar{s}kata$ 'making rigid', followed in turn by the peripheral suffix $-yak^w$, which forms an expanded unextended word. ($-yak^w$ is one of a handful of lexical suffixes that can function as either core or peripheral suffixes.)

Third, derived verbs are formed by bases of any class with nuclear verbalizing suffixes:

(528) Derived verbs, e.g.

M ?akyi'ks, N ?ayi'cs 'bringing many < quantity root ?akya-, ?aya 'many' + -i:ks, -i:cs 'bringing, carrying ... along'

N cuxnit 'abounding in coho salmon' < noun root cux- 'coho' + -nit 'stocked with ...'

M $\check{c}e_{2i'ks}$ 'drinking water' < noun root $\check{c}a_{-}$ 'water' + - 'i'ks 'consuming ...'

- M *qalabitqču*', N $\hat{\lambda}im\check{s}yu$ ' 'boiled' < bound verb root *qalabitq-*, $\hat{\lambda}im\check{s}$ 'boil' + -*ču*' -yu' 'having been ... -ed'
- M ha?ubadak, N ha?umnak 'having food' < noun root ha?uba, ha?um 'food' + $-da^{k^{w}}$, $-na^{k^{w}}$ 'having ...'
- M *?ukti*'p, N *?u'k^wit* 'doing to, in reference to so-and-so' < deictic pronoun root *?u-* 'soand-so' + -(*k*)*ti*:p, -(*č*)*it* [L] 'do to ...'

(529) shows verbs as predicate heads of main clauses.

(529) MAKAH a. $\check{c}aqasi?i:du:?a\lambda$ iu?ai $\check{c}aq-asi?i:-du:p='a\lambda$ iu?aipush-under.water-CAUS.PERF=TEMP board

'He pushed the board down in the water.' (HI, Qweti and Raven)
b. *kaciyer?is xu' kac-iya:* = '*is xu'* pinch-give.PERF=IMPER.2sg DEM 'Give me a piece of that!'

Give me a piece of that:

с.	dačš?aħwa [,] d	yu'yu	λu kšu d
	$da\check{c}$ – $\check{s}i\lambda$ = ' $a\lambda$ = wa: da	yu'yu'	ћи [,] kšu [,] da
	look-perf=temp=quot.3sg	awhile	raven

'Raven looked for a while.' (HW, Raven and his Beak)

NUUCHAHNULTH

d.	?a?artur?aħqurwe?in	witwa [,] k?i
	$a?a:tu:=`a\lambda = qu:=we:?in$	$wi?ak^{w} < t > [R] = ?i'$
	ask=TEMP=COND=QUOT	warrior- <pl>=ART</pl>

'The warriors kept asking him.' (NA 358.1)

e.	waha kma <i>λa</i> '	nuptaqimł
	waha'k ^w =ma'= λ a:	nup–(<u>š</u>)taqimł
	go.PERF=INDIC=again	one-X.many.bunches

'One bunch went there again.' (NA 238.25)

f. $2u \cdot hta \cdot sa$ $tux \cdot si\lambda$ $ci \cdot ci \cdot q \cdot hanim$ $2a \cdot si\lambda$ $2u \cdot hta \cdot sa$ $tux - si\lambda$ ciq - hin [LR+L] - im $2a \cdot c - si\lambda$ immediately jump-PERF speak-at.end-thing wedge.up-PERF

'Speak-Ends (man's name) jumped right away and blocked it (the roller).' (from NA 370.1-2)

g. $2inks\dot{y}iqnit\dot{s}i^{2}a\lambda in$ $2ink^{w}-(c)s\dot{y}i-q-nit-\dot{s}i\lambda = 'a\lambda = (m)a^{*}=ni$ fire-medicine.for-BFR-stocked.with-PERF=TEMP=INDIC=1pl

'We got stocked up with firewood.' (NA 235.32)

h. $casircsu?a\lambda$ iarthe?is?i $cas-i:cs-u\lambda = 'a\lambda$ iaha - <t> [L] = ?is = ?irchase-bring.along-PERF=TEMP child-<PL>=DIM=ART

'He chased the children along.' (based on NT 96.20)

i. $macmayux^{w}atqircuk^{w}ah$ $macmayux^{w}at-q-i:c=uk=(m)a^{*}=ah$ supernatural.spearsman-BFR-belong.to=POSS=INDIC=1sgDEM song tama-thing.for

'This tama song of mine belongs to the supernatural spearsman.' (NA 85.6-7)

j. $2uk^{w}irlah$ $2ak^{y}ak...$ $2u-(k^{w})irl=(m)a^{r}=ah$ $2ak^{w}-y^{r}ak^{w}$ so.and.so-make=INDIC=1sg cut.with.knife-thing.for

'I am making a knife.' (NT 46.29)

(530) shows denominal verbs, that is, verbs derived from nouns by non-durative aspect suffixes, as predicate heads of main clauses. The typical meaning of such verbs is perfective change of state, i.e. 'become, turn into NOUN', although other meanings are possible with certain sub-classes of nouns.

- MAKAH a. $\dot{q}idi^{\lambda}\lambda^{s}a\lambda$ $\dot{q}idi^{\lambda}-\dot{s}i\lambda = a\lambda$ dog-PERF=TEMP 'He became a dog.' (HW Dog Husband)
- NUUCHAHNULTH b. $ha \cdot \dot{w} i i a \lambda \dot{x} i ? a \lambda$ $ha \cdot \dot{w} i i a \lambda - \dot{x} i \lambda = 'a \lambda$ young.man-PERF=TEMP

'He grew up to be a young man.' (NT 15.6; see also NT 92.8, NA 343.4, etc.)

c. $\frac{2}{a'tu\check{s}\check{s}i\hat{\lambda}} = \hat{a}\hat{\lambda}$ $\frac{2}{a'tu\check{s}-\check{s}i\hat{\lambda}} = \hat{a}\hat{\lambda}$ deer-PERF=TEMP

'He had turned into a deer' (NT 46.40)

λapisimči?aλ
 λapisim-čiλ = 'aλ
 racoon-PERF=TEMP

'He had become a raccoon.' (NT 48.16)

(531) shows verbs as predicate heads in RPs.

(531) макан

a. $kudu'ksa'?a\lambda$ **we?ičiq** xad?awič $kudu'k-sa:p = `a\lambda$ we?ič = `iq $xad?ak^w = `ič$ awake-CAUS.PERF=TEMP sleep=ART girl=DIM

'He woke the sleeping girl.'

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b. $n'u'h\dot{s}i?at$ qu'?as?i $qah\dot{s}i\lambda$... $n'u'h-\dot{s}i\lambda = at$ qu'?as=2i' $qah-\dot{s}i\lambda$ bury-PERF=PINV person=ART dead-PERF

'A corpse (lit. person who died) was buried.' (NA 25.38)

c.	wałsa paźatma	mˈaːmˈaːtpiħit?i	ḥayu
	$wat - sa'p = a\lambda = at = ma'$	$[\mathbf{R}] - \dot{m}a'tpi\lambda = (m)it = 2i'$	ḥауи
	go.home-CAUS.PERF=TEMP=PINV=INDIC	PL-captive.PERF=PAST=ART	ten

₽a'ḥu's ʔatḥ ₽a'ḥu's ʔatḥ Ahousaht

'The ten Ahousahts who had been captured were allowed to go home.' (NA 449.13)

d. *minarti?i* **puxnit** *minarti = ?ir pux-nit* fishing.bank=ART halibut-stocked.with

'the halibut bank' (NA 21.47)

e. $\dot{p}a\check{c}i?at$ $\dot{p}a-\check{c}i\lambda = `at$ give.in.potlatch-PERF=PINV Alex so.and.so-give.PERF=PINV eat-place.for

ti'pin **qatmaqḥtin** *ti'pin* qatma-q-ḥtin table oak-BFR-made.of

'Alex was potlatched an oak dining table.' (NA 260.1)

f. $2u^2uyaqh^2a\lambda si$ $\dot{c}i^{\prime}qa^{\prime}$ $q^{w}ayaci^{\prime}c^{2}i$ $\dot{c}i^{\prime}q\dot{y}ak...$ 2u-iyaqh [R] = $a\lambda = si$ $\dot{c}i^{\prime}q - (y)a^{\prime}$ $q^{w}ayac - i^{\prime}c = 2i$ $\dot{c}i^{\prime}q - \dot{y}ak^{w}$ so.and.so-sing=TEMP=1sg chant-CONT wolf-belong.to=ART chant-thing.for

'I used a wolf chant in chanting.' (NA 143.3)

g. $2u'ca\lambda ma$ $2u-i:c = a\lambda = ma'$ so.and.so-belong.to=TEMP=INDIC DEM song PL-killer.whale-INCEP-ITER=QUOTART

q^wayaći'k q^wayaći:k wolf

'This song belongs to the wolves who are said to turn into killer-whales.' (NA 60.51-52)

As noted, RPs with a verbal predicate head must have an article unless a nominal subject is also

present.

(532)

a. da's?itsda'sa = 'it = ssee-PINV=INDIC.1sgda'sa = 'it = s $sit_on.ground=ART$

'The one sitting on the ground sees me.' (Jacobsen 1979a: 123 with modified glosses)

	NUUCHAHNULTH	
b.	<i>ћuyači</i> ?а <i>ћ</i>	qaḥšiえit?i
	$\lambda u - a \check{c} i \lambda = a \lambda$	$qa\dot{h}-\check{s}i\lambda = (m)it = ?i'$
	good-INCEP=TEMP	dead-PERF=PAST=ART

'The one who had fainted (lit. died) got well.' (NT 122.8)

c. $hawi'/a\lambda$ cirqcirqe?i $hawi'-\lambda = a\lambda$ ciq-(y)a [RepR] = ?i' finish-PERF=TEMP speak-REP=ART

'The one who was speaking finished.' (NT 154.26)

d. $k^{w}a'a'p'atuk$ $k^{w}a-y'a'p = 'at = uk$ break-CAUS.PERF=PINV=POSS spear herring.spawn-get=PAST=ART

'The spears of those who had come for herring spawn were broken up.' (NA 17.7)

e. ...we?iču?a λ **hark**^war λ tir?ite?i we?ič-u λ = 'a λ hark^war λ -tir?it [L]-(y)ar = ?ir sleep-PERF=TEMP girl-pretend.to.be-CONT=ART

'The one pretending to be a young woman went to sleep.' (NT 80.9)

f.	naša'k	q ^w ir?iqsurči λ ?i
	naša'k	q ^w i'?iqsu–i:čiħ = ?i'
	glad	father.in.law-INCEP=ART

'The new (lit. the one just become a) father-in-law was glad.' (NA 161.25-26)

8.4 Predicate modifiers

The class of predicate modifiers is comprised of a small set of adverb-like modifiers (§4.3.4):

(533)	Predicate modifiers, e.g.
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N ?aḥ?a' 'then'	M hu'?axi, N ?i'qhi' ʻstill'
M ?a'di, N ?a'ni 'really, in fact'	M ku'wił, N kuwiła 'doing as directed'
M yu'yu', N ča'ni 'for a while, temporarily'	N wa' $\hat{\lambda}$ 'now, then, thereupon'
M hirsuba, N hirk ^w ał 'almost'	M yu'q ^w a', N ýu'q ^w a' 'likewise'

A few words from other classes may sometimes also function as predicate modifiers, e.g. M, N $\frac{i}{a}k\dot{s}i\lambda$ '(as a verb) have pity on, (as a predicate modifier) please!'. Predicate modifiers cannot serve as predicate head; they must be accompanied by a word of another class that functions as head. They are also are structurally distinguished by their ability to occur as post-head modifiers within the predicate (534)a. Otherwise they appear as pre-head modifiers (534)b. See §4.3.4 for details on clitic position in this construction.

(534)MAKAH a. As post-head modifier ha?ukš?aħitid ?a'd $ha_{luk} - \check{s}i\lambda = \check{a}\lambda = (b)it = id$?a'di eat-PERF=TEMP=PAST=INDIC=1pl in.fact 'We really did eat.' b. As pre-head modifier ?a'd?atitid ha?ukš?aħ $?a'di = 'a\lambda = (b)it = id$ $ha?uk-\check{s}i\lambda = `a\lambda$ really=TEMP=PAST=INDIC=1pl eat-PERF=TEMP

'We really did eat.'

Predicate modifiers are particle-like in certain respects. They generally lack inherent aspectual implication in their meanings or potential for aspectual marking, and they have limited poten-

tial for taking lexical suffixes.

¹ Makah is the usual English rendering of the Clallam (a neighboring Salish language) designation for the tribe. In their own language, the Makah call themselves $q^{widičča?artx}$ and their language $q^{wir}q^{wir}diččaq$. Both words are regular formations based on the root $q^{widičča?qr}$, a place designation of uncertain reference (Renker & Gunther 1990: 429). The question of an appropriate name for the other language appearing in the dissertation is difficult. The traditional name in the anthropological and linguistic literature, Nootka, is not of native origin and disliked by the community. In 1978, the Southern Wakashan people of Canada adopted the name Nuu-chah-nulth (nučarnut 'mountain range') (Arima & Dewhirst 1990: 410). However, as an ethnonym, this name actually subsumes peoples speaking two languages, those speaking the language formerly referred to as *Nootka* and those speaking the closely related Nitinaht or Ditidaht. I follow Nakayama (1997a, see especially p. 2) in using *Nuuchahnulth* in a restricted sense as a linguistic designation to refer only to the language formerly known as *Nootka*. Note that I simplify the spelling by eliminating the hyphens. Ditidaht is referred to as such.

² Makah has not been used as a medium of daily communication for decades, and, at the time of writing, there were only three fluent speakers, all elderly.

³ Interestingly, in phoneme charts given in his M.A. and Ph.D. dissertations (1931: 10, 1933: 4), Swadesh did group /2/ and /2/ with the glottalized consonants. The latter work agrees with *Nootka Texts* in grouping the affricates with the stops, but the former has them listed separately.

⁴ Sapir and Swadesh refer to them as "voiced continuants"; Rose and Nakayama call them "resonants".

⁷ A syllable consists of an obligatory onset consonant followed by a single nuclear vowel, long or short. The coda may contain zero, one, or more consonants (Sapir & Swadesh 1939: 13, Stonham 1994a: 76). Consequently, a nasal (or any other consonant, for that matter) is in the coda if it immediately precedes another consonant, or occurs in word-final position.

⁸ In early works, Sapir wrote the murmur vowel with either 'i', e.g. -qEmit 'round thing' in (1911a: 16) (-qimt in current orthography) and *inikw-ihl* 'fire in the house' in (1921) ($2ink^{w}it$ in current orthography), or with 'i', e.g. ' $un^{i}k$ 'fire' in (1924).

 9 [L] indicates the suffix requires the first vowel of its base to be long. See §3.3.1. The colon diacritic is explained in §3.1.

¹⁰ This rule correctly places primary accent in Makah, but there may be secondary accent at work as well since there are sometimes perceived prominences in addition to the primary accent, especially on long vowels. It is unclear whether these are merely phonetic correlates of vowel length or part of the accent system. Accent in Makah is stress accent, which is probably the case in Nuuchahnulth as well.

¹¹ Wilson (1986) formulates a similar rule in metrical terms. See also Stonham (1994a, b).

¹² Jacobsen (1969b: 13-14) also discusses Sapir & Swadesh's (1939) treatment of labialization.

¹³ Vowel-glide contraction also operates synchronically in some cases. See, for example, discussion of (65)b in §3.3.1.

¹⁴ However, caution is required here because Makah vowel-glide sequences do not always correspond to persistently long vowels in Nuuchahnulth. For example, corresponding to the Makah suffix - $\check{c}eyat$ '... many days' we find Nuuchahnulth - $\check{c}i$ 't, which contains a long vowel that neutralizes as normal.

¹⁵ -*ink* is derived from the underlying form $-(\check{c})ink^w$ by other processes. See below and §3.3.8. Incidentally, a more accurate, but also more cumbersome, gloss for *mak^w*- is 'conduct a commercial exchange, esp. buy'.

¹⁶ There are apparent exceptions in this environment, e.g. mak?u'kt 'purchased goods' ($< mak^w - + -.?u'kt$ 'obtained by ...').

¹⁷ For exceptions see §5.5.4.

¹⁸ There are several other templates in addition to those listed in here that appear in aspectual formations (e.g. [RepR], [IterL]). These are described in Chapter 6.

¹⁹ The [LR] abbreviation is introduced in Jacobsen (1997a) as a substitute for Sapir and Swadesh's original symbol [R·].

²⁰ See examples (66) and (69) below.

²¹ This process, traditionally referred to as "hardening" by Wakashanists, occurs in both branches of Wakashan, and is one of the best known aspects of the phonology. Confining ourselves first to sources that deal only or primarily with Nuuchahnulth, we can cite (among others) Sapir (1911a: 16; 1924: 82, note 1, 90, note 62; 1938), Sapir & Swadesh (1939: 238), Swadesh (1933: 6), Rose (1976, 1981: 18-19), Nakayama (1997a: 16-19). On hardening (glottalization) in Ditidaht, see Swadesh & Swadesh (1933: 200), and, for Makah, see Jacobsen (1996) and §3.4.2.

⁵ Sapir and Swadesh label the "Mid" row "Mid-wide", the "Central" column "Back", and the "Back" column "Back Rounded".

⁶ This, incidentally, is the reason Sapir & Swadesh (1939) represent the high back vowels with the symbol 'o', rather than 'u'. The mid back vowels are represented by them with open o. According to Sapir & Swadesh (1955: 4), by the time *Nootka Texts* was in press, Sapir had decided 'u' was more appropriate. This has been the standard symbol for the high back vowels since Sapir & Swadesh (1955).

²⁴ Sapir & Swadesh (1939: 238) cite $\lambda u \dot{y} as$ 'good on the ground', but this form is not attested in the corpus. $\lambda u \dot{t} as$ is found at NA 15.18.

²⁵ Sapir (1938, reprint 1949: 236), Sapir & Swadesh (1939: 237), Rose (1981: 22-23)

²⁶ Examples (90) and (91) are from Sapir & Swadesh (1939: 236).

²⁷ Boas (1947: 273), Lincoln & Rath (1980: 199). Boas' orthography has been converted to the one used in this dissertation.

²⁸ Boas (1947: 323), Lincoln & Rath (1980: 253)

²⁹ Boas (1947: 223)

³⁰ Final /a/ is present underlyingly, but does not appear in the surface form due to a rule of final vowel deletion in Makah (§3.4.3) (cf. also Jacobsen 1971).

³¹ Boas (1947: 238), Lincoln & Rath (1980: 111)

³² This, incidentally, raises the question of the historical source of modern Southern Wakashan non-labialized velars, which, with the exception of /x/, are by no means rare in the present day languages. That is, if PW velars became alveo-palatals, whence the velar in morphemes like the N, M root ka- 'stick-like object protruding'?

 33 TRANS = transitivizing suffix used with stative or intransitive verbs (Boas 1947: 241, #6); NOM = nominal suffix (Boas 1947: 323). Thanks to Emmon Bach for checking my Kwakwala forms. He drew my attention to the fact that Boas (1947: 353) erroneously writes the 'lick' root in (120)c with a plain voiceless velar stop. I have substituted the correct glottalized form per Lincoln and Rath (1980: 244).

³⁴ See Haas (1969: 111-112, 115-120) for discussion and examples of similar correspondences between Nuuchahnulth and Ditidaht.

³⁵ This word, like many others with original $*/x^{w}/$, now contains morphophonemic $/h^{w}/$ (§3.3.2).

³⁶ Makah voiceless stops undergo the allophonic process of coda aspiration described for Nuuchahnulth in §2.1.

³⁷ This example and the next are found on page 16 of a revised version of Jacobsen (1996) in Jacobsen's possession.

³⁸ Jacobsen (1996) indicates these segments with a capital barred-l.

³⁹ Jacobsen (p.c.) has recorded this suffix as - 'a and - 'i. The - 'u form appears in my data.

⁴⁰ This example is found on page 9 of a revised version of Jacobsen (1996) in Jacobsen's possession.

⁴¹ See §2.5 for accent.

⁴² Some speakers change /a' preceding /w/ to /o' so they would have [da:{o:^w]}.

⁴³ Interestingly, Ditidaht shows similar patterns of syncope except that, in Ditidaht, it is the second of the two vowels that deletes rather than the first. See Swadesh & Swadesh (1933).

⁴⁴ This first-syllable shortening sometimes seems to apply also in words that have undergone epenthesis (§3.4.3).

⁴⁵ More fully translated in Makah as 'good, rich tasting, full of fat (said of shellfish)'.

⁴⁶ Actually, the question of whether Makah, Nuuchahnulth, and other languages with lexical verbalizing suffixes can be characterized as incorporating is controversial. I am agreeing with the

 $^{^{22}}$ Cf. also Sapir's (1938, reprint 1949: 231-32) discussion of the historical origins of glottalization, where he argues that it is unlikely to have been simply a result of coalescence of consonant + glottal stop clusters.

²³ Like glottalization (§3.3.2), lenition (referred to as "softening" by Wakashanists) is a well described process, and the two are often treated together. Many of same sources are relevant: Sapir (1924: 92, note 84; 1938), Sapir & Swadesh (1939: 238), Swadesh (1933: 5-6), Rose (1976, 1981: 18), Nakayama (1997a: 19-20). On lenition in Ditidaht, see Swadesh & Swadesh (1933: 199), and, for Makah, see Jacobsen (1996) and §3.4.2.

view expressed by Sapir (1911b) and Mithun (1984), among others, that these languages are not incorporating. See Jacobsen (1993: 266-67, note 2) for discussion.

⁴⁷ Swadesh himself (1933: 11, note 1) compares them to the Latin enclitic conjunction -que.

⁴⁸ At least one of these, *yarl* 'yonder', is attested in Makah as well.

⁴⁹ See §4.4.1 for brief comments on grammatical relations. The relevant aspect of this topic here is that a subject category can be justified for Southern Wakashan.

⁵⁰ Cf. Swadesh (1933: 101-02).

⁵¹ This characteristic of Nuuchahnulth and Southern Wakashan languages contrasts sharply with the situation in Salish languages, which are generally quite careful about indicating transitivity.

⁵² However, equational clauses involving personal names, place names, and RPs that contain the article do require a copular element. See below for discussion.

⁵³ See Chapter 8, note 114 for discussion of classification of property words.

⁵⁴ Jacobsen (1979a: 114) tentatively reports a possible restriction in Makah against occurrence of the future tense clitic with nouns. However, I was able to elicit several examples of nouns with this clitic with no difficulty.

⁵⁵ A few exceptions to this generalization have turned up in Nuuchahnulth, but syntactic predicates expressing names all seem to have existential readings, e.g. *there at the door is Codfishalways-getting it* (the name of a family crest), rather than equational readings.

⁵⁶ See §8.2.3 for the forms of independent pronouns.

⁵⁷ Cf. Sapir (1924: 86, note 31)

⁵⁸ This claim does not apply to proper names, which, as discussed in §4.4.3.2, cannot function as (syntactic) predicate heads.

⁵⁹ Swadesh (1939: 82) proposes the same analysis, labeling the Nuuchahnulth article a "subject relative" in a list of modal formatives and glossing it 'he who is, does'.

⁶⁰ However, the proper analysis of Makah RPs with possessive clitics, which have essentially the same syntactic distribution as the article, (e.g. $\dot{c}apac = sis$ 'my canoe') is as yet unclear.

⁶¹ Some have suggested that referring expressions in Salish languages are also nominalized predicates or clauses. See, for example, van Eijk (1997) on Lillooet and Thompson, Thompson, & Egesdal (1996) on Thompson. Similar claims have been made for other languages of the Americas. See Comrie & Thompson (1985: 391-95) for a brief review.

⁶² Relative roots do have the special property of remaining the grammatical head of the word when affixed by nuclear lexical suffixes, which otherwise become head themselves. See §5.1.
 ⁶³ These might be considered a kind of equational clause (§4.4.3.2).

⁶⁴ Often it is also possible to express manner of action and relation in a single derived verb, with the manner expressed by the base and the relation by a suffix, e.g. M *kac-iya*, N *kac-i*[,] pinchgive.PERF 'pinch sth off and give it to', M *čaq-iya*[,], N *čaq-ayi*[,] push-give.PERF 'push sth to sb', M *čick-iya*[,] throw-give.PERF 'throw sth to sb', N *cas-i*[,] cs chase-bringing.along 'chase sth along'. For an example of the first word, see (201)b.

⁶⁵ With some hesitation he terms this construction "serialization", a characterization I find misleading because of the many differences between the Southern Wakashan construction and constructions called "serial verb" constructions in other languages, e.g. 1) any number of predicates can be so combined (although more than two or three is uncommon), 2) the set of predicates from which bare absolute predicates can be drawn is open-ended, 3) any lexical item can fill the role of main predicate or of the bare absolute.

⁶⁶ "Serialization combines multiple clauses into a unit that expresses a single state of affairs (= event or state), i.e. a predication" (Nakayama 1997a: 115).

⁷² The terms "core" and "peripheral" are borrowed from Nakayama (1997a), where they are used in a different sense.

⁷³ See Haas (1972) for more on Nootkan root structure.

⁷⁴ As mentioned later (see note 114 in Chapter 8), it is not clear if evaluative and dimensional terms are a subclass of verbs or constitute a separate class of adjectives.

⁷⁵ See Rose (1981: 284-89) for a different classification scheme.

⁷⁶ Eskimo languages also have suffixes of this type, which are sometimes called "post bases" in the specialist literature (e.g. Jacobson 1984, Miyaoka 1996). Eskimo, Wakashan, and Quileute are strikingly similar in their reliance on these suffixes to the virtual exclusion of other word-formation techniques. Eskimo languages are even more extreme than Wakashan and Quileute in this respect.

⁷⁷ Other works refer to nuclear suffixes as "governing" suffixes, a term I avoid since nuclear suffixes sometimes do not "govern" the base in the sense used in current grammatical theory.

⁷⁸ This statement is generally true, but oversimplified. Certain restrictive path-orientation suffixes have the effect of deriving verbs due to their inherent perfective aspect (§5.5.1). In these cases, the restrictive suffix could be considered the grammatical head, but the base remains in some sense the main semantic element.

⁷⁹ These types roughly correspond to Swadesh's (1933, 1939) governing action and governing state suffixes.

⁸⁰ Rose (1981: 357-58) categorizes most of my verbalizing state suffixes as "adjectival" rather than "verbal" suffixes, but, assuming her (p. 344) definition of the adjective class, it is not clear how this could be correct. Jacobsen (1979a: 139) refers to Makah *-i:c* 'belonging to ...' as forming adjectives, but since he considers Makah adjectives a subtype of intransitive verb, there is no disagreement with the present analysis.

⁸¹ Locale suffixes are called "zone" suffixes in Davidson (1999).

⁸² The initial vowel is shortened due to insertion of the long epenthetic vowel (§3.4.3).

⁸³ "The use of suffixes for adding new material ideas to the initial morpheme is common to a restricted area inhabited by all the Kwakiutl dialects, Nootka [and other Southern Wakashan languages—MD], Quileute, and Salish. Outside of this area it is unknown. Its closest analogue is found in the suffixes of the Eskimo language" (Boas 1947: 236).

⁸⁴ This root element must go back to Proto-Wakashan, cf. Kwakwala forms such as $wi \dot{q} \partial n \dot{x}^w a$ 'to fail to go straight to a person' (Boas 1947).

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⁶⁷ See Anderson (1985: 9-10) and Spencer (1991: 37-39) for introductory discussion. In Sapir's (1921: 142-43) morphological typology, Nuuchahnulth (or Nootka, in his terminology) is classified as having a polysynthetic level of synthesis and "agglutinative (symbolic tinge)" technique.
⁶⁸ See Fortescue (1994) for more detailed characterization of polysynthetic languages.

⁶⁹ In a 100-word sample from Text 2 in Sapir & Swadesh (1939: 19-21), Jacobsen (1993: 266) counts an average of 3.66 morphemes per word in Nuuchahnulth, which just slightly lower than Greenberg's (1954) figure of 3.72 morphemes per word in a similar sized sample from Eskimo.

⁷⁰ Figure 2 should be understood as a static representation of the structure of existing words, rather than a generative device for creating new words. Without extensive filtering or constraint mechanisms, Figure 2 will generate many impossible words.

⁷¹ This statement does not apply to words formed on relative roots like N yaq^w , M $yaqa^r$ 'one who, that which', which always determine the category of the resultant word regardless of suffix type, e.g. N yaq^w plus the verbalizing suffix N -*?ič* 'clothed in ...' forms the noun $yaq^w?ič$ 'clothing, what one is wearing' rather than the verb *'wearing sth that is ...'.

⁸⁷ "[A]ll verbs have durative and momentaneous, or inceptive, aspects, most have also at least one iterative aspect, and many have still other aspects" (Sapir 1924: 82, note 1). "The aspect system consists of a set of categories based on two primary aspects, durative and momentaneous." (Sapir & Swadesh 1939: 240).

⁸⁸ "We may class Nootka words into three semantic types, on the basis of their meaning in the durative and momentaneous aspects" (Swadesh 1931: 24).

⁸⁹ These definitions were formulated for momentaneous and durative categories in Ditidaht, but can be shown to reflect Swadesh's thoughts on Nuuchahnulth as well, although these were never so succinctly expressed.

⁹⁰ Some authors (including Klein) reserve the term "aspect" for viewpoint aspect.

⁹¹ In fact, potential for occurring with the graduative imperfective is a good test for determining whether a base is perfective.

⁹² Rose (1981: 275) describes the graduative morpheme as [L] in Kyuquot dialect, but examples like perfective M, N waha'k 'go': graduative M, N wa'hak 'going' show that it must be [L+S] in Tseshaht and Makah.

⁹³ The term "continuative" is from Rose (1981). Sapir & Swadesh (1939) simply call this aspect the 'durative', not differentiating it terminologically from the $-ak^{w/}-uk$ durative described in §6.5.2.
⁹⁴ This kind of "what-if" elicitation technique was suggested to me by Ann Renker (p.c.).

⁹⁵ Formation of the repetitive in Makah is first described in Jacobsen (1971).

⁹⁶ Iterative formation is first described for Makah in Jacobsen (1971).

⁹⁷ Note in this regard that the formal resemblance between the Habitual enclitic = 2arta (§7.4.2) and iterative II morphology may not be coincidental.

⁹⁸ See also Swadesh (1933: 8-11), Rose (1981: 291-92), and Nakayama (1997a: 21-23).

⁹⁹ Jacobsen (1973) describes a "relative" formative -x (e.g. in wiki tx we?ič 'no one is sleeping'). Since I judge this to be a specialized use of the peripheral suffix -(x)x 'while, meanwhile' rather than a clitic, it is not discussed in this chapter.

¹⁰⁰ See also Rose (1981: 212-234) for Kyuquot dialect forms and Nakayama (1997: 30-41) for Ahousaht.

¹⁰¹ The Inferential I is, however, listed in Sapir (1924: 101, note 178).

¹⁰² These formatives are not mentioned in Sapir & Swadesh (1939), but are listed in Swadesh (1939: 82-83).

¹⁰³ Two other Makah morphemes given by Jacobsen (1986) as evidentials. -*dadi* and *kuk*, are here analyzed as specialized peripheral layer evidential uses of lexical suffixes rather than as clitics. In this regard, it is significant that = pit follows the temporal specifier, which shows it must be a clitic, but $-\dot{q}adi$ and $-\dot{k}uk$ precede it. This does not guarantee peripheral suffix status, but is consistent with it.

¹⁰⁴ Jacobsen (1973) refers to the first of these moods as the "informational interrogative" and the second as the "confirmational interrogative".

⁸⁵ My analysis of Southern Wakashan aspect draws on that of Swadesh (1931, 1933, 1939), Sapir & Swadesh (1939), and Rose (1981), but, as will be seen, differs in certain respects from each of these.

⁸⁶ Actually, to be more precise, aspect is indicated by the final morphological constituent of a stem. This is often a single morpheme, as stated in the text, but may also be a combination of two or more restrictive spatial suffixes, which together have a single aspectual value (§5.1), or an aspectually significant CV template applied to a base.

¹⁰⁷ In Makah, the article itself may be extended by demonstrative elements: = *iqa:d* proximate article, e.g. $\dot{q}idi'liqa'd$ 'this dog', = $\ddot{q}a'c$ distal article, e.g. $\dot{q}idi'liqa'c$ 'that dog'.

¹⁰⁸ See Rose (1981: 206, ex. 43; 209, ex. 60-61)

¹⁰⁹ Rose (1981), Rose & Carlson (1984), Whistler (1985), Emanatian (1986), and Nakayama (1997b) may be consulted for further discussion of passivization in Nuuchahnulth, especially the controversy over whether this construction should be properly be considered a passive or an inverse. The reader will correctly infer from my labeling the morpheme in question "passiveinverse" that I consider the question to be terminological. The Southern Wakashan construction simply mixes properties associated with constructions called "passive" and "inverse" in other languages. It appears to be intransitive like the English passive, but is subject to person and topicality hierarchies like inverse constructions in Algonquian languages.

¹¹⁰ An obvious alternative analysis of this construction some have suggested describes $-(\check{c})it$ as an object case marker. Rose (1981: 62-67) presents several arguments against such an analysis and for a multi-clausal analysis like the one given here.

¹¹¹ This is perhaps a typo for *-a^ccvin*, the normal shape of this suffix, cf. Sapir & Swadesh (1939: 319).

¹¹² Makah has a morpheme - 'ux seems analogous to the Nuuchahnulth irrealis clitic, but it is not yet fully analyzed. ¹¹³ In formal speeches first person singular forms may have plural reference (i.e. 'I' = 'we').

¹¹⁴ The classification of many words expressing property concepts is unclear. This uncertainty primarily involves free roots like dimension terms, e.g. M, N ?aq 'wide', M ?i?irx^wa, N ?irh^w 'big', and evaluative terms, e.g. M $\lambda u t u'$, N $\lambda u t$ 'good', and also some words with the durative aspect suffix, e.g. M, N *\lambda isuk* 'white', M, N *?ačak^w* 'propped, wedged up'. Most property words probably belong to a subclass of verbs, as proposed by Jacobsen (1979a), but some may constitute a separate class of adjectives (Rose 1981). Their syntax requires further investigation before definitive classification can be made. Other property words such as those formed with suffixes I have classified as verbalizing state suffixes (§5.4.1), e.g. M -dit, N -nit 'stocked with ...', M, N -i:c 'belonging to ...', are more clearly verbs.

¹¹⁵ Jacobsen (1979a: 84-108) includes a thorough review of various proposals concerning Southern Wakashan word classes in both the primary and secondary literature.

¹¹⁶ This is a different sense of "nominal" from the one used in the preceding list of word classes, where the word simply means 'having the character of a noun, noun-like'.

¹¹⁷ I therefore disagree with Nakayama's (1997a: 64) contention that "...[T]here is no strong formal basis for positing word classes in Nuu-chah-nulth. That is, there is no unique and constant correspondence between sets of words and formal markers or formal structuring patterns that justifies grammatical classes among words."

¹¹⁸ Note also that this is a rare example of a post-head predicate modifier hosting a clitic.

¹¹⁹ The speaker is the mythological culture hero Kwatyaat, whose speech is characterized by inserted /x/'s (Sapir 1915, reprint 1949: 186; Sapir & Swadesh 1939: 210, footnote 8).

¹²⁰ Jacobsen (1979a: 106) makes the same claim: "[T]he momentaneous [i.e. perfective—MD] formation ... derives verbs from stems of other classes."

¹⁰⁵ There are a few examples of it attaching to a lone demonstrative in Nuuchahnulth, however, e.g. ?ahku'?i 'that one'.

¹⁰⁶ Tseshaht ya' is probably cognate with the morpheme ha' in Kyuquot dialect that Rose (1981: 40) describes as a definite article.

Appendix A: Lexical Suffixes

Lists of Nuuchahnulth and Makah lexical suffixes are presented below. Citation of Nuuchahnulth suffixes is based on the more-or-less complete list provided by Sapir & Swadesh (1939: 316-34). When possible, Makah equivalents (not necessarily cognates) to the Nuuchahnulth suffixes are given as well. Many suffixes listed by Sapir and Swadesh are not well attested, or even unattested, in the Nuuchahnulth corpus; classification of these is obviously subject to revision. A few suffixes have been posited that are not listed by them, e.g. -ca'pi [L] 'facing ...' and $-(c)cipak\lambda i$ 'at the hams, upper thigh, rump'. Makah suffixes are often attested only in a word or two; their shapes, morphophonemics, CV template associations, and glosses must be considered provisional, pending discovery or elicitation of more examples. Around 300 Makah suffixes have been isolated to date; there are certainly many more yet to be found.

Throughout, Nuuchahnulth glosses are based on those given by Sapir and Swadesh, although in some cases their original gloss has been modified based on corpus examples. This statement also applies to morphophonemic indications. To save space, only one allomorph of each suffix in each language is shown, even though many occur in more than one shape. However, it is often unclear whether two apparently related forms should be considered allomorphs of a single suffix or two suffixes. For instance, certain suffixes occur (in a phonologically unpredictable fashion) in some words with the initial formative element N -(c)s-, M -(k)s- and in other words without it, for example N, M -ac 'vessel for ...' in N yašmaq-ac, M yaša'baq-ac 'fur-sealing canoe' and N -(c)sac, M -(k)sac 'container, vessel for ...' in N, M $\dot{p}atq$ -sac 'valise'. Decisions as to whether these pairs are allomorphs of a single suffix or two distinct suffixes have been made on a case-bycase basis. Sometimes the meanings and/or morphophonemic properties of the two forms have diverged enough to justify considering them separate suffixes. In other cases, they appear to be lexically-conditioned allomorphs of a single suffix, and only one form, the form that seems most characteristic, is listed.

The symbol '/' after a CV template diacritic following a Makah suffix indicates that the template is associated only with the Makah suffix, not with the Nuuchahnulth suffix. An asterisk following a Makah CV template diacritic indicates its association with the suffix was taken from Jacobsen (1997a) or Jacobsen (1998a).

Nuclear verbalizing suffixes

N - 'a?a [LR+L] doing for ...'s sake,

revenging ...

- N -(w)a?a:huł [L] in a hurry for ...
- M -a'daxi [L] in ... condition (cf. N -sinhi below)
- N -a:hin deprive of ... (perf.)
- M 'alux [L] working for ...
- N, M -. ?ał aware of ...
- M 'art [R] controlling, looking after ... (cf. N, M 'atuk)
- N, M 'ałak [L] longing for, liking, in love with ...
- N 'alsimhi [L] yearning for, wanting, loving ...
- N, M 'atuk [L or R] supervising, looking after ...
- N, M -(w) $a\lambda$ [L] find, come upon ... (perf.)
- N, M -a: $a\lambda$ [L] destined for, makings of ...
- N -?a'mač [L] signifying, auguring, casting a spell for ...
- N -(n)a mak having ... along with one out at sea
- N -anim [L] get, bring along ...
- N -a'nu:\u03cb, M -a'du:\u03cb because of ..., for ... reason
- N -. 'a'p, M 'a'?a:p buy ...; gain ...

- N -apťał [L] in competition with ...
- N -(q)aput imitating, impersonating, representing ...
- N -(w)aqsa-q-, M -aqsak [L] in ... generation, layer
- N, M 'as about to ...; go in order to ... (perf.)
- N -(*n*)*as?i:* approach (perf.)
- N-a'ta directing action, blows at ...
- N -?a'ta lacking ...
- N -atah, M -attax [L], [R]/, [R+L]*/ lying in wait for, trying to get ...; [R] ready to, about to ...
- N -a'tuk, M -a:tuk making ... sound
- N -(y)a'wa, M -yawa: go for, take ... at intervals
- N -awił, M -u'ł [L] expecting ...; considering one to be ...
- N -awi:qš [L+S], M -i'yuqš calling, sending for ...
- N -ayi', M -iya' give ... (perf.)
- M -a'yu [R] saying ...
- N -ayuk, M -uya? [R+L] angry, crying, miserable on account of ...
- N 'aýimč [L] presaging, forecasting, praying for ... weather
- M -bida [L] 'owe ...'
- M -*bu*·*p* be ...
- N -c.- facing ...
- N, M -ca- (N durative -cu:-?uk [L+S], M durative -c-?ak^w) go to ..., go in direction of ...
- M - $c?ak^{w}$ [R] acting like ...
- N -cahta- going towards ..., going in ... direction
- N-cama [R], M-caq¹ going towards ...
- N -carpi [L] facing ...
- N-ca'q-, M-ca:q [L] busied with getting, cooking, eating ... food; taken up with ... thing

- N -caq- paying attention to ...
- N -cawi: suitable for ...
- N-cawinyuk [L] doing (esp. giving a potlatch) on account of, in honor of ...
- N -cha [L] go in order to ...; go in connection with ...
- N -chi, M -cxi married to ...; N having sexual intercourse with ...
- N -c?i: go in direction of ... (perf.)
- N, M -cit- on ... side, end
- N -citis [L] ... shore
- N -ci:ýuk [L+S] going to ...
- N -cqma:p, M [R+L]/ -ci:qbap taking notice of ...
- N -csh [L] paying ... for services
- M -ctarl descended from, come from ...
- N, M -cuk needing, requiring ...
- N, M -cuq- in ... hand
- N -cu:t on ... side
- N -cuwat, M -corwat [L] on ... side; on the ... side
- M -cxad [L or R] doing for benefit of ...
- N cýak [R] dressed in ...; appearing like ...
- M - $\dot{c}ak$ [L+S] cooking ...
- N -*cat* [LR] give attention to, do only ...
- $M (k)\dot{c}ap$ sell ...
- N -*ċaqsim* wanting ...
- N -*ća's* betting ...
- M -*ċa*x [L] depending on ...
- N -*ċirth*, M -*ċirtč* using ... as fuel

M - $\dot{c}i\lambda$ come from ...

- N-cim?ak [L] doing on account of, in honor of, in reference to ...
- N -*cinaq*-, M -*cidaq* [L] talking about ...
- N - $(c)\dot{c}iq$ accompanying ... in canoe
- N -*ċi:q* unable to find ...
- N -*ċus*, M -*ċis* [L] laughing at ...
- N -čas [R] fond of ...
- N -(k)ča'sči [L or LR+L] playing, participating with ...
- N - $\underline{\check{c}i}$, M - $\check{c}i$ at, in ...; [LR] attached to ...
- N -(k) $\check{c}i$, M - $\check{c}\check{c}i$ along with ...; N [R] siding with ...
- N čił [R] naming, mentioning ...
- N -čim [LR] for the sake of, on account of ...
- N -či'p- [L] having ... stored up
- N -či:qa [R+L] dragging along, impeded by ...
- N -čiyuq- dealing with ...; attacking, trying to capture ...
- N -čiýał [R+L] pursuing, following ...
- N, M - $\check{c}u'$... -ed; having ... -ed
- N <u>č</u>ap, M ča:?ap [R] sore in ... (body part); sick, sore with ... disease
- N-har, M-xar buy ... (perf.)
- N -hsar, M -xsar longing for, desiring to eat ...
- N -htar doing to ...
- N-*htin*, M-*xtida* made of ...
- N -hwat [L], M -xwart [L+S]* using ...
- N $h\dot{w}ink^{w}$ [L] using ...
- N -(q)hyu' related to ...
- N -2ašt caused, accomplished, obtained by ...

- N - $2i\lambda$ find, come upon ...
- N -2in [L], M -qadi [R] making ... sound
- N -. ?iz, M -. ?iya get to be at ... (perf.)
- N, M -i:c belonging to ...
- N-i:cs., M-i:ks carrying ... along
- N -(y)i:cuk arrive at ... time
- N -?ič, M 'ič clothed in ...
- N -ičas [L] having ... as covering in bed
- N '*i:ḥ*, M '*eyax* [R] hunting, collecting ...; [L] pursuing, trying to get ...; [R+L] trying to get, earn ...
- N -i:h?i: go to ... to give gifts (perf.)
- N '*i:k*", M '*eyik*" [L or LR] given to, fond of ...-ing, adept at ... -ing (also nominalizing suffix 'expert at ...'
- N, M -*it* [R] sleeping with ...
- N - $(\check{c})i\dot{t}$ [L] doing to, with reference to ...
- N - $(\check{c})i:\mathfrak{K}$ [sometimes L], M - $(k^{w})i:\mathfrak{K}$ [L or L+S] making ...
- N -. 'i' , M 'i: lose ... (perf.), win ... (perf. caus.)
- N, M ' $i\lambda$ [L] go for, take, invite ... (perf.)
- N 'in, M 'ida treated as ...
- N 'in, M 'adi [L, R] making a sound of ...
- N -. 'int, M -. 'idit [L] giving a feast of ..., distributing ... in feast
- N 'inmaš, M 'adi taking the place of ...
- N -(w)inqa [L] baited with ...
- N -. 'inhi [L] waiting for ...
- N -(w)in k^w [L], M -pi duk intermixed with ...

- $N inq\lambda$ [L or LR] inimical toward ...
- N -inyuh on a visit for the purpose of getting, seeking ...
- N -inyuk [L] having ... many points, branches
- N -inýu, M -ida: left behind
- N -*i'ňak*^w imitating ... in dance
- N -inakuh [L] looking on at ...
- N -?i:p give a gift to ... (perf.)
- N -(y)i:q, M -yuq traveling in ... vehicle, traveling by ... means
- N 'i's, M 'i'ks consuming ...; costing ...; having sexual intercourse with ...
- N 'ituł, M 'apuł [R] dreaming of ...
- N -*itýak* [LR+S], M - (k^w) *i*'*ta:k* fearing ...
- N -i'týa'p, M -i'tyap or -i?i:tap? bring ... as gift (perf.)
- N-iyaqh, M-eyax [R] singing ... song
- N, M -*i*'yuq- doing to ...
- N -irýip, M -a'yup capture, obtain ... (perf.)
- N, M - $k^{w}a\check{c}i\lambda$ because of ...
- N -*k^waýi:*<u>h</u> [L] pursuing ...; trying to earn, get ...
- N -ka: having ... many successive points in the hoop game
- N, M -kuk apparently, seemingly; [R] resembling ...
- N - $\vec{k}^w a p$ [L] caring for, liking, loving ...
- N -(č)ła[,] M -(k)ła[,] having ... as name; N name, mention ... (the second and third meanings are not yet attested in Makah; cf. -(k)ša:ł below for a Makah suffix with these meanings)
- N -ma [R] going toward ...
- N -ma: $?a\lambda$, M -ba: $?a\lambda$ intending to ...

- N -maćuk, M -abażću talking about ...
- N -ma?i:q^{\lambda}, M -beyaq^{\lambda} wanting to ...
- N -ma:p paying attention to ...
- N -maqa [LR+L] doing for the sake of ...
- N -maqak, M -baqak skilled in ...
- N -maisa [L] take back, take home ... (perf. and impf.)
- N-mću [R+L] feeding, regaling ...
- N -mhi, M -baxi [R] fit, suitable, enough for ...; able to ...
- N -mi:?ak [LR], M -be:?ak [R+L?] N fearing ..., M expecting ... to happen
- N -mi?ak [L] thinking one is ...
- N -mihsa desiring to ...
- N -mitaq- [L] telling about ...
- N-mita concealing, withholding ...
- N - $\dot{m}u^{\prime}p$ absent, away for the purpose of ...
- N - $na^{k^{w}}$, M - $da^{k^{w}}$ having ...
- N -naqa [L] use ... as bait
- N -naq fond of eating ...
- N -nim, M -daba [R+L] having the objective of obtaining ...
- N -nit, -dit stocked with ...
- N -nah, M -idux seeking ...
- N -nahi [L] ready, intending to ...
- N -naqirt [L] find ... (perf.)
- N -*ni*', M -*di*' come, arrive (perf.)
- N -pi:yaqh doing in accompaniment with ... -ing
- N, M -*pa*' [L] disliking ...

- N, M -*pat* smelling, tasting of, like ...
- N, M -*pat* looking on admiringly at ...
- N, M -*ṗ́i*'č [L] having ... spouse
- N -pičh doing while ... -ing
- N, M -*piq* do in passing, do slightly (perf.)
- N -*piqš* [R] engaging in ...
- N - $\dot{p}u:\lambda$ get paid for ..; get paid ... (perf.)
- N -*pu*'qs smelling of ...
- N, M -q [R] N traveling in ... vehicle; M traveling (in company) with ...
- M -qeya λ arrive (perf.?)
- M - $\dot{q}eyaq\lambda$ need to, feel like ... (used with verbal bases denoting bodily functions)
- N, M -s doing ...
- N -sa'hi because of ...
- N -sapi [R+L] having ... as backing, support
- M -si'ća:p [L?] send ...
- N -sirh?i: go to ... on a gift visit (perf.); present gifts to ... (caus.)
- N -*si:k*^w, M -*seyak*^w make, complete ...
- N, M -sita do ..., act like ... (perf.)
- N -sim, M -suba lacking, needing ...
- N -simč, M -subač [L] doing ritual for ...
- N -sina: h [L] trying to ...
- N -sinhi [L] trying to ...; keeping in ... condition (caus.)
- N -(c)sma defending ...
- N -(c)sna'2ał, M -(k)sda'qał [L] handling, playing with ...
- N -stukh [L or R] for ... reason

- N -(c)suptart [LRc], M -(k)suptart [LR+L] competing in ...
- N -sýup [R+L or LR+L] trying to make, coax into ... -ing
- N - \check{s} - \check{c} - $k\check{s}$, M - \check{c} [L] asking for ...
- N -šahap [L] doing ...; acting like ...
- N -šahi, M -šaxi [L] having ... wrong with one
- M -(k)ša:t [L] mention ... by name
- N -($\underline{\check{s}}$)ta?aq λ obtained by ...; paid for with ...
- N -taq [R+L] working on ...
- N -(<u>š</u>)taqa [L] blaming, doing to because of ...; doing to, punishing because of ...
- N -(š)taq-šiλ, M -taqšiλ go, do before ... -ing; ... before going, doing (perf.)
- N -taq-ši λ come from ... (perf.)
- N -(<u>š</u>)taqyu, M -(k)taqyu powered by ...; having shamanistic power derived from ...
- N -(\check{s})*ti*'*p*, M -(*k*)*ti*:*p* doing to ...; doing to while ...
- $N (\underline{s}) tis$, M (k) tis [L] guided by ...; acting by reference to ...
- N - $(\check{s})tu:q$ [R+L] going through ... formalities
- N -*ti:?it* [sometimes L], M -*te:?it* [L+S]* pretending to (be) ...
- N-*turta* [L] giving a potlatch or ceremony in honor of, because of ...
- N 'u: [R+L] having food-right to ...
- N 'u:- intending to get ...; camping out for the purpose of getting ...; waiting in ambush to get ...;M 'awi waiting for ...
- N -. ?u'kt, M 'u'kt obtained by ...
- N -uwa [LR] acting together with ...; [L] ... doing together
- N -(y)u?at, M -u?at perceive ... (perf.)
- N 'u't having ... as means of conveyance
- N -u:mał, M -ubał [L] born at ...

N -u:?uk [L+S] going along on one's way

N, M -wa' ([R] N impf. only) say ... (perf. and impf.)

N -wart, M [LR]/ -wat related to, friend of ...

N -*witas* about to ..., about to be ...; go in order to ... (perf.)

N -yit showing evidence, traces, marks of ...

M -*yuk* [R] doing ...

N -*ya*, M -*ya* troubled by, with ...

N -*yi*'*ha*, M - '*i*'*xa* suffering from excess of ..., ... -ing excessively; die of ... (perf.)

N -*ýiḥtaq*- derived, originating from ...

N - ýuk born of ...

- N yuk wrapped in ..., covered over with ..., surrounded by ...
- N -yu:qh referring to, mean, deriving from ...

Nuclear nominalizing suffixes

- N -a?aq ... hide, skin
- N -. 'a'csýi ... thing
- N -acus, M -acis surface, platform for ...
- M -a'put habitual consumer of ...
- N, M ' $aq\lambda$ gifted in, given to ...; expert ... -er
- N, M -. 'aqs ... woman (in women's names)
- N, M -. 'aqsup woman of ... tribe, band
- N, M -(q)a's daughter of ...
- N -. ?ath, M -. 'atx (sg reference) man of ... tribe, band, (pl reference) men, persons of ... tribe,

band (also a restrictive path-orientation suffix 'dwelling, residing')

N -camis ... thing

- N, M -*ck^wi* having been ... -ed, having ... -ed; remains of ...
- N, M -*ciq* ... many long objects
- N -(q)*ḥsi*' ... -er
- N-htar, M-xta ... instrument
- N -hta-, M -xta· k^{w} ... many flexible recepticles full
- N-htinama ... instrument, device
- N -i [R or L] quality of ..., manner of ... -ing, thing ... -ed
- N 'i'čh, M 'e'?ičx season of, year of ...
- N -. ?in, M 'ida costume for ...
- N 'in, M 'adi ... string, means of suspension
- N, M -*i*'qsu suffix in kin terms
- N -i'ta, M -i'ti?i: ... -er
- N -ma, M -ba ... thing, being
- N -ma²uk [L] maker of ...; one skilled in
- N -mapt, -bap ... plant, bush, tree
- N - $mi:k^w$, M -bi'k [L] getter of ...
- N -mis, M -bis collectivity of ...; business of ... -ing
- N -*mi*'t, M -*bit* son of ...; this suffix occurs in Makah in the names of a few story characters, e.g. *hupdabit* 'Wren', Xixbabit 'Woodpecker'; it is unclear if it is otherwise productive.
- N, M -pał season of ...
- N, M patu ... thing, instrument
- N $-\dot{p}i't^w$, M $-\dot{p}a'yit$... many long bulky objects
- N -qimt, M -qapt ... many round objects
- N -(c)sac, M -(k)sac ... vessel, recepticle
- N -sa'htak^w, M -sa'xta:k^w ... many kinds, varieties; ... kind, ... variety

- N -siyapi [L] ... many bands, families; ... band, family
- N -(c)sýi, M -(k)si?i: medicine for ...
- N - $(\underline{\check{s}})taq$... many units
- $N (\underline{\check{s}}) taq im \check{t}, M (k) taq ap \check{t} \dots many groups, bundles; \dots group, group of$
- N -(š)tu'p, M -(k)tu'p ... creature, being, thing; ... class, genus, species
- N '*u*: ... berry
- N, M -(.?)*ut*^w place of ...
- N -*wi*... mark, mark of ...
- N -yaːsċa [L] ... many rolls
- N - yak^w , M - yak^w ... device, instrument

Path-Orientation suffixes

- N, M -a'- go out to sea (perf.)
- N -(.?)at attached on
- N -a'qtu' move across (perf.); extending across
- N, M -as reaching to, touching on, following close
- N, M -a't- move downstream, out of the woods (perf.); extending downward
- N -. 'ath, M -. 'atx dwelling, residing
- N *?atu*, M *'atu* fall off, come off; ... ends; stop, leave off ... -ing; [L] sink (esp. into water); faint, die (perf.)
- N -a?u:, M -a'yił following behind
- N -ayi?iħ, M -a'yiħ move into a building (perf.)
- M -bu:sa climbing
- N -caqimi, M -caqapi [L] N all about; M go around, circle
- N ci:q- [R+L] move along the shore

- N, M -cpa' go over, past (perf.); on ... side (impf. and perf.); ... on a side
- N -hċi', M -xċi?i: holding over the fire, drying at the fire
- N -(q) hsa' in a bundle
- N -ht-, M -xt- move downstream, come out of the woods (perf.)
- N -hta-, M -xta- apart, divided off; out to sea
- N -?a'?atu, M 'aqatu move down (perf.)
- N -i:?as, M -uya:?as go outside (perf.)
- N -*i:?atu* [L] get to be under water (perf.)
- N -i'č.- on, covering
- N -*im* [R+L] through an aperture
- N -*in2atu* go up the coast (perf.); up the coast (impf. and perf.)
- N -(č)*ink*^w, M (*k*^w)*i*'*duk* together, ... -ing in competition; N [LR], M [R] engage in competition, play, conversation with ...
- N, M -(?*a*)*k*^{*w*}*a*-*č* apart, dispersed, in pieces; used up, destroyed, spent (of money); attacked; completely ...
- N, M -*k^wis*-*t* move away from; miss, fail to hit (perf.)
- N -mał-, M -bał- moving about
- N -mars, M -bilis moving about on the ground, in the village
- N -mi'?a moving about on the rocks
- N -mi⁻ moving about in the house
- N -mi's moving about on the beach
- N - $\vec{n}i'q$ down a slope
- N -*p*.- go across (perf.)
- N -pirt, M -pirt [L] extending across, M move across (perf.)
- N -(*c*)*sa*²*a* come to land (perf.)

- N -(c)sapi, M -(k)sab in the way; screened by ...
- N -(c)s?atu fall off, fall behind; be born (perf.)
- N -(c)sta', M (k)sta' move down into (perf.)
- N -(*c*)*stirs* move into the interior (perf.)
- N -(c)suhta, M -(k)sitta come out into the open; come out of the woods (perf.)
- N -(*c*)*swi*[,] M -(*k*)*swi*[,] go through (perf.); extending through (impf. and perf.)
- N -(c)sýaqsti main ...; in the lead, leading
- N -sýu:č, M -yu:č [L] exposed, showing
- N -(y)u:k [L], M -u:k [R+L] all over
- N -wahsu(t), M -waxsit N go out (perf.), M go out of mouth (perf.)
- N -wa's go outdoors (perf.)
- N, M -wir N point comes out (impf. and perf.); M come out
- N -wi:?as go outside (perf.)
- N -wi:?is go down to the coast (perf.)
- N -witu(t) move past, over the head (perf.)
- N -*wiłta*, M -*wiłta* come out of canoe, vessel (perf.)
- N wisa, M wisa [R] come out of one's hands; escape (perf.)
- N-wisa', M-wisa: come to the surface of the water; come to consciousness (perf.)
- N -*wisč* farther up; move up the bank (perf.)
- M -xsuwa: move downstream

Site suffixes

Body Parts: Head

N -ayuk, M -eyuk [L] at the head, hair

N -citim, M -citab on the side of the head

- N -*ċaqi* [L] at the head, foremost
- N -*ċa:s* at the crown of the head
- N -(w)*i*: k^w [L] on the head
- N -inksťas. at the back of the head
- N -ku:?as [R] at the side of the head
- N -(c)sinyuk [L] on the head
- N - $(\check{c})uxs$ on the head as headgear
- N -wihta at the head

Body Parts: Face

- N -(?)aksu(t) at the mouth, lip
- N -aku(t) [R] at the lower part of the ear, in the ear lobe
- N -a'nu?ihta [L] along the nose
- N -(?)aqsu(t), M -aqsit at the mouth, opening
- N -as [R] on the cheek
- N, M -*ċiŧuŧ* in front of the face
- N, M $-\dot{c}uq$ in the mouth
- N 'imt, M 'abit [R] at the ear; N at the gun-hammer
- N, M -*iyuq* λ in the mouth
- N -*i'yu*(t), M -*i'yit* at the throat; with reference to the voice
- M -paquł [R] at the cheeks
- N - $pi'\dot{y}a?a$ [L] on the forehead, between the brows
- N -pi'ýas [L] on the forehead
- M -*patas* [R] on the cheeks
- M -*patul* at the cheeks

- N -(c)sa:ta, M -(k)sa'ta [L] on the forehead
- N, M -suk [L] at the septum
- N -(c)su(t), M -(k)sit [R+L] at the eye; N [Rc+L] in, on the eye
- M -(k)swi?i: [R] at the teeth
- N, M -(q)u'(t) on the face

Body Parts: Torso

- N -a'csi. on the lap
- N, M 'a'či at the groin; in the crotch; at the lower part of the belly; in the bay
- N -ačňuł from the spout to dorsal fin
- N, M ' $ak\lambda i$ at the rear, last; N [R] at the heel
- N, M -a'pat on the upper back; behind
- N -as?ak λi on the rump, buttocks
- N - $ashu'(\ell)$, M - $asxu'(\ell)$ on the chest, breast
- N, M-ci: [L] at the crotch
- N-ca?ači [L] at the lower part of the belly, in the groin, at the crotch
- N -(w)int, M -adit [L] on the neck
- N -(\check{c})*it*, M -(k^w)*i* t on, at the body; at the side of a canoe
- N - $ha q \lambda i$ on the penis
- N -ku:?it [R] at the side in the region of the loins
- N -pi' on the back
- M -*peyit* on the back
- M -(k)s?at on the back
- N -(c)si: [L] on the lap
- N -(c)sinqi, M -(k^w)itqi on the belly

- N -(c)sinqit [L], M -adaqit [R] at the ribs
- N -(c)sitk^w in a crotch, in between; [R] between the fingers, claws
- N -starqs at the hip, side
- N -stirt at the collar bone
- N -(*c*)*su*^{*q*} λ , M -(*k*)*su*^{*q*} λ inside the body, in the womb; in mind; having ... quality, emotion (particularly of women)
- N -(c)swint [LR], M -(k)swadit [R+L?] in the arm-pits
- N -wi'q λ int [L] on the nape of the neck
- N -yimt [sometimes R] on the shoulder

Body Parts: Limbs

- M -*apa:q* λ [L] at the heel, elbow
- N 'ass [LR] on the wrist
- M -askabił [R] at the arms
- M bat [R] at the arms
- N -cars, M -cars in the hand, at one of a pair of body parts
- N -(c)cipak λi [L] at the thigh joint, hams
- N -*ciťači* [R] at the thigh
- M -(k)*ċił* [R+L] at the feet
- N -*čink* [R] on the calf of the leg
- N -hi [R+L] at the limbs; under one's knees (as one kneels)
- N -(q)hta [R] on the foot
- N - $\dot{n}uk$ [R], M (after vowels) - tk^w [R+S]*, (after consonants) -duk [R+L] at, on, of the hand
- N - $\dot{p}i\check{c}$ [R] on the ankle
- N $-\dot{p}iqa$ [R] on the knee

- N -(c) $spu(\ell)$, M -(k) $spu(\ell)$ between the legs
- M -(k)*sta* [LR] at the legs
- N -stuwači [R] at the inner part of the thigh
- N -wi' [R] at the fingernails, claws

<u>Nature</u>

- M ?a:ćił in the sky
- N -(w) $a\check{c}$ [LR], M - $a\check{c}$ [L] at the margin along the water
- N -ačišt, M -ačakt on the sea
- N, M 'a'q λ in the woods, bush
- M 'a'q λ i:t upsound, to the east
- N -asu'., M -asi?i: under, in liquid (esp. water)
- N -*ċa*·tu, M -*ċa*:tu on the water, out to sea
- N -*cit.*-, M -*cita* in the water, in water hole
- N -*ću's*, M -*ću:?is* in a bay; M in meadow, yard
- M - $k^{w}i?i$: on the river bank
- N -nir, M -dir on water
- N -sarmi:cut on the bluff
- N -(c)sit., M -(k)sit [L] on the surface of a liquid
- N -(c)smu(t) [L] along the bank
- N -(c)su'?is far out at sea; at a distant place out over the sea; on the horizon
- N -(c)swaq λi downstream
- N -(c)sýa'hu(t), M -(k)šya:xu(t) on the face of a cliff

Man-made Objects

- N -*a*'*cyin*, M - k^w ada at the bow
- N 'ahs, M 'axs in a vessel; in the vagina; N [R] at the teeth
- N -(w) $ak^{w}in$, M - $aku(\ell)$ [L] at the head of the bed
- N, M -(.?)art on a fabric-like surface; ... fabric, blanket, etc.
- N -(w)aqsi [L] at the side (of canoe), at bank (of stream)
- N, M -a's $\dot{c}a$ on the roof
- N -*a'yi't* on a raised platform in the house; in the sky
- N -caqs at the side of a vessel
- N -(c)ci:2as [L] at the outside wall of the house
- N -*cimu*(*t*)-, M -(k)*sbići:t* on the ceiling
- N -*ċaqił*, M -*ċaqi*. [L] at the rear end of the house
- N, M $-\dot{c}u'$ inside a container; in a bay
- N -*curt* in the center of the floor; initiated in Wolf Ritual
- N -*iċu*[•] at the lid of a container, on level with the top of a container, (full) to the top; at the bowstring
- N -(w)iqs on top of, on the lid of a vessel; box
- N, M -ista ... person(s) in canoe as passengers, crew
- N $-\dot{p}a\dot{t}$ at the handle
- N -qu:(t) [L] at a harpoon point
- N -(*c*)sa:maq λi on the wall
- N -(c)saq λ , M -(k)saq λ under one's clothing, under covers; in shelter
- N -(c)s?atu., M -(k)s?ati?i: [L] at the door
- N -(c) $s\dot{p}a\dot{t}$ at the top of a vessel; up to the top of a vessel
- N -(c)sturgs at the bow of a canoe

- N -(c)su'?it over the walls in the house
- N -wi:?is. at the bow

Geometric (including spatial extension)

- N -(w)a?a [L] at the edge
- N -(w)a?aq alongside
- N -. $2a'\dot{c}u(t)$ on, against a surface; on the palm, on the sole
- N -ahu'(t), M -axu'(t) in front
- N, M -ałća at a vertical surface
- N -*a'ńu(t*), M -*a'dit* [L] all along, on a long thing; up the river; [R or R+L] along the leg, along the shin
- N, M -api [L] up in the air, erect, standing; best
- N, M 'apu(t)- [L] underneath, on the bottom
- N, M -api:- in the rear
- N, M ' $aq\lambda$ inside
- N 'a'qsta, M 'a'qsta [L] amongst
- N -aqstiv amongst, within
- N, M -a's on a (horizontal) surface
- N, M -carqs on the side
- N -*ci*⁺ on the edge; on the ... edge
- N-caqću:, M-caqćaw at the end
- N, M -cqi' [L] on top, above, overhead
- N -*hin* [LR+L] at the end
- N - hna^{k^w} in between

- N -(q)hsa [L], M -xsa [R] N along the edge, bank, M in the bushes; N [LRc+L], M [LR+L] at the brink, along the front edge
- N hsnu(t), M xsdit in between
- N - $h\dot{w}ak^{w}$ [R] in between, having all about one
- N -(w)icc [L] along the edge; around the head
- M -i:da [R] on top
- N 'ihta, M 'itta at the point, end, at the nose
- $N (w)i:htu(t), M (k^w)i:tit N$ at the front, at the edge, at the top; N, M [LR] on the shoulder
- N 'i: $\hat{\lambda}a$ [L] below
- N -(q)*imt*, M -(q)*apt* over a rounded surface; in a bunch, group (with various extended senses)
- N -(w)inksta, M -k^wi[·]du:ksta [L] in between (M, more specifically, in a crevice or crack)
- N -(w)in k^w in the corner
- N $kumq\lambda i$, M $kapiq\lambda$ behind
- N-misa on top
- N -narqi, M -darqi up on a height
- N -pi'(t) in the middle
- N, M $-\dot{p}i\dot{c}$ at the base of an upright object
- N, M $-\dot{piq}$ at the summit
- N - \dot{pit} at the edge
- N, M -qi on top, on the head
- N -qu:.-, M -qawa- at a point extending out
- N -(c)sim [L] at an opening
- N -(c)ska'pu(ℓ), M -(k)ska'pu(ℓ) at a hole in the top end
- N -(*c*)*spi*^{*i*} on top; prevailing (in combat)
- N -(c)stu, M -(k)sta y behind a screen, hidden, sheltered, protected

- N - $(\underline{\check{s}})tqa$, M -(k)tqi' underneath
- N-win, M-wadi in the middle

Miscellaneous restrictive suffixes

- N - $a\dot{t}\dot{c}a$ [R+L] at fault
- N - $(k^w)a^v \check{s}t$, M -akt dried ...
- N -cu: probably, preferably
- N -čh?as ... far into the woods
- N, M - $k^{w}a \cdot t$ absent, missing, lacking
- N - k^{w} *in* young, toy ...
- N -mart, M -bat [L] ... surviving
- N -maqši^λ, M -baqši^λ constantly
- N -matak, M -batak probably, supposedly, presumably
- N -mu't left-over part of ...; defunct ...; former ...
- N, M -pa:ću immediately, at once
- N -part [LR] half
- N -panač, M -padač [L] moving about at random
- N -qa'th, M -qa'tx pretendedly
- N -(q)h, M -(x)x meanwhile, all the while
- N -sčim along with others
- N -(y)u: $\vec{k}^w a \vec{t}$ absent
- N -wi' first

Miscellaneous suffixes

Suffixes in this section are either residual suffixes that do not seem to belong to any of the above classes (e.g. N - $\check{c}i$ 'p peripheral benefactive suffix), or are not adequately attested to permit clear categorization (e.g. N -ma:q- '... growing at a place').

- N -atca arrive at the scene of action; go to meet a returning hunter, fisher (perf.)
- M -ati [R] cause to (be) ...
- N -aya [L] repeatedly, continuously ... -ing; (added to graduative) in the act of ... -ing, gradually ... -ing
- M -bi?i: [L] ?
- M -*citq* '... colored'
- N -*či*'*p* of, for him (benefactive)
- N hi, M xi [R+L] durative formative
- N - $i^{*}k^{w}$ going along
- N -ma:q- [L] ... growing at a place
- N -part [L] along with ...; in the same group with ...
- N, M -pat- [R] ... on each side; several ... at once
- N -*partu* to go ... far; left behind in ... condition
- N -*pit* [usually R] ... many hand spans
- N -qčik^w going along
- N, M -sa'cu in ... places, in ... place
- N -sči, M -šči ... many on a side
- N -(c)skapuł, M -skapuł rascal
- N - $(c)sk^w$, M -(k)sk ... far apart
- N -(c)sťať, M -(k)sťať reciprocally
- N -(*c*)*sťi:h* [L] ?

N -su: \u03cb, M -siwi' ... dies (perf.)

M -(k)š?ibił occurs with emotion and cognition terms applying to females

N -*wart* ... a part

N -*ýat* ... many fathoms
Appendix B: Makah Vocabulary

The following Makah vocabulary is offered as a preliminary and highly selective survey of the Makah lexicon, pending completion of a full dictionary currently in the planning stages at the Makah Cultural and Research Center and the Makah Language Program.

Bound roots are given with the perfective suffix, if it is attested with the root, followed by one or more of the basic imperfective forms (i.e. continuative, durative, repetitive). Other aspects are occasionally given if they have specialized meanings with that root. Aspects that are known to occur with a root but that are not listed separately are noted in parentheses. Attested combining forms of free roots are listed first, followed by the free form. Perfective or (perfective) inceptive aspect forms of free roots are sometimes included as well, if attested.

Possible Nuuchahnulth cognates or partial cognates from Sapir & Swadesh (1939) are given in brackets following the aspect forms.

A selection of derivatives containing more or less productive lexical suffixes is included at the end of entries. Derivatives with special lexical suffixes or non-productive lexical suffixes are generally given their own entries.

Short final vowels, which are not present in surface form due to an apocope rule (§3.4.3), are indicated where evidence is sufficient to determine their existence and quality. Word-final labialization of velars and uvulars following a consonant or /a i/ is indicated where its existence is known. See §3.2.2 for word-final labialization following /u/.

Sources

Makah Dictionary: preliminary English-Makah word list (1990), manuscript on file at Makah Cultural and Research Center

Elicitation notes by Matt Davidson (1996-98), Maria Pascua, Ann Renker, Cora Buttram Jacobsen (1969a, 1971, 1996, 1997a)

?a' interj. what did you say? [N ?a']

?a' ?a' interj. expression of sympathy

?a?a'ba first [N ?ama-, ?e?im]

?a?a'bax?i poor thing (said in sarcasm) [N ?a?ałh?i]

?ar?arsiċadi ?ar?arsiċitqa singing a lullaby *?ar?arsiċadeyak*^w lullaby *?ar?arsiċitqa?er?is* baby gift-giving potlatch

?a?a'tu ask (a question) [N ?a?atał-, ?a?a'tu'] ?a?a't?oł heard, learned by asking

?akwi'-q-, ?a?a'wiqyu playing ?a?a'wiqyuyak^w toy block ?akwi'qo'was gym ?akwi'qpał

playtime *?a'wi'q́ik* playful

?a?a'yaxib ear ring

?abe'?iqsu mother [N *?um?ac-*, *?um?i'qsu*]

?a'beyu tomorrow, yesterday

- ?ackaT- ?ackat-, ?ackatši¹ jump ?a'?a'ckata jumping ?a'ckatuk skipping along [N ke?e'ckat- kacke?e't-, ke?e'ckata kacke?e'ta] ?ackadaqatu jump down ?ackatcpa jump over ?ackatwiłta jump off a boat or canoe
- ?ač-, ?ačšiλ wedge in, prop up, support ?ačak^w wedged up, blocked, supported [N ?ač-,
 ?ačak] ?ačakuba pillow ?ačska puba wooden plug for whale hunting floats ?ačtup (a)
 block

?ačaq (only with Content-Interrogative mood) who? [N *?ača-*, *?ačaq*]

?ača'yaq-, ?ača'ya:p gather wood [N ?ač-ýaq-, ?ačýa'p] ?ača'yaquł place name (Sooes Beach)

?ačic (only with Content-Interrogative mood) whose?

?ačpa·ba salmon eggs; kidney *?a?a·čpaba·di*⁴ corn on the cob *?a?ačpabakuk* cheese

?a'čpabadakšit spawning

?aču'ł blind

?ada, *?adi-*, *?adu-* only; thus much; as much as; (with Content-Interrogative mood) how much?
how many? [N *?ana*, *?ani-*, *?anu-*] *?adisiła* as soon as, immediately after (lit. doing only, nothing but) *?adiyu* later *?aduq^wapł* family; however many are in a group *?adu's* as many as are (residing) in the house

?a'da' thus far, at this distance; (with Content-Interrogative) how far?

?ada'ba breast, milk; sucking milk [N ?in.-, ?in-ma-q-, ?inma]

 $2ada'k^w$ fire $2ada'kši\lambda$ a fire starts [N $2ink(^w-)$] 2ada'kqi fire on top $2ada'k^wacis$ stove

?ada'k^w*ii*' fire in the house, fire is burning in the house ?a'dak^w*i*'*i*' making a fire

?a'di in fact, really [N *?a'ni*]

?adic however long a time; (with Content-Interrogative mood) how long a time? [N *?anic*]

?a'di'daxi instead, only, just

?adis however many, much; (with Content-Interrogative mood) how many? *?adisa'tx* population, however many are residing swh *?adisqapt* however many round objects, much money

?adisqičx age; however many years

?a'dixx real, serious [N ?a'na-qh] ?a'dixut (or ?a'dixxut?) serious face

?aduk^wit thus big in girth; (with Content-Interrogative) how big? [N *?anikit*]

?adux thus big; (with Content-Interrogative) how big? [N *?anah*]

?a'dwa interj. isn't that right, really?, seriously?

?aha'ha: chicken, rooster

?akt-, ?aktšit gnaw ?akta'?a'kta gnawing [N ?akt-, ?akta' ?aktak]

?akwati:da bald eagle [N *cix^wat- cix^watin-q-, cix^watin*]

?ał-, ?ałšiλ (to) vomit ?ała·?a·ła vomiting [N ?ał.-, ?ała·] ?ałck^wi· vomit (substance)
 ?ała·ġeyaąλ nauseated

?ałq^w-, ?ałqšiħ unpack [N ?ałq^w-, ?ałq^wa[']]

?aλ-, ?aλa two *?aλi^wiλ* become two [N *?aλ-] ?aλacxi* have two wives *?aλak^widuk* two together, a couple *?aλasuba* eight *?aλčeyał* for two days; Tuesday *?aλi^vta* seal harpoon prongs *?aλista* two-man canoe, two persons in a canoe *?aλisteyak^w* two-man canoe *?aλi^vq* forty *?a?aλ?akλi* swallow (bird), any variety (Gunther 1936: 110)

?atačib pectoral fin

 $2a\lambda i i$: afterbirth, placenta [N $2a\lambda i'(q-)$]

?atitq^wat black bear, Euarctos americanus (Gunther 1936: 114)

?aλpu' seven [N *?aλpu*]

- ?aP- ?ab- locative root; right in the center; proper, correct, true [N ?am-, ?ap-] ?a'?apwa'yik Wise Wren (story character) ?apxsa'dit right in the middle, in between ?apxta'k^w midnight; divided in the middle ?abit right in the middle indoors; middle of the floor ?apa'citut on the face of a point ?apa'piq peak of activity, tip of mountain ?apa'wadi middle ?apqawa' point of rocky land ?a?abadaqit side of the body, midriff ?a'baqXas in the middle on the ground or woods
- *?ap-*, *?apčiλ* (perf. with impf. sense) carrying, packing on the shoulder [N *?ap-*] *?ar?apirtił* packing something on the shoulder *?apirs* carrying something on shoulder

?apa'?as at the peak, in the very act of doing [N *?ama?a's*]

?apa's nice, cute [N *?apa's-*] *?apa'yida* considered cute by everyone

?apqu' bold

?apt.-, ?aptši\u00fc hide ?apta' hidden ?a'ptuk sneaking around (iter. play hide-and-seek) [N hupt-, hupta'] ?aptsi'wi'ya'p murder sb in hiding

?apta'ba keep a secret [N *huptim*]

Paq wide, big, large [N *Paq*] *Paqaqsił* basket's top is flared out *Paqitqi* big belly, stomach, paunchy *Paqivyił* wide throat *Paqaxs* wide (canoe, container) *Paqas* wide (road, trail, etc.) *Paqiλ* cave [N *PaPiλ*]

?aq́i'yu:k wide opening

- ?as-, ?asuk flock of birds feeding in the ocean [N ?as.-, ?asuk]
- *?asa'ba* high born child [N *?asma(q-)*]
- *?asčix* parent and child together [N *?as-čiħ*] *?a'sčixbik* getter of mother and baby (whale)

?a'sčixpał January (or ?asčixpał?)

?a'sicxwi:tuba niece [cf. N suffix -hwitim]

- ?arsic-, ?arsirqsu nephew [N ?arsic-, ?arsirqsu]
- ?ašx-, ?ašxšit do sth sloppily, mess sth up ?ašxak^w messy, dirty, sloppy (rep. doing sth slop-

pily) [N ?ašx-, ?ašxak] ?ašxk^wa'ya'p do a messy job

?atu but, nevertheless, still yet [N *?ata*, *?at?*]

?atkser?i-q-, ?atkser?i: wood [N *?inksýi*] *?atkser?iqorwas* woodshed *?atkser?iqċirłč* using wood as fuel, burning wood

?atq-, ?atqa·k^w prized, coveted, highly valued [N ?atq-, ?atqa·k] ?atqa·ba valued, sacred

?atxi'-, ?atxi'yu?u: night ?a'txičit evening, dusk [N ?ath-, ?athi']

?ata thick [N ?ata] ?a?ata nickel, 5 cents

?ax^w-, ?axši¹/_x shake sth ?ax^wa^v ?axa^v?a^vx^wa shaking sth

?a'xu'satx Ahousaht Tribe [N *?a'huĭs*(.-)]

?aya- ?ayi- ?ayi- ?ayu-, ?akyi'q many, much [N ?aya] ?a'?aya'pi too many ?akyakiduk many together ?akyapitši^λ many times ?akyi'citqak^w variegated, many-colored object ?akyi'citqał variegated, many-colored fabric ?akyi'ks bringing much, many ?akyu's many in the room, in residence, ?a'yak^wi'ł making many, a lot

?ayisaq-, ?ayisaquk mischievous, tricky [N ?ayisax-, ?a'?a'yisaxa]

- ba ba ba drink (child's word) [N ma h]
- *ba-*, $bači\lambda$ bite, close teeth *ba'* have teeth closed, biting down (rep.) [N *ma-*, *ma'*; *mač.-*] $babatki\lambda$ bite sb on the hand baba'dil fish biting on the line $back^{wi'}$ bite marks $bačak^{w}$

clothes pin, pliers $bak^{wi}duk$ teeth, jaws clamped together bapat bitter $bayak^{w}$ pincher (of a crab) $be'i\lambda$ get sth by biting it $be'itadi\lambda$ bite sb on the nose be'iks carrying sth by hold-ing it in the teeth

ba?ax^w foxtail, horsetail ba?a^wiks eating horsetails

ba?ax two sisters [N ma?ah]

ba?axsi:qsu sister or female cousin of a female [N ma?ah-sýi-, ma?ahsýiqsu]

ba'ba'skad playing with seashells, dolls [N mak-it-q-, ma'ma'kin]

babaxsi:da leader (fish gear)

babeyita fishing for cod with live bait [N *mami't- mami't-a-q-, mami'ta*]

babic-, ba·bi·qsu older sibling or senior line cousin of a female [N mamic-, ma·mi·qsu]
baba·biccuba big toe baba·bicdukuba thumb

ba'blis marbles (< Eng. 'marbles') *ba'ba'liskuk* radish

babu-, babuyak^w working [N mamu-, mamu'k] babu?as going to work babubis a bother, business, work babudak^w have a job babudux looking for work babuktqi basket base babu?uwił office, workroom

ba'cba'yux^wadi: supernatural being (little man with spear spirit) [N *macmayux^w-at-q-*, *ma'cma'yux^win*]

barckward fly (insect) [N *mackw-aq-*, *marckwin*]

baččiba commoner [N *masčim*]

bačidit enter a building bači?i:yił bači?i:ł bač?ił inside a building

ba'čuk going fast on water (e.g. boat, fish)

bačas-, bačasi:da flea [N mačas-, mačasin] bačasał have fleas (e.g. a dog)

- ba·da-, ba·duk^wiλ try, try out, test [N ma·na-, ma·nuk^wiλ] ba·dak^widukšiλ engage in a test of strength ba·dapaλ practice, try out ba·dapeyačiλ taste, sample ba·date·?ił try to imitate, imitate
- *ba'dawi:* smelt fish [N *mańu-q-*, *mańu'*] *ba'dawi'pał* smell like smelt *ba'dawi'?idił* giving a feast of smelt
- *badida:p* leave behind, abandon [N -*inýu*]

baduqši\u00f5 put a spell on, cast a disease object into [N minurq-, minurqši\u00e5]

badwar?atx sailer (< Eng. 'man of war')

bak^w-, bak^wa^{*} bakši^{*} engage in a commercial transaction, esp. buy [N mak^w-, ma^{*}kuk] baka^{*}beyi[‡] browsing bak^wi^{*}duk trade, barter bak^wi^{*}ti²i^{*} store keeper, clerk baka^{*}bi²i^{*}s peddling bako^{*}was store baku^{*}kt a purchased item bak^{*}was go to buy sth ba^{*}k^wa[‡]ak want to buy sth for sb

barla ball (< Eng. 'ball') *barlaksdarqart* playing ball

bała'cadit place name (Ozette site; said to mean 'place where there's always cold water')

bałat-, *bałatši*λ (large object, ground) shake, tremble, move, sway *bałatuk* shaking, trembling [N *mał.-*, *małar*]

bałe ti ?i: widowed brother- or sister-in-law [N małti-q-, małta-, małtir]

- bał/l- bał.-, bałarł cold [N mał.-, małuk mała] babarłcił cold feet babarłduk cold hands
 babarłurk cold all through (e.g. in a house) bałarbeyił cold house bałar?axs cold water
 bałčidiλ enter a cold house bałer?iłta cold nose; west wind bałer?iłtirs west wind barłsit
 cold water barłapi cold (weather, air), barlirks eating sth cold
- baλ-, baλšiλ tie baλa' tied (rep., iter.) [N maλ-, maλa'] babaλeyax policeman baλa'bup tie sth up baλa'pł barrel baλił prisoner in jail baλis sth tied down on the beach baλi'ks towing baλi's towing baλo'was jail baλska'puba rope to attach floats for whale hunting baλtu'p cordage baλa's door locked ba'λqapłeyukuba dentalium headband

- *barq-* be in shade, under cover away from rain or mist *barqcqirba* umbrella *barqč?es* under an awning
- baqi-, baqiq (only with Content-Interrogative mood) what? [N ?aqi-, ?aqaq] baq?iks eating or drinking what? baqičeyał what day? ba'qikċa'p sell what? baqi'wa say, mean what? baq?ixa suffer from lack of, die from what? ba'qi'daxi how?

baqisx (only in Content-Interrogative mood) why?

- *baqλ-, baqλi?i:* left in the care of a baby-sitter [N *maqλi-q-, maqλir*] *baqλardidarp* leave sth in sb's care
- baq^w- tie, fasten [N maq-] ba·ba·q^wi·da·kċuba shoelace babaq^wi·tuba suspenders baq^waqsuba bridle baq^wi·tuba harness
- ba'sa' roasting over coals [N ma's(.-)] ba'sa'dak'' roasting sth in ground under coals
- *basi'wi*^λ wail, mourn, howl
- basšit swelling goes down [N mas.-, masak]
- $ba luk^{wi\lambda}$ take sth to its destination, deliver [N $\dot{m}a\dot{w}a'$]
- bax-, baxši^{\(\lambda\)} trap falls baxa^{\(\barbax\)} trapping birds [N mah-, mahat-] baxa^{\(\barbax\)} trap baxa^{\(\barbax\)} as a trap is sprung
- be'?ic sand dollar
- *birbirda:k* fierce, awesome
- birc-, bircir meat bircxsar wish for, crave meat birbirccu canned meat
- *bick^w-, bick^wa*[,] hesitant, reluctant to do
- bidart-, bidarti landmark for fishing [N minat.-, minarti] bidartat map
- *birdis* beans (< Eng. 'beans') *birdisċak* cooking beans
- *bi?id?a* place name (Baadah Village)
- *birlarč* skate (fish); triangular

bił/l-, biłak^w level, even, flat [N mił.-, miłak] bilis flat, level beach biłars flat on a horizontal surface biłirduk evenly together (e.g. books stacked on a shelf, boards fitted together)
birłałaryarpyak^w mat creaser biłarł smooth birłsarła flat forehead birlas smooth place on the ground, smooth ground

biłsi?i: sealing spear [N *miłs.-*, *miłsýi*]

 $bi\lambda$ -, $bi\lambda a'$ raining $bi'\lambda si\lambda$ start raining (iter.) [N $\dot{m}i\lambda$ -, $\dot{m}i\lambda a'$] $bi\lambda i'yeyak''$ rain coat $bi\dot{q}a't$ sockeye salmon [N mi2at-, mi2a't]

bis-, *bisši*λ smell, sniff *bisa'* smelling, sniffing [N *mis.-*, *misa'*] *bisi'pał* smell sth *bisi'bi?i's* sniffing along on the ground (e.g. a dog)

bistat-, *bistati:* bow (for arrows) [N *mus.-*, *mu'stati-q-*, *mu'stati*] *bistativ* making a bow *bišati:* missionary, preacher

biršarwix black cod [N miršarwiry-, miršarwirh-q-, miršarwirh]

bit-, *bitši* λ spin kelp, cedar bark into rope, dog hair into wool (rep.) [N *mit-*, *mitar*] *bitirbirtckir* a spun rope

birta dime (< Eng. 'bit')

bitu'li: place name (city of Victoria; < Eng. 'Victoria') [N *mitu^{*}ni(q-)*]

- bu'- buy-, bu' four [N mu'-, muy-, mu'] bu'cxi have four wives bu'čeyał four days; Thursday bukyi'q eighty bu'q^wapł four round objects; four dollars bu'q^wičx four years bu'xta'k^w four sackfuls
- *bu-*, *buči*λ burn *bu?ak^w* burning *bu?akši*λ start burning [N *mu-*, *mu?ak muyar*] *bubutk^w* burned on the hand *buckiqaxsyak^w* ashtray *buckir* ashes, sth that is already burned *buk^wirt* sunburned body

bubu'sxa?a:p do sth any old way

bućis-, *bućisak^w* gunpowder [N *mućis-*, *mućisuk*]

buk-, *buk^wak^w* blue

buk^waq-, buk^waqbis gravel [N muk^w-, muksýi]

bukwač Columbian black-tailed deer, Odocoilens o. columbianus (Gunther 1936: 117) (perf. act

like Deer) [N *muwač*] *bubuwačc?ak^w* act like a deer

bukux having lips tightly closed [N *mak^wit- mak^witx-, mak^witak*]

bu'la' engine, machine, motor (< Eng. 'motor') bubu'la?uwił machine room

burł-, burłšiλ tide rising burłuk high tide [N muł.- murł-, mułar murłuk]

bułatąši waves break over jetty

buqu'buqš steaming, boiling [N *muq-*, *muq^wa'*]

buquš mute, dumb [N *muq^wi'yuł*; *mu'qmu'q-?atu*]

buqušbeyił nightmare

bu'sbu's cow, bull [N *musmus-*, *mu'smu's*]

bu'sceyu someday

burs- bursc-, burscur someplace *bursc?ak^w* going swh

bu'sq-, *bu'sqši*λ draw bow, cock gun *bu'sqa'* hold bow drawn *bu'sqak*^w bow is drawn [N *mu'sq-*, *mu'sqak*]

buš.-, bušak^w closed *buša*['] watertight, sealed *bušu*[']*?aq* λ *iita* clogged-up nose *bušu*[']*?asuba* door *bušu*[']*?as* closed (door) *bušu*[']*?a*['] fish trap

but-, butšit cut butu buta cutting [N mut-, muta']

buta's short, bobbed hair

butq-, *butqši* λ cut into small pieces; amputate *butqa'* cutting *butqak^w* cut [N *mutq-*, *mutqak*]

butqču^{*} fish cut in short pieces for cooking *butqk*^w*ačyu*^{*} fish cut in short pieces for cooking *bux- buxu*^{*}*buxx*^{*} boiling, place name (Bahobohosh Point) [N mux^w-] *buxck*^w*i*^{*} steam

bux^wiću ceremonial bird rattle

bux^wi[•] clam or open weave basket, large basket

cacakis razor clams [N cakis-, cakisi-q-, cakisa-q-, cakisi]

caq-, caqak^w head down, on end, steep, vertical [N caq-, caqak]

caqi^{*c*} twenty [N *caqi*^{*c*}]

caqkat-, caqkatši fall forward carqkatuk tumbling along

cask-, *ca'skši*λ (bell) ring *caska'* ringing (rep.) *cacaskadi* continuous pealing of bell *caska'yak*^w bell

cax^w- round *cax^wapt* round, spherical *ca*'*x^wa*'*dit* round (post, pencil)

cax^w-, caxšiλ roll, rotate, spin ca'x^wak^w rolling caxca'xš spinning, whirling ca'waqatu roll
 down caxta'qas wagon caxtqi' steam boat, ship

caxt-, caxtšit rope loosens caxta have loose movement, low tension

- caxt-, caxtši\u03c4 fit loosens caxta^{*} loosely put together, joined, packed [N ci\u03c4t-, ci\u03c4tak] ca^{*}caxta^{*}pi too loose caxa^{*}taxs packed loose in box, basket, sth loose in a container ce^{*}bax-, ce^{*}baxši\u03c4 turn sour ce^{*}baxak^w sour
- *cikyarpuxs* hat [N *ciyap-*, *ciyap-uxsim-q-*, *ciyapuxsim*] *ciciyapuxskuk* black cap berries; thimble; mushroom

cikyeš-, cikyeyu elderberries cikyešbap elderberry shrub

- *ciłuq-*, *ciłuqši*λ splash in shallow water *ci[·]ci[·]tuq^wa* splashing *ci[·]ci[·]tuq́adi* sound like one has water in one's shoes (e.g. squishing along)
- ciq-, ciqši[†] speak ci^{*}qci^{*}qa speaking [N ciq-, ciqa^{*}] cici[†]qadi scold ciqi^{*}ti[†]i^{*} spokesman, one who speaks for you at a potlatch ciqi^{*}yak^w eloquent cici^{*}qyu argue, quarrel ciqi^{*}ba[†]aqsi[†] mumble ciqsi^{*}ta[†] arguing back and forth ci[†]a[†] expert at speaking, good speaker

ciqci qš riding the waves, moving in the wake of a fast moving object

cirt-, cirtšit dip food in oil cirtar cirtcirta dipping in oil

citaq-, citaqši^λ spatter, splash ci⁻ci⁻taqa spattering ci⁻taquk splashing along citaqa⁴ spotted

cix- sour [N *cih-*, *cihuk*] *cixapix* crab apples *cixi pał* taste sour, sour taste *cixapixbap* crab apple tree

- *cuba*['] full (container) *cubi*[']*wi*λ fill up, become full [N *cuma*-, *cuma*[']] *cubi*[']*yuq*λ have a full mouth *cu*[']*ba*[']*di*λ getting full *cu*[']*cuba*[']*pi* too full
- *cuc-*, *cucši*λ scratch *cu[·]ccu[·]ca* scratching [N *cuc-*, *cucši*λ] *cucar*⁴ fine striped fabric *cu[·]cu[·]ci[·]da* chipmunk, *Eutamias* sp. Gunther 1936: 116)

cup-, cupših liquid flows out cupuk liquid flowing [N cup-, cupak]

cu's-, cu'sšit liquid flows cu'suk liquid flowing cu'yaqatu waterfall

cusk-, cuskšit animal (esp. dog) urinates cuska' urinating [N cusk-, cuska']

cux-, *cu^wit* coho, silver salmon [N *cux^w-*, *cu^wit*] *cux^wakt* dried silver salmon *cu^wit*xsa wish for, crave silver salmon

cxe' cxe' cxe' interj. Qweti's laugh

ca-, ca·?uk river, creek, stream, flowing water, ocean current ca·?ukšiλ starting to flow [N ca-, ca?ak] cabałsuqλ intestinal noise cack^wi driftwood cacak^widuk waves flow together causing whitecaps cacadadibałsuqλ intestinal noise cacadadiksuqλ growling stomach cakstars (to) drain car?ardił bunch of junk floating around car?ardiłačakt current

ċa·*bap* sound, large body of water [N *ċa*·*maqak*]

ćaća kłćuba toe

caca kłdukuba finger

ċaċa'txaċiy place name (south fork of stream off Educkat)

ċa'ċa'?uqš gaffing fish in stream or river *ċa'ċa'?uqšpał* November

ċada'č large bullhead, rock cod [N *ċana'č*]

 $\dot{c}a'k''$ antler; barbs made of antler on whaling harpoon

ċak̇^waq-, *ċak̇^waqbis* dust, dirt, mud [N *ċak̇^wa-q-*, *ċak̇umc*]

čapi' separate *čapi*'*xta*'*k*^w apart

carpid red-breasted merganser, *Mergus serrator* (Gunther 1936: 107) [N *capatq- capitq-*, *carpin*]

capirs capirks carrying along holding against chest [N *cap- cam-*] *capirsiryit* holding on lap *capiryit* hold on lap or knees

captši^λ sting, smart (e.g. a wound) [N *capt-*, *captar*]

ċaq-, *ċaqa'bis* outer tree bark [N *ċaq-*, *ċaqmis*]

ċas-, *ċasapł* grey-haired [N *ċas-*, *ċasmis*]

*ċa'sq-, ċa'sqši*t knock *ċasqa'ċa'sqa* knocking *ċa'sqsa'?ati?i'* knock at the door

*ċatši*λ narrowly avoid an accident, e.g. *ċatš?aλits hick^watši*λ 'I almost tripped' [N *ċat-*, *ċatar*]

- *ċa?uł-, ċa?ułši*λ surf gets rough *ċa?uła* waves, rough surf [N *ċa-?uł-, ċa?uła*] *ċaċ?ołči?a*[,] harlequin duck, *Histrionicus histrionicus pacificus* (Gunther 1936: 107, glossed literally as 'bird that lies in the surf')
- *ċawa'- ċawi'- ċawu'-, ċakwa'?ak*^w one [N *ċawa'-, ċawa'k*] *ċaċawadak*^w each having one *ċaċa'waksił* Sasquatch *ċakwa'ċiq* one long thin object, one o'clock *ċakwa'suba* nine *ċakwi'sta* one rider in a vessel *ċakwa'čeyał* one day; Monday *ċakwa'čiduk* going swh alone *ċakwa'qapł* all one family *ċakwa'siwi'* for one person to die *ċakwi'sacu* all in one place *ċakwu's* home alone *ċakwu'?it* once *ċakwu'si'da'p* to leave sb home alone *ċa'wu'bał* one surviving

ċaweyu:s rainbow [N *ċawa-yu's*]

ċawił king salmon, spring salmon (saltwater name)

 $\dot{c}ax^{w}$ -, $\dot{c}ax\check{s}i\lambda$ spear, hurl spear (rep.) [N $\dot{c}ax^{w}$ -, $\dot{c}ax^{w}a'$] $\dot{c}axa'yak^{w}$ spear

 $\dot{c}ax$ -, $\dot{c}ax\dot{s}i\lambda$ raise the eyebrows $\dot{c}axu$ having a certain facial expression (looking pleasant) $\dot{c}ayiq$ ceremonial healing (group and songs) [N $\dot{c}ayiq$]

ċaryupsi: kelp, seaweed [N *ċaýi-q-*, *ċarýimc*]

ce?idiwa goose neck barnacles (known locally as 'boots') [N *ce?it-q- ce?in-wa-q-, ce?inwa*]

ċi- ċi'-, ċičiλ (liquid) go out of a vessel ċi' ?uk going out of a vessel (rep.) [N ċi-, ċičiλ]
ċi?ałyak^w perfume ċi'?aġatu downpour of rain ċi' ?iλ scoop up water in a vessel ċi'?i'ks
drink from a cup ċi'?i'ksyak^w cup

ċi-, *ċi?as* vessel lying on side [N *ċi-*, *ċi?as*] *ċi'?a'pi* aslant, overbalanced

ċiba'x^wa?a' kelp cod, kelp sucker *ċiba'x^wa?a'pał* October

ċibiċibi: mouse, rat

ċibiťawi: squirrel, *Sciurus* sp. (Gunther 1936: 116) [N *ċipťa-q- ċimťa-q- ċimťax^w-, ċimťu*^{*}]

cick.-, cickših throw, pound (rep.) [N cick-, cicka'] cickcitabih get hit on the head with rock

cickiyak^w hammer *cicki?i*⁴ pounding sth on the floor *cickiya*^v throw sth to sb *circkapi* bouncing

ći'ći'kata rocking a canoe

ċi'ċi'xkata pulse, heartbeat, throbbing

ċi'dax-, *ċi'daxši*λ tide goes out *ċi'daxuk* low tide *ċi'daxtup* small black chiton(s)

cidiwis minus, slack tide, low tide

ċi?is- braided [N *ċi?is-*, *ċi?isak ċi?isa*] *ċi?isapł* braided hair *ċi?isču* finished braiding

ċi'*kċi*'*k* wagon [N *ċikċik*^w]

ċikyup intestines, guts [N *ċis-*, *ċiyup*] *ċiċiyupkuk* macaroni, spaghetti

*ċik^wixši*λ reenact a bad dream to prevent it from coming true

ċik̇^wa'bac neck [N *ċik̇u-q-*, *ċik̇́umc*]

ċivŧku?u: dolphin [N *ċivŧk-uḥ*]

ċił/l-, *ċiłak^w* soft, yielding earth, mud *ċiłi'ċi'ł* muddy, soft mud [N *ċi'łk- ċi'łx-*, *ċi'łkak*

ċirtxak] *ċiċirlas* muddy puddle *ċitirċirtyak^w* swamp

*ciptap*⁴ hair dripping wet [N *cipt-*, *ciptak*]

ċirq-, *ċirqar* singing secret chant with a rattle [N *ċirq-*, *ċirqar*]

ċis-, *ċisak*^w in a line, file, strung out; measured [N *ċis-*, *ċisak ċisar*] *ċisturp* rope, string *ċirsapi* telephone line *ċiċiryas* black mountain berries *ċistqirpuba* buoy ropes for whale hunting *ċirsapixwarłyak*^w telephone (object)

ċisa^{*i*} hate, loathe [N *ċiċis-a*]

čisa-q-, čisabac sand *čičisaqis* sandy beach *čičisaqkuk* sugar *čisaqis* sandbar

cisatut fish gear

ċi sayaxtib cork line

*ċiša'?at*x Tsishaa Tribe [N *ċiš-ař*]

*ċitk^w-, ċitkši*λ twist, turn over *ċitk^wak^w* twisted, lying on side [N *ċitk^w- ċink^w-, ċitk^war ċink^war*] *ċiċitk^was* watermelon *ċitk^wit* lying on one's side in the house *ċitk^wirbeyit* twisting on floor while lying down *ċitk^waqsuba* the weave along the rim of a basket

ċirtq-, *ċirtqši*λ squirt *ċirtqar* squirting [N *ċirtq-*, *ċirtqar*]

ċixat-, ċixati: arrow [N *ċirhat-, ċirhati*] *ċixatsac* quiver (for arrows)

ċi'yukuba dipper, cup [N *ċi'ýukum(q-)*]

cułwiż wash [N cu-, cuyar] cubeyił washing the floor cucukswi?iryak^w tooth brush
 cucutkiż wash one's hands cu?eyukyak^w shampoo cuksac wash pan, tub cuqorwiżsac
 sink, wash basin cuqorwiżyak^w sink, wash basin, wash cloth cu?urwas laundromat

ću bax^wasatx Sumas Tribe

ċu'buq^was place name (Alberni) [N *ċu'ma*2-as]

ċuca^{*i*} tippy, unstable canoe [N *ċuc- ċuck-*; *ċuca^{<i>i*}-, *ċuca^{<i>i*}; *ċuck-*, *ċuckak ċucka*^{*i*}]

ċuk^wic-, *ċuk^wa^vpi:qsu* grandson

cuk^wicxwi:tuba granddaughter

*cupkši*λ kissing sound made to babies [N *čapk^w-*, *čapkši*λ]

 $\dot{c}uq$ -, $\dot{c}uq\ddot{s}i\lambda$ hit with fist, punch $\dot{c}uqu\dot{c}uqwa$ punching [N $\dot{c}uq$ -, $\dot{c}uqwa$] $\dot{c}uqcidabi\lambda$ get punched on the head $\dot{c}uqsu\dot{t}ad$ boxing

cus-, cusšiλ dig cusa digging (rep.) [N cus-, cusa] cucuryas ditch cusuryak^w shovel cuyis hole dug in the beach cursa dit ditch curyas Sooes village curyassaqsup woman of Sooes
custk-, custku new [N cuš.-, cušuk] custku da k^w have sth new custurk^wa?arp buy a new one
cux-, cuxšiλ stab [N cux^w-, cux^war] curx^wardit halibut backbone

čaba- čaba- right, proper, as desired; arranged; on the right-hand side [N *čama- čim.-*] *čabakš?ibił* sensible, wisdom (said of a woman) *čabaq*λ sensible, wisdom, good at, skilled at (said of a man) *čabarsiła* do the right thing *čabarcars* right hand or arm *čabarcpar* lie on right side, right side *čabiryarp* proper person *čabiry?ak^w* capable, intelligent person, good (quality), proper *čabiryił* clear throat

*čaba[·]ci:qu*⁴ sober, sane [N *čami[·]q-u*⁴]

čabaquł sober, serious, calm [N *čami'q-uł*]

čabas sweet (rep. smacking lips in anticipation of good food) [N *čamas*] *čabasbap* pine tree, white fir tree *čabaspał* sweet smell or taste, taste sweet, smell good *ča[·]bassit* soda pop

čačaba'yaqt cake, candy, pastries

ča baťa chief, wealthy, rich [N ča maťa]

čabe'?i[{]/_i[{]}</sup> bed [N *čim?i*[{]/_i[{]}</sup>]

čabixt very good

čavbuvk cedar bark splits easily

čabuł be able to, can

čaburpiqak^w untangled rope [N *čarmaqsa-q-*, *čarmaqsak*]

čačabaxi correct, right [N čačimhi] čačabaxi yik always fixing sth

ča'ča'bucqa talking dirty, slang, talking about sex

ča'di' place name (Tatoosh Island)

čapx^w-, čakup male, husband [N čapx^w-, čakup] čapxa'da'k^w married woman

- *čaper?i-q-, čaper?i:* heart *čačapiqčar?ap* heart pain *čaper?irčar?ap* heart pain *čaper?iqčar?ap* sore heart
- *čapxtu'p* fur seal harpoon (barbs of elk antler)
- *čapxu'ł* fast (person)
- *čaq-, čaqši* λ shove, push *čaqa'* shoving (rep.) [N *čaq-, čaqa'*] *čaqcuk* require kneeding *čaqiya'* push sth over to sb
- *čašx^w-, čašxši*λ act swiftly *čašx^wak^w* walking quickly [N *čašx^w-, čašx^wak*]
- ča'wiq-, ča'wiqak^w sad, miserable, lonely [N ča'wiq-, ča'wiqak] ča'wiqsuqt lonely, sad (said
 - of a woman) $\check{c}a$ wiqut sad face $\check{c}a$ wiq $aq\lambda$ lonely, sad (said of a man)
- čaxčaxa dripping
- *ča'yax^w* picking berries [N *čaýax^w.-, čaýax*]
- *čaybo*[,] clam chowder
- čaydertx Chinese
- či^{*} pull steadily či^{*}\u03c6 či^{*} ya pulling hand over hand [N či^{*}] či^{*} či^{*} či^{*} ksupta^{*} tug of war či^{*} ?aqatu pull sth down či^{*} ?i\u03c6 pull sth to oneself či^{*} ?i^{*} ks trawling či^{*} či^{*} ?ayi^{*} pulling sth along with force
- čibiqaba:tx Chimicum Tribe
- *čibu-q-, čibu⁻da* halibut hook *čičibuqš* halibut fishing [N *čimut-q-, čimun-q-, čimun*] *čibuqxwa⁻t* using a halibut hook *čičibuqsput* bow-legged *či⁻čibuqsta* bow-legged
- čič-, čiči?i: tooth, teeth [N čič-, čičiči-q-, čičiči] čičičča'?ap tooth ache
- *čičkawas* dog salmon, chum salmon [N *hinku'?as*]
- *čidi[·]q-* cut cross ways *čidi[·]qk^wači* λ cut up meat in a certain way *čidi[·]qakt* dried seal, whale, or game meat

či'du'psi:qsu sister-in-law m. cos./brother-in-law [N *či'ńic-*, *či'ňupsiqsu*]

 $\check{c}i\check{k}^{w}ax$ -, $\check{c}i\check{k}^{w}ax\check{s}i\lambda$ stretch $\check{c}i\check{k}^{w}axak^{w}$ stretched (rep.)

čilax-, *čilaxši* λ sag, become loose fitting *čilaxak*^w sagging (rep.) *čilaxap*⁴ oval, football *či*⁴-, *či*⁴*ši* λ rip, tear *či*⁴*a*^{*} ripping *či*⁴*ak*^w ripped

či q tisatx Chickleset Tribe [N či q tis?ath]

čišk-, čiškšit jerk the head, beckon with the head (rep.) [N čisk-, čiska']

čit-, čitših saw či tči ta sawing [N čit-, čitar] čiti yak^w saw (tool)

čix^w-, čixših chunk, piece, part falls out čixuk easily breakable [N čix^w- čix^w.-, čix^wak čix^war]

ču- bent over *ču'?uk* sneaking up on [N *ču-*, *ču?ak čuyar*] *ču'?a'pi* crouching *ču?as* (dog) cowering on the ground

ču'da vagina, vulva [N *čuňa*(*q*-)]

čuk^wi?i: eel

čuša' leaking

ču?ułtaba ču?iłtaba nose

čux-, čuxšit tickle čuxčux^wa tickling [N čux-, čux^wa']

ča-, ča?ak^w water [N ča-, ča?ak] čaċitqšiħ choke (on water) čačaqabaqħsił cry, teary-eyed čačaqadiksuqħ for one's stomach to rumble čaksac water container čak^wistas spring water ča'ksabiħ runny nose čakwaxsił drool čaqħa' blister ča?aqatu waterfall ča?as temporary pond, puddle ča'ča'ksitas slough in tide flats ča'ksit watery če?i'ks drink water če'?iħ get water če?i'yuqħ water in the mouth če?i'ksyak^w water drinking cup če?i'xa thirsty

ča·da-q-, ča·di· not see ča·daqši t gone out of sight [N čani-q-, čani·] ča·daqpiq overlook

 $\check{c}a\dot{t}$, $\check{c}a\dot{t}\check{s}i\lambda$ split lengthwise [N $\check{c}a\dot{t}$ -, $\check{c}a\dot{t}a'$]

čała ča fingernail [N čałča(q-)]

ča'p-, ča'puk manned canoe, canoe party [N čam-, ča'puk]

ča·p-, ča·pšiλ skim from the surface of a liquid čapa·ča·pa skimming [N ča·p-] ča·psitiλ skim oil from the surface of a liquid čab-, čapac canoe [N čam-, čapac] ča beyuq go by canoe, riding in a canoe čačapačakti peas čapacas uba breast bone ča paci make a canoe

ča psa?a: a certain moon phase

čaqat-q-, ča qa du ?u: crow čačaqatqkuk blackbird čaqatqbap wild honeysuckle, crow berries

- *ča·stubac* Pacific mink, *Mustela vison energumenos*; this word was not recognized by HW, but is listed by Gunther (1936: 114) and appears to be a perfect cognate to N *častu-q-*, *ča·stimc* 'mink'
- čat-, čatši\u03c6 paint, draw, write, color čatak^w broad stripe [N čat-, čatak] čataċis blackboard, desk čatałċeyak^w blackboard čatarłorwas post office čatarł letter, written document čataryak^w chalk, crayon, pencil čatarłqeya\u03c6 for mail to arrive čatarłsirċap send a letter čatarwadi marked bone in slahel (bone game) čatču?ur design (drawn or made) čatčur crest čatirs note taking čatirt streaked on the body čatirti?ir secretary čati?ir family crest, design čatturp color, paint, dye čatuwił artroom čałaq\u03c6cu photo, picture čałaq\u03c6cuk^wirł printing film for pictures čałaq\u03c6cuyak^w picture frame čałaq\u03c6cirdarpyak^w camera čałatu (to) divorce sb čałik artist, author, writer čartapars signal flag, banner čartardi\u03c6 apply paint or make-up
- čatq-, čatqšiλ spoon up čatqa čartqa spooning čatqa yak^w spoon čatqa yakbap galvanized metal (spoon material)

ča'?u'q^wił dizzy, drunk

ča?uš raw, uncooked, green fruit; brass [N *ča?uš-*, *ča?u^{*}s*] *čač?uškuk* bronze *čač?ušwadi* musket *ča?ušap*ł brass kettle *ča?u^{*}wiks* eat sth raw

ča'wickey purple

- čax-, čaxšit urinate (said of male) čaxa yak^w penis
- $\dot{c}i$ -, $\dot{c}i\dot{c}i\lambda$ cut sth soft, e.g. meat, fish $\dot{c}ikya$ cutting (rep.) [N $\dot{c}i$ -, $\dot{c}iya$] $\dot{c}i\dot{c}icitab$ peach, plum, nectarine $\dot{c}iksta$ as crevice $\dot{c}ixtak$ (already been) cut apart $\dot{c}iyak$ knife $\dot{c}i$ at cut on a

person či kciyap castrate, geld (an animal) či kidu kstars canyon či yaksa?a' captain's hat

čiči wadi humpback whale čixti yup behead či ksa?a bangs, haircut

čibart canoe mat

čiči bu?u: scapegoat [N čičmu-q^w-, čičmu']

 $\dot{c}i'da'k''$ -, $\dot{c}i'da'k\check{s}i\lambda$ pay a sympathy call $\dot{c}i'da'k''il$ funeral, wake

čidi par hair wrestling [N *čin.-*, *činar*]

či?ic butter clam

čikyax-, čikyaxšit fry food čikyaxbałasyak^w frying pan čikyaxču^v fried food

čił-, čiłšiλ weave together čiłi či ła weaving [N čił.-, čiła] čiłtqi ba basket base weave

čirłseyap screech owl, Otus asio kennicotti (Gunther 1936: 109) [N kirłcurp]

 $\dot{c}i'\dot{t}\dot{s}i\hat{\lambda}$ escape, run away [N $\dot{c}i'\dot{t}$ - $\dot{c}i'\dot{t}^{w}$ -, $\dot{c}i'\dot{t}\dot{s}i\hat{\lambda}$]

 $\check{c}iP$ -, $\check{c}ip\check{s}i\lambda$ plug, jam in $\check{c}ipak^w$ plugged [N $\check{c}im$ -] $\check{c}ibaxs$ jammed into a container

čipska plug, stopper

či psi di: sudden downpour

čipitab fish scale [N *čipał-*, *čipałmis*]

čirš-, čirššit sweep [N čirs.-, čirsar čirsak] čirširti?ir janitor čirširbeyiłyak^w broom

čiši yu?u: belongings of the dead (items thrown away)

či^{*}šk-, či^{*}škšiλ shave, scrape [N či^{*}sk-, či^{*}ska^{*}] či^{*}škaqsiλ to shave (oneself) či^{*}ška^{*}ta^{*}ya^{*}p scrape sth off

čivškali: western belted kingfisher, Megaceryle alcyon caurina (Gunther 1936: 110)

čit-, *čitši*λ turn sideways, on edge *čitak*^w sideways, on edge [N *čit-*, *čitak čitar*] *čitačakt* gill net set in ocean *čitarbuba* horizontal longhouse planks *čitis* gill net set in river

čirt-, *čirtar* dig clams (rep.) [N *čirt-*, *čirtar*] *čitiryak*^w clam digging stick

čiťap-, *čiťapuk* whale *čiči ťapa taxyak*^w whaling canoe *či ťapbik* getter of whales

čitas-, *čiteya*, a person) feeling cold *čitasši*λ feeling cold [N *čitas-*, *čitasši*λ; *či čin-irk*]

- čiT-, čitir soft, easily torn čitirwiλ soften [N čitkis(-?is), čit?is] čičidis soft beach
- *čiti•bit* hemlock bark dye [N *či•t-mita*]
- *čiťur*^{*w*} war club [N *čiťuq*^{*w*}-, *čiťur*^{*t*}]
- *čix-*, *čixuk* shaking, trembling, having chills (rep.)
- čix^w-, čix^wa' ghost, scary thing; dead person; worm, bug; penis (slang) [N čih-, čiha']
- *čixi da k*^w one caring for the dead *či či wapuł* dream about bad things or about dead people *či xparł* six
- čiņšiā čiņ^watšiā get startled, frightened [N čihat-, čihata]
- ču-, čupał stink, have an odor [N ču-, čupał] čubap denim jeans, overalls čuču kcił stinky feet čučuwaxsił gray or timber wolf, Canis gigas (Gunther 1936: 115) ču?is Stinking Beach (place name)
- *čuč-* twist, spin into string [N *čuč-*, *čuča'*] *čučqi'* hair in a bun *čuču'ba* mountain goat, *Oream*nos americanus americanus (Gunther 1936: 117)
- *čučq-*, *čučqak^w* bunched up, wadded [N *čučq-*, *čučqak*]
- *čuksi?i:* long, green worm-like creature living on the beach
- čuks-, čuksi?i: freckle, mole čuksu'ł freckles on face
- čuku dabi: song sparrow, Melosphiza melodia (Gunther 1936: 113) [N čukna(q-)]
- *čuš-*, *čuša*^{*·*} suspicious, aware (of sth) *ču[·]šuk* careful [N *čuš-*, *čuša[·]*] *ču[·]štis* careful, cautious, use care
- da?a' hear, perceive, sense $de?i'wi\lambda$ incep. [N na?a'] $da?a'\dot{p}a\dot{t}$ smell, recognize by smell $da?a'\dot{t}?e\dot{t}$ pretend to pay attention $da?a'ksuq\lambda$ sense, feeling inside (said of a woman) $da?a'q\lambda$ sense, feeling inside (said of a man)
- da?a'?ux listen [N na?a'tah]
- daba- only [N nama-]
- daba- tired dabakš?ibił tired (said of a woman) dabaq λ tired (said of a man)

dabart have a party, potlatch

dač-, dačšit look; look in on, check on da csa da ca da sa see [N nač-, na csa; naš-, našit] dačasi?i' looking down into the water $dača'witvak^w$ mirror dačaxut looking at front of sb's stomach $dača'yi\lambda$ go in for a quick visit, pop in for a visit $dača?a'\dot{c}it$ looking up at the sky dača bałid looking around in the ocean dača beva?a' looking around on the rocky shore *dača čakt* looking at the ocean *dača pevit* looking at sb's back *dača ću* looking in a bag dačcpa⁻ looking over a wall or partition dačis looking down on the beach dači⁻duk two people looking at each other $da\check{c}k^wada$ looking at bow of canoe $da\check{c}kapiq\lambda$ look back where one was dačksa wir realize sth dačai looking at top of sb's head dačsa wir clear (as glass, an opening), see through opening dačuv looking at sb's face dač?oł see, discover, find $da\dot{c}ak\lambda i$ looking at sb's bottom $da\dot{c}aq\lambda$ looking at, inside a solid enclosure (eg. hold, oven) dačadatu looking down dačas looking down on the ground dačatu brief visit dadačuvk looking around dada'ča'yił watch sb leaving or passing by dada'čćił looking at sb's feet *dada'čdab* watchman, lookout, Peeping Tom *dada'čduk* looking at sb's hand(s) dada'čiduk^waqhsił cross-eyed dada'čaqatuksił look down with eyes da'čapi looking up *da'čtis* copying sth from a pattern or model by looking *da'ča'dit* looking along a straight, long object (e.g. river, road) da'čpał looking across sth with sides (e.g. river, road) dačkatši t catch a glimpse of

dada'ya:k tattle

dade'?iqsu grandparent [N *nani- nanic-, nani'qsu*]

dahu bšatx Snohomish Tribe

daka' sun, moon [N *na's*]

dakw?as lounging around, sitting around chatting [N naw-a^xs-]

dari-, *dariši*λ watch, observe *dadaribaiaii* to read *dadaribaiaiyakwit* library *daripadač* sightseeing *dadaribaiaiyak*^w book *dardaridabeyak*^w watchman *dariaiorwas* theater *dariayak*^w article for display, display

darłarwi strange, awesome, unusual sight [N *narł-arwi*(-*q*-)]

da'*pak*^w coiled [N *na*'*p*-, *na*'*pak na*'*pa*']

dapitaq entirely, all at one time [N napin-aq-, napinaqak]

daš-, dašuk strong [N naš- naš-uk-, našuk] dada'šduk strong hands $dadeyaq\lambda$ strong person, stronger, very strong daša strong cloth (i.e. denim) daša'pa strong, bitter tasting

daša'ću' packed in tight dašqapł packed tight

datat bump, nudge, touch, glance off, bounce off

 $da^{2}u^{\prime}$, $da^{2}u^{\prime}k$ accompany, go with [N $na^{2}u^{\prime}$ - $na^{2}u^{\prime}k$] $da^{2}u^{\prime}qs$ ride along with

da'?uk^wa:čix help da'?uk^wa'čixyak^w nurse

daxa tač mallard duck, Anas platyrhynchos platyrhynchos (Gunther 1936: 106) [N nahťač-,

na'<u>h</u>*tač*] *dada*<u>x</u>*tačkuk* teal duck?

daya'ču?u' echo [N nayiq- nayi?i'q-, nayi?i']

de'di'sq^wa: robin

de'?i'yux share food with

di'?atu sink [N ni-; ni'tk-?atu]

di'ċa(-q-) short *di'ċi'wi*λ get short [N *'ni'c*, *'ni'c-?is*] *di'ċaqap*⁴ short *di'di'ċaqsta* short legs *di'ċar?u:p* bottom piece of two pronged fur seal harpoon (yew)

dił penis (child's word)

diłq-, diłqšit grunt diłqa' grunting [N ńiłq-, ńiłqa'; łinq-, łinqa']

 $di\lambda$ - lying on back $di\lambda i di\lambda a$ rowing [N $\dot{n}i\lambda$ -, $\dot{n}i\lambda\dot{s}i\lambda$] $di\lambda i lying$ on back on floor or inside $di\lambda i yak^w$ oar $di\dot{\lambda}a$ lying on back on ground $di\lambda a yi\lambda$ fall backwards into the house (e.g.

when someone opens the front door one is leaning on) $di\lambda a s ca$ lying on one's back on the roof

 $di\lambda a'k$ fight [N $\dot{n}i\lambda k^w aq$ -, $\dot{n}i\lambda a'k$]

di\u00e7kat-, di\u00e7kat\u00e5i\u00e7 move one's head back, bend, fall backward (rep.)

- diq-, diqši λ sew diqa' diqi'di'qa sewing [N $\dot{n}i$ -, $\dot{n}iya$ '; $\dot{n}iq$ -, $\dot{n}iqa$ '] diqi'ba net twine, thread diqi'yak^w sewing machine diqsac sewing basket
- *dis-*, *disa·k^w* have a full stomach, satiated *disi·wi*λ get full [N *nis.-*, *nisa·k*] *didisča·?ap* lazy from being full, in pain from over-eating *disi·citqši*λ belch

diti'da(-q-) Nitinaht [N nitina-q-, ni'ti'na?a] diti'da?a'tx Nitinaht Tribe

ditup dituk beam [N *nit-*, *nitup*]

dix-, *dixak^w* tangled, bunched [N *nix-*, *nixak*] *dixapł* tangled, bunched hair, wrapped around *didi^{*}xsabowas* grapes

dix-, dixi'ču?u: overturned stump with tangled roots [N nih-, nihuk] dixi'?as uprooted tree

di'ya' place name (Neah Bay) [N ni'ya'] di'ya?aqsup woman of Neah Bay

du ba all, every, both *du bačiduk du bakiduk* all together *du ba pi*λ put all (of sth) on one's back *du beyučeya*ł every day *du du baq* go together with sb *du beyu* always *du b?iksči*λ

eat it all du bisartx all tribes, nationalities, everybody du du baskabit both arms

duči?i: mountain duči'wit become a mountain [N nuč-iřq- nuč-, nuči']

dučak^w egg *dudučakkuk* light bulb

du'du'cis making fun of, taunt [N nu'-ti?ił- nu'ti?ił-aq-, nu'ti?iła; nu'-hi']

dudučači: glossed in the Makah Dictionary, preliminary English-Makah wordlist (p. C-4) as

'chickadee'; perhaps refers to the same bird as Gunther's (1936: 112) *dūdūtcīktcadx* Oregon towhee, *Pipilo maculatus oregonus*

 $du^{k} - du^{k}$, $duku^{k}$ song $dudu^{k}$ singing [N nu^{k} , $nunu^{k}$] $du^{2}i\lambda$ start a song $duku^{k}cu^{k}$ phonograph, radio $du^{k}a^{k}q\lambda$ phonograph, radio $du^{2}a^{k}qa$ a large group singing *du'du'quq^wa* wishing for someone else's food

duku'yac pitch-wood [N *nuk^wic-*, *nuk^wi'c*]

du'pi-, du'p?ek^w all over, scattered about [N *nu'pi-*, *nu'pi?ak*] du'picaqabi¹ go around every-

where, all over *du'picaxtači* \$\chi\$ go around everywhere

dupica:dax every kind, variety dupica'daxa?a'p buy all kinds of things

dupu'yaq harpoon shaft

dupxta' near fatal injury, fatal blow, die instantly on be struck [N napxta'(-q-)]

dupxta' very sleepy, can't keep eyes open

duq-, duq^wi?i: abcess, boil, suppurating tumor [N *nuq-*, *nuq^wi'*] dudu'qsił stye in eye

*duqši*λ swallow food or drink [N *ňu*2*aq*-, *ňu*2*aqši*λ]

du'siq small degree, slightly better *du'siqi'wi* λ incep. [N *nu'saq-a nu'saqak*]

duš-, *dušši* distribute property in a potlatch *duša'* distributing [N *nuš.-*, *nuša'*]

du'štid crybaby, delicate (story character)

dut-, dutu'dutš rolling, rotating [N nu't-, nu'ta', etc.] dutapł hoop, round disk, wheel

duwa'du' we, us [N *ni'*<u>h</u>-, *ni'*<u>w</u>*a*]

du'wiqsu father [N *nuwi(c)-*, *nuwi'qsu*]

 $du'xk^w a \check{c}i\hbar$ become sun-cracked [N $\dot{n}ux^w$ -, $\dot{n}ux^w a'$]

du xlu bi:?atx Lummi Tribe

dux^wac pocket

?ed but, emphatic particle

?e'?e' interj. my! my!, wow! ?e'?e'k#?it terrific

?e'?e'?išiya hurry, do quickly [N ?e?iřš-, ?e'?e'?iša]

?e'?i'ktaqš magical, perform a miracle [N ?e'?i'k-taq-, ?e'?i'ktaqš]

?e'?is Indian dice game

?evpilis apple (< Eng. 'apples') [N *?epit-q-*, *?evpinis*] *?evpilisbap* apple tree

ha'?at bass fishing gear, bass fishing [N ha'?at] ha'?atbap devil's club

- habuqadi: baby fur seal
- *hacis- hacs-* this way, this side [N *hačis*] *hacispa* this side, on this side *hacse'?iya* come here, this way
- ha·ċa(-q-) long, tall ha·ċi·wiλ get long, tall [N ha·ċa(q-)] ha·ha·ċaqsta long legs ha·ċaqapł
 oblong tall container, tall basket, tall person ha·ċaquł having a long snout

ha'ca'?u:p top piece of two piece fur seal harpoon (longer piece)

haćic-, haćicšit run ha ha dica running haćic piq run past haćići t ran over, trampled

ha'ha'cicsupťa'f foot, horse race

ha'ćił near, close by

haćuk^wit large end of a whale's intestines hahaćuk^witkuk cannon

hada' interj. say!, hey, you! [N ha'ni hani hane']

hade'?iqsu aunt, uncle

hadid pink or humpback salmon [N *hinku'?as*]

- *hat-q-, ha'diq* common Canada goose, *Branta canadensis canadensis* (Gunther 1936: 106) *hahatqkuk* domestic goose
- *hadita-q-, haditap* strawberries [N *kałkint- kałkintapimł-, kałkintapi*[,]*h*] *hahaditaqkuk* bracken fern, birthmark

ha^{*h*} interj. what did you say?

haha'čłwi:s northwest, northwest wind [N *hačł-*, *hačłi'\lambda*]

hahaqčuba hahaqčiba hardly, barely, slightly [N hahaqčim]

ha ha yacaqa stuttering

haku- hunger, famine [N haku- hak^wi-] hak?uxa hungry

hakwa'diš sea lion, Eumetopia jubata (Gunther 1936: 115)

hakya'qawi\u00fc forget [N hayi'qul]

 hak^{wit} , $hak^{wir\lambda}$ borrow [N $?ak^{wat}$ -, ?akut-, ?aku

hała'-, hała'čit pay [N hała'-(q-), hała'čit hała'ba payment

hative invite, ask to accompany one in doing sth [N hative]

harlqard interj. this foolish thing, oh you!

hama feces ha'tha'meya diarrhea [N hama's-] hama'o'was toilet

ha mica a kind of dance [N ha maca-q-, ha maca] ha miceyak dance gear

harps hops (< Eng. 'hops') [N *herps*(.-)] *harpsirt* picking hops

hap-, hapsa'yup hair, fur [N hap-, hapx-, hapsy'up] hahapat furry hahapaskabit hairy arms hahapswi?i' hairbrush, hair in teeth haha'psuba eyelash hapaqsit mustache, has whiskers hapi't having hair on the body hapa'čiba pubic hair hapa'?aqsit goat (hair under the chin) hapaqsuba beard, mustache, whiskers

ha'qał willing [N ha'?ał]

ha'šha'ša breathing [N haš-, haša']

hašił knowing about, having news of [N hašił] hašiłča ?ap interest ha šiłux curious

hati' soaking in water hati'cki' has been soaked

hatu badi: swan, little brown crane, Grus canadensis canadensis (Gunther 1936: 108)

[N hatu-q-, hatumin-q-, hatumin]

haťa'di' bathe [N hať-inq-, haťi's] haťa'diksac bathtub haťa'di?uwił bath room

hatu-, hat?uk wading hatubeyis wading around on beach, in the surf

ha·wa-, ha?uk eating ha?ukši\u03c6 eat, start eating ha?uba food [N ha\u03c6a-, ha?uk; ha?um] haha·?uba·tax going to get food, fishing haha·wakcuba witness to a potlatch invitation ha?ubadak^w have food ha?ubi?i·tap bring food as a gift ha?ubi·ks bringing food ha?ubasaxta·k food, staples ha?ukši\u03c6ckida eat lightly, have a light lunch ha·waca·q busy eating harwacis dining table, table harwa?uwił dining room harwa?urwas cafe, restaurant,

dining room hawačyu have already eaten hawa'qa a large group eating

hawićaqš telling a story

haxkatši tall forward, bow

hax^w- lie on one's front hawit lying facedown on floor hax^wa's lying face down on a horizontal surface

hax^wi'dukš bentwood box, chest, trunk

haya'- not know, be uncertain [N *haya'*-, *haya'*?*ak*] *hakya'q* λ worry (said of a man)

 $hakyaksuq\lambda$ worry (said of a woman) hayapadač lose direction, wander around lost

hayte'?atx Haida Tribe [N hayti'-?ath]

hayubat-q-, hayu badi' (a) swing hayubatqšiλ (to) swing ha hayubatqa swinging he?icx-, he?icxšiλ sneeze (rep.) [N ha?icx-]

hi- have face against, towards, head located $hi\check{c}i\lambda$ use one's head to move sth [N *hi*-, $hi\check{c}i\lambda$]

hiči dukši kiss hi?ał having one's chin resting on sth

hibiks deer tallow [N himiks(.-)] hihibiksa'dił candle

 $hick^{w}at$ -, $hick^{w}at\check{s}i\lambda$ (a person) stumble, fall down $hick^{w}ati\dot{s}$ fall down inside $hick^{w}atis$ fall

down on beach hick^watas fall down outside hick^wata^r stumble, fall down on the rocks

hičark light fishing (light on end of canoe attracts fish) [N hič-, hičark]

hi'daqł amazed, surprised hi'daqłowi sb/sth who should be marveled at

hi'daxi done, ready [N ?i'nax-, ?i'naxi]

hidi qši t growl, snarl, bare teeth

hi hi keyax delicate, walking a fine line

hi?i'b pigeon

hik^w- overhang [N hik^w-, hik^wak] hiku't hair hanging over the face

hili'kub wolf mask

*hi*⁴*ca*^{*k*} parent [N *hi*⁴*-*, *hi*⁴*s*^{*j*}*u*^{*k*}?]

hi?*eyax* trying, perhaps, maybe [N *hi*?*i*?*i*]

hiłi q-, hiłi qši forget hiłi qak^w not know; hi hiłi dik forgetful

his-, hisši\u03c6 hit with beating instrument (club, whip, axe, etc.) hirsirsa rep. hitting [N his.-] hihisbi?irsyak^w mattock (for chopping on ground), hoe hihisck^wiqkuk soda crackers hisałca strike the wall once hisiryur shredded cedar bark histurp stick (to hit with), fish club, whip hiscitabi\u03c6 get hit on the side of the head hisck^wir chips from chopping hisiryak^w axe, bark shredder

hi'saxi consequence

his?at-q-, *hisi?a:d* red huckleberries *his?atqpa*⁴ June, July *hihis?atqkuk* currant berries *hirsuba* almost *hirsubeyači*² incep. [N *hir-sim*, *hir-k^wa*⁴]

hita- hida- empty root: be or do sth (exact meaning specified by suffix) [N *hita- hina-*] *hidałća* wall *hidałći* i inside wall *hidasxuł* chest (body) *hidawi* out *hidaxuł* in front *hidayup* obtain, catch *hida'čakt* ocean, ocean water, sea *hida'či* go out to sea *hida'q k as* forest, woods *hida's* on a horizontal surface *hida'sca* on the roof *hida'?a* carry on back, backpack *hideyi* neter (a building) *hideyuq* to ride in, on (e.g. car, boat, horse) *hididux* look for, search *hidi'ks* bring, carry, take along *hidi'ta* end or point (of something) *hidi'taba* canoe prow *hidi'yi* throat *hidi'yuq i* inside of mouth *hid?awi* wait for *hi'd?eyax* hoping to *hihitapaqu* cheeks *hihitaxswa's* underbrush *hihi'taq kcit* sole of foot *hihi'taq Aduk* palm of hand, holding in the hand *hitabu's* climb *hitacpa* go over *hitacx*?*ida* mate, spouse, wife *hitaću* inside a container *hitaća'qst* swallow sth *hitaćita* in water *hitaći'di* enter (a harbor) *hitaktaba* name *hitaksaq* under one's clothing *hitaksitta* come out of the woods *hitakswi*² go through an opening *hitaks*?*ati?i*² front door *hitaktaqyu*² gifted with supernatural power *hitak*^w*i*?*i*² at the front edge, river bank *hitak*^k^w*ičida* clothes *hitapa?a*² cross (a stream) *hitapiduk* mixed with a group *hitapuła* underneath *hitapičas* stump, base of tree *hitapičiłta* bridge (of nose) *hitapiq* passing by sb or sth *hitapiqas* passing by sb or sth *hitaqawa* come around a point of land *hitaq\lambda* inside a tunnel, oven *hitaa\lambdaču'dak*^w cooking sth in the oven *hitaa\lambdaiłta* nostril *hitaas* in a canoe *hitaguł* face (body part) *hitasab* obstruct, block, be in the way *hitasiła* did, do, accomplish, do as intended *hitawaxsii* come out of mouth *hitawiita* get out of a canoe or boat, go overboard hitaxsuwa' go downstream hita?a'ċił sky hita?a'ċiłatx God hita?a'č at the groin, crotch *hita'daqi* top of mountain, hill *hita'di* arrive *hita'q\lambdai't* upsound, to the east *hita'qsit* mouth or lip(s) *hita'datu* get down from swh, move down *hita'tu* come off *hita'wadi* waist *hite2ir* λ defeated, lost a game or competition *hit2as* on the ground, garden *hit2asdak*^w have a garden *hit?i*[‡] stored *hit?i*[‡]*acis* cupboard, storage cabinet *hi*⁺*daku*⁺*wi*[‡] at the head of the bed *hi* dapa's up above outside *hi* dapi' above, up inside *hi* dasubač ritual, ritual training hi'dawa find, found hi'da' c is on the beach hi'da' dif way of thinking, mind, mental reasoning (said of a woman) hi da dit upstream hi da du wa?a' upstream west of Neah Bay *hidi* give *hi* d?ałak desire something *hi* taksała forehead *hi* takšał mention by name hidas arrive, reach a destination hidasi?i' under water, bottom (of the sea, water), unconscious *hidatabevis* going around inviting *hid?of* carrying on the back *hihidaskabit* arms *hihi'deyukdukuba* wrist *hihi'taq*\\$*swadi*⁴ armpit *hitacitak*\\$*i* hip *hitacqi'* above *hitacu*?*a'* inlet *hitacu'?is* bay, cove, clearing *hitaklabiya'* give a name to sb *hit?ak\lambdai'* a male's rump, at the tail *hitaks?a*ⁱ on the back of the body *hitakstary* backside, backstreet *hitaksuq* λ at the guts *hitakšya* xul on the face of a cliff *hitakšya* xuwis on the face of a beach cliff *hitaktqi* bottom (of vessel) *hitak^wał* absent, away *hitak^wit* on the body *hitak^witqi* abdomen, belly *hitaqi* up above (on s.th.), upstairs *hitaqeya* λ arrive *hitaq* λ *ču'* sth already baked *hitawisa hidusa* come to the surface of the water *hitaxsdil* between *hitatuk*^wič undress *hi'dač* ask for *hi'dakća'p* sell *hi'dapi* above, up (there) *hi'dapa'q* λ elbow, heel

*hi daxwar*⁴ use *hi da ?aqsi*⁴ chin *hi da ča*^{*} rock by seashore *hi da duwis* tide flats *hi da tax* chase (try to catch) *hi duba*⁴ birth, born *hi du*^{*} expect sb *hi hi taxs* at the (front) edge *hi hi taxsi*^{*} at the front edge of the beach, along the beach front *hi ta ?a qst* mixed with a group, amongst, taking part in *hi tacaqap*⁴ going around, circling around sth *hi takci* a female's rump *hitak^widu*^{*} kst between *hi tak^wi*?*i*^{*} at a river bank *hi tapičaq*^{*} *adi*⁴ nape of neck *hi tasi carp* send sth *hi t*?*asi*^{*} planting a garden

hitačč?ida brother of a male

hitaxwi:luba daughter

hit-, hiti' remember, keep in mind *hitši* λ remember (iter.)

hiti da blanket *hiti dak^wič* wear a blanket *hiti dak^wičyak^w* clothing

hirtkadi strange situation, condition hirhirtkad?edi strange noise

hix^wałyuk hix^wałc?ak^w act crazy or drunk, desperate [N *hayux^w-*, *hayuxši* \hbar ?]

hi'xdi?i: land otter, also known as Pacific or river otter, Lutra canadensis pacifica (Gunther

1936: 114) [N *waxni-q-*, *wa'xni'*]

hixuq-, *hixuqši* λ shout together *hixuq^wa* shouting [N *hixuq-*, *hixuq^wa*]

hix^w-, hixuk weak, simple, unimportant [N hix^w-, hixuk] hihixc?ak^w stupid, act foolish

hix^w-, hix^wa' exerting effort, working hard [N *hix^w-, hix^wa*']

hi'yałiba beloved

hiyu' done, finish, stop

ho? interj. yes [N *ha*?*a*]

hu-, huk^wi^λ variant of su- 'hold, take'

hu['] interj. expression to warn sb to get away

hu?a-, hu?a^r back, again [N hu?a-] hu?adak^w have sth back, again hu?a^rdi^r come back hu?akał still gone hu?asapi^λ continue with, begin again after a break hu?aseyak^w put sth back to the way it was, repair hu?iya go back, return hu?acači^λ return someplace $hu?ačidukši\lambda$ make up after a fight $hu?aqeya\lambda$ return home hu?asiła recur, happen again hu?aya give back, repay hu?ey?uk^wi history, long ago $hu?acaqabi\lambda$ birthday potlatch hu?ak^wi t repair sth

hu'?abi?i: same as before, still the same

hu?aqit old, worn (object)

hu'?axi still, yet

hu?a'ya:tx Ohiat Tribe [N hu'?i'-?ath]

hu'ba'q wild rhubarb [N *humaq-*, *huma'q*]

 $hubaq\lambda$ whole, complete, total, in one piece [N $hum-aq\lambda$] $hubaq\lambda cargst$ swallow sth whole

hububabi: moon shell

hu'di' food found adrift, esp. a drift whale [N hu'ni-q-, hu'ni']

huhu?acitq burp, belch

hu'?ič several sleeping [N hu'?ič]

hu?i?i: lump, tumor [N hu-, hu-?i'q-, hu?i']

hu'?i^{*i*} not too much! [N *hu'?i*^{*i*}]

huksči[†] count [N *huks-*, *huksa'*]

huktu'p bird [N hu-, hu?ak]

huluqskub navel

- hurł-, hurłšiλ dance hurłuk dancing [N huł-, huryarł] hułurk^wičida dance costume hurłarqa many people dancing hurłcaqapł dancing around sth hurłeyiλ dancing into a building hurłxsar feel like dancing
- hup- roundish, chunky or spherical object [N hup-] huhupis big chunky rocks on the shore huhupasxut heart beat (in chest) hupačakt island hupa's boil hupa'syak^w kettle, pot hupis round or chunky object on the beach hupi'yit choke (on food) hupqapt bulge of flesh on

hupa'p^{*t*} crippled, lame

hupdabit little bird (story character)

hupićartx Hopachisat Tribe [N hupačas-?ath?]

hupiduwa:š canoe for one or two persons, name of Qweti's canoe [N hupinwa-q-, hupinwaš]

hupk-, *hupkak^w* lump or knot [N *hupk-*, *hupkak*; *hupq-*, *hupqak*] *hupka's* lump on a horizontal surface

hus.-, husši λ get wrinkled husak^w wrinkled husar^t wrinkled fabric husitqi wrinkled belly

husur?itta wrinkled nose husurt wrinkled face

hu'š interj. expression for coaxing baby to sleep

huše'k rascal, also used as interjection 'oh you!' [N huša'k, huše'k]

hut-, huta' bare, exposed

hutat jealous over a man or woman [N *hut- huti'q-, huti'qak; hut?atu*]

huwaye:tx black person (< Eng. Hawaii) [N *huwayi-?ath*]

hux^watq-, hux^watqši^λ gust of wind blows (iter.)

hu'xs?at resting [N hu'x-s?atu] hu'xs?atpadač on vacation

hux^w-, huxši^λ fall over (tree, object) [N ²ux^w-, ²ux^wa^v ²ux^wak; hux^w-] huhuxši^λatax liable to

fall over huwas fallen tree or object

hux animal, ugly animal (child's word)

hux^w-, *huxši*t holler *hux^wa*^v hollering [N *huh*-]

hu'x?adi call, invite hu'x?adu'kt invited

huxtak know how huxtakši learn [N huhtak("-)] huxtaksa'qti?i' teacher huxtakši learn [N huhtak("-)]

school huxtakši huwił classroom

huy interj. shout used to introduce mask dance [N *hoy*]

hu·ya-, hu·yuk^wi λ hu· λ hu·yuk^wi λ š waves, ocean swells [N huýa-, huýa·k(^w-)] hu·yabis waves hu·ya·p busy, "raising Cain"

?i^{*i*} interj. expression of disgust or dismay

?iči[,] rich in flavor (esp. seafood), full of fat [N *?ič- ?ičw-, ?ič*]

?irč-a-q-, ?irčup old, mature person; right whale ?irčaqšit (to) mature [N ?irč-aq-, ?irčim]

?irčaqaqsił speaks like a mature person *?irčaqšiħckida* middle aged person *?irčaqš?ibił* sensible (said of a woman)

?idak^w wish ?idak^weyači[†] incep. [N ?inis]

?idi- small quantity *?idi'q* few

?idic for a short time *?idicuk^wał* gone for a short time

?i?icba(-q-) sword fern [N ?ic-maq- ?ic-maq-, ?icmakt] ?i?icbaqkuk deer fern

?i?idića:k shallow water

?i?ilaxa:yu:s common skunk (Puget Sound striped skunk), Mephites occidentalis spissigrada

(Gunther 1936: 115)

?i?i4x^wa?a:tx Elwha Tribe [N ?i'?i4x^wa-?ath]

?i?išpat blue whale (also known as "sulpher bottom")

?i?i'šxtačit get divorced

?i'x^w-, ?i?i'x^wa big [N ?i'h(^w-)] ?i'?i'xbał big arms and legs ?i?i'xċił big feet ?i?i'xduk big

hands ?i'wačit get big ?i'xbis valuable, of great worth ?i'?i'wabił donkey

?i?i'dis place name (Port Angeles; < Clallam?)

?ikat-, ?ikatuk spiteful, unfriendly through quarreling (said of a woman) *?ikatši* act spiteful [N

?ikat-, ?ikatak ?ikata] *?i?i katik* gets mad quick (said of a woman)

?iki' son

?ikye'?iqsu brother-in-law, sister-in-law [N *?iyac-*, *?iyi'qsu*]

?i'sa, ?i'suk^wit urinate (said of a woman) ?i'saqe'qt need to urinate

?iš and [N *?iš*]

*?iši*λ discard *?iši*λ*xč*?*i* scram! *?iši*λ*ck^wi* discard (rejects)

?iškida interj. ouch! [N *?iškatax*]

?ixi'waqt expensive [N ?i'hwaqt]

?irx^wtirsatx Ehatisat Tribe

?iyax-, ?iyaxa be at *?iyaxi*? be at in the house *?iyaxa*?tx live at *?iyaxci*t come from

- ka- stick-like object protrudes [N ka-, ka?ak] kawadi killer whale, Globicephala scammoni
 (Gunther 1936: 117) ka'?a'pi sticklike object protruding ke?i'tap drive a post into the ground
- *kabat* shown, known, definite *kabatap* (with causative) know [N *kamat*] *kabatadax* curious (want to know)

kabaťa?a:p know how to

kac-, kacši^λ measure (rep.) [N ka-, kaya'] kaca'yak^w small snake

kačak^w jutting out [N *kač-*, *kačak*]

kad?oł carry piggy-back [N kanup-, kanupał]

ka'ka'laxa clunky, clattery noise, e.g. rattling dishes [N kith-, kitha']

kakwał lost kakwałšiż get lost, misplaced [N pawał-, pawała]

kala kali: ankle

 $ka\lambda$ -, $ka\lambda ši\lambda$ speak harshly to, scold [N $ka\lambda$ -, $ka\lambda ši\lambda$] $kaka \lambda aq\lambda sil$ glaring (eyes)

ka[·]λ*x*-, *ka*[·]λ*xši*λ come into view, become visible *ka*[·]λ*xuk* in view, visible [N *ka*λ*h*-, *ka*λ*hak ka*λ*ha*[·]]

ka'pibis favorite (Kyuquot N ka'pap 'like (to)', Rose 1981: 71, ex. 165-66)

kas-, *kasši*λ glance furtively out of the corner of the eye *ka'ska'sa* glancing (iter.) [N *kas.-*, *kasa'*]

kas?at carry sb on the back [N *kas-*]

- *kaT-*, *katši*λ kneel; poke or push with the knee [N *kan-*, *katši*λ] *kadił* kneeling in the house *kadis* kneeling on the beach
- *kartxkartxa* limping
- *ka?ubadi:* ladder, step [N *xa'?amin(-q-)*]
- *ka?upši*^{*} be critical [N *ku?uq-*, *ku?uq^wa*]
- kax^w- fall (from something) kakaxwisa drop something accidently (from hands) kaxpa¹ fall off (shaken off, like when truck drives by) ka'waqatu fall off a high place (person or thing)
 ka'watu drop off (an object) kaxa'si¹ fall onto a horizontal surface
- *ke'bič* cabbage (< Eng. 'cabbage')
- kibi't pry up, raise [N kimt-, kimtak kimta'] ki'bi'tapi sth levered up
- *kibta·la kiwta·la* horse [N *kiwita·na(q-)*] *kibta·labap* horse turnip *kibta·lači·s* ride on a horse *kibta·lači·spadač* ride around on a horse
- kic- long piece of wood kicšit poke with a stick [N kic-, kicuk kica'] kictu'p stick
- $k^{w}i't$ -, $k^{w}i't$ a' bathing, praying ritual (rep.) [N $k^{w}it$.-, $k^{w}it$ a']
- kiλ-, kiλšiλ break into pieces, shatter, crack (dishes, etc.) (rep.) [N kiλ-, kiλa'] kiλu'k glass or ceramic bowl, dish (breakables) kikiλuk^waqλsił glass eye
- ki'pxki'pxa limping, (horse) trotting
- *kirstarbac* gall [N *kirsti-mc*]
- ki'stap cow parsnip sprout
- *ki'šuk* resentful over defeat
- kixapł go fast on land
- *kixłak*^w rapid, speedy [N *kixł*.-, *kixłak*]
- *ku*[•] interj. here! (handing sth to sb)
- *kudu'k* awake *kudu'kši*t wake up
- kuku wiye x cheat
ku'l school (< Eng. 'school')

ku'la' gold (< Eng. 'gold') [N *ku'na*^{*}(*q*-)] *kuku'lakswi?i'* gold tooth *ku'ku'lakuk* penny *ku'laxtida* made of gold *ku'laxtidaki'*⁴ make sth of gold

ku'tab dear, dear girl

- *kuł-, kułu cida* provisions, lunch [N *kuł.-*] *kułi tyap* bring food gift to relative *kułsac* lunch pail, bucket
- ku'^λ-, ku'^λuk open ku'^λas sth is open (door, etc.)

kusowit blade of mussel shell for whale hunting

kurt coat (< Eng. 'coat') [N *kurt*]

ku't-, ku'tši^λ beckon, gesture to come (rep.) [N kut-, kuta'; kuta-]

kutx-, $kutxši\lambda$ (to) drum kutxkutxa drumming $kutxuyak^w$ (a) drum

kuwit doing as directed, as desired [N *kuwita*]

ku'wił steal [N ku'ŵił.-, ku'ŵił] ku'wi'yik thief ku'ku'wiłdab stealing

kuxsak^w fresh (seafood) [N *kuxc-*, *kuxcak*]

kux-, kux^wak^w hole [N kuh(^w-)] kukuxpaquba dimples kukux^was crevice kuwił hole in the floor kuwis hole on the beach kuxqi^vba soft spot on baby's head kuxsu^wi^v hole through sth kukuxswi^v macaroni

ku'yu?u: float (fish gear)

 $k^{w}a$ -, $k^{w}a\check{c}i\lambda$ move backwards; sit $k^{w}a' 2uk$ moving backwards $k^{w}a\lambda k^{w}a'\check{c}$ lobster [N $k^{w}a$ -,

 $k^{w}a^{a}?ak \ k^{w}a^{a}ya^{a}] \ k^{w}aba$ canoe stern $k^{w}a?a\dot{c}is$ seat, chair $k^{w}a?as$ fall on one's bottom on the ground $k^{w}a^{a}?a^{a}pi$ bent over with rear end sticking up

k^wa?ak^w small, little *k^wak^w?akabił* little ears

kwa?aksa:tx Queets Tribe

 $k^{w}a \cdot cxi$ grandchild's spouse, spouse's grandfather [N $k^{w}a \cdot chi(c-)$]

k^waći·*luwat*x Quatsino Tribe [N *k^waći*·*nux*-?*at*h]

- $k^{w}a'dis$ camas, wild onion [N $k^{w}a\dot{n}is$] $k^{w}a'disdit$ place having wild onions
- *k^wak^wati:buks* golden eagle
- $k^{w}atši\lambda$ stem breaks off [N $k^{w}at.$ -, $k^{w}ata'$]
- $k^{w}a$ 'suk salmonberry stems turned hard
- $k^{w}a'ta'$ quarter (< Eng.) [N $k^{w}a'ta'(q-)$]
- *k*^w*a*'?*u*'*c* grandchild [N *ka*'?*uc*-, *ka*'?*u*'*c*]
- $k^{w}a'xi'$ uncovered, revealed $k^{w}a'xi'\check{c}i\lambda$ become uncovered [N $k^{w}a'\dot{h}i'$] $k^{w}a'xi'i'$ uncovered on the
 - floor $k^{w}a'xi's$ uncovered, visible on the beach
- *k^wiči*'ya: earth, ground, land, world, universe
- *k^wirdaryiłatx* Quinault Tribe [N *k^wirnaryił*]
- *k^widi tat* Quileute Tribe [N *k^winyut*-] *k^widi taqsup* Quileute woman
- $k^{w}i^{w}a^{v}a^{t}a$ social dance, fan dance [N $k^{w}ik^{w}a^{t}-, k^{w}i^{v}k^{w}a^{v}a^{t}a$]
- $k^{w}i\cdot\lambda k^{w}i\cdot ya$ sharpening, grinding, filing [N $k^{w}i$ -, $k^{w}i\cdot\lambda k^{w}i\cdot ya$]
- k^wis- different [N k^wis-, k^wist-, k^wista-] k^wisasiła change, transform k^wisa'?atx people from a different tribe k^wiscapa^λ change position, shift k^wiscaqi'dak face opposite direction, look away k^wiscaxtači^λ change direction, turn around k^wisitswa'tx people underneath k^wispe'?ił in the other room k^wi'sa'dax different, different condition k^wisaqċaw the other, opposite end k^wisituwis the other end of beach, west end of beach k^wispa' other, opposite side, hand k^wissa'cu elsewhere k^wistu'p something else, different k^wi'sabi?i' different from others, is different k^wi'sowat on the other side
- $k^{w}i\check{s}k^{w}i\check{s}i$: Stellar's jay (know locally as 'blue jay')
- $k^{w}i\check{s}u'(-q-)$ pig (< F. or CJ.?) $k^{w}i'\check{s}uq\check{c}ak$ cooking pork
- *k^wixk^wix*^w*a* rubbing causing friction [N *k^wix-*, *k^wixa'*]

- $k^{w}i'x\dot{s}i\lambda$ get running sores, scabies, itch [N $k^{w}ix$ -, $k^{w}ixa'$]
- $k^{w}i''$, $k^{w}i'yi$ quiet $k^{w}i'ya$ či λ incep.
- *ka-, ka?ak*^w ashamed *ka'qu'i* embarrassed, shame-faced *kakac?ak* acting ashamed, embarrasing *ka'keyik* bashful nature

kaba'k ring (fish gear) [N ka'ma'k''-] kaka'bakdukuba ring (for finger)

kac-, kacših pinch kaca' pinching [N kac-, kaca'] kacqi' pinching the top of sb's head

kaca'da:bac small bullhead [N *kacna-q-*, *ka'cnimc*]

kacq- torn [N *kacq-*, *kacqak kacqar*] *kacqaryur* torn fabric *kacqkwačyur* torn up, ragged clothes, fabric

kača soon, shortly, in a short time [N *kača*]

kadardi: weasel, Mustela sp. (Gunther 1936: 114)

kada dis uvula; ornament at bow of canoe

kakyi'c-, *kakyi'cak*^w purple [N *kayi'c-*, *kayi'cuk*] *kakyi'capi*x salal berries *kakyi'capi*xpał

August

ka ka basi?i: embarrassing, shameful, disgraceful

 $\vec{k}^{w}a \cdot tuk$ ritual branches, fir needles [N $\vec{k}^{w}a \cdot t - , \vec{k}^{w}a \cdot tuk$]

 $ka\lambda xa'yak$ candlefish?, ratfish? [N $ka\lambda xa'-yak(w-)$]

*kapši*λ take away [N *kap-*, *kimkima*]

kaš- inside out [N kaš-, kašak] kašapł inside out kašurł cross-eyed kaširyił hoarse

kašču-q-, kašču?u: Pacific harbor or hair seal, Phoca richardi richardi (Gunther 1936: 116) [N

ka s c a(-q-)] ka s c u q wiks eating hair seal

 $\dot{k}aT$ -, $\dot{k}atuk$ oil, oily $\dot{k}at\dot{s}i\lambda$ get oily $\dot{k}ata^{\prime}\dot{c}u$ oil in a container $\dot{k}a^{\prime}\dot{k}a^{\prime}daq\lambda$ donuts, fried bread $\dot{k}ata^{\prime}\dot{c}i^{\prime}\dot{t}\dot{c}$ to feed a fire with oil $\dot{k}atsac$ wooden oil bowl

katirs lag, unable to keep up

kata-, kat?ak^w insufficient, not enough katačiλ run out, become insufficient [N kata-, kata']

katuq^wa neatly stored

kawax stare in amazement, awe; mouth gaping [N *kawah-*, *kawahak*]

kax-, kaxšit burst, break kaxak^w dry (wood); shattered, broken, burst, agape kaxa ka'xa break-

420

ers, whitecaps (iter.) [N kah-, kaha' kahak]

kaxa'wa't half dollar

kayiškadi: sea shell, shell game [N kayišt-q-, kayiškin-q-, kayiškin]

ke?itq-, *ke?itqši*\$ squeal, scream, caw [N *ke?itq-*, *ke?itqa*]

kičak^w fabric-like thing rolled back [N *ki'č-*, *ki'čak ki'ča'*]

kidi łtubac sea anemone [N *kinłi-mc*]

kit-, kit meat or fish spoils kit mea

kiłat-q-, kiładu:s Alaska fur seal, *Callerhinus alascanus* (Gunther 1936: 115) [N *kiłat-q-, kiłanu's*]

kolo?o: wild currant

ko?u^{*i*} further away *ko?u*^{*i*}*i*^{*i*} move away [N *ku*^{*i*}] *ko?i*^{*i*}*kiia* little ways, short distance

ku-, *kur* hooked *kuči*λ (to) hook (rep.) [N *ku-*, *kuyar kur*] *kukurk^widuk* chain *ku?ataq*λ hooked on the end of a hook *kur?i*λ hook sth, get sth by hooking it *kur?arpi* hanging up on a hook *kuryak^w* hook, fish hook

kubac hoarfrost [N k^wimac -, k^wimac]

kuc-, kućup small, black mussel sp. [N kuc-, kućim] kucqi' sperm whale

kuč- k^wič- having spines, spiny *kučka pi*x purple sea urchin

kuP-, $kupši\lambda$ point, poke, push with the finger kupa' pointing (rep.) [N kum-, kuma']

 $\vec{k}upu'yak^w$ index, pointing finger $\vec{k}u\vec{k}upasi\lambda yak^w$ keyboard $\vec{k}u\vec{k}u'baq\lambda si\lambda$ poke a finger in sb's eye $\vec{k}upa'si\lambda$ press a button with the finger $\vec{k}upi's$ pushing along, nudging with the finger

kusub fish barb

kux-, $kuxši\lambda$ suck kux^wa kuxu kuxu sucking [N k^wix -, k^wixa]

ku'x^wa'š black scoter?, perhaps equivalent to Gunther's (1936: 106) *waxwac* black brant, *Branta nigricans* [N *kux^wa-q-*, *ku'xu*]

ku'x-, $ku'xši\lambda$ weather calms, clears up ku'xuk calm, clear weather

k̄^wa-, k̄^wačiλ break in two k̄^waλa·k̄^wač elbow, joints k̄^waʔu·k brittle [N k̄^wa-, k̄^waya·]
k̄^wak̄^w?akλi[·] porpoise k̄^waҳta·yu[·] broken in two k̄^waʔasiʔi[·] put branches in water for herring to spawn on k̄^waҳtačiλ to break apart into two pieces k̄^waʔak̄^wa·ya·p break in pieces k̄^wak̄^wa·skabił broken arm

k^w*a*'*ci*'*di*?*i*: south wind

 $\vec{k}^{w}a$ ' $\check{c}ib$ dear, dear boy!, poor boy

 $\vec{k}^{w}at$ - $\vec{k}^{w}at$ /*l*-, $\vec{k}^{w}at$ si λ break off; get cracked, chipped [N $k^{w}at$ -.-, $k^{w}at$ a'] $\vec{k}^{w}at$ $\vec{q}adi$ make sound in underbrush $\vec{k}^{w}at$ $\vec{k}^{w}a'yas$ bushes $\vec{k}^{w}at$ cki' branch, broken off $\vec{k}^{w}a'latup$ break a piece off $\vec{k}^{w}a'yas$ bush

k^wičitid fish knife

 $\vec{k}^{wi}qal$ lucky in fishing $\vec{k}^{wi}qeya\vec{c}i\lambda$ get lucky [N $\vec{k}^{wi}q-al$]

 \vec{k}^{w} is-, \vec{k}^{w} is a' snowing \vec{k}^{w} is i' snow

k^wiT- k^witq-, k^witši^λ get stuck, glued on k^witaⁱ k^witqaⁱ stuck on k^witiⁱk^wiⁱta baby nurses
k^witiⁱk^witš sticking on at intervals; hummingbird, Selasphorus rufus (Gunther 1936: 110) [N
k^win- k^witx-, k^winaⁱ k^witxaⁱ] k^widi[‡] stuck on the floor k^witqaⁱt glued, stuck on k^witqiⁱbis
glue k^witqiⁱduk stuck together k^wik^wiⁱdaq[†]si[‡] sth sticky in one's eye(s) k^witiⁱbap bed straw

la'?alačx flower

la·ba whiskey, alcohol (< Eng. 'rum') [N *na·ma*] *la·bi·dux* look for whisky *la·b?iks* to drink whisky *la·baqapuł* alcoholic *la·ba?u·wałuk* bartender *la·ba?u·was* bar

laćiłta pointed

lačkaqsił pitcher (for liquid)

- lak^w-, lakši^λ stick out tongue, lick lak^wa^v tongue sticking out (rep.) [N nak-, naka^v] laka^vyak^w tongue laka^vba[‡]aqsi[‡] licking one's lips laks?aba visor cap lak^wi[‡]taba canoe prow lalak^wadi lisp
- *lakč-*, *lakčuk* light *lakča[·]la[·]kča lakča[·]la[·]kčš* lightening *laka[·]čaxs* lamp *lakči[·]s* going around with a light *lakči[·]syak^w* lantern, oil lamp, flashlight

la'la' toy (child's word)

lalaxe'ya: rainbow trout

lalax^we: Puget Sound sparrow, *Zonotrichia leucophrys pugetensis* (Gunther 1936: 113)

lalu'pa: ribbon [N *nanu'pi*(*q*-)]

laputary bottle (< Chinook Jargon)

libirtu-q-, *libirtur* lamb, sheep; wool *libirtuqa*⁴ wooly, wool fabric *libirtuq*^waq λ quilt

li'lu't train

liq^was?i sea elephant

lišo'l shawl [N mišat-q-, mišo'n]

li'xuk cheap, inexpensive [N *nix^w*.- *ni'x^w*-, *nix^wak ni'x^wak*]

lu'lapi: hand

lu·la·sakt old sockeye

luluškali: seesaw

lu·*lux*^w*ac* thimble berry *lu*·*lux*^w*aci*·*yub* rooster wattles

 lup_{x} -, lup_{x} si λ open one's eyes $lup_{x}a'$ eyes open [N nap_{x} - nap_{x} ^w-, nap_{x} ^wa' nap_{x} ^wak]

lušk-, luškšit flip over, turn facing up lušku luška rocking luluškadi teeter-totter lušku beyit

rocking back and forth *lušku beyiłyak*^w rocking chair *lušu k^wiłta* turned-up nose

ła?a'š bag

*łakči*x scarce

ła kičiλ release, let sth go [N łač-, łača λ, łačiλ]

tak^w-, ta^kwiqdak having a hard time doing, poor, miserable *ta^kši* have pity on; (as predicate modifier) please! [N *tak^w-, ta^kwiqnak*] *taksu^q* sympathetic *taku^t* poor faced, having an unhealthy look *takpat* time of poverty *tatak^was* cemetery *tata^kwadi* plead

łako wi poor, destitute łako wipał time of famine

ta kxt tell hard luck story seeking sympathy

ła·*k*^w*a*,*i* orphan, slave [N *ła*·*k*^w*a*,*i*]

łakit-, łakitbis pitch (from a tree), spruce gum, rubber *łarłarkita* chewing gum (m. full of pitch) *łakitał* rain gear *łakitapł* rubber rain hat *łakitaryič* wearing a rain coat

łakitawax salmon harpoon points, pitch-treated harpoons

łałakixt-, łałakixtši tałakixta abstain, leave alone

tapx-, tapxši flap wings, fly *tarpxuk* flying [N *taph-, tapha'*] *tatapxwisa* escape by flying out of one's hands *tapxa'vi* fly into a building *tapxk^wa'tši* fly away

łapirx-, łapirxšiλ spread wings or arms łapirxiba wings

 aq^{w} - soft, spongy mass [N aq^{w} -, $aq^{w}ak$] $aq^{w}a'$ soft, spongy mass on rocks or shore

łaq- give as a gift, for free *łaqi*, give as a gift *ła'qič* ask for something, beg *łaqu'kt* gotten as a

gift

łaqata:tx Plains, Plateau Indian

*łaś-, łašši*t pick, choose the best *ła'šuk* picking, selecting *ła'šła'ša* sorting [N *łaš*(.-)]

tax-, taxa' just now, right now [N $\lambda ah($ ^w-)] $taxck^{w}i'$ recently, having been

ła xcuła recently

ła'xuk man

łayiik generous

łe'?išuk red cedar

*łe?irx-, łe?irxši*t measure by spread arms, fathoms

ti?a's disagreeable, mean person *titi?a'yadi* unpleasant noise *ti?a'ssuq*λ angry, mean feeling (said of a woman) *ti?a'yaq*λ angry, mean feeling (said of a man)

tivbaqsti?i: mind, reasoning, will power [N *tim-aqsti(-q-)*]

tic-, ticši\$\lambda\$ cover with a cloth *ticak^w* cloth spread out [N *tic-, ticak*] *ticaxut* wearing an apron *ticarbuba* head scarf, bandana *ticarsuba* small woven mat *ticarsyak^w* table cloth *ticit* sth cloth-like spread on floor *ticituba* floor mat, carpet, rug *ticityak^w* carpet, rug *ticis* cloth-like object spread on the sand *ticirwaduba* canoe mat *ticas* cloth-like object spread on ground *tircapirtyak^w* curtain, dance, or room divider, screen *ticaxuba* apron *ticak*\$*tiryak^w* diaper *ticar* for a cloth-like object to be spread on rocks *tircapiryak^w* sail *tircciba* diaper (for a girl)

licit pregnant [N *lic-*, *licit*]

i'?i?i: snake

tikwaxat cloth [N *tikwax-at*] *tikwaxatcki* rag *tirtirkwaxbat* bat (animal)

ŧiŧi?a'y insult

tipxa inhale

iit- iitq- iirtqiirtqa twitching, jerking [N *iit-, iitar*; *iitk-, iitkar*] *iiiiteyax* small hook, lead jigger, live bait, jig fishing

ti?u' miss a mark or target [N *ti?a'*]

- *iiwax-, iiwaxši* get cloudy *iiwaxak^w* cloudy [N *iiwah-, iiwahak*] *iiwaxbis* cloud *iiiiwaxuk* cloudy all over
- *tix^w-, tix^wak^w* cloth spread out covering [N *tix^w.-, tix^wak; tih-, tihak*] *tix^waqsuba* outer lip *titi^xxduk* wearing gloves *tixsartuba* baby face covering

tixat canoe mat

- *tixuqak*^w skinny
- *tu-, tu?at* board [N *tu-, tu?ak*] *tutubatid* place name (Forty Mile Bank, La Perouse) *tutubeyis* flounder *tutu?as* place name (flat rocks at the end of Shi Shi beach)

- *tuč* female, woman [N *tuč*-, *tu^ccsma*] *tuču^cda^ck^w* married man *tutučc?ak^w* flirt *tutučuxa* intercourse
- *łučaqsuba* older sister of a male
- *tuk-*, *tuku'tap* muscle, sinew [N *tuk-*, *tuktapt*]
- *tuq-, tuqši* λ spill, tip over *tuquk* tipped over [N *tuq-, tuqyu tuqak*] *tuqapt* whiskey flask
- *łutłu tš* Thunderbird [N *łu t-*, *łu ta i*]
- λa- pole-like object in vertical position [N λa-, λa?ak] λaλabałpič woodpecker, any variety (Gunther 1936: 110) λaλ?asyak^w fence post λaqsuba mast λayak^w iron λa?as upright object, post, totem λa?asyak^w totem pole λa'?a'pi propped up λa'?api's salmon roasting on sticks
- *λabuxsi:* wedge
- $\lambda ada' \lambda ada' ak^{w}$ remain in place, stay still $\lambda adi' wi\lambda$ incep. [N $\lambda ana^{k}(w)$ -)]
- λa-, λadit adze, wedge λačiλ use a wedge λa chaya hewing stone [N λat-, λanat] λačak chisel
- $\lambda akiš$ -, λaki 'š (person) stands [N $\lambda akiš$ -, λaki 's] $\lambda akišas$ standing up on a horizontal surface $\lambda akišqi?a$ standing on top of a rock λaki 'yis standing on the beach $\lambda akiyi$ standing on the floor or inside $\lambda a'kišapi$ standing up $\lambda a'kišapi$'s standing up on the floor $\lambda a'kišapi$'s standing up on the beach
- *λakyaba* extra, bonus [N *λaya-*, *λayim*]
- $\lambda a'\lambda a'\check{c}it$ song or chant sung by Indian doctor [N $\lambda a\check{c}it$ -, $\lambda a'\check{c}itu$]
- *λaλaťaq*λ stiff muscles [N λ*atč* λ*atčk*-, λ*atčak* λ*atčkak*]
- λa'λa'waq-, λa'λa'waqbis blood λaλawaqa?a' tuberculosis λa'λa'waqsabiλ bloody nose
- $\lambda a\dot{p}iq \lambda a'\lambda a'\dot{p}iqa$ driving nails, dowels [N $\lambda a \dot{p}iq \lambda a\dot{p}iq\dot{s}i\lambda$] $\lambda a\dot{p}iqiba$ dowel, nail
- $\lambda a'sa-, \lambda a'sa^{k''}$ foreign, artificial; a stranger [N $\lambda a'sa-, \lambda a'sa^{2}ak$] $\lambda a'\lambda a'sakswi?i'$ dentures, false teeth $\lambda a'\lambda a'sakswi?i'yak''$ dentures, false teeth $\lambda a'\lambda a'saq\lambda sil$ glass eye $\lambda a'saquql$

nickname $\lambda a \lambda a saksta$ artificial leg $\lambda a sadak \delta i \lambda$ have a visitor $\lambda a saqap t$ toupee, wig, wearing wig or toupee

 $\lambda a \dot{s} kat$ -, $\lambda a \dot{s} kat u k$ rigid, stiff $\lambda a \dot{\lambda} a \dot{s} kat a$ making rigid; ironing $\lambda a \dot{\lambda} a \dot{s} kat e y a k^{w} a \dot{c} i s$ ironing board $\lambda a \dot{s} kat a \dot{s}$ stiff fabric $\lambda a \dot{\lambda} a \dot{s} kat e y a k^{w}$ iron

λa'šqi'yał lizard

λata wačak^w paddle (object) [N *λatwa-*]

λa?u-, λa?u' another, more [N λa?u'- λa?u-, λa?u'] λaλa'?ujitš do over and over
 λa?usapiλ begin again λa?u'ya' give another, more λa?u'suba need more, another
 λa?uċi'łčidiλ add more wood to fire λa?usaqsup woman of different tribe

 $\lambda a ? u k^w a ? a : t x$ Clayquot Tribe [N $\lambda a ? u^{v} - k^{w} i - ? a t h]$]

λawa-, λawa' close by, near [N λawa-, λawa'] λawas follow closely λawe'?it close to in the house

λawa ča low

 $\lambda a x^w a$ ten

- *ke?idiw* Olympic flying squirrel, *Glaucomys sabrinus olympicus* (Gunther 1936: 116; she records the initial segment glottalized)
- $\lambda i \check{c}$ -, $\lambda i \check{c} a'$ stern (of boat) $\lambda i' \check{c} \lambda i' \check{c} a$ steering a boat [N $\lambda i \check{c} a'$] $\lambda i \lambda i \check{c} a' \check{d}$ steering boat

 $\lambda i' \check{c} \lambda i' \check{c} eyak^w$ rudder; fish or mammal tail

 $\lambda i \check{c} sap$ cinquefoil, silverweed [N $\lambda i \check{c}$ -, $\lambda i \check{c} s \check{y} up$]

 $\lambda i i i s \check{c} a - q - \lambda i i \check{c} \check{c} i da$ foot, feet, leg, legs, fish tail, whale flukes [N $\lambda i \check{s} \lambda i - q - \lambda i \check{s} \lambda i n$]

 $\lambda i i i s \check{c} a q y a k^w$ pants, trousers

λ*i'sał* paper [N λ*i's-*, λ*i'sa'*] λ*i'sał*xtida paper towel, paper money

- λ *isi'daw* place name (town of Forks)
- λ_{ix} move pointwise λ_{ix} -, $\lambda_{ix}ak^{w}$ paddling, driving a car [N λ_{ih} -, $\lambda_{ih}a^{r}$; $\lambda_{i'h}$, $\lambda_{i'h}ak$] $\lambda_{i'xapi's}$ point of land $\lambda_{ixe'}aq\lambda_{vak}^{w}$ pullover shirt $\lambda_{i'}\lambda_{i'xsup}tat$ canoe race

 $\lambda i x a t s i \lambda$ start a canoe, boat, car

- λu ?*is* camped temporarily λu sa λ (to) camp [N λu ?*uw*-*is*] λu ?*isyak*^w campground λuk -, λuk š $i\lambda$ widen λuk ^w ak^w λuk ^w *i* t wide [N λuk -, λuk ^w *i* t]
- λuk^wat-q-, λu^k^wa^li: Wolf Ritual λuk^watqšiλ perform the Wolf Ritual [N λuk^wat-q-, λu^k^waⁿa]

λukšut-q-, *λu'kšu'da* raven [N *qu?išit-q-*, *qu?išin*]

 $\lambda u t \lambda u t a$ do sth slowly [N $\lambda u t a$]

- $\lambda u l/l$ -, $\lambda u l u$ clean, good [N $\lambda u l$] $\lambda u l is$ good beach $\lambda u l i \check{c}$ wear sth clean $\lambda u l a l$ clean (fabric, person's body) $\lambda u l a \check{c} a k t$ calm water, sea $\lambda u l a s$ clean surface $\lambda u l i d u k$ on good terms $\lambda u l q a t \check{x}$ think oneself good $\lambda u l s a t \check{a}$ clean forehead $\lambda u l s u q \lambda$ be in good humor, feel at peace $\lambda u \lambda u l \dot{k} u k$ look good (things, people), handsome, good looking $\lambda u l s i t$ still, good, or clear water
- λus-, λusuburt herring [N λus-, λusmit] λuλursartaxyak^w herring rake λuryirks eating herring
- λu *špał* bridge [N λu *š*.-]
- *λa'?as-* south [N *λe'-?ił*, *λa'-?as-*, *λa'-?ay-*, *λa'-?a'*] *λa'?asat*<u>x</u> cape dwellers *λa'?ascpa* south side

 $\hat{\lambda}abars$ fat, blubber, dogfish roe [N $\hat{\lambda}ims$]

- $\hat{\lambda}abax$ -, $\hat{\lambda}abax\dot{s}i\hat{\lambda}$ shoot slingshot; snap [N $\hat{\lambda}ami\dot{x}^{w}$.-, $\hat{\lambda}ami\dot{x}si\hat{\lambda}$] $\hat{\lambda}abaxyak^{w}$ sling shot
- $\hat{\lambda}ac$ -, $\hat{\lambda}aca'$ fat, obese $\hat{\lambda}aci'wi\lambda$ get fat [N $\hat{\lambda}ac$] $\hat{\lambda}acqap$ pudgy $\hat{\lambda}acsi?i'$ butter $\hat{\lambda}acu'$ fat face $\hat{\lambda}a\dot{c}aq\lambda$ soaked $\hat{\lambda}a\dot{\lambda}acpicas$ fat ankles $\hat{\lambda}a'csit$ fatty oil floating on soup
- $\hat{\lambda}a\check{c}$ -, $\hat{\lambda}a\check{c}\check{s}i\hat{\lambda}$ fold (rep.) [N $\hat{\lambda}a\check{c}$ -, $\hat{\lambda}a\check{c}\check{s}i\hat{\lambda}$] $\hat{\lambda}a\check{c}k^{w}a\check{c}i\hat{\lambda}$ collapse (buckle) $\hat{\lambda}a\check{c}qap$ bundle (folded) of cedar bark
- $\hat{\lambda} a \check{c} a' p \check{t}$ black granite, black stone [N $\hat{\lambda} a \check{c} im \check{t}$]
- $\hat{\lambda}a'\check{c}k^{w}a'la$ black periwinkle snail [N $\hat{\lambda}a\check{c}k^{w}a-q-, \hat{\lambda}a'\check{c}k^{w}in$]

- *λaka*·bap western hemlock [N *λak-maq-*, *λakmapt*]
- $\lambda a' \vec{k}'' \vec{k}$ spreader bar (for halibut fishing) [N $\lambda a' \vec{k} u \vec{k}$]
- *λa*·*laba:t*x Clallam Tribe [N *λa*·*nim*-*?at*h *λa*·*nama*-*?at*h]
- $\hat{\chi}ala?ub$ cockle clams
- $\lambda a' la' y$ long, Haida-type canoe [N $\lambda a' n a(q-)$]
- $\hat{\lambda}a \cdot tq$ -, $\hat{\lambda}a \cdot tq \dot{s}i\lambda$ collapse $\hat{\lambda}a \cdot tquk$ leaning, collapsing (e.g. wall of a house)
- *λ̃a'λ̃a'wa:ta* butterfly
- $\lambda a' \lambda a' wa: y is$ place name (Clallam Bay)
- $\hat{\chi}aP$ -, $\hat{\chi}ap\check{s}i\hat{\chi}$ cut with scissors $\hat{\chi}apa'$ two-pronged object clamped on [N $\hat{\chi}am$ -, $\hat{\chi}ama'$ $\hat{\chi}a-mak$] $\hat{\chi}apa'yak^w$ scissors $\hat{\chi}a'bapi's$ barbecue $\hat{\chi}a'bi\hat{\chi}$ pick sth up with tongs
- $\hat{\lambda}apa't$ storage basket [N $\hat{\lambda}apat-$, $\hat{\lambda}apa't$]
- $\hat{\lambda}ap\check{c}k$ -, $\hat{\lambda}ap\check{c}kak^w$ have legs folded Indian-style [N $\hat{\lambda}ap\check{c}k$ -, $\hat{\lambda}ap\check{c}kak$, $\hat{\lambda}ap\check{c}k^wak$]
- λapq soft, mushy substance $\lambda apq si\lambda$ throw sth soft and mushy $\lambda a \lambda apq aq\lambda$ pie $\lambda apq a yak^w$ jam, jelly
- λapx -, $\lambda apx i\lambda$ slam, slap broad object against (rep.) [N λaph -, $\lambda apha$ '] $\lambda apxatca$ slap the wall (once) $\lambda apxacita$ whale slapping water with tail $\lambda apxi' duk$ clap hands
- λ̃aq- λ̃a'qšiλ grow; spring [N λ̃aq-, λ̃aqa']
- $\hat{\chi}aqa-q-, \hat{\chi}aqap$ bush, leaf, plant, grass [N $\hat{\chi}aqa-q-, \hat{\chi}aqapt$] $\hat{\chi}a'qaqi' i$ harvesting hay
- $\hat{\chi}aq$ ⁴-, $\hat{\chi}aq$ ⁴ $si\lambda$ come untied, unfastened $\hat{\chi}aq$ ⁴uk untied, unfastened $\hat{\chi}aq$ ⁴aryak^w key $\hat{\chi}aq$ ⁴ $pa\lambda$ release from prison
- λas- λask-, λaskšiλ make smooth λaskak^w smooth, bare, slippery [N λask-, λaskak; λas. λaska·, λaska·] λaska·pł bald (shiny skin) λa·yaqatu slide down

Řaskatši t slip

 $\hat{\lambda}a\check{s}$ -, $\hat{\lambda}a\check{s}\check{s}i\hat{\lambda}$ get slippery $\hat{\lambda}a\check{s}uk$ slippery $\hat{\lambda}a\hat{\lambda}a\check{s}wisa$ slip out of one's hands

 $\hat{\lambda}a\check{s}itq$ -, $\hat{\lambda}a\check{s}itq\check{s}i\hat{\lambda}$ thrash, kick $\hat{\lambda}a\dot{s}itqa$ thrashing

Xa'šqi'lux turkey

 $\hat{\lambda}ax - \hat{\lambda}axa \cdot \hat{\lambda}a'xa$ adzing [N $\hat{\lambda}ax^w$ -, $\hat{\lambda}ax^wak$] $\hat{\lambda}axa'yak^w$ adze $\hat{\lambda}axck^{w}i'$ chips from adzing $\hat{\lambda}ax$ - flatwise $\hat{\lambda}axsi\hat{\lambda}$ patch, mend $\hat{\lambda}axa'\hat{\lambda}a'xa$ patching [N $\hat{\lambda}ax$, $\hat{\lambda}axak$; $\hat{\lambda}ah$ -, $\hat{\lambda}ahak$]

 $\hat{\lambda}a\hat{\lambda}axbaddi$ skimming the water $\hat{\lambda}a\hat{\lambda}axtdas$ sled $\hat{\lambda}a\hat{\lambda}axdas$ sole of shoe, shoes $\hat{\lambda}a\hat{\lambda}axdukuba$ palm of hand $\hat{\lambda}a\hat{\lambda}axiduk$ patchwork quilt $\hat{\lambda}axadda$ flat against a vertical surface $\hat{\lambda}axaddas$ raft $\hat{\lambda}axaddas$ flat $\hat{\lambda}axaddas$ flat against a vertical mask

 $\hat{\chi}axa'$ not crying [N $\hat{\chi}ah$]

 $\hat{\chi}e'$ *i'daw* supernatural lucky charm animal [N $\hat{\chi}e'$ -*inwa*]

λe'ko' interj. thank you! [N *λe'ko'*]

 $\hat{\chi}e'yu'$ interj. let me see!

 $\hat{\lambda}i'$ -, $\hat{\lambda}i'?ak^w$ walking $\hat{\lambda}i'beyi$ walking around the house $\hat{\lambda}i'beyis$ walking around on the beach $\hat{\lambda}i'padac$ walking around $\hat{\lambda}i'?akkaci\lambda$ caused by walking, because of walking $\hat{\lambda}i'bi?i's$ walking around the yard $\hat{\lambda}i'beyi$ person who keeps people off the floor at potlatch

 $\hat{\lambda}_{i-1}$, $\hat{\lambda}_{i}\hat{c}i\hat{\lambda}$ shoot bow and arrow, gun [N $\hat{\lambda}_{i-1}$, $\hat{\lambda}_{i}\hat{c}i\hat{\lambda}$] $\hat{\lambda}_{i}\hat{q}ik$ expert in accurate spearing

Xic-, Xicuk white clay, dirt [N Xic-, Xicak Xicmis] Xici bis white, dry dirt, dust XiXi caqXsil gray-eyed, cataract XiXickuk buckskin bread, flour XiXickuk^waxsyak^w bread box, flour bin

λ̃icux^wat-q-, *λ̃icux^wadi*: Indian, person *λ̃i^vλ̃i^vcux^watqa* speaking Indian

 $\hat{\lambda}icx^{w}$ -, $\hat{\lambda}icx\check{s}i\lambda$ fade $\hat{\lambda}icx^{w}ak^{w}$ faded, grey [N $\hat{\lambda}icx^{w}$ -, $\hat{\lambda}icx^{w}ak$]

- $\hat{\lambda}i'daq$ -, $\hat{\lambda}i'daqak^w$ foggy, moldy $\hat{\lambda}i'daqal$ moldy $\hat{\lambda}i'daqbis$ fog, mold $\hat{\lambda}i'daqsit$ cloudy liquid, olachen oil
- *λ̃i'du'ć λ̃i'di'ć* whale skin [N *λ̃iňa-q-*, *λ̃iňi-c-*, *λ̃iňimc*]
- *Xi*⁻, *Xi*⁻?*ił Xi*⁻*cu*⁻ gathered for a party, feast *Xi*⁻*cidiX* gather for a party [N *Xi*⁻, *Xi*⁻?*ił*⁻; *Xi*⁻,

 Xi⁻*cu*⁻ *Xi*⁻?*ił Xi*⁻?*ak*^w*ačiX* people leaving a gathering, dispersing

- λi?iq^wat-, λi?iq^wati: shell-rattle λi λi ?iq^wata rattling with shell-rattle [N λi?iq^wat-,
 λi?iq^wata]
- $\hat{\chi}ikat \check{s}i\hat{\chi}$ start walking
- λiλq-, λiλqšiλ explode, spark [N λiλk-, λiλkak; λiλq-, λiλqa'] λiλqck^wi' ashes from sparks
 λiλqi'bis ashes from sparks
- $\hat{\lambda}i\hat{\lambda}i$ 'daqabač Vaux's swift, *Chaetura vauxi* (Gunther 1936: 110, literally glossed as 'anything that brings fog', so this word may be related to $\hat{\lambda}i$ 'daq- 'foggy')
- $\hat{\lambda}i\hat{\lambda}ika\dot{q}adi$ turtle [N $\hat{\lambda}i\hat{\lambda}i\cdot k-\hat{i}n(-q-)$]
- λiλisqi'?iba window
- *λip-*, *λipšiλ* comb, rake [N *λim-*, *λipšiλ*] *λipču*^{*} combed *λipi*^{*}*bi*?*i*^{*}*s* raking the ground *λipi*^{*}*yak*^w (a) comb *λipi*^{*}*bi*?*i*^{*}*syak*^w (a) rake

λipsi kard barnacle sp. [N *λiphit-q- λipha-q- λimhinq-, λimhin*]

- Xis-, Xisuk white [N Xic- Xis.-, Xisuk] XiXisakswi^v white-winged Scoter or white tipped black duck XiXiyis white on the beach (place name) Xisa wix white-face spirit, ghost Xi^vseyuk blond hair Xisu⁴ light-faced; ghost
- $\hat{\lambda}$ *isi'da-*, $\hat{\lambda}$ *isi'da'k*^w clearing in the woods, meadow, prarie $\hat{\lambda}$ *isi'daċu'?is* prairie, meadow, valley
- $\hat{\lambda}isi'\dot{q}a-, \hat{\lambda}isi'\dot{q}a\check{c}i\lambda$ day breaks, dawn comes $\hat{\lambda}isi'\dot{q}?ak^w$ day, daylight $\hat{\lambda}i\dot{\lambda}is\dot{q}ak^widuk$ pray $\hat{\lambda}isi'\dot{q}acpa$ sunny side of a mountain

Åi stax lesser snow goose, *Chen hyperborea hyperborea* (Gunther 1936: 106)

 $\hat{\lambda}i'$?uq^wati: scallops [N $\hat{\lambda}i'$ ya?atu(-q-)]

λi·x^w-, *λi*·xši*λ* laugh *λi*·x^wa[·] laughing [N *λi*·x^w-, *λi*·x^wa[·]] *λi*·xu[·] smile *λi*·*λi*·x*qadi* sound of laughter *λi*·*λi*·xyu[·] whole bunch of people laughing *λiλi*·wik laughs *λi*·waq*λ* amused (said of a man) *λi*·xsu[·]q*λ* amused (said of a woman) *λi*·x^wo[·]wi funny (laughed at, made fun of)

- Xix-, XixšiX turn red Xixuk red [N Xix- Xix^w-, Xixak Xix^wak; Xih-, Xihuk] XiXixi'yił whitecrested cormorant, Phalacrocorax auritus cincinatus (Gunther 1936: 106) XiXixpatas rosy cheeks XiXixpatasyak^w rouge, blush, make-up XiXixs?ał chitons, red backs XiXi'xa'dił carrots Xixapix red snapper Xixa'pał cherry bark binding for whale hunting Xixi'daqsuba lipstick Xixi'citqak^w pink, reddish Xixi'?aqXbap western yew Xi'xeyuk red hair Xixi'?iłta red nose Xixi'ba northern flicker, Colaptes auratus lutcus (Gunther 1936: 110) Xixi'patuł blush, embarrassed Xixu'ł red blotch on face Xixbabit Woodpecker (story character) [N Xihmamit]
- $\hat{\lambda}ixaq$ skin, leather, hide [N $\hat{\lambda}ih-aq(^{w}-)$]
- $\hat{\chi}_{i'yit}$ footprints, animal tracks $\hat{\chi}_{i'}\hat{\chi}_{i'yitis}$ many footprints on the beach
- $\hat{\lambda}i'yu'\dot{q}^wa?a$ shinny game [N $\hat{\lambda}i'yu'\dot{q}^wa?a(-q-)$]
- *Xubukušbap* buckthorn
- $\hat{\lambda}$ *ubuxsit* broth [N $\hat{\lambda}$ *imš-*?]
- $\lambda u \dot{c} q a$ knot on tree [N $\lambda u \dot{c} q$ -, $\lambda u \dot{c} q a$]
- $\lambda u \dot{c}$ -, $\lambda u \dot{c} a b a$ large mussel [N $\lambda u \dot{c}$ -, $\lambda u \dot{c} i m$] $\lambda u \dot{c} a p i$ name of an outlying sea rock $\lambda u \dot{c} u d i t$ place name (Lyre River) $\lambda u \dot{c} i k s$ eating mussels
- $\hat{\chi}u^{2}/l^{-}$, $\hat{\chi}u^{2}\delta^{i}$ put hand against, touch, feel with hand $\hat{\chi}u^{2}a^{i}$ hand flat against, feeling, touching [N $\hat{\chi}u^{2}-$, $\hat{\chi}u^{2}a^{i}$] $\hat{\chi}u^{i}$ hand flat on beach $\hat{\chi}u^{2}api$ hand up in the air $\hat{\chi}u^{2}aqsi^{2}$ hand over mouth

 $\hat{\chi}_{u'}\hat{\chi}_{u'}bac$ testicles

- *λuλubuqadi* motorboat, gas engine [N λuλumu-2in]
- *λu'λu'čuksuk* sea parrot, puffin
- XuP- Xupa'ł hot, warm [N Xum Xu'm-, Xupa'] Xu'bi'ks eat, drink sth hot, warm XuXupča'?ap feeling warm, hot Xupsaqstuba warm underwear Xu'baxs warm water, soup, etc. Xu'bi'xa sweating Xu'baduba neck scarf

 $\hat{\lambda}u'pa'$ doctoring by laying hands on belly and singing songs [N $\hat{\lambda}u'p-$, $\hat{\lambda}u'pa'$]

 $\hat{\lambda}upk$ -, $\hat{\lambda}upk\check{s}i\lambda$ hit with beak, peck $\hat{\lambda}upku$ · $\hat{\lambda}upka$ pecking [N $\hat{\lambda}upk$ -, $\hat{\lambda}upk\check{s}i\lambda$] $\hat{\lambda}upku$ ·yak^w

beak

Župsu'ć rib

λupu's cormorant, shag [N *λipus-*, *λipu's*]

λupač root [N *λupač*]

Âupe'?ičx summer

 $\hat{\chi}uq$, $\hat{\chi}uqu$ wide [N $\hat{\chi}uq$ $\hat{\chi}uq^waqs$ platter

 $\hat{\lambda}ux\hat{\lambda}ux$ oyster [N $\hat{\lambda}ux\hat{\lambda}ux$]

 $\hat{\lambda}uxq$ -, $\hat{\lambda}uxq\check{s}i\lambda$ small explosion $\hat{\lambda}uxqapi\lambda$ get blown up into the air by an exposion

mačłat Muchalat Tribe [N *mačł-a't*]

maqa' Makah Tribe (< Clallam)

na'ni' grizzly bear [N na'na-q- na'ni-q- nana-q- nani-q-, na'na na'ni]

nučarłat Nuchatlat Tribe [N *nučarł-?at*]

nu'ča'nuł Nootka Tribe [N nu'ča'ńuł]

?o'linčas orange (fruit) (< Eng. 'oranges') *?o'?o'linčaskuk* lemon

pak^waq cross (object)

part.-, partšiλ fillet, de-bone fish *partck^wi* salmon strips *partaryu* fish filleted for roasting on sticks

parłarč potlatch (< C.J.) [N pałarč]

pa's-, pa'sak^w damp pa'sapi damp, misty air

*pa'staqši*λ yawn

*parš*xsuk Raven's wife [N *parš*h-uk]

paťaqak^w parched, dry mouth or eyes

pax- peeking [N pax-, paxak] paxsa wir peeking through a window papaxdab peeping tom

pa'xac beehive, nest [N pa'wac] pa'pa'xackuk yeast bread

pa'yis pie (< Eng. 'pies') *pa'yisċakyak*^w pie pan

picksi?i-q-, picksi?i: grave [N pi'ck-sýi(-q-)] pipicks?iqas graves

- *pic-*, *picup* inner cedar bark [N *pic-*, *picup*] *pipickukcaq*λ orange (color) *pipickuk* orange (color)
- *piku-q-*, *piku?u:* small trinket basket [N *pika?u' piku?u'*] *pi'kuqi'yił* make baskets indoors *pi'kuq^wi'ł* basket weaving *pi'kuq^wi'łuwił* basket weaving room

pila'q liver

- pile'pile: sword fern, fern game
- *piłq- pił-, piłši*λ get tight *piłak^w piła[·]* tight [N *piłq-, piłqa[·]; pił.-, piła[·]*] *piłqapł* tight around a circular object
- *pisat-*, *pisatši*[†] move about *pistatuk* moving about [N *pisat-*, *pisatuk*]

piršberd fisherman (< Eng. 'fisherman') [N *piršmern*]

pi'špiš cat (< Chinook Jargon) [N *pi'špiš*] *pi'pi'špiškuk* bobcat

pišq-, pišqšit close one eye, wink pišqa' one eye closed pi'šqpi'šqa winking

pišq-, $pišqši\lambda$ (to) dent $pišqak^w$ dented

pit-, pitši^λ bunch together *pitak*^w bunched together [N *pit-.-*]

pitas halibut strips

pitq-, *pitqši*λ get wedged in tight *pitqa'* wedged in tight [N *pitq-*, *pitqak pitqa'*] *pitqi'duk* crowded together, packed tightly together

pi'x-, pi'xši\u03c6 aim, look through telescope, binoculars pi'xa' aiming [N pi\u03c6-, pi\u03c6a'] pi'xi'yak^w binoculars

pu-, pu?ak^w several running, running enmass [N *pu-, pu?ak puya^r*] *pupu?ayi*⁴ fish in schools *pukurbis* wild, untamed person; person mask of the nearly drowned [N *puk-, pukmis*] *pupuxci?a* seaweed of a certain species

purtq-, *purtqši*λ blow a horn *purtqar* blowing [N *purtq-*, *purtqar*] *purtquryak^w* fog horn or whistle

pux-, $puxši\lambda$ inflate, fill with air; blow pux^wa^r inflating, blowing pux^wak^w inflated [N $purx^w$ -, $purx^wa^r$] pux^wap^t inflated purwas blown down on the ground $puxsi?i^r$ baking powder, yeast, leaven $puxska^rpuba$ air valve (seal skin float air hole) (female end) $puxu^rbatid$ get blown around on the water $purx^wapi\lambda$ get blown up in the air

pu'yak^w gun [N *pu'*]

pa-, pači give money, gift away at a potlatch [N *pa-, paya'*]

pa-, $pa?ak^w$ small, round objects scattered about (rep.) [N pax-, paxa'] pap?espat September paqu't apply powder to one's face pe?it small round things scattered on the floor

 $\dot{p}a?ak^wayaya$ scatter small round objects about $\dot{p}a\dot{p}?es$ cranberries

pac-, pacšit foaming up, bubbling pacapacš whipped berries, Indian ice cream [N pac-,

pacak pacar] *pacarbis* foam (substance)

*parčirda?a:t*x Pachenat Tribe [N *parčirna-?at*h]

parčirdak^wiyił northeast, northeast wind

padawił large freight canoe [N *pinwał*]

patq^w-, patq^wak^w goods, stuff, one's belongings patqši\u03c6 pack one's belongings [N patq^w-, patquk] papatqi'?ib excess baggage papatq^wit many possessions in house pata'q^waxsyak^w box, container

patxak^w decayed, rotten (tree) [N *path-*, *pathak*]

piłuq-, piłuq^wak^w soft (material) *piłuq^wał* soft fabric, surface, soft cloth *pipi-q-, pipi?i:* ear [N *papi-q-, papir*] *pipiqčar?ap* earache

 $pu'q\hat{\chi}u'$ small tide pool crab

 $\dot{p}uq$ -, $\dot{p}u\dot{q}^waq\lambda ituba$ feather, down [N $\dot{p}u$ - $q\lambda$ -, $\dot{p}u$ - $q\lambda i$ -tim] $\dot{p}u\dot{q}^waq\lambda$ feather mattress $\dot{p}us$ -, $\dot{p}us\dot{s}i\lambda$ get tired $\dot{p}usak^w$ tired [N $\dot{p}us.$ -, $\dot{p}usak$] $\dot{p}u$ -yatu rest after work

pu?up moss [N *pu-, pu?up*]

qa-, qači^λ prick, puncture with needle or awl [N qa-, qaya'] qačak^w fish net needle, needle, pin qe?i'yuba broach qaču' tattoo qaksa'wi' poke through

qa?awac burden, pack basket [N *qa?u'-c*] *qaq?awaca'?a*⁴ Basket-Woman (story character)

qa'bi't- caught by a trap [N *qa'mi't*-, *qa'mi'tši* λ] *qa'bi'tapi't* hanging (by noose rope)

qabq^wa^v maybe, I suppose

qac- on the left [N qac-] qaca's left hand qacpa' left side qacuq left-handed

qaćał-, qaćałi:da lice eggs, nits

qačaqapł water-tight basket

qa'dixx demanding, insistent qa'dixxiduk forceful, stubborn

- *qakwaš-, qakweyu* salmonberries *qakwašak^w* red hot [N *qawaš-, qawi'*] *qakwašpał* June *qaqawaškuk* raspberries *qaqawaškuk^wasxuł* birthmark on chest
- *qalabitq-, qalabitqši*² boil *qa'qa'labitqa* boiling *qalabitqču'* boiled food *qalabitqiks* eating sth boiled

qa'*laqeyuk* beheaded [N *qatq*^w-]

qaš-, qali?i: eye [N qas.-, qasi'] qaqašča'?ap eye (sore) qasqi'ba crown of head

qalupqi: nettle

qała'tk^w qała'tik^w younger brother or junior line cousin of a male [N qałatk^w- qała'tik^w-,

qała'tik]

qałse'?i: calm weather

- *qaP-*, *qapši*λ (to) trap, snare *qapa*⁻ trapped, lassoed, snared (iter.) [N *qam-*] *qa*⁻*baq*λ*uba* sth tied on head (e.g. bandana, cedar headdress)
- qa'q cry of Raven [N qa'q]
- *qasqeyap* starfish [N *qasqi-q-*, *qasqi*p-*, *qasqi*p*]
- qat-, qatšit cut into two pieces [N qat-, qatak qatar]
- qaT-, qata' hard (to cut or break), tough [N qat] qaqadis hard beach
- qata'wa't half
- qatq- amputate [N qatq^w-, qatq^wa^r] qa^rqatqsta amputated leg
- *qa'wic* potato [N *qa'wac*]
- qax-, $qaxsi\lambda$ die, become numb $qaxak^w$ dead, numb [N qah-, qahak] $qaxak^wil$ corpse qaxukhalf dead qaxubal still born
- *qa'x-, qa'xas* barbed [N *qa'h-, qa'has*(.-)] *qaqaxcuba* safety or blanket pin *qa'xasuba* salmon harpoon barbs
- *qaxu'k* thirty
- qa'yaqši t shout, yell
- *qi'y- qiy-, qi'* long time [N *qi'y- qiy-, qi'*] *qi'dax* way or condition *qi'k^wart* gone a long time *qi'?a'pi* erect, up in the air a long time *qi'?a'pi's* standing on the beach a long time *qi'ya'p* too long *qiyu'č* stay awake late
- *qi* shift position [N *qi*-, *qiya*'] *qi*'*kwiya*^{*i*} pocket knife $qi^{2}ak^{w}a\check{c}i\lambda$ break down (car)
- *qic-*, *qicši* λ mark, paint, write [N *qic-*, *qicar*] *qicqicap*⁴ spotted, speckled *qicču*^{*} tattoo *qici*²*i*^{*} tattoo
- qič-, qiči:da louse [N qič-, qičin] qičał have lice qiqičkuk tick
- *qiłcba?a:t*x Kelsemat Tribe [N *qiłcma?-at*h]
- qi'qeyač thunder

- qiš-, qišši¹/₂ go askew, sideways [N qiš.-, qiša⁻k qiša⁻] qišap⁴ crooked, dented, out of shape,
 bent qi⁻šapi bent over qišaqsi¹/₂ mouth goes sideways (when a ghost looks at you)
- *qišim* spirit of Wolf Ritual [N *qišap-q-*, *qi'šim*]
- qi'tqi'ta making a net in knots [N qit-, qitak qita']
- *qit-, qitap* bass *qiti'dit* place name (Duncan Rock)
- *qi'wax* steelhead trout [N *qiŵah*]
- qiwičida:tx Cowichan Tribe [N qiwi'čin-?ath]
- qi'yu't long life
- qu?ac- qu?as-, qu?as husky person, man of worth; person (only in derivatives) [N qu?ac-, qu?as] quq?acatx village qu?acasi?ir mermaid qu?acut good for nothing qu?aryičida shadow, soul quq?acc?ak^w responsible
- qulu'l salmonberry blossom
- qutu' slave [N qut.-, qu't]
- *qu's-*, *qu'sši*λ poke with a sharpened pole, stick *qu'squ'sa* poking *qu'qu'sk^widu'ksta'qsuba* tooth pick *qu'stu'p* pole
- *qutak^w qutkak^w* hard, tough, stiff [N *qut-, qutk-, qutkak*]
- *qu?u't* sturgeon
- qux-, $quxši\lambda$ freeze quxu ice [N qux^w -, qux^wa qux]
- $q^{w}a$ -, $q^{w}a'$ be thus, be so, be a certain way [N $q^{w}a$ $q^{w}ay$ -, $q^{w}a'$] $q^{w}a'ss?ox$ intentionally $q^{w}a'?a'p$ do thus, like so $q^{w}a'?u'kt$ get sth thus or in a that $q^{w}aq^{w}akuk$ what sth looks like $q^{w}a'yak^{w}$ whatever sth is for $q^{w}a'du'\lambda$ that's why $q^{w}a't?et$ pretending, make believe
- $q^{wa}ca^{t}$ beautiful, pretty (said of objects only) [N $q^{wa}ca^{t}$] $q^{wa}q^{wa}ca^{t}i^{t}i^{t}b$ ornament $q^{wa}ca^{t}a^{t}$ pretty garment $q^{wa}ca^{t}a^{t}yic$ wearing sth pretty
- $q^{w}alat-q-q^{w}alit-q-$, $q^{w}alala$ glaucous-winged gull, *Larus glaucescens* (Gunther 1936: 108) [N $q^{w}it-q-$, $q^{w}inir$] $q^{w}alatqirc$ belong to a sea gull $q^{w}alit\dot{q}a?ar$ sea gulls on the rocks

q^wapa^{*t*} custom

- q^waq^wak²i acting different, actions
- $q^{w}axax$ for this reason, because of this
- *q*^w*ayaći:k* wolf (< Nk.) [N *q*^w*ayac*-, *q*^w*ayaći*·*k*]
- q^wi (only with Relative mood) whoever, whatever [N q^wi-, q^wiq] q^wibu^p whatever it is
 q^wi·ba·ċu whatever one is talking about q^wi·bi·k whatever one hunts, quarry q^wi·?i^λ whatever one gets q^wipał flavor q^wiq^wiyuk whatever one is doing
- *q^widičča-q-* Makah *q^wi·q^wi·diččaqa* speaking Makah [N *q^winišči-?atḥ*] *q^widičča?a·t*x Makah Tribe
- *q^wir?iqsu* parent-in-law, child-in-law [N *q^wir?ic-*, *q^wir?iqsu*]
- $q^{w}isi' q^{w}asi'$ fix sth; do sth, do thus, so [N $q^{w}is, q^{w}isita$]
- $q^{w}i\check{s}.-, q^{w}i\check{s}a'$ smoke, smoking $q^{w}i'\check{s}q^{w}i'\check{s}a$ smoking tobacco [N $q^{w}i\check{s}.-, q^{w}i\check{s}a'] q^{w}i\check{s}a\dot{c}is$ chimney stove pipe $q^{w}i\check{s}i'?i'ks$ smoking (a cigarette, etc.) $q^{w}i\check{s}sac$ pipe $q^{w}i\check{s}sacbap$ clay pipe

q^wišu'was smoke house

qabačapł dishpan, enamel ware

qa'bapi?i: sap-wood [N *2amipa(-q-)*]

qabatši[†] sing the chorus of a song [N ²*imt-*, ²*imta*']

qabicaqbap cottonwood [N ?amica-q-, ?amicapt]

qabirq horse clams [N 2amiq-, 2amirq]

qabitqak^w water whirling in a whirlpool [N *2imatq-*, *2imatqa*]

qarbirwi:ya:p punish sb to teach a lesson [N 2armiq-ir4]

qacawit cataleptic state in Wolf Ritual [N 2ac-, 2aca']

qaci's continue

qarcuk continually, habitually [N 2arc-, 2arcuk]

qacik artful, talented, expert, versatile

- *dač-*, *dačši*t extend one's arm; strike with the elbow [N qač-, qača'; 2ač- 2ačk-, 2ača']
 - 2ačkar] qačiyar give sth to sb by extending the arm
- $\dot{q}a\dot{c}at\dot{s}i\lambda$ extend the elbow
- *qadat-*, *qadatbis* bird droppings [N 2int-, 2intmis]
- *qak*^w- cut sideways, whittle [N 2*ak*^w-, 2*ak*^w*a*^{*}] *qakayak*^w knife *qak*^w*abup* peel potatoes *qakck*^w*i*^{*} shavings from whittling
- *qalałču?u:* flounder [N *2anałća(-q-)*]
- *qala'?axs* chamber-pot
- *qałtadis* bear grass
- *qapark*^w willing *qapirwi* λ yield, become willing [N *2ap- 2ap-ak*^w-, *2apark*] *qaqarpak*x ambitious, diligent
- *ἀapk^w-, ἀapkši*λ put arms around, hug *ἀapk^wa*, arms around, hugging [N *ʔapk^w-, ʔapk^wa*] *ἀapka[·]ϕa[·]pkeyak^w* cuddly (thing for cuddling) *ϕapk^wasxuł* arms folded against the chest
- *qarqawa:d* fish nose, salmon nose [N ?awat-q-, ?awin]
- *ἀas-, ἀasa·ἀa·sa* carving [N *ʔas.-, ʔasʔasš*] *ἀasa·ἀaqλ* carpenter, carver *ἀaso·was* carving room or building *ἀaspał* September
- *ἀaš-, ἀašši*λ string or line breaks *ἀašuk* broken (string or line) [N *ʔaš.-, ʔašši*λ] *ἀašk^wačyu* broken in pieces
- *qatši*ħ heal [N 2*at* 2*an*-, 2*ata*' 2*ana*']
- $\dot{q}atak^{w}$ limber, pliable [N $2a\lambda$ -?]
- *datiqši* express thanks, appreciation [N ?*atiq-*, ?*atiqši* ?*atiqak*]
- *qatx^w-, qatxši*λ shrivel, curl up *qatx^wak^w* shriveled, curly [N *2atx^w.-, 2atx^wak*] *qatx^wapł* curly hair

 $\dot{q}a\dot{t}awa$ Pacific beaver, *Castor canadensis pacificus* (Gunther 1936: 116) [N $2a\dot{t}ax^w$ -, $2a\dot{t}u'$] $\dot{q}a^2uk$ lake, body of water [N $2a^2u$ -k] $\dot{q}a\dot{q}^2o\dot{k}^was$ many puddles, ponds $\dot{q}a^2u\dot{k}^was$ tide pool *qayaqsit* dirty, cloudy water

- *qe'?i?i:* wound, laceration [N *2e'?i'*]
- *qi*?ał-, *qi*?ałšiλ cry, start crying *qi*?ałuk crying
- *qiba*'d umbilical cord [N 2*imat-q-*, 2*imin*]
- *qiceyit* (female) puberty, menstruation [N 2*ic*-, 2*ica*'t]
- *qičkat-*, *qičkatši*[†] nod the head *qi'qi'čkata* nodding
- *qi'da'k* speak sympathetically, kindly [N 2*ina-*, 2*ina'k*]
- *ἀiλč-, ἀidi'λ* dog [N *²iłč-, ²ini'λ*] *ἀidi'λi'ks* bringing a dog *ἀiλči'bap* pacific dogwood

*qiqi*λčkuk coyote *qi*λi'čaxs dog in a vessel

- *qiki* pair of brothers [N *i* k("-)]
- *qit.-, qitir?it* big, long feather [N 2*it.-, 2iyart*] *qitqirba* feather in hair, feathered head-dress
- *q́i'qši*λ yell, cheer [N 2*iq-*, 2*iqši*λ]
- *qiqiča* eyebrow [N 2a2ič-, 2a2iči]
- *qiqirtsuba* dust in the eyes (refers to a child in the way)
- *dit-*, *dit2uk* lie, prevaricate (durative form apparently used only to describe women) [N 2it-,

2ita'] $\dot{q}i'tk^wa\check{c}i\lambda$ lie, prevaricate, "stray from the truth" $\dot{q}i\dot{t}aq\lambda$ liar (said of a man)

qita·*k*^w disbelieving [N 2*itak*^w-, 2*ita*·*k*] *qita*·*ksuq*^λ doubt

- *ģiwi'šaq-*, *ģiwi'šaqak*^w pink open scab like blood blister, etc. *ģiwi'šaqsi?i'* medicine for healing wounds
- *qix-*, *qixak^w* crying [N 2*i*h-, 2*i*ha' 2*i*hak] *qi*xi2*i*k crybaby
- *ģixe'?ičida* coat
- *ģiyiģi'y* onion
- *q́i'q́i'yupqa* galloping
- *qu'caqtup* fruit

- *qu'P-*, *qu'pši* (liquid) flows, pours out *qu'puk* pouring, flowing out [N 2up-, 2upa']
 qu'qu'badi sound of liquid flowing
- *ququ'da:bac* limpets, china hats
- *dudušaqdukuba* knee
- *qu'sap* alien, Salish [N *2u'sap-*] *qu'qu'sapa* American golden-eye duck, *Glaucionetta clangula americana* (Gunther 1936: 107, glossed literally as 'anybody that talks Klallam') *qu'sapat*<u>x</u> alien, Salish
- *dusot-*, *dusoti?i*: belly, stomach [N *2us-pat- 2us-patu-q-*, *2uspatu*]
- *qu'ya* medicine [N 2*uýi*]
- *quyap* translate, interpret, clarify [N 2uyap]
- $\dot{q}^{w}a$? $a\dot{p}eyis$ place name (in the prairie along Waatch river)
- $\dot{q}^{w}abaq$, $\dot{q}^{w}abaqak^{w}$ green, yellow [N 2*uma*^{*}q-, 2*uma*'qak] $\dot{q}^{w}a\dot{q}^{w}abaqap$ ⁴ gold finch, orangecrowned lutescent warbler, *Vermivora celata lutescens* (Gunther 1936 112) $\dot{q}^{w}a\dot{q}^{w}aba\dot{q}aq\lambda$ squash (vegetable)
- *q*^w*acaqak*^w partially dried fish, fresh fish [N 2*acaq*-, 2*acaqak*]
- $\dot{q}^{w}a'la'$ š Pacific raccoon, *Procyon lotor pacifica* (Gunther 1936: 114)
- $\dot{q}^{w}a$ is heron [N 2a nus]
- *ἀ^waλ-*, *ἀ^waλa·k^w* flexible, easy to bend, limber [N *ʔaλ-*, *ʔaλa^v ʔaλak*] *ἀ^wa·ἀ^waλċaqał* contorted (double-jointed)
- *q*^w*aq*^w*a*[']*?abap* wild rose
- $\dot{q}^{w}a\dot{q}^{w}alabaq$ š osprey, Pandion haliaetus carolinensis (Gunther 1936: 108)
- $\dot{q}^w ata bap$ yarrow
- $\dot{q}^{w}axsa^{v}bap$ alder tree
- *q*^w*a*'*ye*'?*ičx* autumn [N ²*ay*'-*i*'*čh*]
- $\dot{q}^{w}a'yuq$ -, $\dot{q}^{w}a'yuq^{w}ak^{w}$ pale $\dot{q}^{w}a'yuqu$? pale of face

 $\dot{q}^{w}e'ti'$ trickster story character

- $\dot{q}^{w}i\check{c}a'k^{w}$ rotten, decayed [N $2i\check{c}$ -, $2i\check{c}a'k$]
- *q^wi'daqši*^λ smoulder
- q^wiλ- snow, rock, earth slide [N 2i·λ-k^wačiλ] q^wiλaqatu snow, rock slide q^wiλas mud, rock slide q^wiλa^v place name (Koitlah Point) q^wiλk^wačiλ collapse when support gives way in a structure
- *ἀ^wirq-*, *ἀ^wirqši*λ char bottom of canoe to make it smooth [N *2irq-*, *2irqar*] *ἀ^wiqirba* dogfish, shark skin sandpaper
- $\dot{q}^{w}i\dot{q}^{w}i'daqapawax$ red-tailed hawk, *Buteo borealis calurus* (Gunther 1936: 107, glossed literally as 'slug-eating hawk', so this word may be related to $\dot{q}^{w}iti'da:bac$ 'snail')
- *q*^{*w}<i>iti*</sup>*da:bac* snail [N *2inmi*(*q*-)]</sup>
- \dot{q}^{w} *iti?i*: backbone of fish, salmon backbone
- $\dot{q}^{w}ityat$ mink [N $k^{w}atyat$]

sa-, sa'?uk crawling on all fours [N sa-, sa'?uk] se?it crawling on the floor

sa?ačit strike with weapon, wound [N sa?a-, sa?ačit]

sabars shark [N mamarsiyak("-)]

saba xtaqbap Douglas fir

sacup jack salmon, small young king salmon (freshwater name) [N sac-, sacup]

sad?ał kelp line for fishing [N sanapał] sasad?ałkuk earthworm, angleworm

sardiča:tx Saanich Tribe [N sarnič-?ath]

sa'dti' Sunday (< Eng. 'Sunday') sa'di'tax Saturday sa'dti'?o'was church

salaxał rush, tule reed [N sanaxał] salaxałbap cattail

satq-, satqši^λ itch sarsartqa⁴ itchy, scratching an itch

saxa'?ap peeling cedar bark [N sah-, sahas]

sa'yupq-, sa'yupqšit whistle sa'yupqa whistling

- *si-*, *siči*λ strike a match; stir, mix *si*^{*}λ*si*^{*}*ya* striking matches, stirring *si*?*i*4*yak*^w drill for starting fires
- sibi'ta roast fish over open coals [N simt-, simta']
- siči' fish chowder
- sidu?u: small turban snail, black periwinkle snail
- *sirk-*, *sirkar* sailing [N *sirk-*, *sirkar*]
- siłsiti:d?aq^λ Pacific fisher, Martes pennanti pacifica (Gunther 1936: 114)
- siq-, siqa^r cooking siqa^λ ripe, cooked [N siq-, siqa^r; si²a^λ] siqču^r cooked (food) siqi^r cooked (done) siqi^rda^rk^w cooking sth siqi^rti²i^r chef, cook

siq-, si'quk suppurating, discharging pus [N siq-, siqa'] siqi'bis pus $si\dot{q}aq\lambda$ pimple, abcess

- sisi'quwe: savannah sparrow
- *sit-*, *sitši*λ split *si⁻tsi⁻ta* splitting [N *sit-*, *sita*⁻] *siti⁻yu*⁻ split *si⁻sitck*^w*i* chips from splitting wood, splinters
- *sitk-*, *sitkši*λ wag tail *si'tksi'tka* wagging tail [N *sitx-*, *sitxši*λ]
- sitx-, sitxšit rip, tear sirtxsirtxa ripping [N sitx-, sitxar sitxak] sitxiryur torn

siťa tail [N sit-, siťa]

- six^w.-, six^wi?i: scattering of scabs, rash sixši λ have scabs, rash, sores [N six^w-, six^wi?] six^wa^wa^wix gray whale six^wa^waixpał December six^wi?iłta scabby nose
- siya' I, me [N si-, siýa]
- *si'yu'p* fish for octopus [N *siýu'-q-*, *siýu'p*] *si'yu'pyak^w* octopus fishing pole *si'yu'pe'?is* go fishing for octopus

si[·]c-, *si[·]ci[·]ba[·]da* maggot *si[·]cši*λ full of maggots [N *si[·]c- si[·]c-min-q-*, *si[·]cmin si[·]cma[·]na*] *slahe[·]l* bone game

su-, suk^wiλ take hold of, pick up, get su^v holding [N su-, su^v] susutkiλ shake hands su^v?a^vpi catch sth

su'p soup (< Eng.) [N *su'p*] *su'p?iks* eating soup

su'*p* soap (< Eng.) [N *su*'*p*]

suqwa[·]biš Suquamish Tribe

sus-, susših swim su'suk swimming [N sus-, susa'] su'spadač swimming around

surtsurta boring a hole [N surt-, surtar]

suwa' you (singular) [N sut-, suwa]

suwa'č you (plural)

su'yaq net, web *susu'yaqš* fishing with a gill net *su'yaqi'yik* spider *su'yaqap*⁴ wicker bottle

sweta' sweater (< Eng.) [N swata]

šaba feces, excrement ša^{*}λša^{*}beya diarrhea šaba?uwił bathroom, outhouse, toilet šaba?e^{*}?is going to defecate šašabakuk brown

šačaqał sharp

- *šačk-, šačkak*^w sharp [N *sačk*] *šača kiłta* sharp-pointed object, sharp-pointed *šačka pi*, goose berries *šačkqi*^v place name (Spike Rock) *šačka pł* sea urchin *šaša čkapi* sharp points sticking up on the beach
- šača- šačiya-, šač?ak^w permanantly, unceasingly [N sača- sača- sač-iya- sači- saču-] šačaksuqλ constipated šačiyacaqabiλ circle around sth continually

šača's one of a pair of appendages [N sača-]

ša'šu' interj. altogether now!

- *ša'xtak*^w fuzz sticking straight up [N *ša'xt-*, *ša'xtak*]
- *šax^w-*, *šaxši*λ flee in fear [N *šax^w-*, *šax^wa'*] *šax^wi's* chasing (along) *šaxuy?i'tap* chase out of the house
- *ši*λ-, *ši*'λ*uk* moving, changing residence [N *ši*λ-, *ši*'λ*uk*]
- *ši*λ*a*'*bap* fern [N *ši*λ-, *ši*λ*a*']
- *šiq-* drawn together, pursed [N *šiq-*, *šiqak šiqar*] *šiqskarpił* pursed up *šiqurł* frown

- šiš- pared, peeled; brushed off, swept clean [N šiš.-, šišak šiša'] šiši'yu' cleaned, brushed off, picked clean šiša'pł peeled
- šiš-, šiššiλ weather clears šišuk clear weather šiššiλa ?aλ clear (weather), likely to clear (sky) ši šdax naked ši šdaxtiλ undress [N ḥaṅaḥ, perf. ḥaṅaḥtuλ]

šu['] interj. okay, good-bye [N *ču*, *ču*[']]

šu?a[‡] rusty

šučar?atx soldier (< Eng. 'soldier')

šuča five [N suča- suči-] šučaćiq five long objects šučačeyał Friday šučaqapł five dollars,

round objects $\check{s}u\check{c}a\dot{q}i\check{c}x$ five years $\check{s}u\check{c}axtak$ five sackfuls $\check{s}u\check{c}iq$ one hundred

šuč-, *šučas* tree [N *suč-*, *sučas*] *šušučkuk* look like a tree

šutk-, šutkšit sniff, snort šutka' sniffing, snorting šutka'qadi snorting sound

šu?uk interj. come here!

šu?uk^watx Sooke Tribe [N *šu?uk^w-ath*]

šuwa interj. well, then

šu'yu't halibut *šu'šu'yuta'taxsac* halibut canoe *šu'yu'takt* dried halibut

ta' there

ta-, ta·?uk drifting [N ta-, ta?ak; ta·-, ta·čiλ] ta·padač drifting around tatabeyis hooks attached to drifting floats taxsuwa' drift downstream; flow out taxtačiλ slip away (e.g. rope, pole, canoe)

tača'w ghost, spirit

ta'č*i*λ singing a dinner song

tada:bac mosquito [N *tanak-ma-q- tanak^w-, tanakmis*]

ta'das beyond, far, way over there

ta'ka' anyway, nevertheless [N taka']

takya'yu older brother or senior line cousin of a male [N *tayic-q-*, *ta'yi'*]

*takyi*yuk heavy [N k^watyi-, k^watyi'k]

tała' warm, comfortable [N *ta*'*ł*]

tapa'ba canoe cross piece [N *tap?a-q- tapa-q-, ta'p?im*]

 $tap \check{s} i \lambda$ add on

taqi' earthquake [N taqi']

taq^w-, taqši^λ squeeze, wring with the hands taq^wa^{*} squeezing [N ta^{*}q^w-, ta^{*}q^wa^{*}]
taqa^{*}wadi^{*}yak^w pestle, maul taq^wi^{*}yi^λ choke, strangle (a person) tata^{*}qduk squeeze sb on the hand

taqał-, taqałč person who walks with a cane [N ta?ał-, ta?ała] taqałuba cane

tas-, *tasši*λ rub on/off, smear *ta'sta'sa* rubbing on/off, smearing [N *tas.-*, *tasa'*] *tasap*⁴ enamel ware cooking utensil *tasa'*4*a'ya'p* smear sth *ta'yatupyak*^w eraser

ta'*xši*λ moving about slowly

tayi'dil fish or seal club

ta·la[·] money [N *ta·na·*(*q-*)] *tata·l?eya*x earning money *ta·la·dak*^w to have money *ta·late·?it* counterfeit money, play money *ta·la·xtida* silver substance *ta·la?u·was* bank *ta·la·ksac* billfold, wallet, purse *ta·ta·laqλsuba* eyeglasses *ta·ta·laqλsubaċu·yak*^w glasses case

te'dups turnips (< Eng. 'turnips') [N *tanups*(.-)]

te?idiwa sea cucumber [N *te'-?ic- te'-?inwa-q-, te'?inwa*]

te?ił sick [N *ta-*, *te?ił*] *tart?eł* sick (pl.) *te?iłckida* a little sick *te?iłorwas* hospital *ter?iłuk* feel sick *te?iłbaqši*\$ sick constantly *te?iłbis* catch (a disease), sickness *ter?iłowałuk* nurse *terkidis* socks, stockings (< Eng. 'stockings') *terterkidiscił* wearing socks *terkidisbap* yarn *tir* tea (< Eng.) [N *tir*] *tircakyak*^w teapot *tirksac* teapot

ti' this

*ti-, tiči*λ wipe *ti*·λ*ti*·ya wiping [N *ti-, tiya*·] *tibeyi*ł wiping in the house *tibeyi*łyak^w mop *tiktu*·p paper towel, kleenex *tiqa*·wuba face towel *tiqu*·ba face towel *titiqsupyak*^w dish

towel *tititk^w* wiping one's hands *tititkuba* hand towel *ti?aqsuba* napkin *tirkcuba* toilet tissue *ti?ar{aryarp*} wipe sth on the exterior $ti\dot{c}ak^w$ branches in bundle for bathing, brush of branches *titiksi* λ wipe tears from eyes *titiqsup* wiping dishes

tibis-, tibisbis charcoal [N *tum-is-, tumi's*] *tibisawi* λ get ashes put on face (for dancing) *tibu't* skunk cabbage [N *tima^tt*]

ti'ca?a: ti'c that one there

ti'čaq northern sea otter, Enhydra lutris lutris (Gunther 1936: 114)

tirč- tič-, tičir alive, healthy [N *tiřč- tič-, tirč*] *tirtirči?ir* soul, life *tirč?eyax* trying to stay alive *tirčsirwir* survive

ti ču'x gather seafood *ti ču*'xba'ya?a' out on rocks collecting seafood

tida[•] that one, this one here

ti·*ka?a: ti*·*k* this one here (close at hand)

tił-, tiła' fish bait [N ti'ł-, ti'ła'] tiła'ł bait on tiłsac bait pail

tiłq-, tiłqši[†] squash, smash ti⁻łqti⁻łqa smashing [N tiłq-, tiłqa⁺ tiłqak]

tiłu'*p* octopus [N *ti*'*ł*- *ti*'*ł*-*up*-, *ti*'*łu*'*p*] *tiłu*'*piks* eating octopus

tubu' $\vec{k}^{w}a$:*bac* sand flea

tubu's garbage *tubu'ssac* garbage can *tubu'yaxsyak*^w garbage can

tucq-, tucqši^λ pluck tucqa' plucking [N tucx-, tucxa']

tučił stretch tight, taut [N tučił-, tučiłak; tučił-, tučiłšiλ] tutučadi speaking harshly

tuča-, tuči?i: east, east wind [N tuča-, tuči']

tu'k-, tu'kšit cover with soil, bury tuktu'kš burying at intervals; mole, Scapanus sp. (Gunther

1936: 113) [N tu'k-, tu'k^wa'] tu'k^wis for sth (e.g. bread, potatoes) to bake in sand tu'k^was

buried in the ground $tu^{k}w^{is}dak^{w}$ sand bake, pit-cook sth

tuksac garbage can

tuktuk^wadi: owl

tuk^waq skin, hide [N *tuk^w-aq*] *tuk^waqapt* seal skin float for whale hunting *tuk^waqxtida* made of leather

tup-, *tupak*^w evening, twilight [N *tum-*, *tumak tu^vpši*λ]

tupart inherited family privileges, rights [N tupat-, tuparti]

tupk.-, tupkuk black tupkeyuk black hair tupktupkeyuk snow bird tupku?iłta black nose

tutupkabi black ears *tutupki* yuq t blackmouth salmon (young king salmon)

tupał salt water, ocean water [N tupał tupał (.-)] tupa yixa drown in salt water

tuq-, *tuqši*λ melt [N *tuq-*] *tuqkači*λ melt away

tuška·wix lingcod [N *tušk*-, *tušku*·h]

tušq-, $tušqši\lambda$ bunch together tušqak^w bunched, bundled (things) [N tušq-, tušqak] tušqistapeople bunched together in a boat or canoe

tutu'watš grouse

tuwardux^watx Twana Tribe [N *tuwarnux-?ath*]

tu wisaq Olympic elk, Cervus canadensis occidentalis (Gunther 1936: 116)

turx-, *turxši* λ spit *turxturx^wa* spitting [N *tarx^w-*]

tu'x-, *tu*'xši^λ become afraid *tu*'xuk afraid [N *tu*h-, *tu*hu'k]

 $\dot{t}a$ - object on line $\dot{t}a\dot{c}i\lambda$ throw out a line with sinker [N $\dot{t}a$ -, $\dot{t}a\dot{c}i\lambda$] $\dot{t}a$ ·?adi \dot{t} wearing a necklace

ťa'?aduba necklace

ta?aqas fish drying rack

ťaba' singing a certain kind of song [N *ťam-*, *ťama*' *ťa*'*pši*λ]

tabuq-, tabuqši \hbar tie a knot *tabuq^wak^w* knotted, a knot [N *tamuq-, tamuqak*]

*ťačči*λ- sudden *ťačči*λšiλ do suddenly *ťačči*λ*́aq́atu* sudden drop off, cliff, steep shore

ťarda- stacked, piled in layers; layered inside [N *ťarna- ťarna-q-, ťarnaqak*] *ťaťardak^wič* wearing layers of clothes *ťaťardakċiłyak^w* shoe(s) *ťaťardakċuba* golashes, overshoes

ťaťa dakćubakći wearing golashes, overshoes

tad?ot carry on the back [N *tanup-*, *tanupa*]

takw?ak^w vehicle overloaded [N *tawa* k(^w-)]

*ťak^w-, ťakši*λ scratch with claws or nails; hold in claws (iter.) [N *ňik^w-, ňik^wa*[,] *ňikši*λ; *ťak^w-, ťak^wa*[,]] *ťaka[,]yak^w* claw *ťaťakbi?i*[,]s chicken scratching around on the ground *ťaťak[,]wik* eastern sparrow hawk, *Falco sparverius sparverius* (Gunther 1936: 108)

ťak^was fish gills [N *ťak^w- ťak^w-as-, ťak^was*]

ťap- wearing a belt, girded about, tied about [N *ťap-*, *ťapq-*] *ťapa-wadi* wearing a belt *ťapa-waduba* belt *ťaťapwadi* ant

ťapat-, ťapatšit think, concentrate, plan [N ťapat-, ťapata] ťa ťa patx thinking, planning

ťapł.-, ťapłšit close eyes ťapła closed eyes ťapła ťa pła blinking [N ťapł.-, ťapła] ťapłe ?ił

lying down inside with eyes closed *tataptbataksit* flirt (said of a woman)

*ťapsči*λ dive [N *ťaps-*, *ťapsa'*]

taq- straight, going directly to where one is heading [N *taq*-] *taqatirs* directly to the beach, straight down the beach *taqččik* going directly where one is going

taqu-, *taq2uk* honest, truthful (durative is only said of a woman) [N *taqu-*, *taquq* λ]

 $iaq^wa'cak^w$ one who is witness ia'quba'cu tell the truth, speak the truth

taqu bis absolutely

ťaq^w-, ťaq^wak^w believing [N *ťaq-, ťa[·]qa[·]k*]

ťaģasi: noon

ťasa'wa' lingcod eggs

ťaš-, ťaši' door, doorway, trail, road [N ťaš-, ťaši'] ťa'yas trail, road

tašsuk part hair down the middle

tartawic bucking wind in a canoe or boat

ťa wisa:bac stars [N ťaťus-, ťaťuřs.]

tax- lean against [N *tah*-, *tahak*] *taxačakt* sleep curled up on the water (as a seal) *taxatca* leaning against the wall

ťayu'?is ťayu'?a' anchored [N ťayu'-, ťayu's; ťaya'-?a(q-)] ťayu'?a'yak^w anchor

tic-, *tici* simultaneous *ticši* do simultaneously

ticka^{*i*} drumming in a rapid beat, thundering [N *tick-*, *ticka*^{*i*}]

*tičatši*λ weigh

 $\dot{t}i\dot{c}xiyak^{w}(a)$ file

tiču p cooking pit, pit cooking

tidi'č-, tidi'čuk rock [N *ti-*] *titidičis* rocks on the beach *titidičaq* cherry (stones, seeds inside) *tidi'čukxwa't* using a stone

*ťik^wicqši*λ hiccup [N *ťik^wacq-*, *ťi k^wacqši*λ]

- *tit/l-, titar titak*^w wet, soaked [N *tit.-, titar titak*] *tilit* wet spot on floor *tilis* wet spot on the beach *titat* wet *tirlaxs* wet spot in a canoe *tirlas* wet spot on the ground
- tiq^{w} sitting $tiq^{w}a'k^{w}$ rump, bottom [N tiq^{w} -] tiqi'wadi riding alone in a canoe $tiqi'wadi'yak^{w}$ small one-man fishing canoe $tiq^{w}a's$ sitting on a horizontal surface (e.g. a chair) $tiq^{w}it$ sitting on the floor or inside $tiq^{w}is$ sitting on the sand or on the beach $tiq^{w}i'cita$ sitting in water $tiq^{w}acis$ chair, bench, seat, stool $tiq^{w}axs$ sitting in a canoe
- *tix-, tixši* sharpen *tixi?a* whetstone
- *tixcki* tears [N *tih*-, *tihšiλ*]
- tuba diving into the water (e.g. fish)
- *tucarpt* having the hair cut short [N *tuc-imt*, *tucimyu*(λ)]

tucup giant red sea urchin [N *tuc-*, *tucup*]

turd?ax^w cattail, reed, rush [N *tunax-*, *tuna*^x] *turd?axut* place name *turd?axbap* catttail

*tuk^wa'?at*x Toquat Tribe [N *tuk^wa'-?at*h]

tuk^wi'yu:k narrow opening

tulutali: shrew, *Sorcx* or *nesorcx* (Gunther 1936: 114)

- *tume nuwis* spiritual power
- *tuP-*, *tupuk* happy, glad, proud *tupsuq* proud *tutubik* fancy, vain person *tutupi*?*ib* show, share prize

tupqi?i: wart [N *tupq-*, *tupqak*]

*ťupicxši*λ sneeze [N *ťupicx-*, *ťupicxši*λ]

tutubaqš lesser loon, Garia immer classon (Gunther 1936: 106)

tutupčas rabbit

turxseyap large horsetail sprout

tux-, tuxu-cida head *tuxši*t behead [N *tuh*^w-, *tuhciti*] *tutuxča-?ap* headache *tu-watup* chop the head off a fish *tuxcki-* skull *tux^wakt* dried halibut head

?u'ba' this far [N *?uma'*]

2u ba's $aq\lambda$ nice, friendly, kind, tame

?u'či'ba:d the most, best

?uksa'p urge, coax [N *?uk-sa'p*]

- *?ukwac-, ?ukwe'?iqsu* step child, parent [N *?uwac-, ?uwi'qsu*] *?ukwacdak*^w have a stepparent
- Pukyax-, Pukyaxbis news [N Puyaqh-, Puyaqhmis] Pukyaxbisał newspaper Pukyaxcu radio, television Pukyaxdak^w tell news, have news Pukyaxi ks messenger
- *?uk^wa-, ?u?u^{*}k^wax* oneself; one's own [N *?uk^wa-*] *?uk^wacxi* married to a relative *?uk^wi^{*}c* belong to *?uk^waki^{*}t* homemade *?uk^waki^{*}yukt* handmade (by self) *?u^{*}?u^{*}k^wasa^{*}txa* speaking one's own language

?upak^w numb in pain, infection [N *?up-*, *?upak*]

?upu'č rump, bottom (< C.J.)

?upu'l deaf

- *?u'q-* good, pleasant, happy [N *?u'-q-*] *?u'qubis* good, pleasant weather, atmosphere *?u'?u'qu'k* weather looks good *?u'q''aqλ* happy, pleased, pleasant feeling (said of a man) *?u'?u'qpadač* dating *?u'qsu'qλ* pleased, happy (said of a woman)
- *?urqtir* think or believe [N *?urqtarp*]
- *?usa'di* λ break up, separated (a couple)
- *?use'?it* place name (Ozette village)
- *?usi'duk^wida* relative
- *?usi'ti* trunk of body, torso [N *?usiti(q-)*]
- *?ust.-* locative root [N *?ust.-*] *?ust?as* earth, on the ground *?ust?a'* on the rocks (like a seal) *?ust?it* on the floor *?ust?is* on the beach
- *?u'šaxu:wid* child
- *?u'šbaqak^w* terrible (like huge waves on ocean), turbulent [N *?u'šmaqak*]
- *?u'ši?i:t* poison sb [N *?u'š?i't*]
- ?urš- someone, something [N ?urš] ?uršsiła accident ?ušurbis trouble ?ušurbisdak^w have a problem ?ušuryak^w useful, beneficial ?uršyar a chronic drunk ?uršabarċeyak^w word ?uršcuk difficult ?uršurċidarq talk about sth, discuss sth ?u?ušabarċaryik talkative ?u?uršċirqbap pay attention to ?u?uršqałx something wrong, at fault ?uršabarċu tell, talk ?uršpał looking admiringly at s.o. ?uršsurq¹ worried mind ?urštaqyu Indian doctor, spirit healing ?uršturp something
- 2u2ubaxi enough, to fit, just, right [N 2u2umhi] 2u2ubaxickida just right
- ?u?uč?i often
- *?u?u'k^wi:t* accusing, blaming sb *?u?u'k^wi'tši* accuse, blame sb
- *?u?ušcab* efficient worker [N *?u?u'šcim*]
- *?u?u'šťi:ła* fishing for halibut
- *?u?uyuksa* always
?u'wadit sometimes, at times

*?ux-, ?uxši*t chew *?uxu'?u'x^wa* chewing

?uxca?a: ?uxc that person

 $2u_{-}$, $2u_{xu}$ so and so, such and such; this, that one [N $2u_{-}$, $2u_{h}$] $2u_{2}ak\lambda i$ last, taking up the rear *?u?a*^{*i*} included with *?u?awa*^{λ} find *?u?a*^{*i*}*?ap* buy *?ubaqak* skillful *?ubu*^{*i*}*pši*^{λ} become *Puc?ak^w* going *Purcowat* side of a team *Puctart* descended from, belong to *Pucu* belong to *Pucxi* married to *Pučč?es* being close together outside (e.g. sitting, buried next to) *Pučč?i* sitting close together inside or on the floor *2učiću* in a container *2učipirt* standing by *2uču* ask for in prayer *?uk^wi'duk* with, together *?usevak* make *?usiwi'* die *?u?ucxad* doing something for sb else *?u?ukuk* look like *?u?utta* ahead, first *?u?utax* hunting (esp. whale), collecting $2u^2u^2ya^2p$ crying because of $2u^2ya^2a$ doing to; particularly, especially, namely $2u'bidevak^w$ sth used for repayment of a debt $2u'du'\lambda$ reason for, because of $2u'k^wi'$ making *2u*'subač ritually preparing for *2u*'2*uwat* kin, related to *2u*'2*uwatida* friend, relative *?u?udux* looking for *?u'wałuk* looking after, taking care of *?u'xawarł* use *?ucači* λ go to 2ucaqi'dak face a certain direction, direction facing towards $2ucaq\lambda$ going toward a given point, toward *lucki* part of, left over from *lucpa* on that side *lucat* especially *luccus* live together, cohabitate $2u\check{c}iq\lambda$ inside $2u\check{c}i^2aqst$ mixed with a group $2uda^2k^w$ have, own *Puktaqyu* spirit of an animal *Pukyuq* to ride on, in *Puk^wirtark* in fear of *Puk^wič* wear *Puq^wars* child of *2uquqta* one's name is *2uq2ot* see, find *2usuba* need, want *2uxsa* hungry for, want, crave a certain food *2uyawa*² going for at intervals *2u2adi* taking the place of *2u2idi*⁴ serving sth at a party 2u2ivit sleeping with 2u2iva resulting from 2u2utaxpat March *?u?urtaxsac* whaling canoe *?u?urtaxyak*^w whale hunting gear *?u?uryax* singing a song *Purbarcu* tell *Purbida* debt, owe *Purcxad* doing something for someone else *Purcak* cooking *Pu'cax* depend on *Pu'cis* laughing at *Pu'ktis* following directions, schedule, pattern *Pu'Pałak* longing for desiring $2u^2i\lambda$ go for, get $2u^2u^4$ expecting

wa interj. was it not so? right?

warł-, war say [N war-ł-, wawar war] warłsurqt attitude, thought, thinking to yourself (said of a woman) waryaqt attitude, thought, thinking to yourself (said of a man)

wa?ač place name (Waatch Village) *wa?ača'ty* Waatch people

wa?aq-, wa?aqap kelp perch

wa?aqsuba lower jaw

wa'bit left-over dinner

wačit-q-, wačida thin skin [N wačin] wačitqapix almond wačitqapi almond

wa'da interj. isn't that right?

wadi'q larynx, voicebox, adam's apple [N waniq-, wani'q]

wadiš skirt [N wanuš(.-)]

waha'*k*^w go [N *waha*'*k*(^w-)]

waks- on both sides or ends wakscaxtači^λ fork in river waksaqċaw both ends waksa's arms (both sides)

wakyaqšit have a miscarriage

- walax-, walaxši\u03c6 speak harshly, harsh sounding, angry voice wawalaqadi sound resembling a trill
- *wał-, wałśi* λ go home [N *wał.-, wałśi* λ] *wała yaqił* at home *wała yur* home *wała yaqida* left at home *wałxsa* homesick

wał-, wałuk weak in strengh

wałuq-, wałuqših bark (seal, dog, etc.) wa wa łuq wa barking [N wałyuq-, wałyuq wa]

wałxyiyuk light in weight

waλaq-, waλaqšiλ make a "u"-turn, zig-zag waλaqbeyił pacing back and forth wa·qa·?a:t bull kelp wa'qit frog [N wa?it-, wa'?it] wawa'qitaput lesser scaup duck, Nyroca affinis (Gunther 1936:

107) warqiter?is tadpole, polywog

- warsa (only with Content-Interrogative mood) where? [N wars(t)- warsa-, warsi] wars?atx live where? warscačit go where?
- wasaq-, wasaqši\u00fc cough wa'wa'saqa coughing [N \u00fcasaq-, \u00fcasaqa] wasaqsi\u0072i' cough medicine

warscorwat (only with Content-Interrogative mood) which one?

wa'sqeyu (only with Content-Interrogative mood) when?

wawaćaxkuk beans [N *wawaćaq-kuk*]

wa'wida hunt game in forest [N wa'win]

waxa'čaqak bruise

wax^w-, waxši^λ break wind [N wax^w-, wax^wa^r] waxa^rciⁱuⁱ bee, wasp, hornet

waxatut kelp fishing (to catch kelp fish with sea eggs)

wayyid wine (< Eng.)

we?ič asleep, sleeping we?ičiλ go to sleep [N we?ič] we?ičcarq sleeping and sleeping
we?ičqerqλ drowsy we?ičuwił bedroom we?ičar sleeping, lying on the rocks we?ičbis
moth we?ičił sleeping, lying in the house we?ičiλpaću fall asleep at once we?ičis sleeping,
lying on the beach we?ičkičida nightgown, pajamas we?ičkičideyak^w sleeping garment
we?iču·was hotel, motel we?ičyak^w mattress we?ičas sleeping, lying on the ground
we?ičik sleepy head

wi- insufficiently, incompletely [N wi-]

wiba not know a person

wiba'saqt disagreeable, unfriendly

wibat doesn't show, not known wibatap (with causative) not know

wivbivl durable, sturdy object

wirc?ak^w timid, hesitant *wircuk^wi* λ incep. [N *wircark*]

- wick-, wickši\u03c4 lift one's head up, back wickak^w have head up [N wick-, wickak wickar] wickeyukši\u03c4 raise head slightly
- wića'd dim light
- *wičaq-* having no sense, unwise, irresponsible *wičaqš?ibił* no sense, irresponsible (said of a woman) *wičaq́aq* λ no sense, irresponsible, unwise (said of a man)

wičaqał dull, blunt

wiči kiłta dull-pointed, blunt

wičq-, wičqak^w clear, bare, bald; a clearing [N ŵi- ŵičx-, ŵi?ak ŵičxak] wičqa·pł bald
wičqqi^v bald on top

wi'čuk slow vessel

wita-, wi'da raid, war, fight, wage war [N wita-, wi'na] witaksac war canoe

wi'dač fear, be afraid wiwi'dačik coward

widi's steady canoe [N *wins*(.-)]

wi?iba angry (said of a woman) [N wi?um] wi?ibaq\u03c6u4 having a mad face (said of a man)
wi?ibaq\u03c6ik gets mad quick (said of a man) wi?ibaqu4 having a mad face (said of a woman)
wi?ibaq\u03c6 angy, mad, unafraid, fearless (said of a man)

wikaxuł barren, childless, sterile

wiki[,] not, no, nothing wikeyači[,] incep. [N wik] wikca[,]s on the wrong side wikcuk easy wiki[,] pi[,]č not having a spouse, unmarried, bachelor wiki[,] batak probably won't wiki[,] ba[,] 2a[,] not intending to wiki[,] cu[,] empty (box, etc.) wiki[,] qat[,] pretending to not wiki[,] yak[,] good for nothing wiki[,] 2a[,] unaware wiksi[,] for nothing to happen wikstu[,] p nothing, good for nothing, worthless wiksuba not want wiktaqši[,] didn't before going wiku[,] empty, no one in room wikaq[,] i[,] empty house (no people) wika[,] s empty canoe, having caught no fish wika[,] p doesn't hear or understand, deaf wiki[,] not wearing wiwi[,]kc[,] gbap ignore wi[,] ku[,] expecting

nothing, nobody; August *wirkabarću* talking about nothing *wikał* not go along, stay behind, not included *wikarł* not, nothing on fabric or paper *wikałća* nothing on the wall *wikcači* $\hat{\lambda}$ go to the wrong place, make a mistake *wikił* not at home *wikirbaqak* awkward, unskilled *wikirtark* brave *wikiyar* not give *wikkarł* nothing missing *wik?oł* not perceive *wiksaq* $\hat{\lambda}$ no underwear *wirksaryuk* wearing nothing on the head *wiksarcu* in the wrong place *wiksturpił* bare (floor) *wirkalux* work for nothing, work without pay, volunteer *wikirt* absent, no, none *wiwirkċił* bare feet *wirkirbirk* catches nothing, unlucky *wirkirċidaq* not much talking, visiting

wiki^{ba} unwilling to give

wiki'ćaxak^w stormy weather

wikwi'ya:k^w boy

wiłaq λ reluctant, unwilling wiwi'łaq λ x lazy

 $wi\lambda aq$ -, $wi\lambda aq si\lambda$ (fire, light) goes out, becomes extinguished $wi\lambda aq bap$ spruce tree

wipax- annoyed by, weary (of) wipaxšit make a nuisance, annoyance of oneself [N wipax-]

wipaxbis nuisance *wiwipa'waq*λ drowsy

wipxu' feeble, slow

wirq- angry, unpleasant; stormy, bad (weather) [N *wir-q-*] *wirqibis* bad weather, unpleasant atmosphere (e.g. at a party) *wirqpat* November

wiqał unlucky in fishing

wirqsir windy weather, wind wirqsirpat March

wiqat stingy, greedy (said of a male)

wiģis bad, dirty wiģeyačit incep. wiģisačakt stormy, rough water wiģisał dirty fabric
wiģisaqsił foul mouth wiģisatuk cursing swearing, talking dirty wiģisbis bad things
wiģiscitqak^w dirty colored wiwiģiskuk ugly looking wiwiģiyił dirty house wirģispa not
good wiģisas dirty surface wiģi yakti dirty end

wisići:x head cold

- *wisti'qa-, wisti'qači* λ get dark *wisti'q*? ak^w dark, darkness *wisti'q*? $aq\lambda as$ shady spot, in the shade
- wiš.-, wiššiλ deflate, become flat wišak^w deflated, flat [N wišk-, wiškak] wišapł collapsed, flat (balloon, sealskin float) wiši'?iłta flat nose

witapat no luck, always unlucky

wiwibax insufficient, not fit

wi'ya never [N *wi'-ya*]

wiyik stingy, greedy (said of a woman)

wiyi'wix miss, lonesome for

- *wi'yu* three *wi'yucxi* have three wives *wi'yuciq* three long objects *wi'yu'q* sixty *wi'yuceyat* three days; Wednesday *wi'yu's* three residents
- *xač-*, *xača'* apart, separate, separate out [N *xača-*, *xača'*; *xač-*, *xačšiλ*] *xačxtačiλ* separate from a group

xad?ak^w woman

xut-, *xutaqsi* λ drink *xutac* water container, bucket *xutču⁻* had a few drinks *xu⁻tik* alcoholic *xutiks* lead by the hand [N *kuta-*]

xuwic-, xuwicšià get drunk [N xu'c-, xu'ca'] xuxuwicc?ak^w staggering

 $x^{w}ac$ -, $x^{w}a^{v}cx^{w}a^{v}ca$ crumbling $x^{w}acak^{w}$ crumbled [N *xic*-, *xicak*] $x^{w}acaqsi$ crumbs on the mouth $x^{w}a^{v}cka\check{c}i\lambda$ crumbling apart

 $x^{w}ak$ -, $x^{w}ak$ si λ swell $x^{w}akuk$ swollen [N $x^{w}ak$ -, $x^{w}akak$] $x^{w}akas$ hill $x^{w}akuk$ swollen face

xa- sufficient, complete, entirely [N ha-] xa'qadiqadi the sound of noise xa'qadi'yak^w bull roarer xa'qadi loud, noise xe?i'ksči^λ eat up all the food

xa?ałapix steamer clams, little neck clams

xa·ba-, xa·b?ak^w sleep overnight, stay overnight [N hama, hamuk^wi\lambda] xa·bak^wał gone (over night), overnight trip xa·b?atx staying overnight

xabaqšit dodge, evade [N himq-, himqa']

xabup know, recognize (a person) [N *ham-up*] *xabupi yił* know, recognize a voice *xabupida* famous

 $xa^{c}ca^{-}, xa^{c}c^{2}ak^{w}$ bold, unafraid $xa^{c}cuk^{w}i\lambda$ incep. [N $ha^{c}ca^{k}$] $xa^{c}xac^{2}ik$ nervy person $xa^{c}ca^{d}$ bright light

xačatših exhausted, used up [N hačat-, hačatak]

xači' deep down [N *hači'*] *xači'k^widukst* canyon *xači'qs* deep soup bowl

xačł-, xačła widowed, divorced xačłeyači tincep. [N xačł.-, xačła]

xačupsi:qsu brother of a female [N *hačic-*, *hačimsiqsu*]

xadi cuq wa eloquent, speaking fluently, fluent in a language

xadu's enthusiastic

xaku'ba chief's wife, upper-class woman [N *hakum*]

xalawi-q-, xalawu?u: Dungeness crab *xalawiqbap* plant sp.

xala'x lizard

 $xa\lambda ux$ -, $xa\lambda ux si\lambda xa xa \lambda ux^w a$ shiny

xaXuxkatšiX flash of silver

xapux-, *xapuxši* relax, enjoy oneself *xa puxpadač* relax from work, take a walk

xaspu'x-, xaspu'x^wak^w bright (color) [N has.- hastk-, has hastkak]

xasu ba allow, let

xaš-, xaša'bis bone [N *xaš(.-)]xašck^wi'* skeleton *xaši'yił* bone in the throat *xašpał* time of severe famine *xaxaši'da* rock cod, turtle *xaxaškuk* crackers

xat- (to) oil hair [N hat-, hata'] xata'pt oiled hair xatču' oiled hair

xatix anxious, eager

xatap-, xatapat always having good luck (esp. lucky in love) *xatapsi?i* love potion *xaxad?at* extremely, very [N *hahana?a**]

xaxadi p bold, extreme, too much

xaxapxta advice, advising [N *haphti-q- haphti'-q-, haphti'; ha'hu'p-, ha'hu'pa*] *xaxapxteyak*^w advisor

xaya^{*} far distance [N *saya*- *saya*^{*}-, *saya*^{*}] *xaya*^{*}*qa*^{*}*tuk* loud noise, loud-voiced person *xaya*^{*}*ca*^{*}*tu* far out at sea

xa'ya'ča high [N *saya'ča*]

xe?i λ *cey* even so, including, and even

- xi-, xi'?uk crawling [N hi-, hiya' hi?ak] xibeyił crawling on the floor xiktu'p animal xixibi?i's car xibu's climbing xi'?a'pi stooped
- xicbu-q-, xi'cbu?u: herring eggs [N si'hmu-q-, si'hmu'] xixicbuqkuk goat's beard plant

xixicbuqxsa flower part of goat's-beard plant

xi?ida northwestern mountain lion, Feles oregonensis (Gunther 1936: 115)

xik^watši^λ bend over

xišuk trash [N *xiš.-, xišuk*]

*xišk^wi'?at*x Hesquiat Tribe [N *hišk^wi'*]

xi'xi'?it licorice fern

xu' that

xu-, xuči λ bail, pump water *xu* λ *xu'ya* bailing [N *hu-, huya'*] *xučak^w* canoe bailer, water pump *xu'biťadi* snoring [N *hupt-, hupta'*]

xuda' xude' that one there

xuluwa:bac jellyfish [N *xunxun-wi(-q-)*]

xuł-, xułak^w slimy [N xuł.-, xułk-, xuła^v xułka^v] xułapix sole fish xułu^vbis nasal mucous xuxu^vłduk slimy hands xuq- hollow object inverted against a surface $xuqsi\lambda$ capsize [N huq-, huq^war] xuqis (canoe) upside down on the beach xuqarcakt tipped over on ocean xuqurba mask

xut-, xutšit splash xu'txu'ta splashing [N hut-, huta'] xutaxsit splash into a vessel

xu?u-, xu?uk^wi\u03c6 respond, answer, do in turn, retaliate; exchange [N \u03c6a?u- \u03c6a?u-] xu?uqawi\u03c6 change masks xu?uk^wi\u03c6i\u03c6 change clothes xu?uya^v trade, exchange

 $xuyaq\lambda$ sliver $xuyaqsti\lambda$ get a sliver $xuyaq\lambda tup$ (a) skewer

 $x^{w}ades$ sound heard but not seen, thing makes a sound

 $x^{w}ayx^{w}a'y$ Salish mask dance

ya'-, ya'?ak^w be hurt, sore; longing for [N ya'- ya'k^w-, ya'?ak] ya'?adił sore neck ya'wadi backache ye'?iłta sore nose ye'?i'yił sore throat ya'ksu'q^λ sad, sorrow, sadness, sorry yaba't resent yaba'tsuq^λ jealous, nasty feeling

ya bis love

yac-, yacšiλ step, take a step [N yac-, yaca'; ya'c-, ya'cuk] yacaċisyak^w stirrup yaca's having one's foot flat on a horizontal surface (e.g. rock, table, chair) yaccpa' stepping over sth yaci'?as having one's foot flat on the ground yaci'?ił having one's foot flat on the floor yayacisyak^w leg ya'ciλ take a step forward

yacatšiλ take a step

yack-, yackši² kick, push with foot [N yack-, yacka'] yackałća kick the wall

ya'ca'd bright sunshine, clear day ya'ca'deyači tincep.

yača?a: dogfish [N yač-, yača']

yačqapł wrapped bundle

ya'da'k having an ache, being sick [N *yanu-*, *ya'na'k*]

ya'daq-, ya'daqak^w baby, child [N naýaq-, naýaqak] ya'daqi'c belonging to a baby ya'daqspati' cradle ya'daqte'?it doll

yadi'- soon, right away, at once; early [N ča'ni?] ya'yadi'pi too early, premature

yał (only with Relative mood) where, place at which

- yard yonder; interj. here (handing sth to sb) [N yard]
- yaq^w-, yaqa' (only with Relative mood) he who, that which [N yaq(^w-)] yaqcxi spouse
 - *yaqcx?ida* spouse (when speaking about one) *yaq^wa·bida* what one owes *yaqtaqyu* guardian spirit *ya·yaqwat* friend
- yas-, yasši¹/_x spread one's legs yasa' have spread legs [N yas-, yasak]
- yaša'ba-q-, yaša'bał hunting fur seal [N yašma-q- yašmi'-q-, ya'šmał] yaša'bałpał April yaša'baqac sealing canoe

yartyarta singing in one place [N yat-]

yaxsa'wi' meet going opposite directions

yaya'q λ hate, dislike yaya'q λ stat dislike or hate one another yaya'q λ ida not liked

yayaxa:d blue berries

ye'yił hurting ye'yiłšit get hurt

yubas sour, unpleasant smelling

yubaťa?a:p not know how to

yube'?iqsu brother-in-law of a male [N *ýimac-*, *ýimi'qsu*]

yurburk dense brush, growing densely

yubuł cannot, not able yubu' ?ił restless, sleepless night

yubu'piqak^w tangled rope

yuč-k-, yučkak^w narrow [N *ýučk-, ýučkak*] *yučka·dił* slim, thin length *yučku·ł* narrow face *yuyučwadi* ant; peanut *yuču·k^waxs* narrow (canoe, vessel) *yuyučpičas* slim ankles *yuyučskapił* pear

yuk^we'?iqsu half sister

yuk^wic-, yuk^wirqsu younger brother or junior line male cousin of a female [N *ýuk^wi-, ýuk^wirqsu*] *yuyu'k^wicdukuba* little finger *yuyu'k^wicćuba* little toe yuči tił narrow (board, rope)

*yurłu?iłat*x Ucluelet Tribe [N *yurłu?ił-?at*h]

yupaxsi?i: mischief

 $yu'q^wa'$ also, too [N $\dot{y}u'-q^wa'$]

yux lungs [N *yux*(^{*w*}-)]

yuxł-, yuxłšiλ blow away yu'xłuk floating; staggering, sick [N yuxł-, yuxła⁻] yu'xłapi floating on air, blowing around

yuxta' prepare for departure [N yuxt-, yuxta']

yu'-, yu' $x^{wi'}$ even, equal, alike, same [N $yu'-q^{w}a'$] yu'yu'kuk look alike, twin yu' $xtaci\lambda$ divide in half

yu'yu morning yu'yu'yu'č get up early yu'yupadač walking around early

yu'yu' for a while

yuyu'b omen, taboo

yuyubax wrong

yuyub?iy stupid

yuyu'qsi's north, north wind [N *yu-*, *yu?i*]

References

Anderson, Stephen R. 1985. Typological distinctions in word formation. In Shopen, vol. 3, 3-56.

- Andrade, Manuel J. 1933. Quileute. Handbook of American Indian Languages, vol. 3, ed. by Franz Boas, 151-292. New York: Columbia University Press.
- Arima, Eugene and John Dewhirst. 1990. Nootkans of Vancouver Island. In Suttles, 391-411.
- Boas, Franz. 1947. Kwakiutl grammar, with a glossary of the suffixes. Transactions of the American Philosophical Society 37(3).201-377.

Comrie, Bernard. 1976. Aspect. Cambridge: Cambridge University Press.

— and Sandra A. Thompson. 1985. Lexical nominalization. In Shopen, vol. 3, 349-98.

- Davidson, Matthew. 1999. Southern Wakashan locative suffixes: A challenge to proposed universals of closed-class spatial meaning. Paper presented at the Sixth International Cognitive Linguistics Association Conference.
- DeLancey, Scott. 1997. Mirativity: The grammatical marking of unexpected information. Linguistic Typology 1.33-52.
- Drucker, Philip. 1951. The Northern and Central Nootkan tribes. Washington: Bureau of American Ethnology Bulletin 144.
- Dryer, Matthew S. 1986. Primary objects, secondary objects, and antidative. Language 62.808-845.
- to appear. Clause types. Language typology and syntactic description, Second edition, ed.
 by Timothy Shopen.
- Emanatian, Michele. 1986. The Nootka passive revisited. In honor of Mary Haas, ed. by William Shipley, 265-91. Berlin: Mouton de Gruyter.
- Fortescue, M.D. 1980. Affix ordering in West Greenlandic derivational processes. International Journal of American Linguistics 46.259-78.

- . 1994. Morphology, polysynthetic. The encyclopedia of language and linguistics, vol. 5, ed. by R.E. Asher, 2600-602. Oxford: Pergamon Press.
- Gill, Steven J., and Ann M. Renker. 1985. Makah botanical nomenclature: An analysis of taxonomy and meaning. Paper presented to the Twentieth International Conference on Salish and Neighbouring Languages.
- Goddard, Ives (ed.) 1996. Handbook of North American Indians, vol. 17: Languages. Washington: Smithsonian Institution.
- Greenberg, Joseph H. 1954. A quantitative approach to the morphological typology of language.Method and perspective in anthropology: Papers in honor of Wilson D. Wallis, ed. by RobertF. Spencer, 192-220. Minneapolis: University of Minnesota Press.
- ——. 2000. Numeral. Morphology: An international handbook on inflection and wordformation, vol. 1, ed. by Geert Booij, Christian Lehmann, and Joachim Mugdan, 770-83. Berlin: Walter de Gruyter.
- Gunther, Erna. 1936. A preliminary report on the zoological knowledge of the Makah. Essays in anthropology presented to A.L. Kroeber, ed. by Robert Lowie, 105-18. Berkeley: University of California Press.
- ——. 1945. Ethnobotany of Western Washington. University of Washington Publications in Anthropology 10(1):1-62.
- Haas, Mary R. 1969. Internal reconstruction of the Nootka-Nitinat pronominal suffixes. International Journal of American Linguistics 35.108-24.
- ——. 1972. The structure of stems and roots in Nootka-Nitinat. International Journal of American Linguistics 38.83-92.
- Hess, Thom. 1990. A note on Nitinaht numerals. International Journal of American Linguistics 56.427-31.
- Jacobsen, William H., Jr. 1968. Traces of glottalized resonants in Makah. Paper presented to the Linguistic Society of America.

- ——. 1969a. Origin of the Nootka pharyngeals. International Journal of American Linguistics 35.125-53.
- ——. 1969b. Labialization in Nootkan. Paper presented to the Fourth International Conference on Salish Languages.
- ——. 1971. Makah vowel insertion and loss. Paper presented to the Sixth International Conference on Salish Languages.
- ——. 1973. The pattern of Makah pronouns. Paper presented to the Eighth International Conference on Salish Languages.
- ——. 1979a. Noun and verb in Nootkan. The Victoria Conference on Northwestern languages (British Columbia Provincial Museum Heritage Record, No. 4), ed. by Barbara S. Efrat, 83-155. Victoria: British Columbia Provincial Museum.
- ——. 1979b. First lessons in Makah. Neah Bay, Washington: Makah Cultural and Research Center.
- ——. 1979c. Wakashan comparative studies. The languages of Native North America: Historical and comparative assessment, ed. by Lyle Campbell and Marianne Mithun, 766-91. Austin: University of Texas Press.
- . 1980. Metaphors in Makah neologisms. Proceedings of the Berkeley Linguistics Society
 6.166-79.
- ——. 1986. The heterogeneity of evidentials in Makah. Evidentiality: The linguistic coding of epistemology, ed. by Chafe, Wallace L. and Johanna Nichols, 3-28. Norwood, NJ: Ablex.
- ——. 1993. Subordination and cosubordination in Nootka: Clause combining in a polysynthetic verb-initial language. Advances in role and reference grammar, ed. by Robert D. Van Valin, Jr., 235-74. Amsterdam: John Benjamins.
- ——. 1994. Nootkan vocative vocalism and its implications. Sound symbolism, ed. by Leanne Hinton, Johanna Nichols, and John J. Ohala, 23-39. Cambridge: Cambridge University Press.

- ——. 1996. 'Hardening' and 'softening' in Makah. Paper presented to the Thirty-First International Conference on Salish and Neighbouring Languages.
- ——. 1997a. Makah ablaut and reduplication patterns. Paper presented to the Thirty-Second International Conference on Salish and Neighbouring Languages.
- ——. 1997b. Mary R. Haas's contributions to Wakashan linguistics. Anthropological Linguistics 39.569-77.
- ——. 1998a. Shortening in Makah ablaut. Paper presented to the Thirty-Third International Conference on Salish and Neighbouring Languages.
- ——. 1998b. The earliest Makah vocabulary. Paper presented to the Annual Meeting of the Society for the Study of the Indigenous Languages of the Americas.
- ——. 1998c. Makah labialization dissimilation. Paper presented to the Grammar and Typology session, Thirty-Seventh Conference on American Indian Languages, American Anthopological Association.
- ——. 1999a. The Makah velar increment. Paper presented to the Thirty-Fourth International Conference on Salish and Neighbouring Languages.
- ——. 1999b. First lessons in Makah, revised edition. Neah Bay, Washington: Makah Cultural and Research Center.
- ——. 2000. Makah incremental -*k*-: insertion or deletion? Paper presented to the Annual Meeting of the Society for the Study of the Indigenous Languages of the Americas.
- Jacobson, Steven A. 1984. Yup'ik Eskimo dictionary. Fairbanks: Alaska Native Language Center.
- Joos, Martin (ed.) 1957. Readings in linguistics I: The development of descriptive linguistics in America 1925-56. Chicago: The University of Chicago Press.

Kenstowicz, Michael. 1994. Phonology in generative grammar. Cambridge, Mass.: Blackwell.

Klein, Wolfgang. 1995. A time-relational analysis of Russian aspect. Language 71.669-95.

- Klokeid, Terry J. 1975. Abstractness and 'variable vowels' in Tseshaht. Paper presented to the annual meeting, Canadian Linguistic Association. Cited in Jacobsen (1979a).
- ——. 1976. Encliticization in Nitinaht. Paper presented to the Eleventh International Conference on Salish Languages.
- ———. 1977. Some irrelevant observations concerning rule interaction. Journal of Linguistics 13.283-85.
- ——. 1978. Surface structure constraints and Nitinaht enclitics. Linguistic studies of Native Canada, ed. by Eung-Do Cook and Jonathan Kaye, 157-76. Vancouver: University of British Columbia Press.
- . 1996. The psychological reality of the phoneme: The enduring legacy of Edward Sapir.
 Bulletin of the Edward Sapir Society of Japan 10.45-52.
- Lincoln, Neville and John Rath. 1980. Northern Wakashan comparative root list. National Museum of Man, Mercury Series, No. 68, Canadian Ethnology Service.
- Lucy, John A. 1994. The role of semantic value in lexical comparison: Motion and position roots in Yucatec Maya. Linguistics 32.623-56.

Lyons, John. 1977. Semantics, 2 vols. Cambridge: Cambridge University Press.

- Makah Cultural and Research Center. 1989. Traditional Cultural Property Study. Manuscript on file at Makah Cultural and Research Center, Neah Bay, Washington.
- Mandelbaum, David G. (ed.) 1949. Selected writings of Edward Sapir in language, culture, and personality. Berkeley: University of California Press.
- McCawley, James D. 1967. Sapir's phonologic representation. International Journal of American Linguistics 33.106-11.

Mithun, Marianne. 1984. The evolution of noun incorporation. Language 60.847-94.

Miyaoka, Osahito. 1996. Sketch of Central Alaskan Yupik, an Eskimoan language. In Goddard, 325-63.

- Nakayama, Toshihide. 1997a. Discourse-pragmatic dynamism in Nuu-chah-nulth (Nootka) morphosyntax. Ph.D. dissertation, University of California, Santa Barbara.
- ——. 1997b. Functions of the Nootka (Nuu-chah-nulth) "passive" suffix. International Journal of American Linguistics 63.412-31.
- Pullum, Geoffrey K. and William A. Ladusaw. 1986. Phonetic symbol guide. Chicago: The University of Chicago Press.
- Renker, Ann M. 1987. Rethinking noun and verb: An investigation of AUX in a Southern Wakashan language. Ph.D. dissertation, The American University.
- and Erna Gunther. 1990. Makah. In Suttles, 422-30.
- Rose, Suzanne Marie. 1976. Lenition and glottalization in Nootka. M.A. thesis, University of Victoria.
- ——. 1981. Kyuquot grammar. Ph.D. dissertation, University of Victoria.
- ——. and Barry F. Carlson. 1984. The Nootka-Nitinaht passive. Anthropological Linguistics 26.1-12.
- Sapir, Edward. 1911a. Some aspects of Nootka language and culture. American Anthropologist 13.15-28.
- ——. 1911b. The problem of noun incorporation in American languages. American Anthropologist 13.250-82.
- ——. 1912. Language and environment. American Anthropologist 14.226-42. Reprinted in Mandelbaum, 89-103.
- ——. 1915. Abnormal types of speech in Nootka. Canada Department of Mines, Geological Survey, Memoir 62 (Anthropological Series No. 5). Ottawa: Government Printing Bureau. Reprinted in Mandelbaum, 179-96.
- ——. 1916. Time perspective in aboriginal American culture: A study in method. Canada Department of Mines, Geological Survey, Memoir 90 (Anthropological Series No. 13). Ottawa: Government Printing Bureau. Reprinted in Mandelbaum, 389-462.

- . 1921. Language: An introduction to the study of speech. New York: Harcourt Brace.
- ——. 1924. The rival whalers, a Nitinat story (Nootka text with translation and grammatical analysis). International Journal of American Linguistics 3.76-102.
- ——. 1925. Sound patterns in language. Language 1.37-51. Reprinted in Joos, 19-25.
- ——. 1929. Nootka baby words. International Journal of American Linguistics 5.118-19.
- 1933. La réalité psychologique des phonèmes. Journal de Psychologie Normale et
 Pathologique 30.247-265. Reprinted (in English translation) in Mandelbaum, 46-60.
- ——. 1938. Glottalized continuants in Navaho, Nootka, and Kwakiutl (with a note on Indo-European). Language 14.248-274. Reprinted in Mandelbaum, 225-50.
- Sapir, Edward and Morris Swadesh. 1939. Nootka texts: Tales and ethnological narratives, with grammatical notes and lexical materials. Philadelphia: Linguistic Society of America.
- and . 1955. Native accounts of Nootka ethnography. Publications of the Indiana University Research Center in Anthropology, Folklore, and Linguistics 1 (International Journal of American Linguistics 21(4), pt. 2).
- Smith, Carlota S. 1996. Aspectual categories in Navaho. International Journal of American Linguistics 62.227-63.
- Shopen, Timothy (ed.) 1985. Language typology and syntactic description, 3 vols. Cambridge: Cambridge University Press.
- Spencer, Andrew. 1991. Morphological theory. Oxford: Blackwell.
- Stonham, John T. 1994a. Combinatorial morphology. Amsterdam: John Benjamins.
- ——. 1994b. All moras are not created equal. Cahiers linguistiques d'Ottawa 21.1-25.
- ——. 1999. Noun collocations in Nootka. Paper presented to the Thirty-Fourth International Conference on Salish and Neighbouring Languages.
- Suttles, Wayne (ed.) 1990. Handbook of North American Indians, vol. 7, Northwest Coast. Washington: Smithsonian Institution.
- Swadesh, Morris. 1931. The Nootka aspect system. M.A. thesis, University of Chicago.

- -----. 1933. The internal economy of the Nootka word. Ph.D. dissertation, Yale University.
- ——. 1934. The phonemic principle. Language 10.117-129. Reprinted in Joos, 32-37.
- ——. 1939. Nootka internal syntax. International Journal of American Linguistics 9.77-102.
- ——. 1948a. A structural trend in Nootka. Word 4.106-119.
- ——. 1948b. Review of Boas (1947). Word 4.58-63.
- Swadesh, Mary Haas and Morris Swadesh. 1933. A visit to the other world, A Nitinat text (with translation and grammatical analysis). International Journal of American Linguistics 7.195-208.
- Talmy, Leonard. 1985. Lexicalization patterns: Semantic structure in lexical forms. In Shopen, vol. 3, 57-149.
- -----. 2000. Toward a cognitive semantics, 2 vols. Cambridge, Mass.: MIT Press.
- Thompson, Laurence C. and M. Dale Kinkade. 1990. Languages. In Suttles, 30-51.
- Thompson, Laurence C., Thompson, M. Terry, and Steven M. Egesdal. 1996. Sketch of Thompson, a Salishan language. In Goddard, 609-643.
- Touchie, Bernice. 1997. Nitinaht. Northwest Coast Texts, ed. by Barry F. Carlson, 69-97. International Journal of American Linguistics Native American Texts Series 2(3).
- van Eijk, Jan. 1997. The Lillooet language: Phonology, morphology, syntax. Vancouver: UBC Press
- Waterman, T.T. 1920. The whaling equipment of the Makah Indians. University of Washington Publications in Anthropology 1(1).
- Whistler, Kenneth W. 1985. Focus, perspective, and inverse person marking in Nootkan. Grammar inside and outside the clause, ed. by Johanna Nichols and Anthony C. Woodbury, 227-65. Cambridge: Cambridge University Press.
- Wilson, Stephen A. 1986. Metrical structure in Wakashan phonology. Proceedings of the Berkeley Linguistics Society 12.283-91.