

THE SQUAMISH LANGUAGE

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THE SQUAMISH LANGUAGE

GRAMMAR, TEXTS, DICTIONARY

by

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UNIVERSITY OF LEIDEN



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To

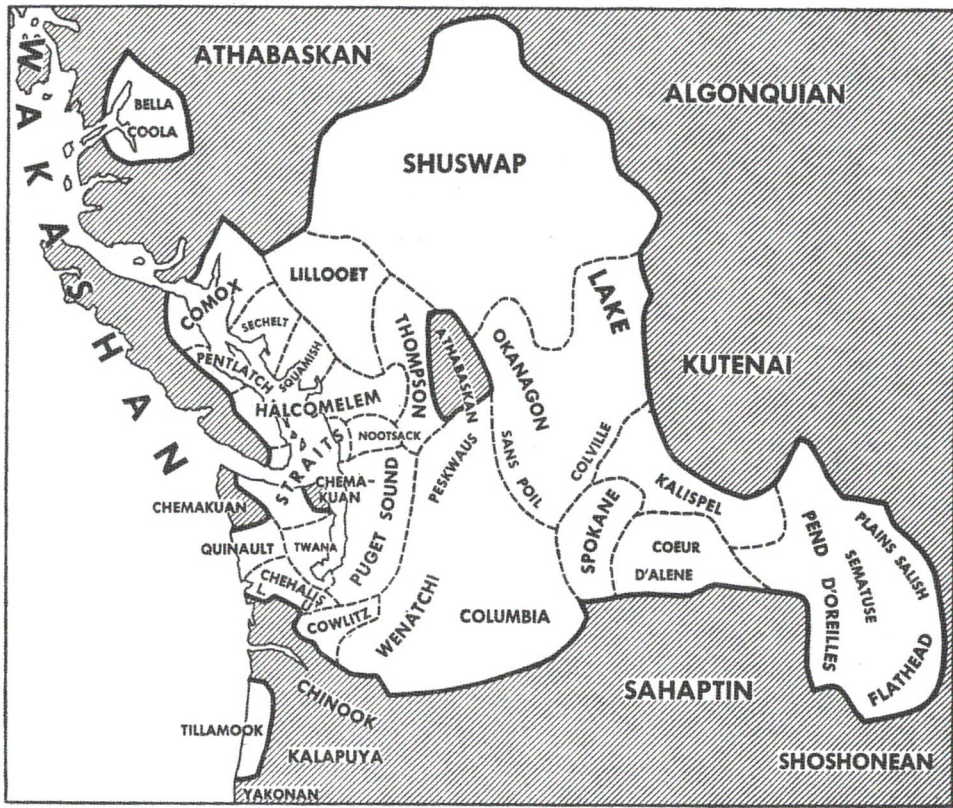
LOUIS MIRANDA

and to the memory of

ISAAC JACOB

and

ALEC PETER



MAP OF THE SALISH LANGUAGE AREA

PREFACE

The Squamish tribe, a subdivision of the Coast Salish stock of North America, at one time inhabited the area around Howe Sound and along the banks of the lower Squamish River and Cheakamus Creek in southern British Columbia. More recently they spread to the shores of English Bay, False Creek and Burrard Inlet as far as Seymour Creek on the northern and Coal Harbour on the southern bank.¹ Their neighbors were the Sechelt in the west, the Lillooet in the north and northeast, and Halcomelem-speaking tribes in the south and southeast. Their first contact with white men occurred in the summer of 1792 when Captain Vancouver sailed into English Bay and Howe Sound, an event still retained by popular memory (see text IV). Early white settlers estimated the number of the Squamish at several thousands.² The tribe was decimated by a succession of smallpox epidemics, and was reduced to a few hundred at the end of the 19th century. Though since then the population has increased,³ the language is now close to extinction: it is spoken only by older people (number unknown) most of whom are living in the Vancouver area.

A classification of the Salish languages was made by Swadesh on the basis of a lexicostatistical analysis of comparative vocabularies in the Boas Collection of the American Philosophical Society.⁴ This classification, which progresses from Divisions to Branches, Groups and Languages, is quoted below with some changes and additions. A few alternative designations are given in parentheses. Where Swadesh's groups encompass more than one language, his group-names may cause confusion, being identical with group-member names. In these cases they are replaced by other names where such have been proposed; otherwise they are left out and the group is identified by an Arabic numeral only. In some groups a number of language-names have been added for practical reasons, and the languages within each group are listed without further bracketing. In the case of the Halcomelem (II B2) as well

¹ Hill-Tout 1900:473-475; Barnett 1938:140.

² Hill-Tout 1900:473.

³ Verma 1954:11.

⁴ Swadesh 1950.

as of the Lkungen group (II B3) the members are mutually intelligible dialects of languages referred to with one and the same name by all speakers.⁵ This may be the case in one or more of the other groups too. For the geographical distribution of the languages see the map on p. 6.

I. Bella Coola

II. Coast Division

A. North Georgia Branch

- 1) Comox (Sliammon)
- 2) Sechelt (Sisiatl)
- 3) Pentlatch

B. South Georgia Branch

- 1) Squamish
- 2) Halcomelem: Nanaimo, Cowichan, Chemainus, Musqueam, Kwantlen, Katzie, Sumas, Chehalis, Chilliwack, Tait (the latter seven referred to as "Lower Fraser")
- 3) Lkungen (Straits): Clallam, Songish, Saanich, Semiahmoo, Lummi, Samish
- 4) Nootsack

C. Puget Sound Branch: Skagit, Duwamish, Snoqualmie, Snohomish, Nisqualli

D. Hood Canal Branch: Twana

E. Olympic Branch

- 1) Cowlitz, Upper Chehalis
- 2) Satsop
- 3) Lower Chehalis, Quinault

III. Oregon Division: Tillamook, Siletz

IV. Interior Division

- 1) Lillooet
- 2) Thompson, Shuswap
- 3) Okanagon, Colville, Sanpoil, Lake, Spokane, Kalispel, Pend d'Oreille, Flathead, Sematuse, Plains Salish
- 4) Wenatchi, Columbia, Peskwaus
- 5) Coeur d'Alene

Sapir hypothetically combined Salish with Chemakuan (Chemakum-Quileute) and Wakashan (Kwakiutl-Nootka) into a "Mosan" super-stock⁶ and suggested a rela-

⁵ Elmendorf-Suttles 1960:3.

⁶ The name is based on the numeral 'four', in many Salish languages *mus*, Chemakuan *maʔyas*, Wakashan (Kwakiutl) *mu*.

tionship of this stock to Kutenai and Algonquian.⁷ No thorough testing of these hypotheses is possible because of insufficient data.⁸

Of the Salish languages, only a few have received more or less extensive treatments (overall or partial) in recent times: *Halcomelem* (Elmendorf-Suttles 1960: Vocabulary), *Snoqualmie-Duwamish* (Tweddell 1950: Phonology, Morphology), *Upper Chehalis* (Kinkade 1963-64: Phonology, Morphology), *Kalispel* (Vogt 1940: Grammar, Texts, Dictionary), *Coeur d'Alene* (Reichard 1938: Grammar; 1939: Stem-List). For others only sketchy and/or older data are available (see Bibliography).

A sketch of Squamish was published by Hill-Tout as part of an interesting ethnographical description.⁹ This material has to be used with caution because of an inadequate and inconsistent notation and various other defects. Nevertheless, it has not lost its value: Hill-Tout's word-list proved useful as a starting-point in obtaining lexical items, his phrases contain valuable syntactic material, and in individual cases his data make it possible to establish an older, fuller word-form than was recorded half a century later.

The material on which the present description is based was collected in the years 1951-54 and in the fall of 1956. — During the first of these periods I was on the staff of the Department of Slavonic Studies of the University of British Columbia in Vancouver. My informants were first Mr. Isaac Jacob (1883-1956): in the text referred to as "IJ" of Capilano Reserve, and later Mr. Alex Peters, known as "Alec Peter" (1881-1964; referred to as "AP") of Musqueam Reserve. Mr. Peters knew Musqueam besides Squamish. The working-sessions were held at the homes of the informants, and occasionally Mrs. Jacob and Mrs. Peters would make comments or volunteer information. During this period a fairly large number of words, short phrases and sentences were collected, and outlines of phonology and morphology were worked out. Much remained problematic; also, I was unable to obtain longer connected texts. — In the fall of 1956 I returned to Vancouver for a short period, in which I had the good fortune of being able to engage the services of Mr. Louis Miranda (born 1892; referred to as "LM") of Mission Indian Reserve. Mr. Miranda, an exceptionally alert informant, was of great assistance in checking and clearing up a number of difficult points. He was furthermore able to dictate texts, which in turn provided additional lexical and grammatical material. Translations and a rapid analysis of these texts were made while I could still dispose of Mr. Miranda's invaluable cooperation.

The material thus obtained was further analysed and classified after my return to Holland. To many questions which arose during the work answers could be found in the available corpus. In a few cases alternative solutions had to be given (the choice depending on Squamish forms not represented in the material). Some questions had to remain open. In such cases I have preferred stating the problem

⁷ See Swadesh 1953:28.

⁸ See Appendix, p. 401.

⁹ HillsTout 1900:495-518 section "Linguistics".

in detail to "streamlining" the description. The present book contains all the material of which I dispose; on matters that are not treated (e.g. sentence-intonation, the expression of ordinal numbers) data are lacking. The categorization of the material is based primarily on formal criteria. Except in trivial cases, all available examples of a given category are quoted (e.g. of a particular type of transitive verb or subordinate clause). In the Dictionary internal and external etymologies are given, the latter take into account only those languages for which more or less extensive word- or stem-lists are available (for details see p. 245f.). A number of uncertain comparisons are included (marked "Cf.?"); here additional data may show whether the question-mark or the comparison itself has to be dropped.

In the course of my work on Squamish I had the pleasure of incurring debts of gratitude to several persons and institutions.

First of all I want to thank Wayne Suttles, who introduced me both to Salish linguistics and to all three of my informants. In the difficult initial stages of the work it was a great advantage to be able to discuss problems with a fellow-linguist interested in the same field. I have also greatly profited from Wayne Suttles' expert ethnographical knowledge of the Coast Salish.

I gratefully acknowledge the help and encouragement given to me by Harry B. Hawthorn. Thanks are also due to the Canadian Social Science Research Council, which, through the good offices of Harry Hawthorn, defrayed my expenses for travel and informant-fees.

I thank Mrs. Ingeborg Houwen-van Driel, Miss Vera Litwinzeff and Miss Sietske Visser for their conscientious assistance in the preparation of the various drafts of the manuscript. I am indebted to the Board of Curators of the University of Leiden for providing secretarial help.

The greatest debt of all I owe to my informants. I dedicate this book to the memory of Isaac Jacob and Alec Peter, who patiently gave their best efforts in what to them was an unfamiliar and difficult job, and to Louis Miranda, whose alert and tireless assistance yielded so much both in material and in insight.

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SYMBOLS, ABBREVIATIONS, REFERENCES

A = full vowel (vowel other than /ə/)

AP See p. 9

C = consonant

C_i = non-uvular cons.

C_u = uvular cons.

C₁, C₂ = 1st, 2nd cons. of root

IJ See p. 9

K = plosive or fricative

LM See p. 9

N = nominal predicate

N_s = noun in absolutive case

O = direct object

ab. = about

act. = active

approx. = approximately

borr. fr. = borrowed from

caus. = causative

CdA. = Coeur d'Alene

Ch. = Chilliwack

cons. = consonant

Cw. = Cowichan

dimin. = diminutive

fem. = feminine

geogr. = geographical term

Halc. = Halcomelem

itr. = intransitive

Kal. = Kalispel

lge. = language

masc. = masculine

Ms. = Musqueam

[...] phonetic notation

/.../ phonemic notation

∅ zero element

R (Phonology:) = resonant

(Syntax:) = secondary relatum (complement other than S or O)

R₁ = initiator of action expressed by V_p

R_s = R other than R₁

S = subject

T = sentence-adjunct

V (Phonology:) = vowel

(Syntax:) = verb

V_i = intransitive verb

V_p = passive verb

V_t = transitive verb

obj. = object

orig. = original(ly)

pass. = passive

pers. = person

pl. = plural

poss. = possible, -ly

pref. = prefix

prob. = probable, -ly

rec. = recorded

red. = reduplication, -ted

refl. = reflexive

Sh. = Shuswap

Sq. = Squamish

subj. = subject

suff. = suffix

tr. = transitive

unstr. = unstressed

zool. = zoological term

* reconstructed form; form not recorded

† conjectured form

√ root (in phonemic notation)

Numbers in italics refer to sections. Roman numbers followed by Arabic ones in Roman type refer to texts and numbered sentences thereof. References to literature are made by name of author, year of publication and page (see Bibliography).

For the *alphabetic order* used in Grammar and Dictionary see p. 245.

PART ONE
PHONOLOGY

I

PHONEMIC DATA

1. *Phonemes*.— The Squamish sound-system (see chart on p. 22) comprises 29 consonants, 4 vowels, and a feature of glottalization (glottal stop).

The consonants (symbolized "C") are subdivided into 23 consonants proper (*Geräuschlaute*, symbolized "K") and 6 resonants ("sonants" for short, symbolized "R").

The vowels ("V") fall into 3 full vowels ("A") and a *schwa*.

The consonants proper fall into the following series as regards place of articulation: *labial* /p, pʰ/, *dental* /t, tʰ, c, cʰ, s/, *palatal* /ç, çʰ, š/, *lateral* /l, lʰ/, *velar* /k, kʰ, kʷ, kʷʰ, xʰ/ and *uvular* /q, qʰ, qʷ, qʷʰ, ʁ, ʁʰ/.

As for mode of articulation, the *fricatives* /s, š, xʰ, ʁ, ʁʰ/ are opposed to the *plosives* of the respective series. In the dental series, the *affricates* /c, cʰ/ are opposed to the *stops* /t, tʰ/. *Labialization* plays a role in the velar and uvular series, where /kʰ, kʷ, qʰ, qʷ, ʁʰ/ are opposed to plain consonants, while the velar fricative /xʰ/ lacks a plain counterpart. The plosives of all series, and also the laterals (where a distinction plos. – fric. is lacking), oppose glottalic members /pʰ, tʰ, cʰ, çʰ, lʰ, kʰ, kʷ, qʰ, qʷ/ to plain ones.

The sonants comprise labial and dental *nasals* /m, n/, a lateral *liquid* /l/ and laryngeal, labiovelar and palatal *glides* /h, ʉ, i/.

The vowel-system opposes *open* /a/ to *close front* /i/ and *back-rounded* /u/; in addition, there is a mid-central vowel /ə/. For a particular type of /i/ written /ī/ see 22, 62.

The consonants /k, kʰ/ (but not their labialized counterparts) are of markedly rare occurrence in the lexicon (cf. the lack of */x/ vs. the presence of /xʰ/).

It would be wrong to regard /pʰ, qʰ/, etc., as sequences */p + ʔ/, */q + ʔ + ʉ/, etc. In the first place, glottalic and labialized consonants are as frequent in the lexicon as plain ones (/kʰ, kʷ/ are many times more frequent than /k, kʰ/, while /cʰ/ is about twice as frequent as /c/). In the second place, in case of so-called partial reduplication (in general: C₁VC₂ → C₁V-C₁(V)C₂), the glottalic and labialized consonants are reduplicated as a whole. In the third place, such an analysis would entail quite arbitrary decisions as to the *order* of the elements of oral closure, glottalization and labialization: */qʰʉ, qʰʉʰ, ʉqʰ/, etc.

	CONSONANTS PROPER				RESONANTS			VOWELS		GLOTT.	
	FRONT		BACK		nas.	liqu.	glide		high		low
	Plos.	Fric.	Plos.	Fric.			high	low			
LONG MOUTH-RESONATOR	labials p p'		uvulars		m	l			u	ʔ (ʔ) ²	
			q° q'°	x°							q q'
DIVIDED MOUTH-RESONATOR	dentals t t' s		laterals		n				ə	a	
			k° k'°	x°							k k'
			palatals						i (i) ¹		
	c c'		ç ç'	š							

¹ Only in /iʔ/ (see 22, 62).
² Combination of /ʔ/ and /-/ (see below).

Other symbols:

/|/ Stress (written after stressed vowel: /a[|]/).
/./ Special type of juncture (see 3); combined with /-/ as /-./.
/⌋/ Connects clitics and full words (see 2).
/-/ Separates morphemes (no phonetic value); combined with /ʔ/ as /ʔ/ and with /./ as /-./.

Vowels do not occur initially; if no (con)sonant precedes them, they are pre-glottalized: /ʔa-, ʔu-, ʔi-, ʔə-/.

The vowel /u/ is much less frequent in the lexicon than the others. This is to a large extent due to the fact that the distinction between /u/ and /əu/ has been preserved better than that between /a/ and /əh/, /i/ and /əi/, see 14-19, 31-34.

Within the limits of the morpheme, the vowels /a, u, i/ cannot be directly opposed to the sonants /h, ɰ, j/ (see 76). Furthermore, the distinction of /a, u, i/ on the one hand and /əh, əɰ, əi/ on the other hand is precarious (see 14-19, 31-34). The presence or absence of /ə/ is to a large extent predictable if the morphological structure of a word is given (see 74). The presence vs. absence of /ʔ/ can distinguish free forms ending in a vowel or sonant, cf. /taiʔ/ 'that one' vs. /tai/ 'canoe-race', /lamʔ/ 'house' vs. /lam/ 'whiskey, liquor'; but morphemes of this type can lose or acquire /ʔ/ as a

result of morphological processes (see 67-73) and the relation of /ʔ/ to semantic content is not on a level with that of the other phonemes.

2. *Stress*.— There is a strong expiratory stress, written /' / after a vowel. Its position is not restricted to any particular part of a word, cf. /ʔa'jaɪʔ/ 'widow(er) of sibling' vs. /ʔaʊʔa'jɪʔ/ 'wooden spoon'; /λ'i'λ'isi/ 'have jaundice' vs. /sisili'ʊs/ 'get scared'.

A number of words regularly occur without stress; in transcription, these *clitics* are connected with each other and with the word with which they form a stress-unit by means of the symbol /_/, e.g. /čn_ʊa_ʔic'a'p/ 'I am (was) working'.

Longer words may have two stresses, e.g. /smə'q'a'ʔ/ 'crane' or may allow alternative stresses, e.g. /xi'cqn, xicqa'nʔ/ 'fell (a tree); tr.', or may be pronounced with one or two stresses, e.g. /k'a'ju'cmix'ɔn, k'a'ju'cmi'x'ɔn/ 'to murder' (the stress closest to the end of the word usually being the facultative one). A stress-shift towards a later syllable, or the occurrence of a second stress, are particularly common when a word is extended with suffixes, or is followed by a clitic: one says /si'laʔn/ or /si'laʔa'n/ 'buy; tr.', but normally /si'laʔa'n_čx'ɔ/ '(you) buy it!', cf. also /na_ʔa'ʊatas/ 'he helped him' vs. /na_ʔa'ʊatasʊit/ or /na_ʔa'ʊata'sʊit/ 'they helped him'.

Elements which normally occur as clitics can occasionally receive a stress. This is the case (a) in emphatic statements, e.g. /na_ʊa_ʔmʔu't/ 'he is at home' vs. /na'ʔ_ʊa_ʔmʔu't/ '(yes,) he is at home'; (b) when the clitic is provided with an adverbial suffix, e.g. /na_ʊa_ʔəsxi'c/ 'he is lying down' vs. /na'ʔ-x'ɔ_ʊa_ʔəsxi'c/ 'he is still /-x'ɔ/ lying down'; (c) facultatively in some cases where a clitic follows the word of which it is a satellite, e.g. /ha'ʔλ_čn/ or /ha'ʔλ_ča'n/ 'I am good' (these cases are probably of the same type as the facultative second stress in certain longer words, and I maintain the symbol /_ / here).

3. *Juncture*.— In those cases where two types of juncture are opposed to each other, the symbol /./ is employed to indicate the less frequent type. The cases in question are (a) syllabic vs. non-syllabic /./ contact between consonants, see 8, 39, 48, 52; (b) close vs. open /./ contact between consonants, see 46, or between a sonant and a following /ʔ/, see 28, 40. Reading rule: to /C.C/ there corresponds phonetically [CC], i.e. consonants are pronounced without intervening [ə] and without coalescing.

II

PHONETIC DATA

A. CONSONANTS

4. *Place of Articulation.*— The *labials* are bilabial. The *dental* closure is formed with the tongue-tip against the back of the front teeth, but with a larger area of the tongue touching the alveoles than is the case, for instance, in French, so that /n/ sounds slightly more palatal than French /n/, though it is closer to the latter than to French /ñ/. The *palatals* are closer to Russian “soft” /č/ than to “hard” /š, ž/. The *laterals* are bilateral; in /λ, λʲ/ the tongue is released approximately from the second molars on, and their acoustic effect is closer to “tl” than to “kl”. The sonant /l/ is in between the “mid” variety (as in Dutch) and the velarized type (as in English); it is most strongly velar after a vowel before cons. or at the end of a word, and least so in word-initial position. Of the *velars*, /k, kʲ/ are slightly more front than /k°, kʲ°, x°/; they are articulated at the same place as English /k/ in “cat”, while the labialized velars are farther back than Engl. /k/ in “cool”. The *uvulars* are quite close to the labialized velars, so that /q°, qʲ°, ɣ°/ are hard to distinguish from /k°, kʲ°, x°/, though there is no doubt that they constitute an independent series, cf. /q°əλ/ ‘drift ashore’ vs. /k°əλč/ ‘split open; itr.’, /tʲaʲq°an/ ‘cut, break; tr.’ vs. /tʲaʲk°an/ ‘dig; tr.’, /pəʲx°n/ ‘spit at; tr.’ vs. /spəx°/ ‘animal stomach, tripe’.

5. *Character of Plosives.*— The *dental* affricate /c/ differs from a sequence /ts/ by the shorter duration of its fricative element and by the lesser energy of its explosive component. The difference was observed only immediately before a stressed vowel: /ciʔ/ [ceʔ] ‘there is’ vs. /tsiʔ/ [tseʔ] ‘feel cold’, /scaʲmjas/ [scaʲmies] ‘Tuesday’ vs. /stsas/ [stsas] ‘poor’. In the sequence /tn/ the /t/ normally has a velic release [T], e.g. /λaʲčʲtn/ [λaʲčʲTɲ] ‘knife’. Of the other plosives, the *labials* are stops, the *palatals* are affricates, of the *laterals*, /λ/ varies from an affricate with a weak plosive element [ʎ] to a pure fricative [λ], whereas /λʲ/ is always an affricate (the two are transcribed [λ, λʲ] henceforth). The non-glottalic *velars* and *uvulars* are stops, while the glottalic ones are often affricated, especially before another consonant.

6. *Labialization.*— In the labialized consonants, the element of rounding is present during the whole articulation of the sound. It starts with the implosion (so that it

can affect a preceding vowel) and it persists after the release, where it is audible as a short *ɥ*-glide before vowels other than /u/. Before /u/ plain uvulars become automatically labialized.

7. *Laryngeal Articulation.*— The *non-glottalic* plosives are facultatively aspirated before stressed vowels. In the *glottalic* consonants, the oral and glottal releases are simultaneous. The *sonants* are phonetically voiced.

B. SONANTS

8. The sonants /m, n, l/ when preceded by a consonant are pronounced as syllabic [ɱ, ɳ, ɺ] or as [ə̃m, ə̃n, ə̃l] (instead of [ə] also [ɛ, æ, u, ə] depending on the preceding cons.), e.g. /tmta'm/ [tɱta'm], etc., 'when?', /tmi'x°/ [tɱe'x°] 'earth, ground', /qli'm/ [qle'm] 'weak'. Where the pronunciation is non-syllabic (i.e. primarily explosive), the symbol /./ is written before the sonant, e.g. /mu's.məs/ [m°'sməs] 'cow', /k°a'č.nəx°/ [k°a'čnəx°] 'to see; tr.'. Compare: /t'lma'ɺ̃/ [t'ələma'ɺ̃] 'wild cherry tree' and /st'l.mu'ɺ̃t/ [st'ələmo'ɺ̃t] 'old person'.

The sonant /h/ when preceded and not followed by a vowel is produced as a lengthening* (and facultatively opening) of a preceding /i/ or /u/ and as a lengthening and opening of a preceding /ə/ (after /a/ the sonant /h/ does not occur). In other words: the sequences /ih, uh, əh/ before cons. or at the end of a word are produced as long vowels [ɛ:, e:], [ə:, o:] and [a:]. In the case of /uh/ and /əh/ there may be a *schwa*-colored offglide [ʷ] before a consonant. Examples: /č'ihm/ [č'e:n, č'e:n] 'lift, raise; tr.', /puht/ [po:ʷt, pə:ʷt] 'blow; tr.', /c'əh/ [c'a:] 'be hit, bump', /səhc/ [sa:c] 'be left over'.

C. STRESSED VOWELS

9. The Squamish vowels — especially /ə/ — show more variation than the consonants, and they vary mainly in function of the latter. The following symbols are used for the different timbres (those in parentheses occur in unstressed syllables only):

	Front		Central		Back
	plain		plain	half-rounded	rounded
Low	a		ɑ		
L.-Mid	æ				
Mid	ɛ	ʌ	ö	ə	
H.-Mid	e	ɪ	(ə)	ø	o
High	(i)		(ü)		(u)

* Three degrees of vowel-length are rendered as follows: short (no indication), half-long [a:], long [a:].

10. Stressed /a/ is a somewhat front [aː], in between the vowels in German *ja* and French *pâte*: /man/ [maːn] 'father', /qaλʲ/ [qaːλʲ] 'clouds', /staq°/ [staːq°] 'water', /x°aj/ [x°aːj] 'be senseless'.

In the two words where /a/ occurs after /k/, it has a more palatal timbre [æː]: /kaɯ/ [kæːɯ] 'descend', /kat/ [kæt] 'ascend'. In both words, the vowel can be narrowed to [ɛ] and shortened: [kɛɯ, kɛt]; these must be regarded as phonemically alternative forms /kæɯ, kæt/. There are no other words with either /kaː-/ or /kæː-/; in /k'a'k'ltx/ [k'a'k'ɛltx] 'gamble' there is the usual [aː], different from /ə/ in /k'ə'x°aʔ/ [k'ɛ'x°aʔ] 'lacrosse'.

Before a final consonant-group, /a/ is shortened from its usual half-length: /naχč/ [naχč] 'hand', hard to distinguish from the vowel in /c'əxt/ [c'æxt] 'gravel beach'.

11. Stressed /u/ is pronounced [oː] as in German *Sohn*: /cut/ [coːt] 'say', /t'uk°°/ [t'oːk°°] 'go home', /nuq°/ [noːq°] 'noon', /q°ui/ [q°oːi] 'to die'. Occasionally one hears more open variants, but not regularly, e.g. in /lu'lum/ [loːlom, loːlom] 'sing' (where the medial [l] may be responsible). After /λ, λʲ/ the vowel /u/ varies with a diphthong, e.g. /λup/ [λoːp, λöɯp] 'be out of reach', /λus/ [λoːs, λöɯs] 'slide down'; there are intermediate variants with a diphthong [öo].

12. The main variants of stressed /i/ are a rather close [eː] as in German *Weh*, [ɛː] as in English *there* and [ɛi] as in Dutch *ei*. The variant [eː] can be a slightly diphthongal [eːi], approximately as in Dutch *zee*, especially at the end of a word and before dentals and palatals. The variant [ɛː] may have an open offglide [ɛʌ], in which case it closely resembles the vocalic part of British English *there*. The choice of variants depends on the surrounding consonants in terms of uvulars and non-initial /l/ (symbolized C_u) versus all others (symbolized C_t) as follows:

- (a) /C_tiC_t/ [eː]
- (b) /CiC_u/ [ɛː] (C = any cons.)
- (c) /C_uiC_t/ [ɛi]

Examples:

(a) /ti/ [teː] 'this', /ʔi/ [ʔeː] 'be here', /cix°/ [ceːx°] 'reach, get there; itr.', /čil/ [čeːl] 'top', /k°in/ [k°eːn] 'few'.

(b) /λʲiq/ [λʲɛːq, λʲɛʌq] 'arrive', /t'iq°/ [t'ɛːq°] 'cold', /ɯilq°°t/ [ɯɛːlq°°t] 'ask (a person); tr.', /q'i'xiʔ/ [q'ɛː'xiʔ] 'become black', /xiq/ [xɛːq] 'scratch; itr.', /x°iq°°/ [x°ɛːq°°] 'be arrested', /nq'i'lus/ [nɛq'ɛː'los] 'wise'.

(c) /q'it/ [q'ɛit] 'be morning', /xiʔ/ [xɛiʔ] 'get touched, nipped', /xi'c'im/ [xɛi'c'em] 'itch', /x°ali'tn/ [x°alɛi'tn] 'white man' (but cf. after initial /l-/: /lix°/ [leːx°] 'fall').

In a number of words diphthongal variants [ɛi] were recorded as alternatives of [eː], e.g. in /pi'čm/ [peː'čm, peɪ'čm] 'to spark', /čišk°/ [čeːšk°, čɛišk°] 'recede, ebb'. See 16.

The above delimitation of variants is not absolute. A non-adjacent uvular may

influence a vowel in neutral immediate surroundings, e.g. /x̥icq/ 'fallen tree, timber' is pronounced [x̥eɪcq] or [x̥e'cq], cf. also /u̥i'taʃ/ [u̥e'tæʃ] 'type of canoe', /c'i't'aʃ/ [c'e't'æʃ] 'diving duck'. On the other hand, in reduplicated forms vowels in different syllables may influence each other: the word /λ'i'λ'i'x̥°aɪ/ 'brook trout' is pronounced [λ'e'λ'e'x̥°aɪ], with an "irregular" [ẹ] in the first syllable under the influence of the uvular in the next one (see above), or [λ'e'λ'e'x̥°eɪ], with an "irregular" [e] before uvular in the second syllable due to assimilation by the "regular" [ẹ] in the first.

13. The vowel /ə/ stands out by being shorter and more variable than /a, u, i/. Its timbre centers around [ʌ] as in British English *but*, and the deviations from this center are determined by the surrounding consonants. The variants are tabulated below, as found in contact with the following consonants, each symbolized by a single phoneme: /i/ (stands only for itself); /ç/ palatals; /t/ dentals, laterals and preceding /h-/; /p/ labials; /q/ plain uvulars and following /-lʔ/; /k°/ labialized velars and /u/; /q°/ labialized uvulars and following /-uC/ (C = any cons.).

	/-i/	/-ç/	/-t/	/-p/	/-q/	/-k°/	/-q°/
/i-/	e	ɛ	ɛ	ʌ	ʌ, æ	ɛ, ɵ	æ, ɵ, ɑ
/ç-/	e, ɛ	ɪ	ɛ	ʌ	ʌ, æ	ɵ	æ, ɵ, ɑ
/t-/	e, ɛ	ɛ, ʌ	ʌ	ʌ	ʌ, æ	ɵ	ɵ, ɑ
/p-/	e, ɛ	ʌ	ʌ	ʌ	ʌ	ɵ	ɵ, ɑ
/q-/	ɛ, æ	ʌ, æ	ʌ, æ	ʌ, æ	ʌ, ɑ	æ, ɵ	ɑ
/k°-/	ə, ɵ, ɛ	ə, ɵ, ɛ	ə, ɵ, ʌ	ə, ɵ, ʌ	ə, ɑ	ə, ɵ	ə, ɑ
/q°-/	ə, ɵ, ɛ	ə, ɵ, ɛ	ə, ɵ, ʌ	ə, ɵ, ʌ	ə, ɑ	ə, ɵ	ə, ɑ

The timbre [e] is heard before /i/, which has a strong palatalizing effect: /məi/ [meɪ, me'ɪ], also [me'] 'sink; itr.', /λ'əɪn/ [λ'e'ɪn, λ'e'ɪn] 'stop; tr.', /jə'ɪaʔt/ [je'ɪaʔt, je'ɪaʔt] 'vomit continuously'.

The timbre [ɛ] is found in the neighborhood of /i/ and other palatals: /ç'ətʃ/ [ç'ətʃ] 'carve; itr.', /λ'əʃ/ [λ'əʃ] 'tug-of-war', /qəɪ/ [qəɪ] 'bad', cf. also /məi/ above, but otherwise than before /i/ an adjacent labial requires [ʌ], an adjacent uvular requires [ʌ, æ] (see below).

The timbre [ɪ] is heard between palatals (other than /i/): /çə'šaʔ/ [ç'ɪ'ʃeʔ] 'mother', /çə'šn/ [ç'ɪ'ʃn] 'send; tr.'; also after /k, k°/: /k'ə'x°aʔ/ [k'ɪ'x°aʔ, k'e'x°aʔ] 'lacrosse', /skəmʔc/ [skɪmʔc, skɛmʔc] 'small clam'.

The timbre [æ] occurs in the neighborhood of plain uvulars, especially if the other adjacent cons. is a dental or palatal: /səq/ [sæq, sʌq] 'crack, split; itr.', /šəq/ [šæq, šʌq] 'be finished', /qəç/ [qəç, qʌç] 'be full', /ʔəʃ/ [ʔəʃ, ʔʌʃ] 'wild goose'; [æ] is particularly common before /ʃ/, where it is heard also if another uvular precedes: /qəʃ/ [qəʃ] 'much', /x̥ə'x̥nʔ/ [x̥ə'x̥ænʔ] 'frost'; a following /-lʔ/ has the same effect as a uvular: /təlʔt/ [tæ'ɪʔt] 'learn; tr.'.

The timbre [ɑ] is heard especially before labialized uvulars, also before plain ones

if another uvular or labialized cons. precedes: /t'əq'°/ [t'ɑq'°] 'break; itr.', /təx'°/ [tɑx'°] 'be settled', /k'əq/ [k'ɑq, k'əq] 'be split'; also between a labiovelar or uvular and a following /-uC/: /xəuλ'/ [xɑuλ', xəuλ'] 'break; itr.', /sx'ə'uqŋ/ [sx'ɑ'uqŋ] 'white swan', /q'ə'uŋ/ [q'ɑ'uŋ, q'ə'uŋ] 'howl, whistle'; also after /r/: /Pəx/ [Pɑx, Pəx] 'wild goose', /Pəq'°/ [Pɑq'°, Pəq'°] 'fall out (ab. hair)'.

The timbre [ə] is heard after labialized consonants. Between labialized and plain cons. /ə/ is a diphthong in which either the initial [ə]-element predominates, or the delabialized final part; this may be as much a matter of impression as of actual differences in articulation. The word /x'ət/ 'wren' is heard as [x'ə^{et}, x'öt, x'ɑt]; the diphthongal articulation creates even the impression /x'et]. The same variation in /x'əi/ [x'əi, x'öi, x'ei] 'appear'. Before and after uvulars the range of timbres is less wide: /k'əq/ [k'əq, k'ɑq] 'be split', /x'əs/ [x'əs, x'ɑs] 'fat', /q'əq'tq/ [q'əq'tq] 'pass by; itr.'.

The timbre [ö] is heard before labialized velars and /u/: /tək'°/ [tök'°] 'tight', /spəx'°/ [spöx'°] 'animal stomach, tripe', /nəu/ [nöu] 'thou', /šə'uai/ [šö'uai, šö'uæi] 'grow'; also between /i/ and a labialized cons.: /iəq'°/ [iöq'°] 'clothes', and as an intermediate stage between the variants [ə] and [Λ, ε] after labialized consonants, cf. /x'ət/ above.

The timbre [Λ] is heard between labials, dentals and laterals: /pəc/ [pΛc] 'bend, fold; itr.', /pəλc/ [pΛλc] 'thick-lipped', /səp/ [sΛp] 'stiff', /təmλ/ [tΛmλ] 'red paint', /c'əls/ [c'Λls] 'shiny, cleaned', /λəs/ [ΛΛs] 'bitter, sour'; also between a palatal and a labial: /čəmx/ [čΛmx] 'pitch', /mə'čn/ [mΛ'čŋ] 'black louse'; also as an alternative for other timbres, cf. /səq', šəq, qəč/ under [æ] and /x'ət, x'əs/ under [ə] above.

D. VOWEL AND DIPHTHONG I

14. A distinction between /əi, əu, əh/ on the one hand and /i, u, a/ on the other hand exists, but certain reservations must be made. In the first place, the two types easily merge, especially in more rapid speech. In the second place, the distinction is in many cases a matter of a wider *vs.* a narrower range of variants, the former including the latter. For instance, /məi/ 'sink; itr.' is pronounced [mei] or [me·], whereas /mi/ 'come' is pronounced [me·] (and not *[mei]). In the third place, the distinction is in some cases a matter of presence *vs.* absence of a morpheme-border, cf. /pə'i-m/ [pe·i'm, pe'i'm] 'fall overboard' *vs.* /Pəci'm/ [Pəce·i'm] 'small'. In the fourth place, the distinction is limited to certain positions: it is not made before a vowel, and, particularly in the case of /əi/ *vs.* /i/, it was not observed in several other positions (see below). Etymologically, /əi, əu, əh/ and /i, u, a/ are in many cases identical.

15. A distinction between /əi/ and /i/ is made consistently only before uvulars, cf. /xəix/ [xəix, xəiix] 'war', /λ'əiq/ [λ'eiq] 'get trapped', /səiq'qs/ [seiq'qs] 'pass across a flat surface' *versus* /λiq/ [λeiq] 'always', /siqč/ [seiqč] 'shingles'. The distinction can furthermore be made under the stress at the end of a word, cf. /məi/ [mei, me·] 'sink; itr.' *vs.* /mi/ [me·] 'come', where a diphthongal variant is lacking; likewise in /ti/

'this', /ʔi/ 'be here'. Where a uvular or labialized cons. precedes, a diphthongal pronunciation is regular at the end of a word, and I write /əj/: /qəj/ [qɛj] 'bad', /q°əj/ [q°əj, q°ɛj] 'be at lowest ebb', /x°əj/ [x°əj, x°ɛj] 'appear'. In the third place, the distinction is made before /-n/ or /-m/ not followed by a vowel (morphologically, these cases concern morphemes /Cəj/ followed by the transitivizer /-n/ or the intransitivizer /-m/, as opposed to single morphemes /Cin, Cim/), cf. /xəjɪn/ [xɛːjɪn, xɛːjɪŋ] 'stop (people) from fighting; tr.', /λ°əjɪn/ [λ°ɛːjɪn, λ°ɛjɪŋ] 'stop; tr.', /pəjɪm/ [pɛːjɪm, pɛjɪm] 'fall overboard', with a disyllabic pronunciation different from e.g. monosyllabic /k°oin/ [k°ɛːn] 'how much?', though in rapid speech the former type tends to merge with the latter.

In all other positions no distinction between /əj/ and /i/ is maintained, and only /i/ is written, so that morphemes /məj, qəj/, etc., are written /mi-, qi-, etc., when they are unstressed, or, if stressed, when not followed by /-n#, -m#/ (# = cons. or zero), e.g. /qəj/ 'bad' but /qiˈuʔc/ [qɛːjɔʔc] 'blunt' ('bad-edged'), /qis/ [qɛjs] 'dislike' ('consider bad') /qiɪʔ/ [qɛjɛʔ, qiɛjʔ] 'become bad'; /məj/ 'sink' but /miˈmi/ [mɛːlme] 'drown' (reduplication).

16. *Note.*— Otherwise than before uvulars the distinction of /əj/ and /i/ is facultative. LM, with whom the matter was gone into in some detail, did not allow a diphthongal pronunciation in the words /ti, ʔi, mi/ quoted above, and in careful pronunciation distinguished /məj/ from /mi/. It is worthy of note that /ti, ʔi, mi/ all three occur as clitics (the latter, also pronounced /mʔi/, is a reduction of /həmʔi/ 'come'); these words do not belong to the "lexical" part of the morpheme-inventory (neither does the article /k°i/, but this does not occur stressed). The simplest favorite form of lexical morphemes is CVC, to this type /məj/ belongs, and obviously also /qəj/ 'bad', etc., where therefore /əj/ is written even though after uvulars the diphthongs [ɛj, əj] cannot be opposed to plain vowels. — IJ and AP used diphthongal variants in more positions than LM, but not consistently, e.g. in the stressed vowel of /piʕm/ 'spark; itr.', /p°ic/ 'get squeezed', /ʕišk°/ 'recede, ebb', /ʕiʕ°/ 'twist; itr.', /ʕik°/ 'clam', /liˈc°m/ 'spark; itr.', /sliˈʕm/ 'cedar-leaf rope', /ʔis/ 'have a good time'; on the other hand, in the material recorded from them I find only [ɛː] in /nsʔi/ [nsʔɛː] 'loud', /hii/ [hiɛː] 'big' (once pronounced with emphasis with a long-drawn final [ɪː], so that an interpretation /hiiˈh/ is possible). The absence of diphthongal variants in words recorded from IJ and AP may in individual instances be accidental; for instance, the words /ʔis/ and /nsʔi/ quoted above may well contain an etymologically identical element */ʔəj/ 'good', though only of the first a diphthongal variant was recorded. My transcription reflects the pronunciation of LM, but where diphthongs were recorded from IJ or AP this is indicated in the Dictionary by [əj] after the word concerned.

The non-glottalized variant of the inchoative suffix /-i(ʔ)/ (see 186:34) allows under the stress a diphthongal pronunciation (LM), e.g. /p°si(ʔ)/ [p°seʔ, p°sejʔ, p°seː, p°sej] 'go to shore' (derived from /p°əs/ 'id. '; for the pronunciation of /iʔ/ see 21).

17. The distinction of /ə̥/ vs. /u/ is phonetically much more clearcut than that between /ə̥/ and /i/. Only after /λ, λ'/ there is free variation of a vowel and a diphthong (see 11), and here I write /u/. Otherwise, /ə̥/ and /u/ are written as recorded, though it must be noted that the functional yield of the opposition is minimal. Before vowels no distinction is made; I write — conform pronunciation — /ə̥/ in stressed and /u/ in unstressed position, e.g. /šə̥'ʋai/ [šö'ʋæ̥] 'grow', /šua'λ/ [šua'λ] 'trail, door'. In stressed word-final position /ə̥/ was recorded in /nə̥'ʋ/ 'thou', /u/ in the interjection /ʔu/ 'allright' and in the borrowings /k'ašu/ 'pig' (French *cochon*) and /kapu/ 'coat' (Fr. *capot*). Stressed before cons. there is /ə̥/ in /xə̥λ/ 'break; itr.', /šxə̥'ʋqŋ/ 'white swan', /q'ə̥'ʋm/ 'howl, whistle' ([q'a'ʋm, q'a'ʋm], morpholog. /q'ə̥-m/, parallel to /pə̥-m/ in 14, 15), while there is /u/ e.g. in /juλ/ 'burn; itr.', /sʃ'u'p'aʔn/ 'women's neckwear', /sumʔ/ 'smell; tr.'.

18. The distinction between /əh/ and /a/, in those positions where they are directly opposed to each other, is phonetically a matter of vowel-length. In stressed word-final position /əh/ [a:] was recorded in /c'ə'h/ 'get hit, bump', /q'ə'h/ 'be perforated', /snə'h/ 'name', /k'ə'h/ 'maybe so' (interjection expressing doubt); /a/ [a] was recorded only in /na/ 'there you are!' (interjection used when handing over something). The latter word is etymologically identical with the clitic /na/ 'there', so that the distinction of /əh/ vs. /a/ parallels that of /ə̥/ vs. /i/ as regards its distribution in the lexicon (full stem vs. clitic). The distinction /əh/ vs. /a/ is also made under the stress before a consonant, cf. /təhm/ [ta'm] 'to leak' (morphologically parallel to /pə̥'ʋm/ above) vs. /sta'm/ [sta'm] 'what?', further in /xəhm/ 'to cry' (also /xam/), /səhc/ 'be left over', /sp'əhc/ 'blackberries', /č'əhλ'am/ 'hunt; itr.'. In productive combinations of roots /Cəh/ with consonantal suffixes the root is usually reduced to /Ca-, e.g. /q'əh-n, q'a-n/ 'perforate; tr.', /s-q'a-q/ 'hole through the nose' (cf. /q'əh/ quoted above; the roots of /təh-m, xəh-m/ are not found in isolation). — Before a vowel, only [-əh-] is found (to the exclusion of [-a(:)-, -h-]) and I write /əh/ (note that the transcription /a/ or /h/ would also be unambiguous): /spəhi'mʔ/ [spəhe'lmʔ] 'wind', /xəxəha'm/ [xəxəha'm] 'to be crying' (reduplication of /xəhm/).

19. The positions where /ə̥, ə̥, əh/ and /i, u, a/ are and are not distinguished, and the transcriptions chosen in the latter case are summed up in a chart on p. 31. These elements usually occur after consonants, and they are quoted in combinations /Cə̥/, etc.

E. GLOTTALIZATION

20. The glottal stop occurs only in contact with a vowel (V) or a sonant (R); for purposes of phonetic description the possibilities /ʔV, ʔR, Vʔ, Rʔ/ must be distinguished.

The case /ʔV/ calls for few special remarks: the glottal stop has no particular effect

Stressed word-finally	Before Consonant			Before Vowel	
	uvular (C _u)	-n#, -m#	others (C _t)	stressed	unstressed
Cə ^h i	Cə ^h iC _u	Cə ^h in#	CiC _t	Ci ^h V	CiV ^h
Ci ^h	CiC _u	Cin			
Cə ^h ʉ	Cə ^h ʉC			Cə ^h ʉV	CuV ^h
Cu ^h	CuC				
Cə ^h h	Cə ^h hC			(no examples)	Cə ^h hV ^h
Ca ^h	CaC				

Chart Section 19

on a following /a, u, i/, and /i/ has the variant required by a following cons.: /ʔi^htut/ [ʔe^hˈtot] ‘sleep’, /ʔi^hq^o/ [ʔɛ^hˈq^o], ʔɛ^hq^o ‘be rubbed’. The variants of /ə/ before uvulars tend to be more open and back after /ʔ/ than after other consonants, cf. /ʔəʃ/ [ʔæʃ], ʔəʃ ‘wild goose’ vs. /səq/ [sæq, sɔq] ‘crack, split; itr.’, /qəʃ/ [qæʃ] ‘much’; this must be due to the absence of an oral closure or constriction in /ʔ/.

The case /ʔR/ parallels /CR/; particularly, /ʔm, ʔn, ʔl/ are pronounced [ʔəm, ʔn], etc. (see 8).

The case /Vʔ/ requires little comment as far as /aʔ, uʔ/ are concerned. The vowel is somewhat shorter than before cons. Examples: /naʔ/ [naʔ] ‘be on, at’, /haʔλ/ [haʔλ] ‘good’ /la^hʔn/ [la^hʔn] ‘touch; tr.’, /c^ouʔ/ [c^oʊʔ] ‘be pulled out’, /k^ouʔs/ [k^oʊʔs] ‘spring salmon’ /c^ou^hʔn/ [c^oʊ^hʔn] ‘pull out; tr.’; a more open variant was recorded in /muʔn/ [mʊʔn] ‘drop; tr.’. Occasionally an echo-vowel is heard after the glottal stop. In the case of /aʔ/ such a variant was recorded in reduplicative formations of the type /C₁aʔC₁C₂/ (see 158): /sca^hʔcqaj/ [sca^hʔcqaj, sca^hʔ^acqaj] ‘salmonberry’, /la^hʔλɛ/ [la^hʔλɛ, λæʔæλɛ] ‘be on top’, /ɕiλ.na^hʔnɕ/ [ɕɛλna^hʔnɕ, ɕɛλnæ^hʔnɕ] ‘chief’s daughter, girl of upper class’. In the case of /uʔ/ such a variant was recorded only in /q^ou^hʔnəʔa^hʔsn/ [q^oʊ^hʔnəʔa^hʔsn, q^oʊ^hʔnəʔa^hʔsn, q^oʊ^hʔnəʔa^hʔsn] ‘assemble; tr.’.

21. The sequence /iʔ/ offers a more varied picture than /aʔ, uʔ/, undoubtedly because it is not distinct from */əiʔ/, whereas /aʔ, uʔ/ can be opposed to /əhʔ, əʊʔ/ (see 32, 33). What we transcribe /iʔ/ is pronounced [eʔ] after neutral, [ɛiʔ] after plain uvular and [əiʔ, öiʔ, ɛiʔ] after labialized consonants. The variant [eʔ] may have a brief reflex [ɪ] after the glottal closure; in addition, in word-final position it may be opened to [ɛʔ]. All three variants were recorded in the root /λ^hiʔ/ ‘dear, expensive, dangerous’ and its nominalized form /sλ^hiʔ/ ‘desire, thing wanted’: [λ^hɛʔ, λ^hɛʔ, sλ^hɛʔ, sλ^hɛʔ] (the last variant may be considered to represent the articulation /sλ^həiʔ/, see 31).

Word-final examples after uvular and labialized cons.: /sq^hiʔ/ [sq^hɛiʔ] ‘slices of dried salmon’, /x^oiʔ/ [x^oəiʔ, x^oɛiʔ] ‘be lost’. Medial examples: /niʔɛ/ [neʔɛ, neʔɛ] ‘high seas’, /k^ociʔc/ [k^oceʔc, k^oceʔc] ‘person with magic power’, /q^hiʔsn/ [q^hɛiʔsn] ‘small mat used in canoe’, /nq^hiʔstn/ [nəq^həiʔstn, nəq^hɛiʔstn] ‘cooking pot’,

/kʰoʷiʔqtn/ [kʰoʷiʔqTɲ, kʰoʷɛʔqTɲ] ‘fur, skin’. As the last example shows, a following uvular does not affect /iʔ/ the way it does /i/; it may have an opening influence on the initial part of the articulation, however, so that the variant [ɛi] rather than [e] is heard after a plain cons.: /tʰiʔqi/ [tʰɛʔqɛi] ‘soak dried salmon in water’, /tʰiʔqʷm/ [tʰɛʔqʷɔm] ‘spark’, /hiʔqʷiʔn/ [hɛʔqʷɛʔn, hɛʔqʷɛʔn] ‘lamp’.

Before a vowel, /iʔ/ has facultative variants with a glottalized glide written [iʔi] (see 28), e.g. /jiʔuʌ/ [jɛʔuʌ, jɛʔiʔuʌ] ‘fire’, /qʰoʷiʔus/ [qʰoʷɛʔus, qʰoʷɛʔios] ‘spring (season)’.

22. The rare complex /iʔ/ (to which the occurrence of /i/ is limited) is pronounced [ɛʔ], occasionally [ɪʔ]. Examples: /qʰiʔxja/ [qʰɛʔxjɛ] ‘Negro’, /ʔiʔxʰ/ [ʔɛʔxʰ, ʔɛʔəxʰ] ‘all’, /kʰiʔkʰʌ/ [kʰɛʔkʰʌ] ‘small canoe’. Occasionally a variant [ɛʔɛ] is heard, e.g. /pʰiʔnəxʰ/ [pʰɛʔnəxʰ, pʰɛʔnəxʰ, pʰɛʔnəxʰ] ‘to hold; tr.’, /sqʷiʔmʔqʷ/ [sqʷɛʔmʔqʷ] ‘devilfish’ (IJ) (according to AP, who pronounced [sqʷɛʔmʔqʷ], this word is Musqueam and Cowichan, the Squamish equivalent being /stʰəlʰcʰ/).

23. It is characteristic of combinations /Rʔ/ that the glottal closure may either fall at the beginning of the articulation of the resonant, or interrupt it briefly at any point between im- and explosion, or come at the end. This variation is in principle free, but the preferred variants depend on the position in the word in terms of final, preconsonantal or prevocalic, and also on the particular sonant involved.

In words like /lamʔ/ ‘house’, /namʔ/ ‘go’, where the glottal closure tends to fall at the beginning of the articulation of the sonant, any clear nasal resonance may be lacking, but they remain distinct from words ending in /aʔ/, because the color of the vowel is affected by the implosion of the labial. This variant, with or without clear nasal resonance, is symbolized /aʰʔ/, etc. If a consonant follows, e.g. in /lamʔs/ ‘his house’, the explosive moment of the labial becomes relatively prominent after the silence of [ʔ] and is audible as a weak [p] which explodes into the fricative: [laʰʔps]. This explosive element is of necessity unobservable when a homorganic plosive follows, e.g. in /sqʷinʔc/ [sqʷɛʔnʔc] ‘beard’. The extreme variants of the above-mentioned words can easily be mistaken for *[laʔps, sqʷɛʔc].

In the case of /lʔ, ʃʔ, ɥʔ/ such extreme variants do not occur. This is not necessarily due to a different timing of the glottal closure, but rather to the fact that a preceding vowel is more strongly affected by a lateral or glide than by a nasal. An “l”-element is always audible in /lʔ/, though it may be of shorter duration than in /l/, cf. /xʰoʷilʔ/ [xʰoʷɛʔlʔ] ‘come out, off’ vs. /slil/ [slɛʔi] ‘bunch of blankets’. In final or preconsonantal /ʃʔ, ɥʔ/, when the glottal closure falls near the beginning, a brief vocalic reflex [ʰ, ʷ] is heard after its release, sometimes whispered (in case the vocal chords do not start vibrating again after the release of /ʔ/).

As the preference for a particular variant is not the same in all cases, the nasals, liquid, glides and /h/ are treated separately, first in word-final and preconsonantal position, and then intervocalically.

24. In the case of /mʔ, nʔ/ the preferred variants finally or before cons. have the glottal closure near the beginning: /lamʔ/ [laːmʔ] 'house', /limʔ/ [leːmʔ] 'be accepted', /hinʔ/ [heːnʔ] 'be a long time', /sumʔ/ [soːmʔ] 'smell; itr.', /mənʔ/ [mʌnʔ] 'child, offspring'. The same variants before cons.: /lamʔs/ [laːmʔs] 'his house', /sq°inʔc/ [sq°eiːnʔc] 'beard', /k°umʔč/ [k°oːmʔč] 'go over a hill', /st°əmʔq°/ [st°ʌmʔq°] 'scalped'.

25. In final /-lʔ/ the liquid is clearly audible and I write [lʔ]: /q°alʔ/ [q°aːlʔ] 'consent', /x°ilʔ/ [x°eːlʔ] 'come out, come off' (note the difference from the type /siːʔl/ [seːʔəl]), /xəlʔ/ [xæːlʔ] 'write; itr.'. Except in /-ilʔ-/ the preconsonantal variant is the same: /ʔalʔs/ [ʔaːlʔs] 'to pity' /xəlʔt/ [xæːlʔt] 'write; tr.', though sometimes an "i"-resonance is heard after [ʔ] so that the impression is almost [ʔaːlʔ]s, xæːlʔ]t. The sequence /ilʔC/ is always pronounced [eːʔelC], e.g. /x°ilʔt/ [x°eːʔelt] 'take out, take off' (a transitive derivation of /x°ilʔ/ quoted above), /x°iːlʔm/ [x°eːʔelɪm] 'rope'. This sequence is common in reduplicative formations characterized by glottalization: /ʔəs.liːlʔx°/ [ʔəsleːʔelx°] 'lying down' (cf. /lix°/ [leːx°] 'fall down'), /lilʔs/ [leːʔels] 'be under, below' (cf. /ləs/ [lʌs] 'bottom'), /sλːiːlʔiːlʔqm/ [sλːeːlːeːʔelqɪm] 'bug' (a diminutive reduplication of /sλːaːlqɪm/ 'monster').

26. Final /-iʔ/ and /-uʔ/ are not parallel phonetically. In /-iʔ/ the resonant is usually interrupted near the beginning, and a brief [i] is heard after the release of the glottal stop: /taiʔ/ [taːiʔ, taːʔi] 'that one', /slaiʔ/ [slaːiʔ, slaːʔi] 'fir bark'. In /-uʔ/, on the other hand, the glottal stop usually falls quite at the end of the resonant: /šauʔ/ [šaːuʔ] 'bone' /lauʔ/ [laːuʔ] 'recover; itr.', /c°iuʔ/ [c°eːuʔ] 'heal, close' (ab. wound); itr.', /sʃəuʔ/ [sʃəuʔ] 'salmon backbone'. Both types of variants are possible in both cases, however. Before cons. both resonants have a brief reflex after [ʔ]: /ʔaiʔx/ [ʔaː(i)ʔiːx] 'crab', /huʔs/ [hoː(i)ʔis] 'eat; tr.', /xəuʔs/ [xaː(u)ʔus] 'new', /ʔauʔt/ [ʔaː(u)ʔut] 'future'. Before a group of two consonants /-auʔ-/ is usually pronounced [aʔo], i.e. the postglottal reflex has become dominant: /šauʔcq/ [šaːʔocq] 'bony-faced' (cf. /šauʔ/ quoted above), /stəuʔx°λ/ [staːʔox°λ] 'children'.

27. Final /-hʔ/ occurs only in /təhʔ/ [taʔʰ] 'undergo; be located' (a homophonous root means 'mother' (address), cf. also /hatəˈhʔ/ [hataʔʰ] 'aunty'), further in /ləhʔ/ [laʔʰ] 'be touched'. In medial position /əhʔ/ is not distinguished from /aʔ/.

28. Medially before a vowel or syllabic /m, n, l/ variants with glottal closure near the beginning of the sonant are usual in all cases: /naːmʔn/ [naːˈmʔmɪ] 'go and get someone; tr.' (a derivative of /namʔ/ [naːmʔ] 'go'), /nšaːuʔus/ [nšaːˈuʔuos] 'skinny' (a derivative of /šauʔ/ [šaːuʔ] 'bone'), /siːuʔač/ [seːˈuʔuæč] 'foreleg', /t°xaːiʔus/ [t°xaːˈiʔjos] 'lightning'. Deviations from this norm in one direction may create a trisyllabic impression [naːʔmɪ], while in the other direction the sonant may be articulated as a whole before the glottalization, e.g. [t°x°aːˈiʔjos]. However, in these cases the pronunciation of /RʔV/ overlaps that of sequences which are phonemically

distinct from it, namely on the one hand that of /ʔRV/ as in /na'ʔnat/ [na'ʔnæt] 'evening', /li'ʔlam/ [le'ʔlam] 'little house', /ša'ʔju/ [ša'ʔjo] 'corpse', and on the other hand that of /R/ + /ʔV/, written /R.ʔV/ as in /tl.ʔə'c.næç/ [tʃʌcnæç] 'east wind' (see 40).

29. In a few words sequences [-iʔu-, -uʔi-, -iʔi-] were recorded, and since these cannot be opposed to any other type of glottalized sequence of two sonants [i, u], it is in itself immaterial whether one transcribes /-iʔu-/ , etc., or /-iʔuʔ-/ , etc. The former alternative is clearly indicated by those cases of [-iʔi-, -uʔi-] which involve stems ending in /-iʔ, -uʔ/ followed by the 2nd pers. plur. possessive suffix /-jap/, e.g. /sja'iʔ/ 'friend', /ʔə-sja'iʔ-jap/ 'your pl. friend', and I choose this alternative in all cases, e.g. /ja'iʔuas/ 'bed platform', /sua'iʔui/ (geogr. name). — It is probable that a number of cases recorded [-eʔu], transcribed /-iuʔ-/ , go back to */-əiʔu-/ (e.g. in the suffixes /-iuʔiλ, -iuʔas/). See also 70.

30. *Note.*— LM claimed on one occasion that there is a difference in pronunciation between the final part of /lamʔ/ 'house', /sumʔ/ 'smell' on the one hand, and that of /hamʔ/ 'be covered', /pumʔ/ 'swell' on the other hand, pronouncing the former with [mʔ] and the latter with [mʔ]. IJ pronounced [ha^mʔ, po^mʔ] however, and for LM the medial pronunciation in /ha'mʔn/ 'cover; tr.' was the same as that of other medial cases of /-mʔ-/. When a number of cases were checked, LM pronounced [mʔ] (rather than [mʔ]) only in /sx^oimʔ/ 'discarded object'. Having mentioned the pertinent cases, I further disregard this distinction, which in any case is not made by all speakers.

F. VOWEL AND DIPHTHONG II

31. The distinction between /əjʔ, əuʔ, əhʔ/ and /iʔ, uʔ, aʔ/ — like that between their non-glottalic counterparts (see 14-19) — has a low functional yield, and here, too, there often is an etymological equivalence between the two series. It is again the cases with /i, u/ where the distinction is weakest, in this case to the extent of being non-existent: /əjʔ/ and /iʔ/ are either in free variation or in complementary distribution, and only /iʔ/ is written (see 21; the variants [eʔⁱ, eʔⁱ, əjʔ] may be considered to represent /əjʔ/, the variants [eʔ, eʔ] representing /iʔ/).

32. /əuʔ/ and /uʔ/ are in several cases kept apart, cf. /nə'uʔn/ [nə'uʔn] 'put in; tr.' vs. /c'uʔn/ [c'uʔn] 'pull out; tr.', /muʔn/ [mo'uʔn] 'drop; tr.'; however, the root of the first example appears with /uʔ/ in /tx^o.nuʔ/ [tx^onoʔ] '(land) into'. Stressed final /əuʔ/ was recorded in /ʔəsja'ə'uʔ/ [ʔəsja'ə'uʔ] 'seer' and /sʔəuʔ/ [sʔəuʔ] 'salmon backbone', stressed final /uʔ/ in /c'uʔ/ [c'uʔ] 'come out (being pulled)' and /tx^o.nuʔ/ (see above). In unstressed syllables /əuʔ/ is found before vowels and syllabic sonants, /uʔ/ elsewhere. In a few cases the two are in free variation: /ʔəsq'əq'ə'uʔ, ʔəsq'əq'ə'uʔ/ '(be) together with', /x^oəuʔa'x^o, x^ouʔa'x^o/ 'not yet'.

33. /əhʔ/ and /aʔ/ are distinguished in stressed word-final position only, cf. /təhʔ,

(ha)tə'hʔ, λəhʔ/ quoted in 27, pronounced with [a'ʔ^a] as opposed to [a'ʔ] in /naʔ/ 'be on, at', /tx^ota'ʔ/ '(land) onto'.

34. It is worthy of note that /naʔ, tx^otaʔ/ and also /tx^o.nuʔ, ʔəsq'əq^ou'ʔ/ quoted in 32 belong to the category of so-called "relator-verbs" (corresponding to English prepositions, see 219, 220). This category has /Aʔ/ (A = full vowel) in two cases where related "plain" lexical items have the shape /əRʔ/, namely in /tx^o.nuʔ, tx^otaʔ/ vs. /nə'ʊʔn, təhʔ/, and if /ʔəsq'əq^ou'ʔ/ has /ʔəsq'əq'ə'ʊʔ/ besides it, this is because the plain uvular apparently resists the reduction of a following /ə'ʊʔ/ to /uʔ/, before which it becomes automatically labialized (6). The tendency of relator-verbs to reduce /əRʔ/ to /Aʔ/ may be due to a less prominent stress of such words in the sentence as a whole. However, a few "plain" lexical items were recorded with stressed final /Aʔ/: /jaʔ/ 'be tight', /c'uʔ/ 'come out', cf. also — with two stresses — /smə'q'a'ʔ/[smə'q'a'ʔ] 'crane'.

G. UNSTRESSED VOWELS

35. In the unstressed part of a word the consonants do not differ from those in stressed syllables. Of the full vowels, /i/ and /u/ in preaccentual position allow a closer pronunciation than under the stress (extreme variants [i] and [u]), e.g. /hiʔa'mʔ/ [heʔa'lmʔ, hiʔa'lmʔ] 'come home', /tuta'ʊʔ/ [tota'ʊʔ, tuta'ʊʔ] 'bright'. Unstressed /a/ has the variants [a, æ, ε, ə] depending on the consonantal environment in terms of neutral [æ], palatal [ε] and labialized [ə] consonants, the timbre [a] being heard most often before glides and /l/, in the neighborhood of /ʔ/ and, to a lesser extent, of plain uvulars, and also at the end of a word. Unstressed /ə/, and also the facultative vowel is unstressed /Cm, Cn, Cl/ (see 8) is a *schwa*-type vowel [ə], strongly colored by neighboring palatals [ɪ] and uvulars [ə, æ], by preceding labialized consonants, velar [u] or uvular [u, ə] and by following labialized consonants, velar [ü] and uvular [ü, ö]. As these timbres show, uvulars tend to open /ə/, resulting in a pronunciation which largely coincides with that of /a/ (see 38).

36. *Vowel-Reduction*.— A striking feature in the pronunciation of longer words is the strong tendency to reduce unstressed vowels to [ə] and its variants, or even to zero. Here follow some examples (optimal and reduced forms are given in this order): /stə'ʊaqin/ [stə'ʊaqɛjn, stə'ʊæqɛn, stə'ʊəqɛn, -qɛ] 'graveyard', /mə'lalus/ [mɛ'lalos, mɛ'lələs] 'raccoon', /ʔu'x^oumix^o/ [ʔo'x^oomex^o, ʔo'x^oumix^o] 'village'; a particular type of reduction in /aj(ʔ)/, e.g. /λ'i'λ'i'x^oaj/ [λ'ε'λ'εx^oaj, λ'ε'λ'εx^oεj, -x^oe] 'brook trout', /sli'x^oajʔʂn/ [slɛ'x^oajʔʂn, slɛ'x^oəjʔʂn] 'foot of mountain', where /aj(ʔ)/ tends to merge with /i(ʔ)/. In the neighborhood of uvulars, reduced vowels tend to be more open, and particularly /i/ is often reduced to [ε] in this position (cf. /stə'ʊaqin/ quoted above); the same goes for /i(ʔ)/ as a reduction of /aj(ʔ)/, e.g. /si'ʊajʔq/ [sɛ'ʊajʔq, sɛ'ʊɛʔq] 'pants'. The unstressed suffixes /-ʊil, -ʊas/ reduce to /-ul, -us/

e.g. /ča'ʔtʷiɫ/ [ča'ʔtʷeɫ, -ɯɫ, -oɫ] 'build a canoe', /nq'°i'q'°lʷas/ [nəq'°ɛ'q'°lʷæs, -os] 'stick for holding salmon above the fire'.

This tendency to reduce unstressed vowels has had phonemic consequences: many words contain affixes in reduced form even in the most careful pronunciation, so that alternative forms of the affix must be recognized: /-qin, -qn/, /-mix°, -məx°, /-ɯiɫ, -uɫ/, etc. As an example may serve the suffix /-qin, -qn/ 'head; hair; throat; language' which occurs stressed in /ns-qi'n-m/ [nsqɛ'i'nɱ] 'rub oil /ns-/ in one's hair', and unstressed in reduced form in /s-nə's-qn/ [snɫ'sqɱ] 'hair-oil', in non-reduced form in /č'ix°-i'-qin/ [č'ex°ɛ'qɛjn] 'be thirsty', lit. 'have a dry /č'ix°-/ throat' (of course, the latter word allows also reduced forms with [-qɛn, -qn] in the same way as the example /stə'ɯaqin/ quoted above, but /snə'sqn/ does not allow a form with [-qɛjn] — it is as if, in English, both "forehead" and "bulkhead" had a form with [-ɪd], which only in the latter case allowed a fuller pronunciation with [-hed]).

37. *Progressive vowel-assimilation.*— The vowel in a stressed syllable exerts an assimilating influence on the vowel(s) following it. For instance, after a stressed /a/ an /a/ in the next syllable is often pronounced [a] rather than [æ], e.g. /t'a't'aɫ/ [t'a't'aɫ, t'a't'aɫ] 'loom' *versus* /mi'x'aɫ/ [mɛ'x'æɫ] 'black bear'. This tendency to progressive vowel assimilation has had phonemic consequences: certain suffixes often occur with the same vowel as is found in the stem to which they are added, e.g. the transitivizer /-(V)n/, cf. /mə's-n/ 'put, stick together; tr.', /c'a'q'-an/ 'hit; tr.', /mu'i'-un/ 'soak; tr.', /li'k'°-in/ 'hook, hang up; tr.' (see sections 86, 92, 107). (This is a tendency and not a strict rule, cf. /na'mʔ-n/ 'go and get someone; tr.). For a case of progressive vowel-assimilation involving clitics see 55.

38. *Phonemic transcription of unstressed vowels.*— The possible reduction of all unstressed vowels to *schwa* and the possible opening of *schwa*-type vowels to [æ, ə], etc., in the neighborhood of uvulars, combined with the fact that reduced forms in many cases have become standardized, causes certain difficulties with regard to the phonemic interpretation of individual recordings. The following principles have been adhered to:

(a) Close vowels [ə, ɪ, u, ü] in their regular positions, of which no open alternative [æ, ɛ, ə, ö] was recorded in the same word or grammatical (not lexical!) affix, are transcribed /ə/ (resp. zero before /m, n, l/, see 8).

(b) Open vowels [a, æ, ɛ, ə, ö] in their regular positions are transcribed /a/, except that /ə/ is written in the neighborhood of uvulars in those cases where in an identical morphological formation /ə/ rather than /a/ is found in non-uvular surroundings. For instance, the first vowel in [stəqtaqɛ'lʷ] 'horses' is transcribed with /ə/: /stəqtaqi'lʷ/ (morphologically /s-təq-taqi'lʷ/) because the reduplicated plural has close vowels, *i.e.* /ə/, in neutral surroundings, cf. /s-mn-ma'nit/ [smənma'net] 'mountains'.

(c) In cases where full and reduced forms were recorded and where the reduced form is very much more common than the full one, or where it was used in deliberately

careful pronunciation, alternative forms are recognized (thus in the case of /nq³°i'q³°lus/ quoted in 36, which is much more common than the form with /-uas/).

As far as unstressed vowels are concerned, the possibility of errors in individual cases must especially be taken into account in the case of the following pairs: the variant [u] of /ə/ and the variant [u] of /u/; the variant [ɪ] of /ə/ and the variant [i] of /i/; the variant [æ] of /a/ and the variant [ɛ] of /i/; in addition, certain cases with /ə/ may allow full forms which were not recorded (see 97, 111). The account of unstressed vowels given here is certainly incomplete: a special investigation would probably reveal a complex system of neutralizations. For instance, in postaccentual position before /λ, λ³/ only open vowels were recorded, and according to (b) above I write /a/, e.g., in /mi'xəλ/ [mɛ·'xəλ] 'black bear', /sta'jəλ/ [sta·'jɛλ] 'brother's or sister's child', though a transcription with /ə/ would be just as unambiguous here.

III

SPECIAL QUESTIONS

A. JUNCTURE

39. The distinction between syllabic and non-syllabic juncture between a cons. and a following /m, n, l/ (see 8) is made more or less consistently only *between syllables*, *i.e.* in the case /CVC.RVC/ *versus* /CVCRCV/ (where VC may be replaced by syllabic /m, n, l/, as in the examples /st^l.mu^lʔt, t^llma^lʔ/ quoted in 8), and here ./ is written. In word-initial position there is perhaps a tendency to non-syllabic contact in combinations of the nominalizing prefix /s-/ and stems /RVC.../ when R is represented by /l/, or when the syllable is unstressed. For instance, one normally pronounces [sma^l-, sɲa^l-] in /s-ma^lnit/ 'mountain', /s-nat/ 'night'; on the other hand I recorded [sla^l-] rather than [s|a^l-] in /sla^lʔt/ 'herring', and [smən-, smɲ-] rather than [smən-, smɲ-] in /s-mn-ma^lnit/ 'mountains'. But this pattern is not rigidly adhered to; I recorded [sɲəx^o-] in /s-nəx^oi^lλ/ 'canoe' (reduplicated plural /s-nəx^o·nəx^oi^lλ/). A distinction between /CiV^l-, CuV^l-/ and /C_iV^l-, C_uV^l-/ is not made at all, and I use the latter transcription only where C is represented by /s-, e.g. in /s|ə^lcm/ [si^lɛ^lcm] 'news', cf. /jə^lcm/ [jɛ^lcm] 'tell, report' (an initial /s-/ so frequently represents the nominalizing prefix (80) that in all units /sC.../ where there is no morphological evidence to the contrary it may be regarded as such).

When a vocalic prefix precedes a nominalized unit /s-RVC.../ the tendency to non-syllabic contact when R is represented by /m, n, l/ is somewhat stronger, and here ./ is written, e.g. /ti-s-məq^o·mə^lq^o-m/ [tesmɔq^o-] 'overeat'.

A distinction of juncture-types is also problematic in sequences /-VʔR-/: in /p^li^lʔnəx^o/ 'have seized' one hears syllabic variants of /n/ much more often than in the morphologically parallel case /k^oa^lč.nəx^o/ 'see', lit. 'have caught sight of' (cf. also, for an extreme case, the last variant of /q^ou^lʔnəu^la^lsn/ quoted in 20, end).

40. In a number of words medial sequences of /R/ and /ʔ/ were recorded which differ from those treated in 28 in that the glottal stop clearly falls after the complete articulation of the sonant. In some cases these may be accidental variants, e.g. in /hi^lʔi^lqn/, recorded [he^lʔɛ^lqn] 'those sitting in front', where the root itself is

facultatively glottalized (/hiʔ/) 'be upstream'). In others there is a morpheme-border between /R/ and /ʔ/, and the second morpheme is found independently with /ʔ/; in these cases I write /R.ʔ/ or, where morphemes are separated, /R-ʔ/, e.g. /ʔm-ʔi^{mac}/ 'grandchildren' (reduplicated plural of /ʔi^{mac}/), /tɬ-ʔə^c-nač/ [tʃʔ^ʌcnəč] 'east wind' (cf. /ʔə^c-nač/ 'territory of Indian Reserve no. 3'). Such cases were sometimes also recorded where junctural glottalization (69, 70) is involved, but in most examples of this category one hears the usual variants of /Rʔ/, so that at most the existence of a tendency can be registered; I do not mark these cases with /./.

B. CONSONANTS

41. In several cases a sequence of two identical consonants regularly merges into a single one. For instance, the 3rd. pers. possessive suffix /-s/ is inaudible after stems ending in /s/: the form [tæsʔa¹cos] means 'the face' as well as 'his face', and in the latter case I transcribe /ta¹sʔa¹cus(-s)/, on the analogy of /ta¹la¹mʔ-s/ 'his house', etc. In other cases such a merger is frequent, but a pronunciation as geminates is possible. For instance, the relative-case prefix /t-/ often merges with a following article or demonstrative beginning with /t/, e.g. in /timʔa¹ t-ta¹iʔ/ 'like that' one hears sometimes [tta¹ʔi] with two separate explosions, but also [ta¹ʔi]; in the latter case I write /t(-)ta¹iʔ/ in recorded sentences.

42. After /n(ʔ), l(ʔ)/ a distinction of /c/ and /s/ is problematic. I have recorded /ʔəns/ 'I', though comparative evidence (Cw. ə'nθə) points to /c/, and /x^oi¹ʔq^olʔs/ 'steamboat', though a final /-c/ would allow a likely etymology 'fiery-mouthed' (see Dictionary), and so in other cases. A similar problem exists with regard to the distinction of non-initial /c/, /ts/ and /tc/. I have recorded /p^ʔi¹ʔtcka/ [p^ʔɛ¹ʔt^ʃckɛ] 'grab me!', with a slightly affricated variant of /t/ followed by a full affricate (morphologically the word consists of the root /p^ʔi¹ʔ-, the transitivizer /-t/, the 1 sg. object-suff. /-c/ and the imperative suff. /-ka/). In /p^ʔi¹ʔtcax^o/ 'your /-ax^o/ grabbing me /-c-/' the same sequence /-t-c-/ is morphophonemically present, but I doubt if before a vowel /tc/ is distinct from /c/. Words containing the reflexive suffix /-sut/ or /-cut/ were always recorded with [cot], and here the pronunciation was checked carefully: it is identical with that of /cut/ [co-t] 'to say' where initial /c-/ is distinct from /ts-/ (see 5). But since trans. verb-stems which take this reflexive suffix have a final /-t-/ before all other personal suffixes (also before passivizing /-m/, see 82), and particularly since the reflexive form of verbs with the transitivizers /-at-, -ut-, -it/ has /-acut-, -ucut-, -icut/, these forms end morphophonemically in /-(V)t-cut/ or /-(V)t-sut/. There is nothing in Squamish itself that points to the former alternative, and for analytical purposes I write /-(V)t-sut/, for practical purposes (texts) /-(V)cut/.

43. A morpheme-initial /h/ is dropped after a consonantal prefix, e.g. /hiʔ/ [he¹ʔ] 'be upstream', /s-(h)iʔ/ [se¹ʔ] 'upstream region', /tx^o-(h)iʔ/ [tx^oe¹ʔ] 'move upstream'; /hii¹/ [hi¹ie¹] 'big', /nəx^o-(h)ii¹-qs/ [nux^oi¹ie¹qs] 'big-nosed' (suff. /-qs/ 'nose').

44. In unstressed syllables a morpheme-initial /ʔ/ is sometimes dropped after a consonant, e.g. /s-(ʔəq^oi^lʔt/ 'siblings and cousins' (also /ʔəq^oi^lʔt/). I write /ʔ/) only in cases where /ʔ/ is usually or always absent. The /ʔ/ in the 1st pers. sing. possessive prefix /ʔn-/ is always dropped after a clitic connected with the word of which it is a part: /ʔn-sjaⁱʔ/ '(he is) my friend' *versus* /ta₋n-sjaⁱʔ/ 'my friend'; it is usually absent in all other sentence-medial positions. This case is very frequent, and instead of /ʔn-/ I write simply /n-/ here. The 2nd pers. possessive prefix /ʔə-/ is normally dropped in the 2nd pers. subject forms of the factual paradigm (see 133) after the article /k^oi/, and here I write /ʔə-); the use of the prefix may well be artificial.

45. In a few cases glottalic consonants seem to have lost their glottal feature when preceded by /ʔ/. The root-final glottalic cons. in /ʃiç/ 'be all around', /ʃiç^o-aⁿ/ 'circle around; tr.' was recorded /ç/ in /ʃi^l-ʃi^lʔç/ 'round', and /t/ was recorded in /mu^l-m^ʔt-m/ 'blue grouse', but cf. Cw. mi^t 'id.'. In these cases /ʔ/ is characteristic of reduplicative formations (see 71). Cf. also /ʔəs-ju^lʔk^o/ 'stingy' *vs.* Cw. ϵ wk^o 'wealth, property'. On the other hand, an unexpected /k^o/ was recorded in /s-ʔə-k^o-a^lʔ-k^olaš/ 'wound', probably < */s-ʔa^l-k^o-a^lʔ-k^olaš/, and in any case a reduplicative derivative of /k^oə^llaš/ 'shoot, sting'. To sum up, in two cases /ʔK/ seems to be a secondary development of /ʔK^o/, in one /K^o/ certainly represents an original /ʔK/, and for /ʔəsju^lʔk^o/ *vs.* Cw. ϵ wk^o both interpretations are possible, though Sq. /nəx^o-juk^o-a^lʔmin/ 'what belongs to a stingy person', CdA. du^ʔuk^o 'be stingy', Kal. yəyu^lk^oe^ʔ 'stingy' suggest the second one for Cw. ϵ wk^o. — But cases of /ʔK^o/ were also recorded, e.g. /sc^oi^lu^ʔq^o/ 'elderberry'. It is not impossible that /ʔK/ and /ʔK^o/ are in free variation in Squamish.

46. In a small number of words geminated or long consonants occur. Where these are found in medial position they are combined with a double stress if one of the adjacent vowels is /ə/, and this /ə/ is in several cases irregular in comparison to non-geminated counterparts of these words (see below). I write these geminates /C.C/, where /./ fulfills the double function of indicating that the consonants do not merge, and that the second one is not syllabic (in the cases with /n.n/). Such geminates occur without double stress in /s-ʔa^t.tam/ 'things, stuff, belongings' (probably a derivative of /s-tam/ 'what?') and in /ʔač.ča^luam/ 'to spawn', /-(n)-s-ʔač.ča^luam/ 'conger eel'. With double stress they occur in four of the numerals referring to days: /t^ək^o.k^ousa^lç/ '7 days', with a surprising /ə/ in the first syllable, as compared to /t^əak^ousa^lç/ '7', /tə^lq.qa^lç/ '8 days', cf. /tqač/ '8', /ʔu^lp.pəⁿ/ '10 days', cf. /ʔu^lpn/ '10' and /ci^lja^lčis = çə^lja^lčis/ [-e^lja^l] '5 days', /s-ci^lja^lčis/ 'Friday', cf. /ci^lačis/ 'five'; without double stress in the numeral /ʔaⁿ.n^ʔus/ '2 animals' (possibly a misrecording for */ʔa^lʔn^ʔus/, see 213). Further in two non-numerical words: /nəx^o-uə^lu.ɥa^lnm/ [-uə^lu^əɥa^l-] 'be surprised', /tinəⁿ.na^lʔt/ in the expression /uə₋n.λ₋tinəⁿ.na^lʔt/ [uənλtənəⁿna^lʔt] 'my deceased father', lit. 'the past one I am from', cf. /tina^lʔ/ 'be from' (where /ti-/ means 'from' and /na^l/ '(be) at').

In a few cases geminates occur word-initially, e.g. in the phrase / $\text{ua} _ \lambda \text{-s} _ \text{ua} _ \text{n.na} _ \text{?}$ / 'where they (persons) were'; here / $\text{n.na} _ \text{?}$ / is a form of the morpheme / $\text{na} _ \text{?}$ / 'at' mentioned above. Since reference to persons in several cases entails reduplication in Squamish, gemination is considered to be a special type of reduplication (see 162). In the medial cases, the reduplication is the primary phenomenon, from which the double stress and the appearance of /ə/ in unexpected places result.

C. SVARABHAKTI VOWELS

47. In a few words of the shape /CVR(?)C/ variants with a svarabhakti-vowel between /R/ and /C/ and without glottalization were recorded. The instances are the following:

[CVR ^ə C]	[CVR?C]	[CVRC]	
[$\text{x}\epsilon _ \text{i} _ \text{x}$]	[$\text{x}\epsilon _ \text{i} _ \text{?} _ \text{x}$]	[$\text{x}\epsilon _ \text{i} _ \text{x}$]	/ $\text{x}\text{i} _ \text{?} _ \text{x}$, $\text{x}\epsilon _ \text{i} _ \text{x}$ / 'war'
[$\lambda _ \text{?} _ \epsilon _ \text{i} _ \text{q}$ ']	—	[$\lambda _ \text{?} _ \epsilon _ \text{i} _ \text{q}$ ']	/ $\lambda _ \text{?} _ \epsilon _ \text{i} _ \text{q}$ '] 'get trapped'
[$\text{s} _ \text{c} _ \text{?} _ \epsilon _ _ \text{u} _ \text{?} _ \text{q}$ ']	[$\text{s} _ \text{c} _ \text{?} _ \epsilon _ _ \text{u} _ \text{?} _ \text{q}$ ']	[$\text{s} _ \text{c} _ \text{?} _ \epsilon _ _ \text{u} _ \text{q}$ ']	/ $\text{s} _ \text{c} _ \text{?} _ \epsilon _ _ \text{i} _ \text{u} _ \text{?} _ \text{q}$ '] 'elderberry'
[$\lambda _ \lambda _ \text{?} _ \text{m} _ \text{x}$ °]	[$\lambda _ \lambda _ \text{m} _ \text{?} _ \text{x}$ °]	—	/ $\lambda _ \text{?} _ \text{m} _ \text{?} _ \text{x}$ °/ 'rain'

The variants with svarabhakti-vowel resemble the Halcomelem forms (Cowichan $\text{x}\epsilon _ \text{i} _ \text{y} _ \text{l}\epsilon _ \text{x}$, $\text{c} _ \text{i} _ \text{i} _ \text{w}\epsilon _ \text{q}$ °, $\text{s} _ \text{-}\lambda _ \text{?} _ \text{m}\epsilon _ \text{x}$ °); since in Squamish a type /CVR^əC/ is very rare while /CVR?C, CVRC/ are common (see 65), I regard the latter forms as optimal, and in particular the form with glottalization, of which that without may be regarded as a reduction. In the word 'war' the form / $\text{x}\epsilon _ \text{i} _ \text{x}$ / is the most frequently used, and alternative forms are recognized; note that / $\text{x}\text{i} _ \text{?} _ \text{x}$ = $\text{x}\epsilon _ \text{i} _ \text{?} _ \text{x}$ /. Of / $\lambda _ \text{?} _ \epsilon _ \text{i} _ \text{q}$ '] no alternative with glottalization was recorded, but a glottal stop may easily have escaped notice before glottalic /q'/, see 45. With 'elderberry' a form CVRC was recorded only in the derivative / $\text{s} _ \text{c} _ \text{?} _ \epsilon _ _ \text{i} _ \text{u} _ \text{q}$ °- $\text{aj} _ \text{?}$ / 'elderberry-tree'. In all three cases with glottalization, the variant with [?] after the full sonant was recorded.

48. In word-initial position a sequence of /n/ plus uvular is pronounced with an anaptyctic vowel [ə, æ] in between. All instances concern the prefix /n-/ , alternant of / $\text{n}\epsilon _ \text{x}$ °-/ (locational), see 169ff. When a clitic ending in a vowel precedes, the anaptyctic vowel is facultative. Examples: / $\text{n} _ \text{q}$ ° $\text{a}\lambda$ / [$\text{n}\epsilon _ \text{q}$ ° a ° λ , $\text{n}\epsilon _ \text{q}$ ° a ° λ] 'be in the way', / $\text{n} _ \text{q}$ ° u ° Pus / [$\text{n}\epsilon _ \text{q}$ ° o ° Pos] 'tears' (cf. before a non-uvular cons. / $\text{n} _ \text{ti}$ ° q ° us / [$\text{nt}\epsilon _ \text{q}$ ° os] 'bump one's head'). Where such a vowel remains absent between /n-/ and a following uvular, the initial /n-/ is secondary and results from / ?n -/; these cases all concern the 1st pers. sing. possessive prefix / ?n -/, where / ? / is often dropped, see 44, and where this prefix in its form /n-/ occurs before uvulars I write /n-/ (where /./ indicates the absence of an anaptyctic vowel), e.g. / $\text{ta} _ \text{n} _ \text{q}$ ° a ° $\text{i} _ \text{?} _ \text{q}$ / 'my chair'.

An anaptyctic vowel is also heard between the combination /n-s-/ (consisting of the abovementioned prefix / $\text{n}(\epsilon _ \text{x})$ °-/ and the nominalizer /s-/) and a following consonant proper; the only instances are / $\text{n} _ \text{s} _ \text{t}$ ° q ° i ° us / 'side of body' and / $\text{n} _ \text{s} _ \text{x}\epsilon _ \text{a}$ ° $\text{?} _ \text{xm}$ / 'wild pigeon', pronounced with an initial [$\text{ns}\text{ət}$ °-, $\text{ns}\epsilon _ \text{x}$ °-]. Such a vowel remains