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Nopala Phonemi
Ed & Li

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Phonemics Statement- Nopala Chatino Ed & Linda Wardle

2nd draft July 6, 1975

I The Word

Carsuland . Barbara Hollenbach

The word level in Chatino is where it all happens. - States, phonemic tone, length, and nasalization are all features of the word level since they all occur only on the final syllable. Chatino words may be one or two syllables in length with the following exceptions:

lakuso? /lakuso? 'turkey'

[lakwi?ya /lakwi?ya 'hawk'

will probably eventually prove to be segguences of two morphemes. 1) some words like:

2) and some Spanish loan words such as: pelota /pelota?/ ball are three syllables in length.

Chatino speakers of all dialects "put all thier eggs in one basket" by the importance of the final syllable, and in the Nopala dialect that emphasis is so great that the rest of the word may be phonologically altered, or even dropped altogether in the speech of some individuals. This results in an uneven distribution of phonemes between stressed and unstressed syllables; fewer being found in the latter than in the former. It also results in severe limitations upon the syllable structure in the unstressed position.

Unstressed syllables are regressively de-voiced according to the following rule:

The vowel of an unstressed syllable will become voiceless if

a) the first consonant of the following syllable is voiceless (excluding glottal stop), and

b) that vowel is not immediately preceded by a nasal consonant. If such a vowel is preceded by a nasal-plus-stop sequence, the stop will also be voiceless.

\*this exception applies to the following type of words:

[sn?e] /se?e/ 'place'

[1^?og /lo?oo/ 'fence'

Snother salient feature of the Chatino word is that only like vowels cluster around glottal stop and the voiceless velar fricative. Thus it is impossible to get sequences such as:

\*[ta?o] or \*[tahe?]

Rather we find:

/ha-/ 'negation'

/-?o/ verbal additionalizer to augment meaning by with the series of the series are to a since the normal phonology of the series are to a since the series are the series are to a since the series are the serie unfamiliar with the clitic, however, it would appear that stress is falling on the penultimate syllable with a post-clitic.

In addition, phoneme combinations are possible abross these morpheme boundaries not possible within a morpheme.

#### II The Syllable

Stressed syllables pattern as follows:

zC:C+C+V:V:?

where pre-nuclear consonants may include glottal stop, and where the second vowel position simply means a phoneme of length.

Some examples are as follows:

```
CV
       /ta/ 'to give'
       laa /laa/ 'bravo, mean'
CV.
       ni? /ni?/ 'within'
CV?
       koo? /koo? / 'moon'
CV•?
       [?ia] /?ya/ 'loaded'
[snee]/snee/ 'guitar'
CCV
CCV.
       tliaa? /tlyaa?/ 'sour'
CCV.?
       Indla / ndla / dance CCC V.
Indla? / ndla? / shadow / ndlaa / apricot
       Indla /ndla/ 'dance'
CCCV
CCCV. and CCCV.? have not been encountered as yet.
```

Unstressed syllables, as mentioned under section I, are much more limited, and may take the following shapes:

In addition to the limitation on structure, there is a limitation as to which phonemes may occur here. Only /u/ and /i/ of the vowels, and 13 of the consonants distribute in unstressed syllables.

An alternate analysis would posit syllabic consonants possible in the syllable-initial position, limiting the number of non-syllabic consonants to two, in the stressed position, and one in the unstressed. This analysis would help to explain the existence of the consonant clusters on the basis of lost initial syllables, with only the consonant remaining.

[ Mala ] Shadins!

III Segmental Phonemes

We posit the following phonemes:

#### CONSONANTS

stops	bilabial p*	alveolar t d	palatal ty	labio-velar k <sup>W</sup> g <sup>W</sup>	velar k	gottal ?
affricates		ts*	tš*			
fricatives		s#	ž		h	
nasals 🦠	m∰	n <sub>.</sub>	ñ			
flap						
laterals		1	1y*			
<b>semiv</b> owels			У	W <sup>H</sup>		

VOWELS

i u \*length e o a \*nasalization (except /a/)

<sup>\*</sup> starred phonemes do not distribute in unstressed syllables.

```
III Segmentals (continued)
STOP SERIES
     All labialized phonemes are rare in Chatino, and introduced from
Spanish loan words.
        b/ m __and_in wnassimilated leans
        p/ elsewhere
     examples:
    [pii] /pii/ 'gringo' from old Spanish 'gachupin' "spurred one"
    [lapi?] /lapi?/ 'pencil' from Spanish 'lapiz'
    mblii /mblyi/ godmother from Spanish comadre
    /t/ and /d/
     The \hbar/ vs. /d/ contrast is a late one brought about by Spanish loans.
the contrast is weak, and only one pair has been found thus far to demon-
strate it:
    [nte] /nte/ 'people' from Spanish 'gente'
    [nde] /nde/ here
     Outside of this pair, we find complementation in the following manner:
        d/ m.n in syllables not devoiced
        t/ elsewhere
     Some examples follow:
                                               indaa/ 'bean'
['ndi?a]/'ndi?a/ in a little while'
    tal /ta/ to rive'
ti?al /tya?a/ water'
stil /sti/ pure'
                                                       /nti 3/
    ntilku /ntyiku/ 'eating'
     /t/ and /t^y/
                                                  snye? tia /sne? tya/ godchild stii) /styi/ machete tiUkua /tyukwa/ to sit
    [ta] /ta/ 'to give') sti) /sti/ 'pure' tUkwa /'tukwa/ 'two'
     Word-initial, /ty/ freely varies to [ky].
     /ty acquires voicing in the same environment as /t/, thus:
    [mdyii] /mdyii/ 'was toasted' [ndia] /ndya/ 'all'
```

```
III Segmentals (continued)
/k/
      /k/ also acquires voicing from its environment in the following
manner:
         /k/
             g/ m,n_voiced elements
             k/ elsewhere
       for example:
            [ngoo?] /nkoo?/ 'foam'
[ngloo] /nkloo/ 'you took out'
ngu?ni]/nku?ni/ 'is making'
                                                         [koo?] /koo?/
                                                                               'moon'
                                                                               'before'
                                                          kloo/kloo/
                                                          \ku?ni /ku?ni/
                                                                               'will make'
/g^{W}/and /k^{W}/
                                                                                /g^{W}/
          /ka/ 'to be'
                                           kua /kwa/ 'that, there' hkua /nkwa/ 'was' kui /kwii/ 'star'
 (ka (
                                                                               [ngui] /ngWi/ 'cleaned'
 kii /kii/ 'cane'
                                                                               \frac{\ngu^?_}/\ngWo?_o/ 'you wrote'
      Here we see a weak contrast between /k^W/ and /g^W/. This position
       ( n_voiced vowel) is the only point of contrast, and is /g^W/^{\bullet}s only distribution. /nk^Wa/^{\bullet}was^{\bullet} is by no means a loan word, but the con-
       trast may eventually be shown to be a result of the degree of sylla-
       bigity of the /n/ preceding /k/, as versus that of the /n/ preceding
       [E] •
/?/ Glottal stop
                                                              [ka] /ka/ 'to be'
[kula? /kula? / 'to touch'
[h]?a] /hya?a/ 'bean plant'
[?ni] /?ni/ 'animal'
      ka?]_ /ka?/
      [kula] /kula/
                         'sugar cane'
      hia / /hya/
                         '3rd person pronoun'
                                       (respectful)
                                                             | kui?o /kwi?o/ 'to drive an animal'
      kuiiu /kwiyu/ 'horse'
AFFRICATES AND FRICATIVES
                                                          /š/
       /s/
     [sti]/sti/
                       'my father'
     s^?<u>e</u>] /se?<u>e</u>/
                       'place'
                                                          _š^?<u>e</u> }/še?<u>e</u>/
                                                                              'scorpion'
                                                         [šn2] /šno/
]ši] /ši/
[šaa] /šaa/
     sn 2 /sno/
                                                                              'to run'
                       'three'
     sii /sii/
                       'butterfly
                                                                              'sweet'
                                                                              'light'
                                                          /ts/
                                                        kutši /kutši/ 'lion'
    tsi /tsi/ 'plastic' [tsa ntsi/ 'slender'
                                                         \file tki? \file tki? \file ttle bit'
                                                       A tsa ntši/7tša ntši/ 'praying mantis'
```

```
III Segmentals (continued)
FRICATIVES (continued)
/h/
                   [hi] /hi/
                                                                                           'lacks'
                  [ho?o] /ho?o/ 'god, saint'
[xItii]/hityi/ 'paper'
[xIha] /hiha/ 'tortilla'
                          /h/
                                       X/ I
h/ elsewhere
NASALS
                                                                                                                                                                             /n/
               /m/
                                                                                                                                                                                                                                                                                                                                  /ñ/
        [nde]/nde/ here
                                                                                                                                                                       (nsti)/nsti/ 'ciruela'
(nx2)/no?o/ 'house'
(sni?)/sni?/ 'dog'
(tnu)/tnu/ 'very big'
                                                                                                                                                                                                                                                                                                                       ˈto see رِيِّ أَرِيُّهُمْ الْحِيْرُةُ مِنْ الْحِيْرُةُ اللَّهِ اللَّهِ اللَّهِ اللَّهُ اللَّا اللَّهُ اللّ
                                                                                                                                                                                                                                                                                                                         [tny2]/the/ work
               /m/ is a rare phoneme, occurring in loan words and a few verb aspect
               prefixes. /n/ undergoes a morphophonemic change in fast speech to r/.
               as in the following example:
                                                                                                  (tsan2) /tsano/ | tsar2 | 'let's go'
```

LATERALS

FLAP

/r/ is another phoneme very limited in distribution, being found in Spanish loan words. As previously noted, /n/ may undergo a morphophonemic change to /r/ in certain environments.

```
[ro] /ro/ 'rice' from Spanish 'arroz'
[rbaare] /mpaare/ 'godfather' from Spanish 'compadre'
[maare//maare/ 'godmother' from Spanish 'godmother'
[ware?] /ware?/ 'we, exclusive' from [wa? nde/ 'we, excl., here'
```

### SEMIVOWELS

#### III Segmental Phonemes (continued)

#### · VCWELS

The Chatino vowel system consists of five vowels, all of which may occur with a phoneme of length, and all of which except the central may occur with a phoneme of nasalization. In unstressed syllables vowel quality is difficult to assess, usually tending to [A].

```
nasal
                                                                      length
 /i/
                                 sti/sti/ 'my father'
[kuii]/kuii?/ 'armadillo'
[taii]/ti?i/ 'I am sick'
(sti)/sti/ 'father'
                                                                      (kuii)/kWii/ 'star'
[t^?i]/ti?i/ 'sick'
                                                                     tii] /tii/ 'ten'
fti / ti/ 'only'
                                                                       length
 /e/
                                  nasal
                                [siie?]/siye?/ nose
[s^?e]/se?e/ place
[nte]/nte/ people
                                                                      \tiee \tyee \ 'head'
(tie) /tye/ 'abdomon'
[su?ue] /su?we/ good
                                                                      suuce]/suwce/ chin'
indel/nde/ here
[tilke?]/tyike?/ 'fever'
                                                                      tilkee /tyikee/ 'stomach'
 /a/
                                  length
                                 [kaa]/kaa/ hine
| skaa]/skaa/ sugar
|laa]/laa/ bravo, mean
[ka]/ka/ 'to be'
(ska) /ska/ 'one' (la) /la/ 'where'
 /o/
                                  nasal
                                                                       length
                                                                      [tloo]/tloo/ 'face' [koo?]/koo?/ 'mcon'
klo /klo/ 'to grow'
[sko?] /sko?/'chapulin'
                                 [sk<u>></u>?]/sk<u>o</u>?/ 'to tie'
                                 ?>)/?o/ exclamation
[?o] /?o/ and
 Phonetically, the Chatino /o/ is often heard as an [ou] offglide.
 /u/
                                  nasal
                                                                       length
[ku]/ku/ 'to eat'
                                  ku/ku/ owl
                                                                      kuu /kuu/ camote
                                 [hItu?]/hitu?/ 'pot'
|kwu|/kwu/ 'to bless'
                                                                      hItuu/hituu/ 'shotgun' [kwuu/kwuu/ 'tall'
tliu /tlyu/ 'big' [stiu /styu/ 'cat'
```

Lengthened, oral /u/ has not yet been found. Since /u/ is a less used vowel, we consider this simply an as-yet unfilled hole in the pattern.

Phonetically, the Chatino /u/ is often heard as an  $[u^o]$  of figlide.

IV Tone

Chatino tone is a feature of the word, and is contrastive only on the final syllable? Unstressed syllables carry a non-contrastive tone which may be identical with the final tone of the utterance preceding it in a stream of speech.

We posit the following phonemic tones:

upglide	level	downglide
21		12
32 43	2 3 4	23

These tones may be elicited after pause or after a tone /3/ in nouns and adjectives. Tone plays a heavy role in Chatino syntax, but after a preliminary study of the complex verb system no additional contrastive tones have been encountered.

Another worker in Chatino has described the sandhi system of a related dialect to be regular and progressive. After a preliminary study it appears this is probably the case with the Nopala dialect as well. It is worth noting, however, that in a list of cognate words shared between these two dialects (which have 75% intelligibility) the basic word tones differ between the two by a very high percentage.

/2/	/3/	/4/	/43/
/skwa?/ 'tree bark' /kItšaa/ 'sun' /kunc/ 'snake'	/nskwa?/ 'corn' /kwiyaa/ 'game' /skco/ 'town messen ger'	/skka?/ 'roach' /ndlaa/ 'apricot' -/tnoc/ 'spicy'	/hitaa/ 'chepiles'
/hita/ 'tobacco'	/hila/ 'cornfield'	/ndla/ 'cloud' /mdYee/ 'Nichael'	/t/cc / / /kyee/ flower
/21/	/32/	/12/	/23/
/hyo/ 'field' /lo tye/ 'abdomen'	/tho/ work hitye/ oine	/ku/ 'I'll eat' /slya?/ 'sheep'	/tšu?/ 'my back'
720 0 07 20000000	,	/tsa utš <u>i</u> / 'praying	/tnee/ 'my blood' /ndaa/ 'roadrunner'

Thus far, the only distributional restrictions encountered have been the following:

/32/ and /43/ have not been found in checked syllables /12/ has not been found on a lengthened vowel /43/ has not been found on an unlengthened vowel

<sup>1.</sup> information from Leslie Pride from his experience working with "whistle

speech" in Yaitepec.

2. "Chatino Length and Tone" Jessamine Upson Anthropological Linguistics
February, 1968.