MORPHOPHONEMIC CHANGES IN DAAI CHIN

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A. INTRODUCTION

1. The Daai Chin language

The Daai Chin language belongs to the Southern Branch of the Kukish Section of the Tibeto-Burman language family. It is spoken by approximately 30,000 people, in the townships of Matupi, Mindat, Kampelet and Paletwa, in the Southern Chin Hills of Burma.

Not all of the Daai Chin population call themselves "Daai".

Only in recent years young people, specially with some school education, have started to call themselves and their tribe "Daai".

Some of the other names that have been used for the Daai Chins or part of the Daai Chins are: Kkhyou, Nghmo Ye, Ngxang, Kho nglung kkhyaang.

Within the Chin language group Daai Chin is most closely related to Mün Chin (also called Mindat Chin), Chin Pon (also called Ut Pü) and Matu Chin.

The Daai Chin language is composed of several dialects, whose boundaries have yet to be determined. This study is based on the dialect spoken in Kampelet township, particularly in Yang Msaai village and its surrounding area.

2. Outline of phonology

2.1 Initial consonants.

| | | bilab. | alv. | palat. | vel, | glot. |
|--------------|---------|--------|------|--------|--------------|-------|
| | vl, | þ | t | | k | ? |
| stop | vl.asp. | ph | th | | k^{h} | |
| | vd. | b | đ | | | |
| | vl. | | s | | ж | h |
| fric. | vl.asp. | , | s | | | |
| | vl. | hm | hn | | hŋ | |
| nas. | vd. | m | n | | η | |
| 1 | vl. | | hl | | | |
| lat fric. | vd. | | 1 | | | |
| semi-vow | rels | W | | У | 8 | |

Consonant modifications:

Velarization/palatalization: py, phy, ky, khy, hy, my, ny, ny, wy.

Most commonly velarization, but in some dialects it is palatalization.

Preglottalization (not implosion): can occur with all consonants.

Prenasalization: can also occur with all consonants.

2.2 Final consonants

| p[p?] | t[t] | k[k?] | ? |
|-----------------------------------|-----------------|----------------------|---|
| m | . ^{††} | رُ مُنْدَ الْ | |
| w | | y | |
| w [?] [wk [?]] | , r J | y? | |

2.3 Vowels

| esi | front | centr. | | ck round |
|------|--------|--|--------|-------------|
| high | i[i~v] | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | ï | u[u~υ] |
| mid | ε | ə | | ລ[ລ~ບ] |
| low | | a[a~^] | i Y | |

Vowel modifications:

Length: all vowels may be contrastively short (v) or long (vv).

Open syllable vowels (v) are a little shorter than the long vowels.

Tone: Plain level tone vs. tense high falling tone. The high tense tone does not occur on short syllables with a final stop.

2.4 Syllable structure

The general syllable pattern is: $\pm C_1 + C_2 \pm C_3 + V \pm C_4$

 $C_1: ?, m, \eta$ (preglottalization, prenasalization)

C2: all initial consonants

C₃: y (velarization/palatalization)

v : all vowels

 C_{Δ} : all final consonants

Most morphemes in Daai Chin are monosyllabic.

B. RULES FOR MORPHOPHONEMIC CHANGES IN NOUN COMPOUNDING

Daai Chin has phonologically conditioned changes in some morphemes. The rules for these changes can be seen most completely in compound nouns. These same rules also apply, though less fully, to the numeral phrase, the prepositional phrase and the verb phrase. There are also morphologically conditioned variants of verb stems to which some of these rules apply.

These morphophonemic changes take place at normal conversational speed, but in very slow speech or singing the morphemes retain their basic form without morphophonemic changes.

1. Rule I. Vowel shortening

 $CV \cdot + CVx \rightarrow C\nabla CVx$

If the first member of a compound noun is an open syllable the vowel of the open syllable is shortened.

- 1. k^h s. mik \rightarrow k^h smik

 'earth' 'eye' 'sun'
- 2. $s^h \varepsilon$. m'. \rightarrow $s^h \varepsilon m'$. 'hair of the cow'
- 4. lu. s am → lus am
 'head' 'hair,string' 'hair of the head'
- 5. k^h 5. nu'. \rightarrow k^h nu'.

 'foot' 'big' 'big toe'
- 6. k^h s. ?aay $\rightarrow k^h$ s?aay 'spirit' 'chicken' 'wild chicken'
- 7. $s^h \varepsilon$. ?on \rightarrow $s^h \varepsilon$?on 'cow' 'trading' 'cow trading'

2. Rule II. Loss of high tense tone

2.1 Unconditional loss of high tense tone

Rule IIa: $C\vec{V} + {CVx \brace ?CVx} \rightarrow C\vec{V} {CVx \brace ?CVx}$

If the first member of a compound noun is an open syllable with high tense tone and is followed by simple consonant or preglottalization it always changes into a plain tone.

- 1. li. pok → lipok
 'arrow' 'bundle' 'gun'
- 2. 15. gu? → logu?

 'throat' 'bone' 'Adam's apple'
- 3. mź. shź. \rightarrow mɔsh́ź.

 'jungle' 'meat' 'meat of wild animals'
- 4. mé. mik → memik
 'goat' 'eye' 'eye of goat'
- 5. hlέ. [?]uum → hlε[?]uum 'palmtree' 'container,hole' 'a palmtree which is empty inside'
- 6. mé. ?εy → mε?εy
 'goat' 'eat' 'food of goats'

8. pá.
$${}^{?}s^{h}\acute{\epsilon}.$$
 \rightarrow pak-s ${}^{h}\acute{\epsilon}.$ 'father' 'bad,intense' 'old man'

Rule IIb: CVN + °CVx → CVN°CVx

If the first member of a compound noun has a short vowel with nasal ending and is followed by preglottalization the high tense tone of the first member always changes into a plain tone.

There is always concurrent resyllabification and assimilation (Rule III).

- 1. 'im 'si. → 'ip-si.
 'house' 'floor' 'housefloor'
- 2. nnám °sɔɔn → nnap-sɔɔn

 'village' 'outside' 'outside the village'
- 4. ${}^{?}s\circ\eta$ ${}^{?}k^{h}\acute{\epsilon}\acute{\epsilon}t$ \rightarrow ${}^{?}s\circ k^{-k}\acute{\epsilon}\acute{\epsilon}t$ 'left' 'right' 'both sides'

2.2 Conditional loss of high tense tone

Rule IIc: CV + NCVx → CVNCVx

If the first member is an open syllable with high tense tone and if the second member has prenasalization and a high tense tone too, the first member changes to a plain tone. There is always concurrent resyllabification (Rule III).

- 1. sá. npyán → san-pyán 'child' 'man, male' 'son'
- 2. shá. ηláy → shaŋ-láy
 'deer' 'field' 'place where deer rest in
 the field'

If the second member of the compound has a plain tone, the high tone on the first member remains unchanged.

- ná. mpaan → nám-paan
 'fish' 'fork' 'name of a fish'
- 2. sá. ŋhnu. → sáŋ-hnu. 'child' 'woman,female' 'daughter'

Rule IId: CVY + CVx → CVYCVx

If the first member has a high tense tone and a final semi-vowel, and if the second member has a high tense tone too, the first high tense tone is changed into a plain tone.

- 1. s éy méy → s s eyméy
 'tobacco''fire' 'pipe'
- 2. túy nú. → tuynú.
 'water''big' 'river'
- 3. 15w ?úy → low?úy
 'field' 'dog' 'dog that is kept in the field'

If the second member of the compound has a plain tone, the high tense tone of the first member remains unchanged.

- 1. $s^h \acute{\epsilon} y$?uy \rightarrow $s^h \acute{\epsilon} y$?uy 'tobacco' 'seed' 'tobacco seed'
- 2. túy [?]εy → túy[?]εy
 'water' 'eat' 'eating together'

Rule IIe: CV:N + ?CVx - + CV:N?CVx

If the first member has a long vowel, a high tense tone and a final nasal, and if the second member has preglottalization and a high tense tone, the first high tense tone is changed into a plain tone.

l.sɔʻón ?díík → sɔɔt-díík
'spoon' 'small' 'little spoon'

If the second member of the compound has a plain tone, the high tense tone of the first member remains unchanged.

3. Rule III. Consonant resyllabification and assimilation

Rule IIIa: Nasal - preglottal

 $CVN + {}^{?}CVx \rightarrow CVT.CVx$

If the first member has a final nasal and the second member has preglottalization, the nasal becomes a homorganic stop ($m \rightarrow p$, $n \rightarrow t$, $n \rightarrow k$) and the preglottalization disappears. Or we could say that the glottalization is resyllabified into the preceding syllable and merged with the nasal to make a stop.

- 1. ?im ?si.

 'house' 'floor'

 'housefloor'
- 2. nnam ?soon → nnap-soon .

 'village' 'outside' 'outside the village'
- 3. sốn ?díík → soot-diik
 'spoon' 'little' 'small spoon'
- 4. mpyoη ?shέ. → mpyok-shέ.

 'mouth' 'bad' 'evil tongue'
- 5. $?k^h$ yaan $?s^h \acute{\epsilon}$. \rightarrow $?k^h$ yaak- $s^h \acute{\epsilon}$.

 'man' 'bad' 'wicked man'

Rule IIIb : Nasal - prenasal

$$CVN_1 + N_2CVx \rightarrow CVN_2.CVx$$

If the first member has a final nasal and the second member has prenasalization, the nasal ending of the first word assimilates to the point of articulation of the following nasal and the prenasalization disappears.

- 2. ?k yaan msi.
 'man' 'seed'
 'only offspring'

Rule IIIc : Open syllable - preglottal or prenasal

$$CV + (?CVx) \rightarrow (CVk.CVx)$$
 $(CVN.CVx)$

If the first member is an open syllable and if the second member has preglottalization or prenasalization, the glottal or nasal phoneme joins the first member to close the open syllable. In the process the glottal changes into a velar stop.

- 1. k^h o. ??á. \rightarrow k^h ok-?á. 'earth' 'rain' 'rain'
- 2. k ya. ?waay → k yak-waay 'moon' 'light, beam' 'moonlight'

[?]s an-lun ŋluŋ 'veranda' 'middle' 'place in the middle of the veranda' 4. s ε. s en-lew ŋləw 'cow' 'stray' 'a straying cow' 5. s^hε. s em-lo? mlo? 'cow's vomit' 'cow' 'vomit' 6. yu. mlun yum-lun 'rice wine' 'cover' 'cover of the rice wine pot'

Rule IIId: Semivowel - Preglottal

$$CVy + ?CVx \rightarrow (CVy?.) CVx$$

$$(CVyk.) CVx$$

If the first member ends in a semivowel and the second starts with a preglottal, generally the glottal stop joins the first syllable. In the process the semivowel \underline{w} may drop out, and the glottal may change to \underline{k} (always if the semivowel is \underline{w}).

1.
9
úy 9 they \rightarrow 9 uy 9 -they 9 uy 9 -they 9 dog' 'train' 'a trained dog' 9 2. 9 shey 9 9 9 4m \rightarrow 9 8 9 8 9 8 9 8 9 9 9 4m

'tobacco' 'container'

'tobacco container'

3. k aaw ?t a. → k aak-t a.
 'rope from bark' 'strong' 'strength of a bark rope'
4. 1ów ?soŋ → lowk-soŋ
 'field' 'hut' 'hut in the field'

4. Rule IV. Loss of preglottal

CVT + CVx → CVTCVx

If the first member has a final stop and the second member has preglottalization, the preglottalization disappears.

C. COMBINATION OF MORPHOPHONEMIC RULES

Two or more of the rules may be applied simultaneously.

- 1. Rules I + II : Vowel shortening with loss of high tense tone
- 1. lí. pok → lipok
 'arrow' 'bundle' 'gun'

2. mé. mik → memik
'goat' 'eye' 'eye of a goat'

2. Rules I + III : Vowel shortening with consonant resyllabification and assimilation

- 2. s^hε. ηləw → s^hεη-ləw
 'cow' 'stray' 'a straying cow'
- 3. Rules II + III : Loss of high tense tone with consonant resyllabification and assimilation

1. lám ?sɛ. → lap-sɛ.

'road' 'other,different' 'the other road'

- 2. ?sɔ́n ?kh'éét → ?sɔk-kh'éét
 'left' 'right' 'both sides'.
- 4. Rules I + II + III : Vowel shortening, and loss of high tense tone, with consonant resyllabification and assimilation

1. nú. [?]píy → nuk-píy 'nother' 'old' 'old woman'

2. sá. npyán → san-pyan · 'child' 'man' 'son'

Rule IV does not cooccur with other rules because it requires a final stop in the first member, but Rules I, II and III do not apply if there is a final stop.

D. MORPHOPHONEMIC CHANGES IN OTHER NOMINAL PHRASES

1. Prepositions

Prepositions (really postpositions) combine with nouns in ways similar to the preceding.

- 1. Rule I : lu. pɛy → lupɛy
 'head' 'beside' 'beside the head'
- 2. Rule II a: ηnό. pεy → ηnɔpεy
 'edge of 'beside' 'beside the field'
 the field'
- 3. Rule II b: ^γim ^γkέ. → γip-kέ.
 'house' 'under' 'under the house'
- 4. Rule II d: [?]sέy [?]kέ. → [?]sέy[?]-kέ 'under' 'under the spear'
- 5. Rule II e: smsiίη 'kέ.

 'kind of bamboo' 'under' 'under the bamboo'
- 6. Rule III a: ?im ?khaan → ?ip-khaan

 'house 'on' 'on the house'

'house' 'middle' in the middle of the house'

8. Rule III c: msī. ?k aan → msīk-k aan 111 112

'pot' on' 'on the pot'

10.Rule IV : salaap ??um → salaap-?um

'resthouse' 'inside' 'in the resthouse'

field'

All rules except IIc have thus been observed. Rule IIc is lacking because no prepositions have yet been found with the form NCVx.

2. Numbers

Numbers combine with their preceding nouns in similar fashion.

- fashion.

 1. Rule I: msi. p ya. \rightarrow msip ya.
 - 'pot' 'one hundred' 'hundred pots'

2. Rule II a: mɛ́. p ya. → mɛp ya.

'goat' 'one hundred' I'hundred goats'

3. Rule II b: lám ?t um + lap-t um

'road' 'three' 'three roads'

4. Rule II c: sɔʻon ?kɔʻ. → sɔɔt-kɔʻ. 'nine spoons'

5. Rule IIIa: ?im ?thum > ?ip-thum

'house' 'three' 'three houses'

6. Rule IIIb: 'im nhni' → 'in-hni'
'house' 'two' 'two houses'

7. Rule IV: wak $p^h y \tilde{i}$. \rightarrow wak- $p^h y \tilde{i}$.

'pig' 'four' 'four pigs'

Rule IIc is lacking because no numbers have been found with the form NCVx. The requisite conditions for Rules IId, IIIc, and IIId do occur, but these rules are inoperative for numerals.

1. Inoperative Rule IId:

 2 úy 2 kś. \rightarrow 2 úy 2 kś. 1 dog' 'nine' 'nine dogs'

2. Inoperative Rule IIIc:

 s^{h}_{ϵ} . ?thum \Rightarrow s^{h}_{ϵ} . ?thum 'cow' 'three' 'three cows'

3. Inoperative Rule IIId:

lów [?]p^hyĩ. → lów [?]p^hyĩ.
'field' 'four' 'four fields'

E. MORPHOPHONEMIC CHANGES IN THE VERB PHRASE

There are morphophonemic changes of the verb root depending upon the verb class. Verb class I has only one verb stem, but verb classes II and III each have two stems to which various morphophonemic rules apply, sometimes depending upon the phonological environment, sometimes not. The most frequent changes of the verb root occur before the preglottalized morphemes <a href="title

1. Verb class I

1.1 If the verb root has a final nasal the nasal changes into a stop, following Rule IIIa.

- 1. s im ?ti. → s iip-ti.
 - 'remember' 'remember'
- 2. $s^h \epsilon n$?ti. \rightarrow $s^h \epsilon t ti$
 - 'red' ______'red'
- 3. k^h oon ?ti. \rightarrow k^h ook-ti.
 - 'push'
- 4. k^h son k^h ay k^h ay
 - 'push' 'will push'

| | | | root is an open syllable |
|---|--|---|---|
| there | is no change who | en followed by | veri. or khay |
| 1. bú. | ?ti. | . → djano end 1 ens | bú. ?ti. |
| 'cover | • ola m <mark>idolaw</mark> dis | | 'cover' |
| 2. ts. | ?k ay | is in the second of the secon | te. 7khay |
| 'beat' | ക്കാ വരശ്ശാകൾ വര | | 'will beat' |
| | e verb root has | | owel before ?ti. or ?khay, |
| it re | syllabifies and | assimilates, | following Rule IIId. |
| 1. méw | [?] ti. | → | mək-ti. |
| | at somebody' | eal cases the | 'stare at somebody' |
| 2. ?aw | ?k hay | • • • • • • • • • • • • • • • • • • • | [?] ak-k ^h ay |
| 'broad | • 1.50 N.S. 31 | | 'will be broad' |
| | Libra, Alama Libra, Alama | | will be bload |
| 3. mbey | u dangunia. Tangunia | | mbsy?-ti. |
| | ?ti. | | |
| 3. mbsy 'feed' | ?ti. (massions) | → a final stop, | mbey?-ti. |
| 3. mbsy 'feed' 1.4 If th | ?ti. (massions) | | <pre>mbsy?-ti. 'feed' the preglottalization of</pre> |
| 3. mbsy 'feed' 1.4 If th | [?] ti. e verb root has and ^{?k h} ǎy disapr | | <pre>mbsy?-ti. 'feed' the preglottalization of</pre> |
| 3. mbsy 'feed' 1.4 If th | <pre>?ti. e verb root has and ?k ay disapp ?ti.</pre> | | mbsy?-ti. 'feed' the preglottalization of g Rule IV. |
| 3. mbsy 'feed' 1.4 If th ?ti. 1. #55p | <pre>?ti. e verb root has and ?k ay disapp ?ti.</pre> | | mbsy?-ti. 'feed' the preglottalization of g Rule IV. goop-ti. |
| 3. mbsy 'feed' 1.4 If th 2ti. 1. gʻʻp 'break | <pre>?ti. e verb root has and ?khay disapp ?ti. ' 'ti.</pre> | | mbsy?-ti. 'feed' the preglottalization of g Rule IV. gop-ti. 'break' |

2. Verb class II

There are two stems for verbs of verb class II, stem A and stem B.Stem A is realized in environment I, stem B in environment II, occurring only as a bound morpheme. No general statement of environments has as yet been formulatable.

Environment I

- 1. following personal pronouns
- 2. before way 'purpose'
- 3. before ?in 'temporal duration, conditional'
- 4. before ta. 'conditional'

Environment II

- 1. before ?ti., verb phrase final marker, present tense
- 2. before ?k ay, verb phrase final marker, future tense
- 3. before 11. 'clause coordinator'
- 4. before way 'hortatory'

| Stem A | | Stem B |
|-------------------|-------------|-------------------|
| péét | 'give' | pε- |
| ? ၁၁k | 'drink' | ? _D - |
| tuk | 'fight' | tu- |
| kyuk | 'fall' | kyu- |
| hmu? | 'meet, see' | hmu- |
| t ^h i? | 'die' | t ^h i- |

Stem A

wε. Stem B

ti. 'speak'

ti-

- 2.1 Stem A is not affected by the morphophonemic rules. With open syllables the requisite condition for Rule I does occur, but Rule I proves to be inoperative.
- 1. wε. ta. → wε.-ta.

 'to be' 'if' 'if (he) is (here)'
- 2. ti. ta. → ti.-ta.

 'speak' 'if' 'if (he) speak (s)'
- 2.2 Since stem B morphemes all contain short vowels Rule I cannot operate on them.
- 2.3 If stem B morphemes are followed by <a>?ti. or <a>?k <a>h <a>ay Rule IIIc applies.
- 1. pε- ?ti. → pεk-ti.
 'give 'give'
- 3. ti- ?kⁿay → tik-kⁿay 'speak' 'will speak'

3. Verb class III

There are also two stems for verbs of verb class III, stem A and stem B. They are realized in the same environments listed for verb class II.

| Stem A | | Stem B |
|--------|--------------|------------|
| se? | 'go' | sit |
| ۶i۶ | 'sleep' | °ip |
| boy? | 'cook' | bốốy |
| ta? | 'weave' | tak |
| ka? | 'shoot' | kaap |
| kya? | 'weep' | kyap |
| tho? | 'get up' | t^{h} św |
| ° mc | 'stay, rest' | ? Śm |

3.1 The morphophonemic rules do not apply to stem A because the syllable structures of the verb stems in environment I do not provide the required conditions.

'will hide'

- 3.2 If stem B has a final nasal it follows Rule IIb.
- ?óm
 'rest'
 rest'
 sim
 ?k ay
 ⇒
 sip-k ay

'hide'

| 3.3 If stem B has a final nasal it | also follows Rule IIIa. |
|--|---|
| 1. hním % 1. 7ti. v 10 141 → 101 mm 1 | hnip-ti. |
| *kill@orev = same bir ha sestibi | 'kill! or metropor |
| 2. dốn ?k ^h ay → | dok-k ^h ay |
| 'run' | 'will run' |
| the state of the s | |
| 3. mán $^{9}k^{h}$ ay \rightarrow | mat-k ^h ay |
| 'catch' | 'will catch' |
| • | t an expect |
| 3.4 If stem B has a final semivowe | l \underline{w} it follows Rule IIId. |
| en in <u>.</u> The second of the second of the second | r#sectors |
| 1. p ^h yów ?ti. → | p ^h yowk-ti. |
| યુકપૂર્ય | |
| 'plough' | 'plough' |
| If stem B has a final se | mivowel \underline{y} , Rule IIId is ignored. |
| 1. bốốy [?] ti. → | bốốy [?] ti. |
| 'cook' | 'cook' |
| 3.5 If stem B has a final stop it | follows Rule IV. |
| 1. tak ?ti | tak ¹ ti. 484 5 mena |
| 'weave' | |
| | 'weave' |
| | 'weave' |
| 2. kááp ?ti. → | 'weave' kaap-ti. |
| 2. kááp ?ti. → | |
| | kaap-ti. |
| 'shoot' | kaap-ti. |

Rules I, IIa, IIc, IIe, IIIb and IIIc do not apply because stem B has no open syllables or CV:N patterns, and there are no prenasalized particles in environment II.

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Footnotes

1. The data for this paper was collected in Rangoon between 1975 and 1981. It is based on the speech of Chaing So, to whom I am greatly indebted, and partially checked against the speech of others from his village.

I am grateful to Paulette Hopple, David Thomas, K.L. Lehman, Lorenz Löffler and Alfons Weidert for comments and suggestions on this paper.

2. For some related Chin languages the "B" forms have been posited as basic and the "A" forms as derived, but for Daai Chin the direction of derivation is not yet clear. In Class II "A" looks phonologically basic but in Class III "B" looks basic.