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A guide to Tamang tone

Maria Hari

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A GUIDE TO TAMANG TONE

Maria Hari

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A Guide to Tamang Tone Maria Hari

_														
In	tro	duction	٦.	•	•	٠	•	•	٠		•	٠	•	
I	· <u>T</u>	ne Cont	tras	t 5	vst	em.		-3:						-
		Voice Tense	e Qu	ali-	ty (Con								
	2.	Pitch Conto	Cor	ntra	sus	ba	sica	all	y 1	· eve.	•			9
	3.	Suffi	xes	•			•							19
		Compo												
		Prefi												
II.		riatio												
		Impac												
		Pitch												
C-3														
201	utic	ons to	the	Te	sts									35

A <u>Guide to Tamang Tone</u>. Maria Hari

Introduction.

The purpose of this series is to make available to students of the languages of Nepal a clear summary of the tone systems involved both on tape and transcribed, together with drills and listening tests of sufficient extent to enable the student to come to passive phonetic mastery of the system within a reasonable short period of time. It is hoped that this material will be useful not only to our own people in giving them convenient vantage points from which to view their own unsolved tone problems, but that it will also be of use to visiting scholars, government officials, and others for whom mastery of these systems has practical significance. To a certain extent it will also furnish students of Tibeto-Burman languages who are unable to conduct first-hand research in this delightful and beautiful country with taped material summarizing the results of our labors in the area of tone. It may furnish scholars with a basis for interpretation and evaluation of our work as well.

Comments on any aspect of this project are welcomed and should be sent to Austin Hale, Linguistic Consultant, Summer Institute of Linguistics, Box 115, Kathmandu, Nepal.

stomach

I. The Contrast System.

1. Voice Quality Contrast.

In Tamang we have contrast between tense and lax vowels. In the pronunciation of lax vowels the Adam's apple remains lowered. This results in a larger resonance chamber at the back of the mouth and the vowel sounds relaxed and vibrant. At the same time this lax pronunciation has a lowering effect on the pitch of the vowel. In the pronunciation of tense vowels the Adam's apple is raised slightly. This results in a smaller resonance chamber at the back of the mouth and the vowel sounds tense and less vibrant. Tense articulation conditions high pitch.

Listening drill no. 1.

The following three lists present a selection of monosyllabic nouns in a frame. The first list contains only items with tense vowels, the second only items with lax vowels. In the third list we have the same items in alternation. Listen to the different voice qualities and to the effect they have on the pitch of the vowel. In orthographic transcription laxness is symbolized with an "h" after the vowel, tenseness is not marked. Thus, vowels which are not followed by "h" are tense.

First list: Tense.

pho

cú	ngala	ki yihmpa.	'This	is	my	water.
		mii				eye
		lii				face
		me				fire
		pu				pot
		rū				horn
		Tuu				sweat

cú ngala Ta yihmpa. 'This is my god.'

kaa blood

ket voice

phum egg

kang foot

prang fire stand

chyong necklace

Second list: Lax.

cú ngala gih yihmpa. 'This is my thatch.'

miih person

<u>liih</u> body

meh

<u>buh</u> field

<u>Duuh</u> six

roh friend

<u>noch</u> garlic

lah mountain

<u>daah</u> pole

mahng dream

brahng hut

<u>ngyeht</u> liver

gruhng intestines

<u>gyoht</u> language

Third list: Tense contrasted with lax.

cú ngala ki yihmpa.

cú ngala Tā yihmpa.

mii

kaa

lii

lah

gih

daah

miih

mahng

lijh

brahng

pu

prang

ru

Tuu

kang

buh

ngyeht

Duuh

gruhng

roh

gyoht

pho

ket

phum

Me

chyong

meh

nooh

Some minimal pairs.

cú ngala mii yihmpa.

cú ngala me yihmpa.

miih

meh

lii

liih

Voice quality is a characteristic of the morpheme. Laxness needs to be marked only in the first syllable of a morpheme.

<u>Listenina drill no. 2.</u>

First list: Some bisyllabic nouns, tense and lax.

thela angi mupa.

'He has an aunt.'

ama

mother

namsa

village

tungra

ginger

sanga

millet

naka

hen

tamra

beens

gohca

khukuri

gahnDu

dried raddish

guhri

cat

guhrli

bow

tree

dohngpo

bohmpo

shaman

Second list: Some trisyllabic nouns, tense and lax.

cú	thela	matyangi	yihmpa.	'This is an instrument.'
				<to butter="" make=""></to>

	100	mane	DUCCETY	
phentala			small	butterfly

thangkare	pine	kernels
	Parie	

Test no. 1.

The following is a list of monosyllabic nouns containing lax and tense items. Sort them for lax and tense voice quality, remembering that high and low pitch can be used as criterion.

,		100						
СП	ngala	pha	yihmpa.	'This	is	mv	husband.	t

sya		meat
ja		son
wa		wheat
jo		point
le		tongue
ngye		milk
suu		thigh

cú ngala mar yihmpa.

'This is my gold.'

mee

tail

rhin

bamboo

ken

rice

bam

shoulder

ngii

two

Solution see page 35.

Test no. 2.

The lax and tense contrast works the same way for adjectives. Listen to the following list of adjectives and sort them for tense and lax.

tila khriti yihnciwa. 'Was it dirty yesterday?'

kokta

crooked

cekke

little

rilto

round

bokta

old

sompo

alive

patca

thin

matca

low

yako

much

jita

small

pisku

steep <downwards>

khanto

steep (upwards)

jyaapa

beautiful

· Solution see page 35.

Listening drill no. 3.

Some minimal pairs for voice quality contrast. Word initially voiced stops occur only before lax vowels. Laxness conditions initial voicing of stops. Phonemically they are to be written using the symbols for voiceless stops. In the text orthography which we are using here, they are written using the symbols for voiced stops.

curi ngala pu mupa. 'Here is my cooking pot.'

<u>buh</u> field

ki water

gih thatch

Tuu sweat

<u>Duuh</u> six

la god

<u>lah</u> mountain

prang stand over fire

brahng place hut

thece tingi cyaaci. 'He looked today.'

thece dihngi cyaaci. 'He looked at the sun.'

thece nahmsyo waase mupa. 'He will feed tomorrow.'

waahse thresh

wase dig

wahse measure

roose bear fruit

<u>roohse</u> fry

thece nahmsyo naase mupa. 'He will carry tomorrow.'

naahse persecute

plingse fill

the nahmsyo blihngse mupa. fall

2. Pitch Contrast.

Listening drill no. 4.

Listen to the following tense pairs.

cú ngala le yihmpa. 'This is my tongue.'

e stalk

1a mouth (month)

chi god

chi fat

the cungpari ngipa. 'He goes to sell.'

cungpari

catch

tapari he all right

knock down fruit

phiipari be all right

phiipari peal

sprout

angpari tell

pangpari fall over

the syeepari ngipa. syeepari

'He goes to know.'

go (hon.)

(Recorded two times: Once at normal speed and once at slow speed.>

When listening to these pairs at normal speed we can hear that they are different but may find it difficult to tell precisely where the contrast lies. It is often helpful to listen to this kind of material at a slower speed than was used for recording, especially where pitch contours are involved. We will find that in Tamang it is most important to distinguish between a high falling and a high rising pitch, and between a fall from mid to low and a downstep to low. Slow speed will help us to locate these subtle contrasts.

Listen to the following lax pairs.

the jiihpari ngipa.

jiihpari

gahrpari

gahrpari

Duhppari

Duhppari

Dohpari

Dohpari

doohpari

doohpari

'He goes to remember.'

bite

belch

lock the door

SEW

plough, pull

SOW

be warm

return

arrive there

cú ngala ngah yihmpa.

ngeh

'This is my drum.'

five

cú ngala mabr yihmpa.

'This is my gold.'

mahr-

ghyu

The pairs above show us that there is not only a contrast between tense and lax voice quality, but within each group we have also a pitch contrast. In tense we have a high falling contour contrasting with a mid rising contour. The latter one is only slightly rising and in the contrast system it can be viewed as basically level. In lax a mid falling contour contrasts with a low slightly falling contour. In the description, the latter one is viewed as basically level. We have two contrast systems intersecting with each other: The voice quality contrast between lax and tense intersects with the pitch contrast between contour and basically level. This results in four different tone patterns. The chart below summarizes this and shows how we have chosen to mark these contrasts in the orthographic transcription.

	sharply falling	basically level
tense <relative high=""></relative>	I "\\$"	II "v"
lax <relative low=""></relative>	III "Vh"	IV ''vh''

 $\langle v = vowel \rangle$

The lists presented up to now have not been sorted for the pitch contrasts. But we realize now that this is necessary. They contain items with basically level and with contour pitch and each one has to be classified. Before looking at the following listening drills go over the preceding listening drills again and have some fun trying to identify the pitch of those items.

<u>Listening drill no. 5.</u> (Contains the same items as listening drill no. 1.) First list: Tense.

Cú ngala ki yihmpa. 'This is my water.'

mii eye

lii face

Tub sweat

kaa blood

pho stomach

II pu pot

ru horn

me fire

la god

I ket voice

phum

II kang foot

prang fire stand

chyong necklace

Second list: Lax.

III cú ngala gih yihmpa. 'This is my thatch.'

meh

bub field

III cứ ngala Dunh yihmpa.

'This is my six.'

nosh

garlic

IV

miih

person

liih

body

roh

friend

lah

mountain

daah

pole

III

ngyeht

liver

gyoht

language

IV

brahng

hut

gruhng

intestines

<u>Listening drill no. 6.</u> (Contains the same items as listening drill no. 2.)

We have already seen that voice quality is a characteristic of the morpheme, not of the syllable. The same is true for the contrastive pitch features. They spread over the one to three syllables of a morpheme.

First list: Tense.

I cú ngala angi yihmpa.

'This is my aunt.'

namsa

village

tungra

ginger

Tamang	Tone	Guide	- 14
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II cú ngala tamra yihmpa. 'These are my beens.'

naka 'This is my hen.'

sanga millet

ama mother

I matyangi instrument

tikalak lizard

II Tokoro garment

phentala small butterfly

thangkare pine kernels

Second list: Lax.

V cú ngala gohca yihmpa. 'This is my khukuri.'

gahnDu dried raddish

guhrli bow

III guhri cat

dohngpo tree

IV <u>guhcili</u> armpit

dahngsiri

III dohngkale big ape

bahykalak swallow

dahagkuluk grasshopper

<Recorded two times: Once normal and once slow.>

Test no. 3.

The following four sets are sorted for voice quality and pitch. Each set represents one group. Decide which pattern each one represents and rewrite them in orthographic transcription.

1.	cú ngala Daa yihmpa.	'This is my head carrying band'
	graa	spirit
	души	sheep
	gyam	path
	dap	needle
2.	mraa	weed
	phyaa	broom
	ku	nine
	nam	rain
	пар	nose mucus
3.	ra	goat
	sa	tooth
	mee	t/ail
	kree	crab
	phuu	fireplace
4.	Di	skin
	go	back

cú ngala bam yihmpa.

'This is my shoulder.'

byap

feather

buu

panting

<Recorded two times: Once at normal speed and
once at slow speed.>

Solution see page 35.

To this point we have concentrated mainly on nouns. The contrast system works the same way for all word classes. The list below gives us a few examples of the verbs for each group.

Listening drill no. 7.

I the s	/00 jihmci.
---------	-------------

'He has just finished

begging.'

naa

washing

ko

singing

ngon

showing

II thece hum jihmci.

'He has finished

swinging.'
putting on

roo

kuu

<a hat> bearing fruit

sor

sending

lop

learning

III dubp

picking

ngoht

calling

gluh

buying

thece bash jihmci.

sce pasti liumer.

'He has finished piling up.' sleeping

the nouh

IV the duuh

thece Daah

syahl

gyahng

the dahr

thece goh

being tired

winning

(lipnu)

threshing

trembling

understanding

(Recorded once at normal speed and once at slow speed.)

Listening drill no. 8.

We have not yet discovered any minimal sets representing all the four different patterns. The following sets each contain a minimal set of three. A nearly minimal item is inserted to represent the missing fourth member of the minimal set.

the pangpari ngipa.

'He goes to tell.'

pangpari

fall over

cahngpari

put down words

bahngpari

fight with words

the syoopari ngipa.

'He goes to beg.'

toopari

need

doohpari

return

doohpari

arrive there

the tapari ngipa.

'He goes to knock down.'

tapari

be well

dahpari

discover

nahpari

raise

the napari ngipa.

'He goes to be sick.'

lapari

do

nahpari

rest

nahpari

raise

curi la mupa.

'Here is a month.'

1a

god

1aah

flower

lah

mountain

curi nam mupa.

'Here is rain.'

nga

am I

ngah

are five

ngah

is a drum

3. Suffixes.

In a tone language we must also investigate how the suffixes fit into the tone system. We have already stated that the morpheme is the basic unit on which the contrastive pitch system operates. As suffixes are morphemes by themselves, we might expect that each suffix would have a distinctive pitch. The analysis, however, has shown that this is not the case for Western Tamang. As to their tonal behavior we have to distinguish between two classes of suffixes: distinctive suffixes and neutral suffixes. (The terms tonal for distinctive, and non-tonal for neutral are also used.)

Neutral suffixes.

In Tamang the majority of the suffixes are neutral. Their pitch is conditioned by the stem to which they are attached. An item consisting of a monosyllabic stem plus a neutral suffix shows the same pitch contour as a bisyllabic morpheme. An item consisting of a monosyllabic stem and two neutral suffixes shows the same pitch contour as a trisyllabic morpheme. This is illustrated in the following listening drill.

Listening drill no. 9.

kyucu namsa yihm-pa.

kyucu phum-ce sehng-pa-la mu-pa.

kyucu tamra yihm-pa.

kyucu cang-ce sehng-pa-la mu-pa.

kyucu dohrapo yihm-pa.

kyucu glahp-ce sehng-pa-la mu-pa.

kyucu bohmpo yihm-pa."

kyucu gruhng-ce sehng-pa-la mu-pa.

'That is a village.'

'That is made of egg.'

'That is a bean.'

'My daughter-in-law made that.'

'That is a tree.'

'The ox made that.'

'That is a shaman.'

'That is made of intestines.'

nga-la lapita mu-pa.

the ta-pa-ri ngi-pa.

'I have a Nepali shirt.'

'He goes to knock down fruit.'

nga-la Tokoro mu-pa.

the ngoo-pa-ri ngi-pa.

'I have a tokoro.' (a garment)

'He goes to tease.'

nga-la gohngkare mu-pa.

the brehm pa-ri ngi-pa.

'I have gongdare.' <kind of food>

'He goes to wait.'

nga-la dahngsiri mu-pa.

'I have a shrew.'

the bahm-pa-ri ngi-pa.

'He goes to soak it.'

The following two drills illustrate further how the pitch of neutral suffixes on verb stems and nouns is conditioned by the stem to which they are attached.

Listening drill no. 10.

Neutral suffixes on verb stems.

I nga-ce syoo-ps.

'I beg.'

sy00-ps-la.

past perfect

syoo-ri-pa-la.

past continuous

syoo-ri-pa-la-ro.

past continuous, reported speech

II nga-ce ngoo-pa.

'I tease.'

ngoo-pa-la.

past perfect

ngoo-ri-pa-la.

past continuous

ngoo-ri-pa-la-ro.

past continuous, reported speech

III nga-ce jyohr-pa. 'I make a bundle.'

jyohr-pa-la.

past perfect

jyohr-Ti-pa-la.

past continuous

jyohrs-Ti-pa-la-ro.

past continuous, reported speech

IV nga-ce myahng-pa. 'I taste it.'

myahng-pa-la.

past perfect

myahng-Ti-pa-la.

past continuous

myahng-Ti-pa-la-ro.

past continuous, reported speech

Listening drill no. 11.

Neutral suffixes on nouns (stems of one to three syllables.>

the mrang-Ti ngi-ci. I

'He went into the garden.'

mrang-Ti-ee-no

'He went into the garden too.'

namsa-ri

'He went into the village.'

namsa-ri-ce-no

'He went into the village too.'

samuntra-ri

'He went into the ocean.'

samuntra-ri-ee-no

'He went into the ocean too.'

II the-ce pha-ta pin-ci. 'She gave it to her husband.'

pha-ta-ee-no

'She gave it also to her

husband.'

ama-ta

'She gave it to her mother.'

ama-ta-ee-no

'She gave it also to her

mother. '

III cu braah-ce sehng-pa-la.

'This is made of flour.'

braab-ce-ee-no

'This is made of flour too.'

yahraga-ce

'This is made of a branch.'

yahrnga-ce-ee-no

'This is made of a branch

too.'

gohngkare-ce

'This is made of gongkare.'

gohnokare-ce-ee-no

'This is made of gongkare

too.'

IV cu miih-ce ca-ci.

'A man ate this.'

miih-ce-mi

'A man then ate this.'

bohmpo-ce

'A shaman ate this.'

bohmpa-ce-mi

'A shaman then ate this.'

dahngsiri-ce

'A shrew ate this.'

dahngsiri-ce-mi

'A shrew then ate this.'

Distinctive suffixes.

A small number of suffixes are distinctive. Their pitch is not conditioned by the stem to which they are attached, but they manifest a distinctive pitch contour throughout their distribution. Distinctive suffixes occur only with lax vowels.

<u>Listening drill no. 12.</u>

Some examples with the distinctive plural suffix "-máah".

I kyucuri ngyáhng-la anga-maah mu-pa. 'Our sisters are there.'
tapu-maah horses

II kyucuri ngyahng-la acyo-maah mu-pa. 'Our brothers are there.'

naka-maah

hens

III

meebme-maah

relatives

gahlta-mach

bags

IV

juhmi-mash

fingers

guhrli-maah

bows

4. Compound Words.

In compound words, two stems are joined together. In that case each component retains its own distinctive pitch contour.

Listening drill no. 13.

Listen first to the components in a frame:

cu the-la sung yihm-pa. 'This is his mouth.'

phii

bark

thing

floor

yaa

hand

mii

eye

cham

hair

-

+

mrap

door

joh

end, point

gahe

needle

buhlung

bug

The compound words:

the-la mii-cham mu-pa. 'He has eyebrows.'

mii-phii eyelids

mrap-sung a doorway

cham-buhlung a caterpillar

sung-phii lips

yaa-thing hand palms

yaa-joh fingertips

dabp-joh needle points

buh-cham body hair

Test no. 4.

Listen to the following echo words and draw your own conclusions.

the-ce cek-cek pin-ci. 'He gave only a little.'

the prep-prep ngi-ci. 'He went together with somebody.'

tila sim-sim nám yu-ci. 'Yesterday it was drizzling.'

the yo-yo ngi-ci. 'He went early.'

the-la syo-syo mu-pa. 'He has paper.'

the-la wahng-wahng mu-pa. 'He has a spider.'

the-la buhr-buhr mu-pa. 'He has feathers.'

<Recorded once at normal speed and once at slow speed.>
Solution see page 35-36.

5. Prefixer.

There are only two prefixes in Tamang: the two negative prefixes. They are distinctive. Normally they occur only before stems and each component retains its pitch contour.

"tha-" is used with imperatives.

"á-" is used elsewhere.

Listening drill no. 14.

the-ce tila a-pang. 'He didn't say (it) yesterday.'

the tila a-pang. fall

the tila a-bream. wait

the-ce tila a-bahng. abuse

tingi tha-pang-e: 'Don't say (it) today!'

tha-pang-o. fall

tha-brekn-o. wait

tha-bahng-o abuse

<Recorded once at normal and once at slow speed.>

II. Rules for Variation.

1. Impact of CV-patterns on Pitch Contours.

In bi- and trisyllabic morphemes certain syllable patterns cause quite drastic changes in the pitch contours. In general morpheme final syllables with CVC-patterns have a higher pitch than otherwise identical syllables with CV-patterns. In the following listening drill some examples with the normal pitch contour are given first, and then some with a morpheme final CVC-syllable.

Listening drill no. 15. Set 1.

I normal:

tila chara yihn-ci-wa?

krasu

tunca

'He was restless yesterday,

wasn't he?'

'It was steep yesterday,

wasn't it?'

'It was short ...

variation:

khapop

kyucyuk

theareng

heaped

narrow

far

normal:

cú nga-la lapita yihm-pa. 'This is my Nepali shirt.'

variation:

tikalak

lizard

Set 2.

II normal:

tila klingto yihn-ci-wa? 'It was naked yesterday,

rilto

sompo

'It was round...

wasn't it?'

alive

variation:

thenten

hoktong

phitcypr

empty

deep

outside

Set 3.

III normal:

cú the-la di meno yihm-pa. 'This is his truth.'

gor igkare

food

dohngkale

big ape

variation:

dahrakutuk.

grasshopper

Eahrkal-k

swallow

behingkulek

a bird .

Set 4.

II normal:

cú nga-la Tokoro yihm-pa. 'This is my garment.'

putali

butterfly

variation:

khentere

pheasant

sampani

small ant

Trundal

swing .

ampale

small fruit

<Recorded set by set twice: Once at normal and once
at allow speed.>

2. Pitch Variation under Intonation.

In Tamang the end of a phonological phrase is signalled by various intonational features such as intonational stress, pitch rise, and upstep in pitch on the last syllable before the juncture. For the contrastive intonation patterns of the phonological sentence it is generally also the last syllable of the sentence which

carries the heaviest manifestation of the contrast. The pitch of neutral suffixes in these positions (last syllables of phrase and sentence) is conditioned by the higher level intonation factors. Due to the structure of the language, these positions will most often be occupied by a neutral suffix, and this is very convenient. As they have no distinctive pitch they are to carry higher level intonation contrasts.

Note:

- * symbolizes a very short juncture.
- / sybolizes a longer juncture.
- # symbolizes the end of an utterance.

Listening drill no. 16.

"-teng" 'and "-ce" 'agent marker' are neutral suffixes. In the following examples observe the behavior of these suffixes before the junctures.

- co jah-teng / roh-ee / sehng-pa-la # 'The son and a friend did this.'
- co you-teng / roh-ce / sehng-pa-la # 'A chief and a friend...
- cu kola-teng / roh-ce / sehng-pa-la # 'A child and...
- cd acyo-teng / roh-ce " sehng-pa-la ≠ 'My brother...

Listening drill no. 17.

"-tall ito!

"-no" 'emphasis'

In the following utterances we have "-ta" first as last syllable before the juncture, and then as second last syllable. Observe its different behavior in different positions and the 'stretchability' of the contours.

nga-ce ~ tapu-ta / naah-ci ≠

'I chased the horse.'

nga-ce * tapu-ta-ne / naah-ci #

' chased the horse.'

nga-ce ^ paret-ta / naah-ci #

'I chased the bedbug.'

nga-ce * paret-ta-no / naah-ce #

'I chased the bedbug.'

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Tamang Tone Guide - 29
nga-ce " dahprang-ta / naah-ci # 'I chased the crow.'
nga-ce ^ dahprang-ta-ne / naah-ci # 'I chased the crow.'
nga-ce ^ buhlung-ta / naah-ci # 'I chased the bug.'
nga-ce * buhlung-ta-ne / naah-ci # 'I chased the bug.'
   Listening drill no. 18.
   "'-mi" attitude suffix <'then'>
          In the first set we have "-mi" before a long
   juncture, in the second set it occurs before a very
   short one. Observe its variant behavior in these two
   environments.
the-ce kop-ma-mi / nga ngi-oi # 'While he was throwing it
                                  up I went.'
the-ce lop-ma-mi / nga ngi-ci ≠ 'While he was learning...
the-ce jyohp-ma-mi/ nga ngi-ci #
                                               kneading
the-ce ngysh-ma-mi/ nga ngi-ci #
                                               touching it
cu ana-la-mi dihm yihm-pa #
                                 'This then is the house of
                                  my sister.'
cu ale-la-mi dihm yihm-pa #
                                     brother
cu meehme-la-mi ^ dihm yihm-pa ≠ relatives
cy bohmpo-la-mi, dihm yihm-pa ≠
                                    shaman
  Listening drill no. 19.
          'present tense affix'
          In the following drill observe the behavior
  of "-pa" before juncture and in utterance final position.
  the rung-pa / kahm-pa # 'He can watch.'
      chum-pa /
                                         hide
```

swing

hum-pa /

the hur-pa / kham-pa #

'He can throw out.'

brehm-pa/

wait

jahag-pa /

put down words

glohng-pa/

swallow

myahng-pa /

taste

"-pa" with question intonation:

the-ce rung-pa kham-pa?

'Can he watch?'

the-ce hum-pa kham-pa?

swing

the-ce bretm-pa kham-pa?

wait

the-ce myahng-pa kham-pa?

taste it

Test no. 5.

"-o" "-ko" "-w" 'imperative suffix'

Listen to the following two sets and decide whether the imperative suffix is neutral or distinctive.

tíngi naa-ko.

'Carry it today.'

pang-o.

fall

baah-w.

bring

goh-w.

understand

nahmsyo ^ tha-naa-ko,

tha-pang-o,

fall

tha-baah-w,

bring

tha-goh-w,

understand

'Don't carry it tomorrow.'

Solution page 36.

Stem morphemes before junctures.

The morphemes that most frequently occur before major junctures are suffixes. Stems, however, may also occur in this position. The following drill shows how the lexical pitch contrasts are preserved in spite of added higher level intonation features.

Listening drill no. 20.

Bisyllabic stems before juncture:

the-la kola / guhring Daah-pa # 'His child will win next year.'

the-la acyo / guhring Daah-pa ≠ brother

the-la guari / guhring Daah-pa ≠ cat

the-la bahlpe / guhring Daah-pa ≠ frog

Monosyllabic stems before juncture:

the-la pha / guhring Daah-pa ≠ 'His husband will win next year.'

the-la mii / guhring Daah-pa # eye

the-la ket / guhring Daah-pa ≠ voice

the-la maab- / guhring Daah-pa # son-in-law

the-la graah / guhring Daah-pa ≠ spirit

the-la glahp- / guhring Daah-pa ≠ ox

<u>Note:</u> A morpheme final voiceless stop shortens the intonation rise or can even cut it off completely, but its extra length is striking enough to take over the function of the rise.

<Recorded twice: Once at normal and once at slow speed.>

Test no. 6.

"-sihm" 'attitude suffix'

Listan to the following set and decide whether this suffix as neutral or distinctive.

ée-ce khrú-ko-sihm ≠ 'Then you wash.'

ée-ce hur-o-sihm ≠ throw away

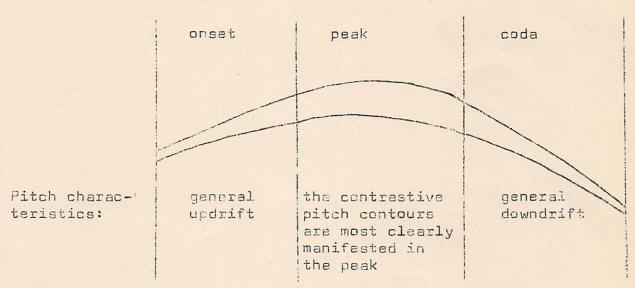
ée núuh-ko-sihm ≠ sleep

ée byuhng-o-sihm ≠ cough

Solution page 36.

Relativeness of pitch.

The pitch dimensions of a phonological sentence can be represented in the following way:



In the onset and code the pitch contrasts shrink in their dimensions as the representation attempts to show. Because of the over-riding up— and downdrift characteristic of the phonological sentence all statements about high and low pitch are relative to the point of the phonological sentence at which the pitch in question occurs. High has to be higher than low only at the same point of the phonological sentence, but can be lower than low at another point. Up to now

we have concentrated on listening to the contrasts as they are manifested within the peak of the sentence. In the following drills we also want to listen to what is going on in the margins.

Listening drill no. 21.

Listen first to the general up- and downdrift in these four sentences. Then concentrate also on listening to the four contrastive patterns of "tingi, tila, dáhrma, nahmsyo" in the onset and of "glúh-, naah-, cúng-, and cung-" in the offset.

- 1. tíngi the-ngi-máah / bohmpo-máah-ki / díhm glúh-pa-ri ngi-pa ≠ today they-pl shaman-pl-of house buy-v-v go-v
- 2. tila the-ngi-máah / bohmpo-máah-ki ^ naka-máah / yesterday hen-pl naah-pa-ri ngi-ci ≠

naah-pa-ri ngi-ci ≠ chase-v-v

- 3. dáhrma bohmpo-máah / ama-ki ^ cánu-máah cúng-pa-ri ngi-pa ≠ later mother-of wasp-pl sell-v-v
- 4. nahmsyo ngyáhng-ki ^ roh-máah / gráah-ki jah-máah / tomorrow we-of friend-pl spirit-of son-pl cung-pa-ri ngi-pa ≠ catch-v-v go-v

Free translation:

- 1. Today they go to buy the house of the shamans.
- 2. Yesterday they went to chase the hens of the shamans.
- 3. Later the shamans will go and sell mother's wasps.
- 4. Tomorrow our friends will go and catch the sons of the spirit.

Listening drill no. 22.

In the following set we have substitution in the offset of the sentence. Observe how the contrasts are manifested there, and draw the pitch contours as you hear them.

- II the tíngi phúm syóo-pa-ri ngi-pa-ro.
 - I the nahmsyo phúm syóo-pa-ri khá-pa-ro.
- III the reehlano phúm syóop-pa-ri bráh-pa-ro.
 - IV the kyu-cu phúm syóo-pa-ri sehng-pa-ro.
- II 'He will go and beg for eggs today, he said.'
 - I 'He will come and beg for eggs tomorrow, he said.'
- III 'He always walks around begging for eggs, he said.'
 - IV 'He does that in order to beg eggs, he said.'

Scutions to the Tests.

Test no. 1.

tense:	tha - husband	lax:	jah -son
	Tya - meat		wah - wheat
	ie - tongue		joh - point
	mee - tall		ngyeh - milk
	chin - bamboo		euuh - thigh
	ken - rice		mahr - gold
			bahm - shoulder
			ngyiih - two

Test no. 2.

tense:	khriti	patca	lax:	bohkta	
	kokta	matca		yáhko	
	cekke	pisku		jihta	
	rilto	khanto		jyahpa	
	sompo				

Test no. 3.

l = III	2 = I	3 = II	4 = IV
Dáah	mráa	ra	Dih
gráah	thyáa	sa	goh
gyúuh	kú	ров	be'nin
gyáhm	nám	kree	byahp
dáhp '	náp	phuu	buuh

Test no. 4.

Echo words do not fit into the pitch patterns of normal bisyllabic morphemes. They act like compound words cortaining the same morpheme twice. Morphemes with basically level pitch produce no new patterns, they could fit into the patterns of normal bisyllabic

morphemes, but morphemes with sharp falls produce strikingly different patterns, and we therefore consider echo words as compounds.

cek-cek yo-yo buhr-buhr
prep-prep syo-syo
sim-sim wahng

Test no. 5.

The imperative suffix is neutral. Its variant behavior in the two sets is conditioned by higher level intonation. The contrast can be signalled by punctuation marks.

Test no. 6.

"-sihm" is distinctive: it is low basically level <IV>. Compare its pitch contour with "maah" 'son-in-law' in listening drill no. 20.