A TAXONOMIC PHONOLOGICAL ANALYSIS OF TAGALOG AND PAMPANGO

bу

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ABSTRACT

This study is a discussion of the phonology of Tagalog and Pampango, two of the major Philippine languages. The contrastive analytical description deals both with the segmental and the suprasegmental phonemes. They are analyzed as to their form, structure, and distribution. Tagalog and Pampango phonemes are described using conventional taxonomic phonemes and allophones. The extent of the differences between the two languages with regard to phonology is discussed to point out the problems and the places where they will occur for Pampango learners of Tagalog.

The chief difficulty for the Pampango learning Tagalog segmental phonemes is that he may confuse /'/ and /h/. There are cases where he seems to substitute /'/ for /h/, although actually he does not produce the glottal sound but a "breathy glottal stop." He finds final /o/ and /u/ difficult because he makes no distinction between these two sounds. He uses them interchange ably favoring the higher vowel /u/.

All Tagalog diphthongs are missing from Pampango and they constitute a really tremendous problem for the Pampango learner. The problem is so great that he should

be taught as a top priority the diphthongs /iw/, /ey/, /ay/, /aw/, and /uy/ which are to be classed as new categories for a Pampango learner of Tagalog. Extensive drill should be given on these items.

The rising-falling pitch pattern /231 / of Tagalog will probably be a serious problem for Pampangos because of the tendency to replace it by /213 / or at best /212 /. Much drill should be given to Pampango students in this area because they are likely to carry over their intonation patterns in speaking Tagalog.

In general, the pronunciation difficulty of Pampangos learning Tagalog will arise from the systematic differences in phonological structure between the two languages, such as differences between the phonemic inventories, differences in the phonetic realization of phonemes which are being learned by the students, and differences in the distribution of the phonemes which occur in both languages.

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SYMBOLS USED IN THE ANALYSIS

SYMBOL	EXPLANATION
<i>C</i> ', <i>J</i>	Glottal Stop
vd7	Voiced
_vl7	Voiceless
Ľ ' J	Primary Stress
L*J	Tense Vowel
[.]	Lax Vowel
∠•	Length
$\mathcal{L}\cdot\mathcal{J}$	Syllable Boundary
∠ ↑_ Z	Rising Juncture
$\angle \downarrow \mathcal{J}$	Falling Juncture
$\angle I J$	Sustained Juncture
a	Low Front Tense Unrounded
c	Consonant
	Vowel

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CHAPTER I

THE PROBLEM AND DEFINITIONS OF TERMS USED

One of the basic considerations in teaching Tagalog pronunciation to students should be exhaustive comparison of the sound system of Tagalog with the sound system of the language of the learner. This means that before a teacher attempts to teach Tagalog pronunciation to students in, say, the Pangasinan region, or the Visayan islands, or the Bicol peninsula, she must first familiarize herself with the sound system of that particular vernacular area and compare it with that of Tagalog. The reason for this is obvious. Such a comparison will reveal what sounds of Tagalog are different from, or are not found in, the learner's own language, and as a consequence, will prove difficult for this learner. The teacher can then concentrate on these difficult sounds and base her drill material on them. In this way she saves precious time which she otherwise would have used in teaching sounds already known and mastered.

Most programs for training teachers in second language techniques make rather specific provision for acquainting the teacher-to-be with the methods of comparing languages, even to the point of requiring her to do a

certain amount of contrastive analysis on her own. Unfortunately, however, the analysis is not done in sufficient detail nor is it pursued far enough to provide information about the distribution problems. Hence the resulting analysis cannot be used as a basis for judging the phonological problems of her students.

This study, therefore, is an attempt to make a phonological analysis of Tagalog and Pampango, two of the major Philippine languages. Both languages belong to the Indonesian or Western branch of the Malayo-Polynesian (or Austronesian) family of languages. Spoken by 4,068,565 people, language, now being taught in the schools. As in the case with all languages, Tagalog and Pampango are spoken in a variety of dialects in different localities, each dialect having its own peculiar and distinctive characteristics.

The analysis of Tagalog described here is mainly based on Tagalog as spoken in Manila, Quezon City, and Pasay City. These cities constitute one single speech community of Tagalog, the dialect with which the writer is most conversant. The sound system is approximately

Census of the Philippines, 1939, Vol. II, (Mani-la: Bureau of Printing), p. 333.

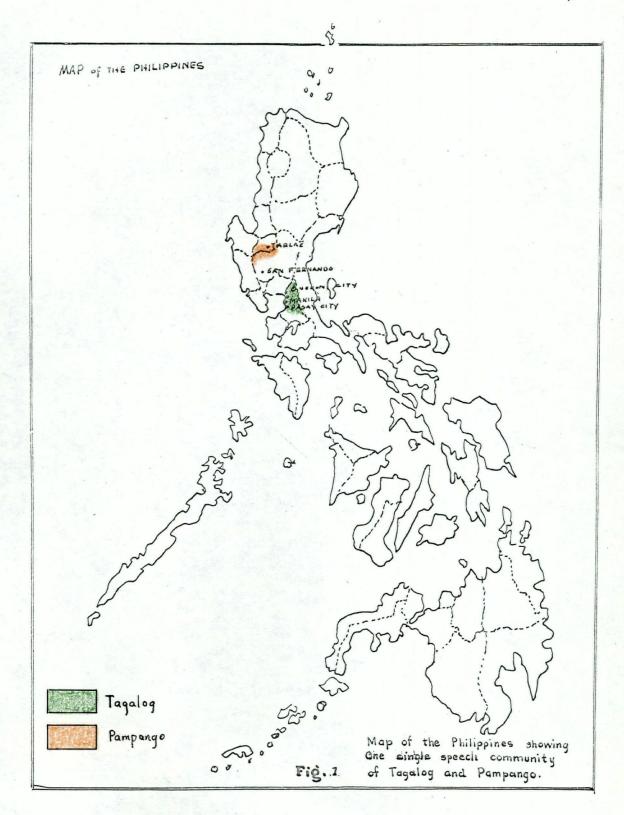
identical with that taught in the schools.

Pampango, on the other hand, is spoken in Pampanga and in Tarlac, two adjacent provinces in Central Luzon. The people who speak it in Tarlac are found mostly in the southern, eastern, and central towns which are near the province of Pampanga. The dialect chosen as the basis of the present study is that of Pampango spoken in the capital town of Tarlac, in the central section of the province, Figure 1.

This study will try to analyze the phonetic elements of the two languages as to their similarity and difference, that is, the segmental and suprasegmental phonemes will be described as to their form, structure, and distribution.

I. THE PROBLEM

Statement of the Problem. Students studying Tagalog, native or non-native to the language, have complained of its difficulty as a subject. There must be many causes relative to this complaint. The investigator is of the opinion that two of the principal causes are (1) that the mistakes of the learner result from his tendency to transfer the sounds and patterns of his own language over to the target language; and (2) that when a mistake occurs



no attempt is made to examine the structures of the two languages in order to find the point of conflict that accounts for the mistake. This study is therefore designed with three purposes in mind:

- 1. To describe and analyze the phonology of Tagalog and Pampango.
- 2. To determine the extent of the differences between the two languages with regard to phonology.
- 3. On the basis of these analyses, to point out the problems and the places where they will occur for Pampango learners of Tagalog.

Importance of the Study. This study is intended to help those skeptical about the theory of applied linguistics to understand and appreciate the points of emphasis in the teaching of Tagalog as part of the language arts program in Philippine schools; to provide textbook writers with a sound theory on which to base materials and series of lessons aimed at enabling the student to overcome his difficulties in learning Tagalog. The hierarchical arrangement revealed in this phonological analysis will further provide an understanding of how much effort will be needed to overcome the said difficulties.

II. DEFINITIONS OF TERMS USED

For purposes of this study the following terms are used with the meanings hereby defined:

Phonological analysis is the identification of the phonic elements and the classification according to their $\stackrel{2}{\text{\fontfamily}}$ function in the language.

Contrastive analysis is the method of utilizing the processes of comparison, differentiation, and selection of the elements under examination with an eye to placing them together in such a way that their differences are obvious. It is the contrast between the student's language and the target language (that is, the one he sets out to learn), determined by analysis.

Phonology is a cover term embracing phonetics and phonemics. It shall be interpreted as a study which sets out to determine the phonetic distinctions in a given language and establish the system of phonemes.

²André Martinet, <u>Elements of General Linguistics</u> (London: Faber and Faber Ltd. 1964), p.54.

Carter V. Good and Douglas E. Scates, <u>Methods of Research</u>: <u>Educational</u>, <u>Psychological</u>, <u>Sociological</u> (New York: Appleton-Century-Crofts, Inc., 1954), p. 277.

Wilson Francis, The Structures of American English (New York: The Ronald Press Company, 1958), p. 244.

<u>Phonetics</u> is the study which deals with sound features or qualities and their organization into speech sounds, or phones.⁵

 $\frac{\text{Morphophonemics}}{\text{Morphophonemics}} \text{ is the alternation of phonemes}$ within a given morpheme. It bridges the gap between the morphological and the phonemic levels of a language.}^{7}

 $\underline{\text{Distribution}}$ refers to the whole set of environments in which a linguistic form, including a speech sound, appears. 8

A <u>native speaker</u> of a language is a person who has spoken the language since birth.

In this thesis an informant is the native speaker of a language who supplies information on the language being studied.

bid.

S Ibid.

Robert A. Hall Jr., <u>Introductory Linguistics</u> (New York: A Division of Chilton Company, 1964), p. 138.

⁸H. A. Gleason Jr., An Introduction to Descriptive Linguistics (New York: Henry Holt and Company, 1955), p. 56.

The <u>major languages</u> among the eighty-nine spoken in the Philippines are Tagalog, Sugbuhanon (Cebuano), Samar-Leyte, Bikol, Iloko, Pangasinan, Pampango, and Hiligaynon, Figure 2.

Sources of Data. The corpus for the investigation of Tagalog and Pampango was obtained from the following native speakers (the informants) who have uttered the items found in the text, and a number of speakers on tape recordings:

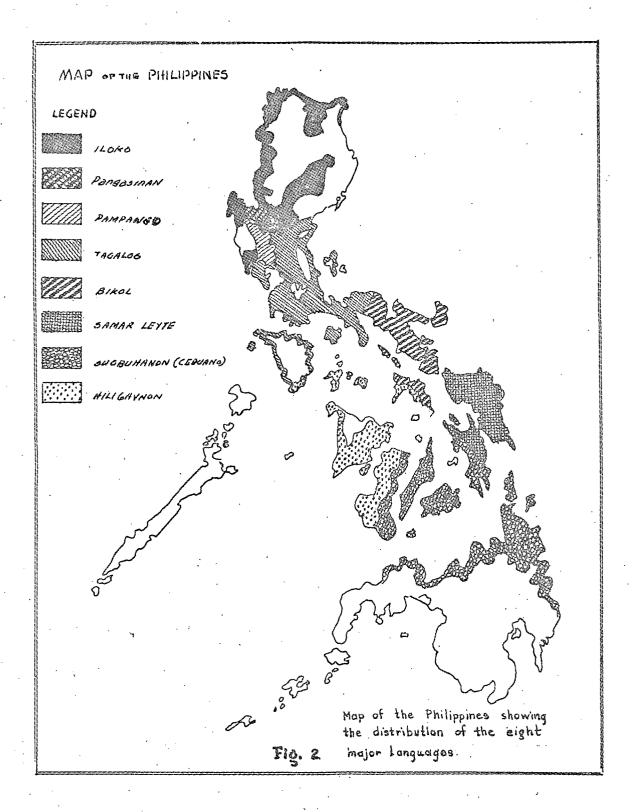
- 1. Tagalog Mrs. Candida N. Protacio, Pilipino Supervisor, Division of Quezon City.
- 2. Pampango Mrs. Librada Limjoco-Coquia, Teacher, Eulogio Rodriguez Jr. High School, Quezon City.

Mrs. Corona Simbul, Teacher, Eulogio Rodriguez Jr. High School, Quezon City.

Other sources of information include the articles by Cayari, Reyes and Paterno, and studies conducted by R. P. Stockwell, T. Anderson and I. Tabasondra.

Method of Study. The method used in this study is contrastive analytical description. Samples of utterances in both Tagalog and Pampango were examined and described

⁹Philippine Bureau of Census, <u>Handbook of Philippine Statistics</u>, <u>1903-1959</u> (Manila, Bureau of Printing, 1960), Table 13, p. 13.



to determine the similarities and differences of the phonology. For this procedure, there were two checks made: every cited utterance was checked with at least one native speaker to determine whether he would accept it as a possible utterance or whether it could be elicited from him or not. The significant sounds and sound features of the language were listed and all possible variants of each phoneme were described. The sounds observed were classified and represented with a set of graphic symbols having a one-to-one correspondence with the sound it represents. The Tagalog and Pampango segmental and suprasegmental phonemes were classified on the basis of form, distribution, and arrangement. Then Tagalog was compared with Pampango from the standpoint of phonology.

Organization of Remainder of the Thesis. The data gathered are presented, described, and summarized in Chapters II and III of this work. The contrastive analysis is described in Chapter IV, and the fifth and last chapter gives the summary and conclusions based on the analysis of the problem and the data presented.

CHAPTER II

TAGALOG PHONOLOGY

Tagalog has the following phonemes: twenty-one segmental phonemes, sixteen consonant sounds and five vowel sounds, /p, b, t, d, k, g, '(glottal stop), h, s, m, n, n, l, r, w, y; i, e, a, o, u/; two phonemes of stress, primary /'/, and weak (unmarked); three phonemes of pitch, low /l/, mid /2/, and high /3/; three terminal junctures: rising juncture /1/, falling juncture /4/, and sustained juncture /1/; a phoneme of length, represented by /·/, and a phoneme of internal open juncture, transcribed by a space.

The symbols chosen to represent the vowels and consonants of Tagalog are all drawn from the writing tradition of Philippine languages with the exception of the glottal stop. This consonant is represented in Tagalog in a variety of ways: (1) at the beginning of words and between vowels it may be presented by implication; (2) within a word when it follows a consonant, it is represented by a hyphen; (3) at the end of a word it may not be represented at all, or it may be signalled by some kind of accent mark on the last vowel, depending on the style of writing. The glottal stop is represented consistently by one symbol in all positions, a raised comma.

Vowel length is represented by a dot after the vowel. Examples of the glottal stop in various positions are:

(1)	ako	/a 'koh/	'I'
	00	/', o' oh/	'yes'
	aalis	/'a'a'lis/	'will leave'
		•	-
(2.)	nag-aral	/nag''aral/	'studied'
	pag-ůho	/pag'u'ho'/	'pouring grains'
	pag-ibig	/pag',ibig/	ilove'
		~	er er
(3)	luha	/'luha'/	'tears'
	bata	/'bata'/	ichildi
	baga	/'baga'/	'lung'
	baga	/ba'ga'/	'tumor'

It will be noticed that final /h/ is written in the transcription, reflecting the actual structure of Tagalog. This is illustrated by the following pairs of words:

bali /ba'li'/ 'broken'

ganda	/gan'dah/	'beauty'
gandahan	/ganda'han/	beautify
	•	-
luha	/'luha'/	'tears'
luhaan	/luha'an/	'tearful'
	••	
balik	/ba'lik/	'return'

balikan /bali'kan/ 'to return'

The suffix /-an/ is added to the stem, and an alternate suffix form /-han/ is unnecessary in the case of words like gandahan, because the /h/ is actually present in final position on the base form. The analysis which includes initial and final occurrences of the glottal stop and /h/ makes possible a very simple and consistent statement of Tagalog syllable structure, i.e., /CVC/. This is discussed in detail under the section syllable structure.

THE TAGALOG VOWELS

Historically Tagalog had a three-vowel set /i/, /a/, /u/ with lower allophones of the two high vowels distributed so that the lower allophone occurred in any syllable immediately preceding a juncture, and with the lowering extending back to the next syllable if it was separated from the last one only by a / 1/.

According to Bloomfield Tagalog has a three-vowel set, allowing each phoneme a range all the way from positions of high vowels to positions of lower mid vowels. Cayari states that the phoneme /i/ has two submembers

Leonard Bloomfield, Language, (New York: Holt, Rinehart and Winston, 1964), p. 105.

/i/ and /e/. /i/ high front close unrounded alternate with /e/ mid front close unrounded vowel in word-final position - (lalaki - lalake) 'man', (bibi - bibe) 'duck', (ubi - ube) 'yam', (gabi - gabe) 'taro tuber plant'. /u/ has two submembers: /u/ and /o/. /u/ alternates with /o/ in word-final syllables - (putul-putol) 'cutting': (baku-bako) 'rugged'; (sapul-sapol) 'since'. But in a great many Tagalog words, /i/ and /u/ do not alternate with /e/ and /o/. Informant-opinions for the present work would not allow such variations and alternations in all cases, so it was necessary to conclude that there are now five vowel phonemes, /e/ and /o/ along with the original three, Figure 3. There are, it would appear, dialects with only three vowels in some provinces. Apparently the speech-community on which this study is based does not belong in this category. Since the present description of Tagalog phonology is aimed toward a comparison with the phonology of Pampango, it is obvious that the basis of comparison should be those of Tagalog speakers who make five vocalic distinctions.

Tagalog vowels are generally of uniform length.

²Remedios M. Cayari, "The Phonemes of Tagalog", <u>The Philippine Journal of Science</u>, (June, 1956), pp. 249-255.

STRESSED

	Front	Central	Back
	Unrounded	Unrounded	Rounded
High	i		u .
Mid	е		0
Low		a	

UNSTRESSED

	<u>Front</u>	<u>Central</u>	Back
	Unrounded	Unrounded	Rounded
High	I		ัน
Mid	е		0
Low		a	

FIGURE 3

Tagalog Vowel Chart

Lengthened variants, however, may occur under strong stress. All vowels take on nasal coloration before a nasal consonant. Regardless of quality or segmental environment, Tagalog vowels are tense under strong stress, lax under weak. They are pronounced with the tongue, jaw, and lips in practically the same position from the beginning to the end of the vowel. In the following description of individual vowels, therefore, no special diacritics will be used to indicate degree of tenseness.

The description of the five vowels, with examples, follows:

- $\angle i$. This front vowel of Tagalog in the present corpus shows the following allophonic variants: $\angle i$, $\angle i*$, $\angle I$, and $\angle i$.
- (a) _i_7 is high front tense unrounded under stress except in a final syllable and end of a word, and after a glottal stop.

isa		/'i'sah/	'one'
pilas	<pre> ∠ pilas_7</pre>	/'pilas/	'rip'
pito	/Tpitoh_7	/'pitoh/	'whistle'
tibagan	∠!tibagan_7	/'tibagan/	'place of exca-
	<u>.</u>	•	vation'
kilos	/kilos_7	/'kilos/	'movement'

bihis	[Tbihis_7	/'bihis/	'the dress one
	•		wears'
bilang	[bilan_7	/'bilan/	'number'
bisa	<pre>_ to bisa'</pre>	/'bisa'/	'efficacy'
dila	<pre> _ 'dila' _ </pre>	/'dila'/	'tongue'
giting	[gitin]	/ˈgitiŋ/	'heroic quality'
sibol	sibol	/sibol/	'bud'
higing	/higin_7	/inigin/	'tone'
hilig	/hilig_7	/hilig/	'inclination'
minimo	minimoh	/ minimoh/	'minimum'
libangan		/ˈlibaŋan/	'recreation'
libingan	<pre> ∠¹libiŋan_7 </pre>	/ˈlibiŋan/	'burial ground'
limi	_Timl'	/'limi'/	'attend to reflec-
	.		tively'
libot	Tlibot	/'libot/	'environment'
ripa	_Tripah_7	/'ripah/	'lottery'
c			-

(b) \int i* \int is lower high front unrounded slightly raised under stress in a final syllable and before a glottal stop.

imbi		/'im'bih/	'mean'
impis	im'pi*s	/'impis/	'deflated'
isis		/'i'sis/	'scrubbing'
aligi		/'ali'gih/	'fat'

```
/pi 1/1 * t 7 / pi 1/1 t / pi 1/1 / pi 1/2 / pi 
piit
                                                                                                                                      'cornered'
                           _ta'ki*p_7 /ta'kip/
                                                                                                                                     'cover'
takip
                                  /ti'',i*m_7 /ti'',im/
tiim
                                                                                                                                       'gritting' the teeth'
                            'because'
kasi
                           _ku'li*g_7 /ku'lig/
                                                                                                                                    'young pig'
kulig
                                  /ba'',i*t 7 /ba'',it/
                                                                                                                                    'goodness'
bait
                           _ba'li*k_7 /ba'lik/
                                                                                                                                    'return'
balik
                                /bi'', i*k / /bi'', ik/
                                                                                                                                      'young pig'
biik
                                 _bil'bi*l_7 /bil'bil/
                                                                                                                                      'dropsy'
bilbil
                       [sa',i*d] /sa',id/
                                                                                                                                       'exhausted'
said
sungkit /sun'ki*t/ /sun'kit/
                                                                                                                                       'hook for picking
                                                                                                                                         fruits'
mandin /man'di*n / /man'din/
                                                                                                                                       'apparently'
'put away'
                              /li'', i*t_/ /li'', it/
                                                                                                                                      'smallness'
liit
                           _la''i*n_7 /la''in/
                                                                                                                                       'dried'
laing
                                 /la'si*n 7 /la'sin/
                                                                                                                                       'drunk'
lasing
                                     /la'wi*t_7 /la'wit/
                                                                                                                                      'sticking out'
lawit
```

(c) Lower high front lax unrounded [I_7] varies freely with high front lax unround [i_7] under weak stress except before /y/ and /n/ where [i_7] occurs, and except in final syllables where only [I_7] occurs.

ilalim		/'i'lalim/	'bottom'
anim	anim7	/''anim/	'six'
atin	[,atin_7	/''atin/	iours!
panig	[Tpanig_7	/'panig/	'panel'
tubig	[tubig]	/itubig/	waterî
tulin	_tulin_7	/'tulin/	speed
kanin	_Tkanin_7	/'kanin/	'cooked rice'
kapit	[kapit_]	/'kapit/	'hold'
kati	[katrh]	/'katih/	low tide!
kikil	<u>/ˈkikīl_/</u>	/'kikil/	file'
bibi	_Tbibth_7	/'bibih/	duck
bahid	_Tbahid_7	/'bahid/	'stain'
batis	_Tbatis_7	/'batis/	'spring of water'
dapit	/dapit_7	/'dapit/	solemn religious
	-	•	ceremony'
galit	_ galrt	/'galit/	'anger'
sigasig	_si'gasrg_7	/si'gasig/	'persistence'
siping	siprn7	/'sipin/	seated next to
	• •	•	each other!
labis	_Tabis7	/'labis/	'excessive'
istupado	<u> </u>	/istu'padoh/	'a dish'
kaniya	_kani yah_7	/kani yah/	his or her!
baling	/balin_7	/'balin/	iturn'
daing	/dain_7	/idain/	'dried fish'

dormitoryana /dormitor'yanah/ 'female resident of a dormitory'

The four allophones of /i/ are in completely non-contrastive distribution, partially in free variation and partially in complementary distribution.

/u/. The phoneme /u/ is best considered next because of the similarity of its allophonic alignment to that of /i/. /u/ shows three allophonic variants: $\angle u$, $\angle u^*$, and $\angle u$. These allophones have distributions similar with those of /i/.

(a) /u/ is a high tense rounded vowel under stress, except in a final syllable.

pugad	[Tpugad_7	/'pugad/	'nest'
pula	[Tpula']	/'pula'/	'adverse criticism'
puri	purih_7	/'purih/	'honor'
tunay	tunay_7	/itunay/	itrue'
kunat	[tkunat]	/'kunat/	'resiliency'
kupi	_ku'pt'	/ku'pi'/	'folded'
buhawi	[buhawth]	/'buhawih/	'waterspout'
buho	[buho']	/'buho'/	a species of
	<i>-</i> -		bamboo'

```
/'bunot / /'bunot/
bunot
                          'uprooting'
       __dukot__7 / dukot/ 'kidnapping'
dukot
       dulang
     /gulok / /gulok/
gulok
                          'bolo'
       [sugo'] /'sugo'/ 'delegate'
sugo
       [sulat] /sulat/ 'letter'
sulat
hugis / hugis / hugis/ 'shape'
       /mulawin/ 'mulawin/ 'molave tree'
mulawin
musika / musikah / music'
numero / numeroh/ 'numeroh/ 'number'
       /ˈnuso'/ 'nuso'/ 'the labial circle'
nguso
      /'lugay / 'lugay / 'fallen off'
lugay
       /rutah / rutah/ route'
ruta
       /ˈyumi'/ 'tenderness'
yumi
```

(b) $\sqrt{u^*}$ is a lower high back tense rounded vowel, slightly raised under stress in a final syllable. It is in free variation with \sqrt{u} after a labial consonant.

```
/ku'yu*m 7 /ku'yum/
kuyum
                               'closed'
         /bailu*n / /bailun/
balun
                               'balloon'
         /bam'bu*h/ /bam'buh/
                               'club or cudgel'
bambu
       /ba''u*l 7 /ba''ul/ 'chest'
baul
        /bu*kas/ 'tomorrow'
bukas
         _bu'ku*d_7 /bu'kud/ 'separate'
bukud
         /gul'gu*1 7 /gul'gul/ 'by-product'
gulgul
         _suk'su*k_7 /suk'suk/ 'inserted in a
suksok
                                scabbard'
sumpong _sum'pu*n_7 /sum'pun/ 'whim'
         (c) [u] a high back lax rounded vowel
varies freely with lower high back lax rounded _u_7
under weak stress except in final syllables.
         _pun'tas_7 /pun'tas/ 'lace'
puntas
         _pusa'kal_/ 'completely addict-
pusakal
                                ed!
         _put'haw_7 /put'haw/ 'small axe'
puthaw
         _tug'nas_7 /tug'nas/ 'melted'
tugnas
         _tun'do'_/ /tun'do'/ 'prick'
tundo
         _ku'tob_7 or _ku'tob/ 'pulsation'
kutob
```

/bu'bon 7 /bu'bon/ 'roof'

_bug'nos_7 or _bug'nos/ 'disen-

tangle'

bubong

bugnos

```
/bu'kal / /bu'kal/ 'spring'
bukal
        _du'rog_7 or _du'rog/ /du'rog/ 'crushed to
durog
                              pieces'
        /guk'gok/ or /guk'gok/ 'grunt of
gukgok
                              pigs'
       _gulu'god/ or _gulu'god/ /gulu'god/ 'spine'
gulugod
gunting /gun'tin / /gun'tin/ 'scissors'
    /gu'pit_/ /gu'pit/
                             cut'
gupit
subyang /sub'yan/ 'splinter'
sumbat \[ zwm'bat_\] /sum'bat/ 'reproof'
supling /sup'lin/ 'progeny'
    _su'son_7 /su'son/ 'second layer'
suson
hungkoy /hun'koy/ 'winnowing bellows'
muntik _mun'tik_7 /mun'tik/
                             'almost'
musmos /mus'mos/ 'immature of mind'
lumpiya / Tumpi'ya'/ 'meat and vegetables
                             packed in starch
                              wrapper'
        /Iu'not/ /lu'not/
                             'overripe'
lunot
        /lu'pig/ /lu'pig/
                             'vanquished'
lupig
```

In final syllables /u/ alternates morphophone-mically with /o/ more frequently and regularly than does /i/ with /e/.

- /a/. The phoneme /a/, the most common of Tagalog vowels, shows three allophonic variants: low central tense unrounded /a/; low front tense unrounded /a/; and higher low central lax unrounded /a*/.
- (a) Low central unround \(\int \alpha \) occurs under stress except before \(/y \) and \(/w \) in the same syllable. It is the same under weak stress except when the weak stressed syllable is flanked on both sides by syllables of stronger stress, either \(\frac{1}{2} \) or \(\frac{1}{2} \).

```
/i'yak / /i'yak/ 'cry'
iyak
       ['aba'lah] /'aba'lah/ 'busy'
abala
     /'ak'las / /'ak'las/ 'strike'
aklas
agahas / aga has / 'aga has / 'sound or noise'
paniki / paniki' / 'bat'
parang / paran/ 'meadow'
kasal /ka'sal / /ka'sal/ 'wedding ceremony'
balangkas /balan'kas / /balan'kas/ 'framework'
      /bu'kal / /bu'kal/ 'natural; inherent'
bukal
dilag /di'lag/ 'splendor'
     [gan'sal] /gan'sal/ 'odd number'
gansal
     ['sahod_7 /'sahod/ 'receptacle'
sahod
hagkan /hag'kan/ 'to kiss'
      /hi'yas / /hi'yas/ 'gem'
hivas
        /'makinah/ 'makinah/ 'machine'
makina
```

/'nariritoh 7 /'nariritoh/ naririto 'here' /labak 7 /la'bak/ 'depression labak on the surface of the ground' /'lamay 7 /'lamay/ 'night vigil' lamay /lan'tah 7 /lan'tah/ 'withered' lanta (b) <u>[a]</u> low front tense unrounded under stress before /y/ and /w/ in the same syllable. /bala'nay/ /bala'nay/ balangay 'sudden death' /kam'pay 7 /kam'pay/ 'gesture of the kampay hands' /gala'may 7 /gala'may/ 'legs of a crab' galamay _ ka'way_7 /ka'way/ 'waving of the kaway hand' [lan'tay] /lan'tay/ 'pure' lantay [ma'may 7 /ma'may/ 'nurse' mamay [pani may] /pani'may/ 'anaesthesia' pangimay _bala'naw_ /bala'naw/ 'rainbow' balangaw /bala'raw 7 /bala'raw/ 'dagger' balaraw /ga'law 7 'movement' /ga'law/ galaw [dalaw 7 /'dalaw/ 'visit' dalaw __di'law_7 /di'law/ 'yellow' dilaw _hi'law_7 /hi law/ 'uncooked' hilaw

```
/a'le*roh 7 /a'leroh/
                               'eaves'
         /'pe*kas 7 /'pekas/
                                'freckles'
pekas
     /[te*lah/ or /[telah/ 'fabric']
termino / te*rminoh or / terminoh / terminoh / term'
        /ke*soh / /kesoh/
                                  'cheese'
keso
        /ke*ton_/ /keton/
                                  'leprosy'
ketong
       /ba'ba'e*h / /ba'ba'eh/ 'woman'
babae
depensa /de'pe*nsah/ /de'pensah/
                                  'defence'
      /'dwe*ndeh_/ /'dwendeh/
                                  'dwarf'
dwende
       'war'
gera
        /'se*boh_/ /'seboh/
                                  'tallow'
sebo
      /se*lan / /selan/
                                  'delicacy'
selang
        /he*koh / /hekoh/
                                  'dark sauce'
heko
         /he*peh / /hepeh/
                                  'chief'
hepe
         / he*roh_/ / heroh/
                                  'brand'
hero
```

Tagalog vowels /i/ and /e/ are phonemes and at the same time allophones of the other half of the pair. In the Tagalog words /mesah/ 'table' and /misah/ 'mass', /e/ and /i/ are distinct phonemes since their alternation produces a difference in meaning. But in many cases the alternation of /e/ and /i/ does not make any difference in meaning. The words /dinih/and /dine/ meaning 'here' are both understood to mean 'here' and can be used interchangeably, in the same way as /Ta'lakih/ or /Ta'lakeh/ would not make any difference to a Tagalog speaker. In this particular case /e/ and /i/ are allophones in free variation of the phonemes /i/ and /e/.

/o/. The allophones of this phoneme are not phonologically predictable. Mid back tense rounded /o*/ and higher low back tense rounded /ɔ/ are in free variation under any stress.

```
/'u'lol/ /'u'lol/
ulol
                              'crazy'
         /'us'bon/ 'sprout'
usbong
         /'pohas / /'pohas/
                              'sheet'
pohas
         /po*sporoh/ 'match'
posporo
         /pu'lo*' 7 /pu'lo'/ 'island'
pulo
         /'to*kwah/ 'tokwah/ 'pressed soy-bean'
tokwa
         /to*poh / /topoh/
                              'call for time out'
topo
         /'ko*lerah/ 'kolerah/ 'cholera'
kolera
         /komikah / /komikah/
komika
                              'comic'
baluktot /baluk'to*t/ /baluk'tot/ 'curved'
balugbog /balug'bog/ 'nape of fowls'
         /ba'po*r 7 /ba'por/
                              ship'
bapor
         /'bo*lah / /'bolah/
bola
                              'ball'
                   /iborlas/
         /borlas 7
borlas
                              'tassel'
         \sqrt{do} 'on/
                              there'
doon
         /'sobreh/
                              'envelope'
sobre
         /moldeh/
                              'mold'
molde
         /ni'to*h / /ni'toh/
                              of this'
nito
         /ni nuno*,7 /ni nuno'/
                              'ancestor'
ninuno
         \sqrt{\text{no}} 's h \sqrt{7}
                    /no oh/
                              'forehead'
noo
         /'lonah/
                              canvas:
lona
         /lo "ok/
                              ibay'
look
         /'loteh/
                              'parcel of land'
lote
         /ro*ndah/ /rondah/
                              'patrol'
ronda
```

. Minimal contrasts among all the vowels of Tagalog are abundant. A few involving contrast of /o/ with one of the vowels are listed below:

```
['boteh/ 'bottle' / bottle' / bottle' / vote'
[lahad] / lahad/ 'opening' / lahod/ 'mucus-
                           like substance'
__hilah_/ 'hilah/ 'pull'
                    /hiloh/ 'dizzi-
                                   ness'
                    \sqrt{da'loh/} /da'loh/ 'attend-
[da'lah] /da'lah/ 'bring'
                                   ance!
/kasah/ 'firm'
                     /'kasoh/ /kasoh/ 'case
                                in court'
                     /kapah/ /kopoh/ 'all
/'kapah/ 'cup'
                                 taken!
/'basoh/ 'basoh/ 'glass' /'busoh/ 'sea
                                 diver'
/haban/ /haban/ 'while'
                     /habon//habon/ 'tem-
                               porary'
_bu'ni'/ 'toothless'_bu'no'/ 'bu'no'/'skull'
[hulo'] /'hulo'/ 'source [hula'] /'hula'/'guess'
           of a stream'
```

Sub-minimal contrasts are also found in Tagalog as illustrated below:

THE TAGALOG DIPHTHONGS

The vowels of Tagalog are classified as simple vowels and diphthongs. The simple vowels are those pronounced with the vocal organs remaining more or less in one position throughout the utterance of the vowel sound.

A diphthong is defined as a binary nucleus that functions like a simple vowel. They are complex vowels made up of simple vowels gliding into /y/ or /w/ in the same syllable. The diphthongs found in Tagalog are /ey, ay, oy, uy, aw, iw/.

The diphthong /uy/ in unstressed position may take a lower variant /u/. In most unstressed syllables in rapid speech, Tagalog /ay/ within phrases alternates with /ey/, sometimes with /e/. In the production of

Tagalog /oy/, the tongue starts slightly higher than for /o/ and normally moves up to the position for /y/.

	Front	Central	Back
High	iw		uy
Mid	еу		oy
Low		ay aw	

FIGURE 4

Tagalog Diphthongs

The Tagalog diphthongs (shown in schematic form in Figure 4) are illustrated in the following examples:

sisiw	/'sisiw/	'chick'
giliw	/'giliw/	'darling'
baliw	/ba'liw/	'crazy'
reyna	/'reynah/	'queen'
may	/mey/	'there is, are'
peyneta	/pey'netah/	'shell comb'
kaylan	/'keylan/ or	/'kelan/ 'when'
tayka	/'teykah/ or	/'tekah/ 'wait'
inay	/'i'nay/	'mama'
bahay	/'bahay/	'house'

```
/'pugay/ 'to salute or greet'
pugay
         /su'way/
                     'disobedience'
suway
         /tag'lay/
                    'borne'
taglay
         /sa'kay/
                   'passenger'
sakay
                     'broth'
        /sa baw/
sabaw
                     'uncooked'
hilaw
        /hi law/
        /'hikaw/ 'earrings'
hikaw
        /gu'silaw/ 'eyeshade'
gusilaw
        /bi'naw/
                     'notch'
bingaw
        /si'law/ 'glare'
silaw
         /hov/
                   an answer to a call'
hoy
        /luy'loy/
                    'hanging loosely'
luyloy
        /'baboy/ 'pig'
baboy
                    'dimples'
         /'biloy/
biloy
        /si'yukoy/
                    'merman'
siyukoy
        /'airuy/
                     'ouch'
aruy
         /ka suy/
                     'cashew'
kasuy
```

THE TAGALOG CONSONANTS

Like those of most other languages, the consonants of Tagalog can be grouped with equal ease into either "orders" or "series". The basis of the grouping, in other words, can be either the point or the manner of articulation. The Tagalog consonantal system lends

itself to arrangement into five orders -- bilabial, dental, palatal, velar, and glottal -- and seven series -- voiceless stop, voiced stop, nasal, fricative, trill, and semivowel.

As in the case of the vowels, a chart can be set up representing the relative positions of the articulations of the various consonants (Figure 5). In such a chart, the horizontal dimension represents the various points of articulation; and the vertical dimension, the different manners of articulation, beginning with stops and ending with semivowels. Voicing may be considered as a third dimension, normally shown by the symbols vl for voiceless sounds, and vd for voiced sounds.

Voiceless Stops. The voiceless stops of Tagalog are /p/, /t/, and /k/. The most common variant of each is an unaspirated tense stop - bilabial in the case of /p/, dental in the case of /t/, and velar in that of /k/. Tagalog /p, t, k/ are unaspirated, whether in stressed or unstressed syllables. The allophones have unrestricted distribution. The phoneme /k/ shows one allophone: a back velar voiceless spirant, occurring intervocalically. The intervocalic condition is met wherever the flanking segmental phonemes are vowels, regardless of the presence of open juncture between

Manner of		Point of Articulation				
Articulation		Labial	Dental	Palatal	Velar	Glottal
Stops	vl	р	t		k	,
	vd	ъ	đ		, 50	
Fricative	vl		S	4		h
Nasals	vd	m	n		ŋ	
Lateral	v d		1			
Trill	vd		r	-		
Semi- Vowels	vl	W		У		

FIGURE 5
Consonant Chart of Tagalog

one of the vowels and /k/. The Tagalog voiceless stops occurs in all three positions in words as illustrated below:

pikot	/'pikot/	'besieged;	ambush'
pekas	/'pekas/	'freckles'	

```
pako
          /'pako'/
                        'nail'
          /'pahah/
                        'girdle; band'
paha
                        'dug-out'
          /'posoh/
poso
          /pu'gon/
                        'stove'
pugon
          /'punay/
                        'lambency of the eyes'
pungay
          /'purih/
                        'honor'
puri
          /'posporoh/
                        'match'
posporo
                        'bouquet'
          /pum'pon/
pumpon
          /'hagap/
                        'general notion'
hagap
          /'salap/
                        'small fishing net'
salap
          /lu'palop/
                        'any place or land'
lupalop
          /'tibay/
                        'enduring strength'
tibay
          /'timog/
                        'south'
timog
          /'temah/
                        'theme'
tema
          /'tabas/
                        'style of cut'
tabas
          /'tali'/
                        'twine'
tali
          /'tabo'/
                        'coconut shell scoop'
tabo
          /'tomoh/
                        'volume'
tomo
                        'tower'
          /'toreh/
tore
          /'tukod/
                        'prop; bracket; support'
tukod
          /'tulog/
                        'sleep'
tulog
          /tik'tik/
                        'detective'
tiktik
          /tugitog/
                        'sound of music'
tugtog
          /'lapat/
                        'well adjusted'
lapat
```

balat	/ba'lat/	'skin'
kamot	/'kamot/	scratch'
kabag	/ka'bag/	gas pain'
kola	/'kolah/	glue'
kupas	/ku'pas/	'discolored'
kikil	/'kikil/	file!
kimkim	/kim'kim/	'held in the fist'
kadkad	/kad'kad/	'spread out'
kaka	/'kakah/	'eldest uncle or aunt'
kakak	/'kakak/	'cackling of hens, ducks'
kokak	/'kokak/	'cry of the frog'
kugkog	/kug'kog/	echo of sound through
		water'
salaksak	/salak'sak/	'puncture'
hayok	/ha'yok/	'weak with hunger'
lagok	/la [°] gok/	'gulp'

<u>Voiced Stops.</u> /b, d, g/ are voiced lenis unaspirated stops. The allophones [b], [d], and [g], except for the vibration of the vocal bands throughout their articulation, correspond in position to their voiceless counterparts. /b/ is bilabial, /d/ is dental and /g/ velar. The articulation of /g/ is not as far back as /k/. All the three occur initially, medially, and finally.

The phoneme /d/ is rather rare intervocalically, because of frequent morphophonemic alternation with /r/ in that position. /d/ and /r/ alternate freely after pause or open juncture in almost all native words: sa daan /sa 'da'an/ or /sa 'ra'an/ 'on the road'; dadating /'dadatin/ or /'daratin/ 'coming'; padaan /pa'da'an/ or /pa'ra'an/ 'may I pass'. In some words formed by affixation, the initial _d_7 of the root changes to _r_7 when the prefix ends with a vowel. Similarly, final _d_7 becomes _r_7 when the suffix added starts with a vowel.

Prefix

_di'lag/ di'lag/ 'splendor' : _mari'lag/ /mari'lag/ 'lustrous beauty'

_dag'dag/ dag'dag/ addition' : _parag'dag/ parag'dag/ 'ask for an addition'

Suffix

```
The /b, d, g/ series is illustrated below:
bikas
        /'bikas/
                     'posture'
        /'biho*n/ 'white rice noodles'
bihon
                     'sales'
        /'bentah/
benta
        /'batak/ 'pull'
batak
                     'broken'
         /ba'sag/
basag
        /ba'ba'eh/
                     'woman'
babae
babag /'babag/ 'collision; impact'
baboy
         /'baboy/ 'pig'
                     'cutting through'
         /ta'lab/
talab
        /'i'gib/ 'a trip of water carrying'
igib
                     'pot support'
         /di'kin/
dikin
                      'idle talk'
         /'digah/
diga
        /'dakoh/
                     'direction'
dako
         /'dali'/
                      'inch'
dali
         /'doteh/
                      'dowry'
dote
      /'duloh/
                      'end'
dulo
                      'addition'
         /dag'dag/
dagdag
                     'backward kick'
tadyak /tad'yak/
                      'ribs'
tadyang /tad'yan/
         /ta'bad/
                      'process of blood letting'
tabad
         /tad'tad/
tadtad
                      'minced'
```

```
/'gilin/
giling
                          'grinding'
                          'mark of breakage'
           /'gahi'/
gahi
           /ga'la'/
                          'having the wanderlust'
gala
           /'gatas/
                          'milk'
gatas
           / gaton/
                          'fuel'
gatong
           /'gotoh/
                          'ox or cow tripe'
goto
           /'lagi'/
                          'always'
lagi
           / hagin/
                          'buzzing sound'
haging
           /'hagis/
                          'throw: cast'
hagis
           / hagad/
                          'pursuer'
hagad
           / hagok/
                          'snore'
hagok
                          'all-inclusive'
           /lagom/
lagom
           /bag'bag/
                          'broken up'
bagbag
           /la'pag/
                          'the space below'
lapag
           /'sipag/
                          'industriousness'
sipag
           /mat'yag/
matyag
                          'to observe'
```

Some minimal contrasts between the voiced stops and their voiceless counterparts follow:

```
/p/ /b/
/'pahid/ 'wiping off' vs /'bahid/ 'stain'
/'palin/ 'slope' vs /'balin/ 'turn'
/'pala'/ 'grace' vs /'bala'/ 'threat'
/pa'nas/ 'tiredness' vs /ba'nas/ 'sultriness'
/pan'law/ 'gloomy' vs /ban'law/ 'first rinsing'
```

```
/pan'tay/ 'same height' vs /ban'tay/ 'guard'
        /t/
                                     /d/
/ta'an/ 'long lines
                        vs /da''an/ 'way'
      for inland water-
      fishing'
/ta'ga'/ 'incision'
                        vs /da'ga'/ 'rat'
/ta'has/ 'direct'
                        vs /da'has/ 'force'
                        vs /da'kip/ 'arrested'
/ta'kip/ 'cover'
/'takôh/ 'stopper'
                        vs /'dakoh/ 'direction'
/ta'moh/ 'acquire'
                        vs /da'moh/ 'grass'
                        vs /pan'day/ 'blacksmith'
/pan'tay/ 'same height'
                        vs /'hilod/ 'scrubbing of
/'hilot/ 'midwife'
                                     skin'
        /k/
                                    /g/
                       vs /'gaya/ 'imitation'
/'kaya/ 'able'
/'balak/ 'plan'
                        vs /'balag/ 'trellis'
/'kayas/ 'act of shaving vs /'gayas/ 'inlaid work'
         off'
/ka'hol/ 'bark of the vs /ga'hol/ 'lacking in time'
         dog'
                        vs /ga'pok/ 'rotten inside'
/ka'pok/ 'cotton'
```

Nasals. The nasal series /m/, /n/, and $/\eta/$ are voiced nasal continuants, that is, in their production the air-stream escapes freely through the nose without

interruption or audible friction. /m/ is bilabial. It is produced with the lips forming a closure; the soft palate is lowered; the tongue generally anticipates or retains the position of the adjacent vowel. /n/ is dental. It is produced with the tip of the tongue against the back of the upper teeth. /n/ is velar. A closure is formed in the mouth between the back of the tongue and the velum, adding the resonance of the nasal cavity to that of the pharynx and that small part of the mouth chamber behind the velar closure. /m/, /n/, and /n/ distribute similarly in all three positions, initial, medial, and final. When in final position, they are all unreleased. Illustrations follow:

```
/mad'la'/ 'all; everyone'
madla
maginoo /'magino'oh/ 'gentleman'
         /im'pok/
                      'savings'
impok
malikmata /malik'matah/'transfiguration'
         /ma'mad/ 'softened and swollen'
mamad
          /'lagom/
                     'all-inclusive'
lagom
          /nam'nam/ 'savor'
namnam
         /ni'nuno'/ 'ancestor'
ninuno
         /na'man/
                     'also: too'
naman
          /nu'nal/
                      'mole'
nunal
          /mun'ti'/
munti
```

/lala'munan/	'throat'
/sa'lon/	'large hall'
/'ŋikih/	'chills'
/'nalan/	'name'
/na'lot/	'crushed by chewing'
/ŋit'ŋit/	'rage; fury'
/'nono'/	one who speaks as if
•	the nose is closed'
/ŋuy'ŋuy/	'sulky'
/da'iŋ/	'lamentation'
/kam'biŋ/	'goat'
/ninin/	'brilliance'
/la'laŋ/	'ruse; trick'
/lagun'log/	rumbling sound of fall-
	ing waters'
/'sakoŋ/	'heel bone'
	/sa'lon/ /'nikih/ /'nalan/ /na'lot/ /nit'nit/ /'nono'/ /nuy'nuy/ /da'in/ /kam'bin/ /nin'nin/ /la'lan/ /lagun'lon/

Assimilation. Tagalog nasals /m/, /n/, and /ŋ/
alternate before labial stops, dental stops, and velar
stops. Thus, any of the nasal consonants may tend to become /m/ before /p, b/; /n/ before /t, d, l, r, s/ and
/ŋ/ before /k, g, h, y, w/. Assimilations may occur
within words and word boundaries but are more generally
observed in the former case. Morphemes /aŋ/ and /'baro'/

morphophonemically becomes /am'baro'/ 'the dress'; morphemes /bu'kaŋ/ and /bi'big/ becomes /bukambi'big/ 'favorite expression'; morphemes /la'biŋ/ and /dala'waḥ/ becomes /labindala'wah/ 'twelve'.

Lateral. The phoneme /l/ is a voiced lateral, articulated with the tongue tip touching the alveolar ridge. The tongue is relatively straight and flat from the tip to the root. /l/ is substantially the same whether alone with a vowel or forming a cluster with consonants like, /p, b, k, g/ in loan words. It occurs in all three positions in words. They are illustrated below. The Tagalog /l/ is of a "light", front resonance type:

labak	/la'bak/	'depression on the
	•	surface of the ground'
labanos	/laba'nos/	'radish'
lakas	/la'kas/	'strength'
lagim	/la'gim/	'gloom'
lahok	/la'hok/	'mixture'
lalim	/'lalim/	'depth'
klima	/'klimah/	'climate'
dalaga	/da'lagah/	'unmarried woman'
lalaki	/la'lakih/	'man'

/'plakah/	'record'
/'klaseh/	class'
/'blakbord/	'blackboard'
/arig'ladoh/	'fixed'
/'globoh/	'globe'
/'blokeh/	block
/'gloryah/	glory
/tu'loy/	come in'
/'kalyeh/	'street'
/ma'hal/	'expressive'
/ka'sal/	'wedding'
/'bawal/	'forbidden'
	/'klaseh/ /'blakbord/ /arig'ladoh/ /'globoh/ /'blokeh/ /'gloryah/ /tu'loy/ /'kalyeh/ /ma'hal/ /ka'sal/

Trill. /r/ is a voiced apico-alveolar trill. The tip of the tongue is raised and lightly touches the alveolar ridge as the out-going breath stream sets it into momentary vibration. The soft palate is raised. At the beginning of stressed syllables, at the end of words, and at the end of syllables followed by another syllable starting with a consonant, /r/ taps the alveolar ridge producing a sound that is a little longer and a more noticeable vibration. Preceding a short unstressed syllable, it may be little more than a single tap. In isolated Tagalog words, it occurs mostly in medial position, never initially or finally, except in proper names and

loan words. In consonant clusters, /r/ is generally a trill, that is, a succession of taps by the tip of the tongue on the alveolar ridge. The phoneme is illustrated below:

riles	/'riles/	'rails of train'
regalo	/re'galoh/	'gift'
regla	/'reglah/	'rule'
rehas	/'rehas/	'railing'
reto	/'retoh/	challenge'
raha	/'rahah/	'rajah'
dril	/'dril/	strong cloth'
krimen	/'krimen/	'crime'
kris	/'kris/	'Malayan dagger'
prito	/'pritoh/	fried'
kapre	/'kapreh/	'evil genie'
premyo	/ipremyoh/	'prize'
preno	/'prenoh/	'brakes'
libre	/'libreh/	'free; gratis'
sobre	/'sobreh/	'envelope'
reserba	/ri'serbah/	'reserve'
drama	/'dramah/	'play'
grado	/igradoh/	'class mark'
dragon	/dra'gon/	'dragon'
trapo	/'trapoh/	'cleaning rug'

```
grano /'granoh/ 'grain'
trahe /'traheh/ 'suit of clothes'
litro /'litroh/ 'liter'
torta /'tortah/ 'full-sized omelet'
ruler /'ruler/ 'ruler'
senador /sina'dor/ 'senator'
mayor /ma'yor/ 'elder'
```

Semivowels. Tagalog has two semivowels or glides, /y/ and /w/. The phoneme /y/ is produced with the front part of the tongue raised toward the hard palate. The lips are unrounded or in a neutral position depending upon the following sound. The velum is raised. It occurs at the beginning and middle of words in the syllable-initial position, and generally only before \sqrt{a} , \sqrt{o} , and \sqrt{u} . In loan words it occurs before \sqrt{e} .

yabag	/ya'bag/	'sound of footfall'
yabo	/ya'boh/	'fruit flesh'
yakal	/ya'kal/	'lumber'
yamot	/ya'mot/	'annoyance'
yapos	/ya'pos/	'embrace'
уоуо	/'yoyo'/	'toy'
yuko	/yu'ko'/	with bowed head'
yugto	/yug'to'/	'division or act in
		a stage play'

/yu'pi'/ 'dent' yupi yungib /yu'ŋib/ Loan Words /'yemah/ 'yolk' yema /'yeroh/ 'galvanized iron' yero /'yesoh/ 'chalk' yeso /'yeloh/ 'ice' yelo

/w/ is produced with the lips rounded and the back of the tongue arched toward the velum which is raised. /w/ occurs only before _a_7 and _i_7 at the beginning and in the middle of words, and before _e_7 in loan words. Illustrations follow.

wika.	/'wika'/	'language'
tawid	/'tawid/	'crossing or act of
	-	crossing'
wisik	/wi'sik/	'sprinkled softly'
wilig	/wi ['] lig/	water sprinkled on
		cloth'
windang	/win'daŋ/	'torn to shreds'
welga	/'welgah/	'strike'
tawa	/'tawah/	'laugh'
wawa	/'wawa'/	'mouth of a river'

tawad	/'tawad/	'forgiveness'
tawag	/'tawag/	'call; summons'
wagas	/wa'gas/	'pure'
wahak	/wa hak/	'rent or ripped longi-
	-	tudinally'
wakas	/wa'kas/	'end'
wala	/wa'la'/	'none'
wari	/'wari'/	'it seems'
wasto	/was'to'/	'correct'

Fricatives. Tagalog has two fricative phonemes: /s/ and /h/. In the articulation of /s/, the tongue blade is raised toward the alveolar ridge, the sides of the tongue come into contact with the gums, but the blade is free. /s/ may therefore be characterized as a shallow-groove alveolar fricative. /s/ is unrestricted in its distribution as illustrated below:

sabad	/sa'bad/	'interruption in some-
	-	one's speech'
sabaw	/sa'baw/	'broth'
saglit	/sag'lit/	'instant moment'
sakdal	/sak'dal/	'very'
sakim	/sa'kim/	'avaricious; selfish'
pasa	/pa'sah/	'bruise'

sasa	/sa'sah/	'nipa palm'
pasag	/pa'sag/	'wiggle'
tasak	/'tasak/	'stab with a poniard'
labas	/la'bas/	'outside'
paspas	/pas'pas/	'gust of wind'
tastas	/tas'tas/	'unstitched'

/h/ is a glottal fricative. The vocal bands do not vibrate but are brought close together. As the breath is exhaled, a slight frictional sound is audible. It occurs at the beginning, middle, and end of words.

habol	/'habol/	'hurry to overtake'
hagibis	/ha'gibis/	'rapidity'
halaw	/ha'law/	'selected'
hanip	/'hanip/	'chicken flea'
hangad	/ha'nad/	'purpose'
hapdi	/hap'di'/	'excruciating pain'
sahig	/sa'hig/	'floor'
pihikan	/pi'hikan/	'fastidious'
masahista	/masa'histah/	'masseur'
maharlika	/mahar'likah/	'noble'
paha	/'pahaĥ/	'straw'
pahalaga	/pahala'gah/	'evaluation'
taho	/ta'hoh/	'ginger tea'

Glottal Stop ///. In the production of the glottal stop the glottis between the vocal bands is tightly closed, stopping the air column coming from the lungs. The air pressure below the glottis is released by the sudden separation of the vocal bands. The glottal sound occurs at the beginning, within, or at the end of a word as the following examples show:

```
ibig /',ibig/ 'wish, want'
Initially:
              /',asoh/ 'dog'
         aso
               /i, oras/ hour!
         oras
              /pa''ah/ 'foot'
Medially:
         paa
         saad /sai'ad/ 'stated'
         paano /pai,anoh/
                          'how'
         hindi /hin'di'/
Finally:
                           'no: not'
         baha /ba'ha'/ 'flood'
                /ak'ma'/ 'fitted'
         akma
```

The glottal stop is distinctive in word-final position as shown by the minimal pairs below³:

```
/'bagah/ 'glowing coal' vs /'baga'/ 'lungs'
/'batah/ 'bathrobe' vs /'bata'/ 'child'
/pi'lih/ 'twisted' vs /pi'li'/ 'selected'
```

The orthographic form of these pairs is the same: baga, baga, etc.

/pu'tih/ 'picking flow- vs /pu'ti'/ 'white'
ers by cutting'
/sa'lah/ 'interwoven strips vs /sa'la'/ 'broken'
of bamboo'
/sa'loh/ 'cupping support' vs /sa'lo'/ 'mechanical
from under' catch'

In a stream of speech the word-final glottal stop is generally weakened or lost, unless it is in sentence initial and final position. The loss of the glottal stop lengthens the vowel before it. The lengthened vowel often changes to a higher variant if it is /o/.

Umupo ka. / umu'pu kah / 'umu'pukah / 'sit down'

Hindi na. / hin'di nah / / hin'dinah / 'never mind'

Uuwi siya. / u'u'wi si'yah / 'u'u'wisiyah / 'he is going home'

CONSONANT CLUSTERS

Tagalog consonant clusters occur initially, medially, and finally. Their occurrence is mostly in loan words which have become an integral part of the language. The initial consonant clusters found in Tagalog are:

/pl, pr, pw, py, ts, tr, tw, ty, kl, kr, ky, bl, br, bw, by, dr, dy, gl, gr, gy, sw, sy, hw, hy, nw, ny, ny, lw,

ly, rw, ry/.

Examples of the clusters summarized above appear below:

/pl/	plaka	/'plakah/	'disk'
	plorera	/'plorerah/	'flower base'
/pr/	premyo	/'premyoh/	'prize'
	prenda	/'prendah/	'pledge'
/pw/	pwede	/'pwedeh/	'possible'
	pwesto	/'pwestoh/	'stall'
/py/	pyano	/'pyanoh/	'piano'
	pyansa	/'pyansah/	'bail'
/ts/	tsuper	/itsuper/	'chauffeur'
	tseke	/'tsekeh/	'check'
/tr/	trahe	/'traheh/	'suit'
	trapo	/'trapoh/	'rug'
/tw/	twid	/'twid/	'straight'
	twerka	/'twerkah/	'nut'
/ty/	'tyan	/'tyan/	'belly'
	tyaga	/tya'ga'/	'enduring'
/kl/	klabo	/'klaboh/	'cloves'
	klase	/'klaseh/	'class'
/kr/	kris	/'kris/	'dagger'
	krema	/kremah/	'cream'
/ky/	kyapo	/'kyapo'/	'water plant'
		_	

/bl/	bloke	/'blokeh/	'block'
	blusa	/'blusah/	'blouse'
/br/	braso	/'brasoh/	'arm'
	brilyo	/'brilyoh/	'lustre'
/bw/	bwag	/'bwag/	'demolished'
	bwis	/'bwis/	'tax'
/by/	bya	/'bya'/	'a kind of fish'
	byahe	/'byaheh/	'trip'
/dr/	dragon	/dra'gon/	'dragon'
	drama	/'dramah/	'drama'
/dy/	dyan	/'dyan/	there
	dyanitor	/'dyanitor/	'janitor'
/gl/	globo	/'globoh/	'globe'
	glorya	/'gloryah/	'glory'
/gr/	graba	/'grabah/	gravel'
	grasa	/'grasah/	'grease'
/gy/	gyera	/'gyerah/	'war'
/sw/	swelas	/'swelas/	'sole'
	sweldo	/'sweldoh/	'salary'
/sy/	sya	/'syah/	he or she'
/hw/	hwes	/hwes/	'judge'
	hwisyo	/'hwisyoh/	'trial'
/hy/	hya	/'hya'/	shame'
/nw/	nwebe	/'nwebeh/	'nine'

```
/ny/
       nya
                       /'nyah/
                                        'his or her'
                       /'nyaw/
/ny/
       nyaw
                                        'meow'
                                        'spaciousness'
/lw/
                       /'lwag/
       lwag
       lwalhati
                       /lwal'hati'/
                                        'glory'
                       /'lyabeh/
                                        'wrench'
/ly/
       lyabeh
/rw/
                       /'rwedah/
                                        'wheel'
       rweda
                       /'rwinah/
                                        'ruins'
       rwina
                                        there
/ry/
                       /'ryan/
       ryan
```

The medial and final consonant clusters found in Tagalog are: /ks, ns, rd/. Illustrations follow:

```
/ks/
       ekstra
                    /'', ekstrah/
                                      'extra'
                    /'eks'klusiboh/
                                      'exclusive'
       eksklusibo
                    /'ekskursi'yoh/
       ekskursiyon
                                      'excursion'
                    /'eks'pres/
                                      'express'
       ekspres
                                      'exponent'
                    /'ekspo'nenteh/
       eksponente
                                      'exploitation'
                    /'eksplotas'yon/
       eksplotasyon
/ns/
                    /'instru'mentoh/
                                      'instrument'
       instrumento
                    /'institus'yon/
       institusyon
                                      'institution'
       instruksiyon
                    /'instruksi'yon/
                                      'instruction'
                                      'inspiration'
       inspirasyon
                    /'inspiras'yon/
                    /'instalas'yon/
                                      'installation'
       instalasyon
                                      'instinct'
                    /'ins'tintoh/
       instinto
                    /'insti'tutoh/
                                       'institute'
       instituto
```

/rd/ kard /kard/ 'card'

SYLLABLE STRUCTURE

The symbols enclosed in parenthesis may or may not occur. When two syllables are combined in a single word, the structure is /CV(C)CV/. The Tagalog syllable pattern has CV(C) structure where CV never occurs in final position. Thus, no utterance in Tagalog begins or ends with a vowel: /pra.'ne.lah/4 'flannel', /ka.'tas/ 'juice', /'ba.lah/ 'bullet', /'lu.ha'/ 'tears', /'trak/ 'truck'.

The Tagalog syllable can be defined then as the domain of a single stress, may begin with a consonant or with a consonant cluster, and may end with not more than two consonants. It contains a single vowel and requires a final consonant in all final syllables. A single intervocalic consonant is always part of the syllable of the vowel that follows it: /'hu.la'/ 'guess', /la.'gok/ 'gulp', /'lo.teh/ 'parcel of land', /'si.noh/ 'who', /'si.neh/ 'cinema', /'tu.kod/ 'prop', /''u.tos/

⁴The dot on the baseline indicates syllable boundary. Word final /h/ and /'/ are dropped in utterance medial position.

'command', /'ka.tig/ 'outrigger', /bu.'kal/
'inherent'.

When one of the syllable clusters occurs intervocallicaly, the first consonant ends one syllable and the second begins the next. Thus /'ek'semah/ 'eczema' is syllabified /'ek.'se.mah/; /'ek'samen/ 'examination' becomes /'ek.'sa.men/; /'eksibis'yon/ 'exhibition'-/ek.si.bis.'yon/; /'eksami'nadoh/ 'investigator' -/ek.sa.mi.'na.doh/; /'ek'semted/ 'exempted' -/ek.'sem.ted/.

Three or four consonant intervocalic sequences split into a syllable-final consonant cluster and a syllable-initial cluster or single consonant. Thus /''ekstrah/ 'extra' is syllabified /''eks.trah/; /''ekspres/ 'express' - /''eks.pres/; /'eksplos'yon/ 'explosion' - /'eks.plos.'yon/; /'ekspo'nenteh/ 'exponent' is syllabified /'eks.po.'nen.teh/. If two consonants that cannot form a cluster occur intervocallicaly, the first is syllable-final, the second syllable-initial: /bak'lad/ 'fish corral' - /bak.'lad/; /tag'hoy/ 'lament' - /tag.'hoy/; /bug'bog/ 'noisy clubbing' - /bug.'bog/; /sintam'lay/ 'lack of interest' - /sin.tam.'lay/.

When in word-formation affixes or reduplicative

syllables are added to a root, the syllable division is as in a simple word: /'ak'latan/ 'library' is syllabi-fied /'ak.'la.tan/; /tak'buhan/ 'running a race' - /tak.'bu.han/; /'a'mihan/ 'north wind' - /'a.'mi.han/; /'inu'min/ 'drink' - /'i.nu.'min/; /'a'ak'yat/ 'will climb' - /'a.'ak.'yat/; /pa'pasok/ 'will go to school' - /pa.'pa.sok/.

When vowels would otherwise meet, they are separated by the non-distinctive intervocalic glottal stop:

/ma'a''ari'/ 'possible' is syllabified as /ma.'a.''a.ri'/;

/pa''alam/ 'good-bye' - /pa.''a.lam/; /ma'a'noh/ 'some
thing'indefinite which may not be understood between

speakers' - /ma.'a.'noh/; /ga''anoh/ 'how much'
/ga.''a.noh/; /baba'eh/ 'female' - /ba.ba'.'eh/.

When a word is doubled or when words come together in a phrase, the word division is maintained as a syllable division. Doubled words and compound words are similarly treated: /'a'kay'akay/ 'led by the hand', i.e. /'a.'kay. 'a.kay/; /ba'kubako'/ 'crooked', i.e. /ba.'ku.ba.ko'/; /'pataypatay/ 'sluggish', i.e. /'pa.tay.pa.tay/; /'bahay-kuboh/ 'small house' (compound of bahay 'house' and kubo 'small'), i.e. /'ba.hay.ku.boh/; /'a'nak'araw/ 'albino' (compound of anak 'offspring' and araw 'sun'), i.e. /'a.'nak.'a.raw/.

TAGALOG SUPRASEGMENTAL PHONEMES

In addition to the vowels and consonants, the inventory of elements that make up the pronunciation of the Tagalog and Pampango languages must include phonemes of stress, pitch, and juncture. The allophones of the vowel and consonant phonemes are the segments of sound which occur sequentially to make up morphemes and wordforms in the language uttered. The features of stress, pitch, and juncture, occur along with the vowels and consonants, often coinciding with or marking off longer stretches of speech. Stress, pitch, and juncture are so closely related that it is difficult to present one without discussing all three.

STRESS

A sound or syllable which is stressed is one in the articulation of which there is expended a relatively great effort and muscular energy. Tagalog has two degrees of stress: primary and weak. Primary stressed syllables are marked with the symbol /'/ before the syllable; weak-stressed syllables are unmarked. Phonetically

⁵A. C. Gimson, <u>An Introduction to the Pronunciation</u> of <u>English</u> (London: Edward Arnold Publishers Ltd.), p. 217.

there is a third degree of stress, midway between primary and weak. This secondary degree of stress, which lacks phonemic status, is a conditioned variant of weak stress, occurring only in closed syllables not followed by juncture. The secondary accent has an intermediate degree of stress and ordinarily lacks the pitch-rise. Thus, the first syllable of /'batah/ 'robe' is strongly stressed and the first syllable of /ba'tah/ 'endure' has second-ary stress: __,ba'tah_7.

In Tagalog, one of the main components of stress is vowel length. A stressed vowel is pronounced longer than the same vowel unstressed. The position of the primary stress very often determines the meaning to be assigned to a word. The phonemic character of Tagalog stress may be demonstrated by such pairs as the following:

/'a'soh/ 'smoke' /',asoh/ 'dog' aso aso vs /ku'lob/ 'whatkulob /'kulob/ 'pro-VS kulob ever' ducing more heat' /'bilog/ 'round- vs bilog /bi'log/ 'round' bilog ness' /ba'ba'/ 'descent' /'baba'/ 'chin' baba baba /'bagah/ 'glow-/ba'gah/ 'particle vs baga baga ing coal' used in questions'

```
batak
       /'batak/
                  'pull' vs
                             batak /ba'tak/
                                              'stretched'
                  'life'
buhay
       /'buhay/
                         VS
                             buhay
                                    /bu'hay/
                                              'alive'
       /'bukas/
                  'tomor- vs
                             bukas /bu'kas/
                                              'open'
bukas
                  row'
       /'dalit/ 'slice' vs dalit /da'lit/
dalit
                                              'psalm'
       /'galan/ 're- vs galang /ga'lan/
                                              'wrist'
galang
                 spectful'
gulong
       /'gulon/ 'roll- vs gulong'/gu'lon/
                                              'wheel'
                  ing'
                  'error' vs
        /'salah/
                             sala /sa'lah/ 'interwoven
sala
                                      strips of bamboo'
                                   /ha'bol/ 'closely
habol
        /'habol/ 'hurry vs habol
             to overtake'
                                              attached'
        /'lisoh/ 'simple'vs
                                    /li'soh/
                                              'bewil-
liso
                             liso
                                               dered'
                                              'bare-
       /'lakad/
                                    /la'kad/
lakad
                  'walk'
                             lakad
                         VS
                                               footed'
```

All Tagalog full-word bases have at least one strong-stressed syllable; the great majority have only one. Some Tagalog function words and affixes have strong stress, others weak. Except in a limited number of single-word utterances, strong stress in Tagalog seems to occur consistently in two places, the penultimate and the final syllables.

Verbs (roots) /'sain/ 'cook by steam' saing /'tulog/ 'sleep' tulog With prefix 'to cook' /mag'sain/ magsaing matulog /ma'tulog/ 'go to sleep' Proper names /'maryoh/ 'name of a boy' Mario /'santos/ 'surname' Santos

In some words, the strong stress occurs on the final syllable and when used in connected speech, these words usually are in pre-junctural position. Illustrations follow:

sila	/si'lah/	'they'
kita	/ki [†] tah/	you and I'
magaspang	/magas'paŋ/	'coarse'
malakas	/mala'kas/	'strong'
luglog	/lug'log/	'noodles dipped in
	,	boiling stock'
isda	/'is'da'/	'fish'
maglako	/magla'ko'/	'peddle around'

magsuklay /magsuk'lay/ 'to comb'

If a syllable has a word stress in certain classes of words and a glottal stop is lost in the phrase, the whole group is often spoken with one primary word-stress. The loss of the glottal stop is compensated for by the lengthening of the vowel before it.

Susi ito. /'susih 'itoh/ 'This is a key.'

Bata siya. /'batah siyah/ 'He is young.'

Puso niya. /'pusoh niyah/ 'Her heart.'

PITCH

Pitch is often closely correlated with stress. Pitch involves the musical tone of the voice and the points at which changes in this tone occur. Tagalog has three contrasting levels of pitch: low, mid, and high, or /1/, /2/, and /3/. The beginning of a sentence or an isolated phrase is arbitrarily marked with /2/ unless the first syllable carries primary stress. Pitch /3/ is coincident with primary stress in most phonemic phrases. The end unit of a phonemic stress pattern may come down to /1/, as in a declarative statement, or it may end in pitch /2/ or /3/, as in questions or series.

A very common pitch pattern in Tagalog is /231/, illustrated by sentences like the following: (The period

at the end of the phonemic phrase indicates the end of phonation. Pitch levels are schematically shown in the transcription by an overlining in which a higher line indicates a higher pitch).

Maputi si Mario. /mapu'ti' si 'maryoh./ 'Mario is fair
complexioned.'

mapu'ti' si 'maryoh.↓

Kumakain si Boni. /ku'maka'in si 'bonih./ 'Boni is eating.'

ku'maka'in si 'bonih.

Patterns of this kind have a discernible meaning, though this meaning is often not as obvious and concrete as the lexical meaning of words. Nonetheless, the only

⁶For the symbol $/\downarrow/$ etc., see p. 67.

linguistic feature that marks the above utterances as statements and the following ones as questions is a phonological one, namely the pitch pattern:

2 l 3
Mataba si Linda? /mata'ba' si 'lindah?/ 'Is Linda stout?'

Maputi si Mario? /mapu'ti' si 'maryoh?/ 'Is Mario faircomplexioned?'

2 l 3 Kumakain si Boni? /ku'makain si 'bonih?/ 'Is Boni eating?'

Yes/No Questions. Questions answerable by 'yes' or 'no' in Tagalog take one of the following pitch patterns:

1. /2312/

2 3 2 1 2 Si Nena ba siya? /si 'nenah ba si'yah?/ 'Is she Nena?'

2. /3212/

Kilala mo ba ako? /kila'lah moh bah 'a'koh?/ 'Do you know me?'

3. /312/

Totoo ba? /to'to'oh bah?/ 'Is it true?'

to'to'oh bah?

4. /23/

Kami? /ka'mih?/ 'We?'

ka'mih?↑

In Tagalog, the final rising juncture is relative ly short and the last syllable is slowed down slightly.

Specific Questions. Specific questions in Tagalog take the /321/ or /2321/ pitch patterns. Normally they begin high or have their rise on the first stressed sylla-

ble as illustrated below:

1. /321/

Kailan siya dumating? /ka'i'lan si'yah duma'tiŋ?/ 'When

did he arrive?'

ka'i'lan si'yah duma'tiŋ?

2. /2321/

Saan siya pupunta? /sa'an si'yah 'pupuntah?/ 'Where is he going?'

sa'an si'yah 'pupuntah?

Commands. Pitch patterns for commands in Tagalog are often the same as that of specific questions, i.e., /321/ or /2321/.

Requests. The intonation for requests in Tagalog which is considered the most polite is the yes/no question intonation, although the voice does not rise as high at the end as it would normally do in a yes/no question, thus:

/2312/

2 3 1 2 Halika nga. /ha'likah na'./ 'Come here'

Bigyan mo nga ng tubig. /big'yan moh na' ng 'tubig./'Give

him water.'

big'yan moh na' ng 'tubig.

JUNCTURE.

Juncture phenomena are the phonological effects of the transition between sounds or between sound and silence. In the continous flow of speech, there are pauses or slight delays, characteristically occurring at the end of sentences. The effects of these pauses on the pitch or stress patterns can be conveniently subsumed under the phenomena of juncture. If the voice is cut off on a level pitch, ordinarily indicated by a comma in traditional writing, the overlining is broken to indicate this feature which marks the end of a phrase. At the end of a sentence there is a transition from sound to silence which may be characterized by a rise in pitch with a fading into silence, symbolized by /1/, or by a fall in pitch with a fading into silence, symbolized by /1/.

It might be possible to symbolize these pitch changes by merely changing the level of the overlining,

but this would necessitate adding additional levels of pitch which would not be well-defined, since the rise or fall usually does not coincide with pitch levels established at any other point in the utterance. Also the number of pitch levels would have to be increased by at least two, which would add complexity to the representation with no corresponding advantage. The following sentences in Tagalog show a contrast in meaning that is determined by the selection of one or another of the terminal junctures:

1. Lalakad ka. /la'lakad kah./ 'You will go.'(Command)

--_____↓ la'lakad kah.

vs

la'lakad kah? 'Will you go?'(Inquiry)

2. Umalis siya. /'uma'lis si'yah./'He arrived.'(Unexpectedly)

·uma'lis si'yah.

vs

'uma'lis si'yah? 'He arrived?'(Surprised)

'uma'lis si'yah? 'Uma'lis si'yah?

'uma'lis si'yah? 'Uma'lis si'yah?

'uma'lis si'yah?

'uma'lis si'yah?

'uma'lis si'yah?

'uma'lis si'yah?

'uma'lis si'yah?

'uma'lis si'yah?

'uma'lis si'yah?

'uma'lis si'yah?

'uma'lis si'yah?

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'uma'lis si'yah?

'uma'lis si'yah?

'uma'lis si'yah?

'uma'lis si'yah?

'uma'lis si'yah?

'uma'lis si'yah?

'uma'lis si'yah?

RHYTHM.

In terms of the rather artificial dichotomy usually established, Tagalog is a syllable-timed rather than a stress-timed language, that is, its syllables tend to be of roughly equal duration and almost equal emphasis.

Tagalog rhythm is conditioned by the following factors:

- (1) Stronger stresses do not occur at regular intervals.
- (2) There is no regular variation in length as this is conditioned by the type of consonant which follows the vowel and by stress.
- (3) Two contiguous syllables are never both under strong stress.

CHAPTER III

PAMPANGO PHONOLOGY

Pampango has twenty-one segmental phonemes: /p, t, k, '(glottal stop), b, d, g, m, n, n, s, h, l, r, y, w, i, e, a, o, u/. Suprasegmentally, it has three phonemes of stress, primary /'/, secondary /^/, and weak (unmarked). It has four levels of pitch, usually represented from lowest to highest as /l/, /2/, /3/, and /4/. Pampango further has three terminal junctures, rising juncture /1/, falling juncture /4/, and sustained juncture /1/.

THE PAMPANGO VOWELS

The dialect of Pampango on which this study is based has five vocalic phonemes: /i/, /e/, /a/, /o/, and /u/. This dialect has assimilated part of the Spanish phonemic system along with the usual mass of Spanish vocabulary. These vocalic phonemes are presented below, with the chart arranged in such a way as to show the part of the tongue and tongue position involved for each vowel (Figure 6).

There are two vowels in high position, /i/ and /u/; two in mid position /e/ and /o/; and one vowel in low position, /a/.

STRESSED

	Front	Central	Back
	Unrounded	Unrounded	Rounded
High	i		u
Mid	е		0
Low		a	

UNSTRESSED

	Front	Central	Back
	Unrounded	Unrounded	Rounded
High	i		u
Mid	e		0
Low		а	

FIGURE 6

Pampango Vowel Chart

A few general observation about the vowels of Pampango will obviate a good deal of repetition in the presentation of the individual phonemes. All Pampango vowels are preceded by a non-phonemic glottal stop $\begin{bmatrix} & & & \\ & & \\ & & &$

Pampango vowels are generally of uniform length. Lengthened variants, however, may occur under strong stress, while before pause, and as the result of the fusion of identical vowels described above, lengthening is obligatory. Regardless of segmental environment, Pampango vowels vary from tense to lax.

The details of the five vowels, with examples, follow:

/i/. The phoneme /i/ is a high front tense

unrounded vowel. The front part of the tongue is raised very close to the palate. The tip touches the inner surface of the lower front teeth. The lips are in neutral position with the corners of the mouth drawn back a little. /i/ varies from tense to lax, the latter /I/, usually occurring in closed syllables. It occurs initially, medially, and finally as illustrated below:

```
/i'pan 7 /i'pan/
ipan
                              'tooth'
         /'In'duh / 'in'duh/ 'mother'
indu
        /isipan/ /isipan/ thought'
isipan
        /Tit'surah/ 'it'surah/ 'appearance'
itsura
        /i'tuh / 'i'tuh/ 'this'
itu
        /ijpus 7 /ijpus/ 'servant'
ipus
        /ipas 7 /ipas/
                             'cockroach'
ipas
        /'i'kah/ 'you'
ika
        /i'yah / 'i'yah/ 'he, she'
iya
        /'i'lah_7 /'i'lah/
                             'they'
ila
        /'i'ki'/ /'i'ki'/
                              'tail'
ici
        /ba'kit / /ba'kit/
                              'why'
baquit
        /tali'lis/ /tali'lis/
                             'abscond'
talilis
tinipun /ti'nipun/ 'accumulate'
        /'diktan / /'diktan/
                             'dictate'
dictan
        /mi'sosoh/ /mi'sosoh/
misoso
                              'dip'
         /pa'ratih/ /pa'ratih/
                              'always; ever'
parati
```

```
/'sikan / /'sikan/
sican
                               'force'
        _putak'tih/ /putak'tih/
                              'hornet'
putacti
        susi
        /Tlotih 7 /'lotih/
                               'lot'
loti
       'madam'
atsi
        Zga'wi'] /ga'wi'/
                               'manners'
gawi
        _pis'tih_7 /pis'tih/
                              'plague'
pisti
        _maban'dih/ /maban'dih/ 'magnate'
mabandi
panalalaqui /panala'lakih/ /panala'lakih/ 'manhood'
```

utang		/''utan/	'debt'
mu	_mu'	/mu³/	'only'
uran	[",uran_]	/''uran/	'rain'
ulas	[",ulas_]	/'''ulas/	'blanket'
upaya	/'upayah/	/''upayah/	'authority'
uling	/T,ulin_7	/'',ulin/	'charcoal'
ulina	[i,ulinah]	/'',ulinah/	'because of him'
supot	supot7	/'supot/	'bag'

```
/sulu*k / /suluk/
suluc
               'corner'
    ulunan
uculuna
    apulo
    __waluh__7 / waluh/
                  'eight'
walu
    yamu
    /'puso'_/ 'puso'/ 'heart'
puso
    ituru
  lucso
   /'tutuh/ 'fictitious'
tutu
masalusu /masa'lusuh/ 'fast'
talaturu /tala'turu'/ /tala'turu'/ 'faculty'
magulu /ma'guluh / /ma'guluh/ 'disorder'
```

 \sqrt{u} is a lower high back tense round vowel usually in open syllables. This variant occurs in initial and final syllables and in free variation with the main member \sqrt{u} after a labial consonant.

¹For this variant see section $\sqrt{u^*_{-}}$.

```
/su'lu*h 7 /su'luh/ 'light'
sulu
          /'alis'tu*h//'alis'tuh/ 'agile'
alistu
          /magu'lu*h/ /magu'luh/ 'problematical'
magulu
          _ta'yu*g_7 /ta'yug/ 'height'
tayug
          /vus'tu*h/ /us'tu*h/ 'adequate'
ustu
          /bus'bu*s/ /bus'bus/ 'opening'
busbus
          /si'ku*h/ /si'kuh/ 'elbow'
sico
          /bura'ru*l7 /bura'rul/
                                 'kite'
burarul
                                  'accent'
          /'pu*ntuh/ /'puntuh/
puntu
          /meya'nu*h/ /meya'nuh/ 'abstract'
meyanu
ipabalu / ipaba'lu*h / ipaba'luh / 'acquaint'
          /la'ru*, 7 /la'ru'/
                                 'oil'
laru
          /li'mu*s/ /li'mus/ 'alms'
limus
          /kasa'mu*t7 /kasa'mut/ 'among'
casamut
          /ta'ku*t/ /ta'kut/ 'afraid'
tacut
simbulu /simbu'lu*h/ /simbu'luh/ 'emblem'
```

_u_7 is a high back lax round vowel. It varies freely with lower high back lax round _u_7 under weak stress except in final syllables.

lumacad	∠īų'maka <u>d</u> 7	/lu'makad/	'hike'
maulit	∠ma'ų'li <u>t</u> 7	/ma'u'lit/	'hardheaded'
alulud	∠'alų'lu <u>d</u> 7	/alu'lud/	'gutter'
tuparan	_tupa ran/	/tupa'ran/	'fulfill'

```
_mu'munah/ 'first'
mumuna
        /tum'buk/ /tum'buk/ 'fist'
tumbuc
        _taru'kan/ /taru'kan/ 'explore'
tarucan
pabula / pabulah/ 'fable'
sucdulan /suk'dulan/ 'extreme'
        /su'gud / /su'gud/ 'exert'
sugud
         _matu'lid/ or _matu'lid/ /matu'lid/ 'down-
matulid
                                    right'
         _saku'na'/ 'disaster'.
sacuna
caluguran /kalugu'ran/ 'dear'
        /mu'tus/ 'command'
mutus
suculan /suku'lan/ 'cell'
ibaluktut / ibaluk'tut/ 'carve'
        /bu'kuh / /bu'kuh/ 'node'
bucu
mamulaclac /mamulak'lak/ /mamulak'lak/ 'bloom'
       /kalu'kuh/ or /kalu'kuh/ /kalu'kuh/ 'blaze'
calucu
        /bu'kud / /bu'kud/ 'aside'
bucud
         /minu'ran/ /minu'ran/ 'recoil'
minuran
```

/a/. There are really no central vowels in Pampango. The only one which comes close to being a central vowel is the phoneme /a/. The main member is a low central-retracted lax unrounded vowel. The central part is very slightly raised. The tip of the tongue does not

touch the lower front teeth. It occurs in all three positions in words in free variation with \sqrt{a} .

acu	<pre>∠'a'kuh_</pre> <pre>_/</pre>	/'a'kuh/	'I'
lona	/lonah_7	/'lona/	'canvass'
candila	/kan'dila/7	/kan'dila'/	candlelight
ala	['a'la']	/,a'la'/	'none'
sabagal	[sa'baga17	/sa'bagal/	'handicap'
api	['a'pih_7	/'a'pih/	'fire'
senyas	<pre> ∠'senyas 7 </pre>	/'senyas/	"hint;
abut	['a'but_7	/'a'but/	'reach'
cabayu	<pre>/ka'bayuh/</pre>	/ka bayuh/	'horse'
atin	['a'tin]	/'a'tin/	'have'
larawan	[la'rawan]	/la'rawan/	'image'
ari	Z'a'ri']	/'a'ri'/	'king'
marinat	[ma'rinat]	/ma'rinat/	'insanitary'
pabaya	∠paba'ya'7	/paba'ya'/	îlax'
akit	['a'kit_]	/'a'kit/	'see'
parnaso	<pre>∠par'nasoh7</pre>	/pardnasoh/	'literature'
dacal	_da'kal_7	/da'kal/	'manifold'
lamesa	∠la'mesah/	/la'mesah/	'table'
laman	_la'man_7	/la'man/	'meat'
salapi	_sala'pi'7	/sala'pi'/	'money'
ngara	/ŋa'rah/	/ŋa'rah/	'they said'

The low central vowel /a/ has an allophone which is raised to $\sqrt{2}$ when in unstressed syllables.

/e/. /e/ is a mid front lax unround vowel. The front of the tongue is slightly raised towards the palate, but is much lower than /i/. The tip of the tongue is against the inner surface of the lower front teeth. The lips are unrounded with the corners of the mouth slightly drawn back. It occurs initially, medially, and finally in words.

esquela	<pre> ∠ esku'welah j j j j j j j j j j j j j</pre>	/'esku'welah/	'school'
ebus		/'e'bus/	coconut
	•		leaves
ela	Z', elah_7	/',elah/	'not'
emu	\angle , emuh \underline{J}	/''emuh/	'yours'
mete	meteh7	/'meteh/	'dead'
tete		/'teteh/	'bridge'
sesen	Z'sesen_7	/'sesen/	'attend'
leguan	_le'guwan_7	/le'guwan/	beauty
lasenggu	_la'senguh/	/la senguh/	'drunkard'
indredus	/in'dredus_7	/'in'dredus/	'gossip'
sucle	_suk'leh_7	/suk'leh/	comb t
bale	∑ba'leh_7	/ba'leh/	'house'
tagumpe	_ta'gumpeh_7	/ta gumpeh/	'victory'
pile	_pi'leh_7	/pi leh/	'lameness'
dase	_da'seh_7	/da seh/	'mat'
bule	_bu'leh_7	/bu'leh/	pea
tiwase	_tiwa'seh_7	/tiwa'seh/	'peaceful'

Pampango vowels /i/ and /e/ alternate in medial and final position in some words. These, I believe are dialectal alternations: _ku'marih_7 and _ku'mareh_7 'lady sponsor in baptism'; _'bakit_7 and _'baket_7 'why'; _la'lakih_7 and _la'lakeh_7 'man'; _'mekenih_7 and

oras	[, oras]	/''oras/	'time'
obra	[''obrah_7	/''obrah/	'occupation'
oyan	[',oyan_]	/''oyan/	'here is'
oren	[, oren_7	/''oren/	there are
oreni	∠ r, oreni <u>h</u> 7	/''orenih/	here are
obat	[, obat_]	/''obat/	'why'
oyta	Z, oytah_7	/''oytah/	there'
boti	botih7	/'botih/	'bottle'

```
/po'tah / /po'tah/
pota
                                'later
        nocarin
                                'where'
          /bos'nan / /bos'nan/
                                'deduct'
bosnan
          /ma'rok / /ma'rok/
                                foul'
maroc
          /al'doh / /al'doh/
                                'day'
aldo
          /ma'koh / /ma'koh/
                              go away'
maco
        /', eranoh/ /', eranoh/ 'no more'
erano
          /daraloh/ /daraloh/
                                'to visit'
daralo
          /paroh / paroh/
                                'shrimp'
paro
          _re'pasoh/ /re'pasoh/
                                'review'
repaso
          /sa'boh / /sa'boh/
                                'broth'
sabo
          /yeroh / /yeroh/
                                'galvanized iron'
yero
          /kayoh / /kayoh/
                                'cloth'
cayo
```

Minimal contrasts among all the vowels of Pampango are found in the present corpus. Illustrations follow:

	/i/			/a/
/'mintah/	'went'	vs	/'mantah/	'sheet'
/'birah/	'to let go'	٧s	/'barah/	'yardstick'
/'biru'/	'joke'	vs	/'baru'/	'dress'
/si'lu'/	'ribbon'	vs	/sa'lu'/	'breast'
	/i/		e.	/u/
/'misah/	'mass'	vs	/'musah/	'muse'
/'i'sah/	one'	vs	/'u'sah/	deer

/'bikas/	'posture'	vs	/'bukas/	'tomorrow'
,	/e/		er,	/a/
/'mesah/	'table'	vs	/'masah/	'dough'
	/e/			/u/
/se'lu'/	'person's	vs	/su'lu'/	'lamp'
	/a/			/o/
/'balah/	'bullet'	٧s	/'bolah/	'ball'
	/a/			/u/
/sa'li'/	'twist'	vs	/su'li'/	'buy'
/bu'la'/	'bubbles'	vs	/buˈlu'/	'a kind of
				bamboo'
/ma'la'/	'mirade'	٧s	/mu'la'/	'the very
*	- <u>-</u>			beginning'
/'a'la'/	'none'	vs	/'u'la'/	'prophecy'
/'patuh/	idrake'	vs	/'putuh/	'bread'
/idulan/	'low table'	vs	/idulun/	'to go to
**	<u></u>			market'

PAMPANGO VOWEL-SEMIVOWEL SEQUENCES

If a diphthong is defined as a phonemically simple but phonetically complex vocalic unit, it is quite clear that there is nothing in Pampango that can properly be called a diphthong. Pampango, however, has a variety

of vowel-semivowel and semivowel-vowel sequences. If there are sequences of /ey/, /ay/, and /oy/ in Pampango, such sequences occur only as variants of /e/, /a/, and /o/. In the illustrations that follow, the sequences distribute in all positions.

```
/w+V/
                    /'widoh/
        wido
                                     'inclination'
                    /wah/
                                    'yes'
        wa
                    /ban'wah/
                                     'sky'
        banwa
                   /wa'kas/
                                     'end'
        wakas
                   /wa'lih/
                                     'younger sister'
        wali
                    /wa'wa'/
                                     'saliva'
        wawa
/y+V/
                    /'yeluh/
                                     'ice'
        yelo
                   / yamuh/
                                    'only'
        yamu
                   /ya'namuh/
                                    'lastly'
        yanamu
                   /me'yari'/
                                    'finished'
        meyari
                    /'senyas/
                                    'signal'
        senyas
                                    'pass it over'
                    /yo'duwan/
        yoduan
        bayli /'beylih/, /'belih/ 'dance'
        kayli /'keylih/, /'kelih/ 'left'
              /'meylih/, /'melih/ 'laughing'
        mayli
        cayarian /keyari 'an/, /keyari' an/ 'last'
```

THE PAMPANGO CONSONANTS

There are sixteen consonants in the Pampango sound system. The consonant phonemes may be divided into two groups: stops and continuants. The stops include a voiceless unaspirated series /p, t, k, '/, and a voiced series /b, d, g/. The continuants include two voiceless fricatives /s/ and /h/; a voiced nasal series /m, n, n/; a voiced lateral /l/; a flapped vibrant /r/, and two semivowels /w, y/ as summarized in Figure 7.

The consonants are discussed in the order in which they are presented in the chart beginning with the stops and ending with the semivowels.

Voiceless Stops. The voiceless oral stops of Pampango are /p, t, k/. /p/ is bilabial. The voiceless breath is stopped completely and is released as the lips move to the position of the next sound. It is an unaspirated fortis stop. /t/ is dental and is pronounced with the tongue tip behind the upper front teeth. The velum is raised, and like /p/ the compression of the breath stream is strong. /k/ is a dorso-velar stop. The back of the tongue is brought into contact with the velum which is raised, blocking and compressing the breath stream. The phonemes /p, t, k/ occur in all positions

Manner of		Point of Articulation				
Articulation	1	Labial	Dental	Palatal	Velar	Glottal
v] Stops	-	p p	t		k	,
vć	l	Ъ	d		g	·
Fricatives vl		. <u>-</u>	ß	·		(h)
Nasals vo	Ì	m	'n		ŋ	
Lateral vo	ì	,	î ⁻			
Flap vo	-		r		1	
Semi- vl Vowels	-	W	-	У		·

FIGURE 7

Consonant Chart of Pampango

initially, medially, and finally. The Pampango voiceless stop series is illustrated below:

	/p-/	
pacu	/'paku'/	'nail'
paras	/'paras/	'pungent'

palacul	/pala'kul/	'ax'
paro	/'paroh/	'shrimp'
puru .	/'puruh/	'pure'
	/-p-/	
maputla	/ma'putla'/	'pale'
sapad	/sa'pad/	'flat'
tapal	/'tapal/	'patch'
ampun	/am'pun/	and, also
gapus	/'gapus/	'hogtie'
	/-p/	
isip	/''isip/	'think'
·	/t-/	
talbog	/tal'bog/	'to soak'
tali	/'taĺi'/	'to tie'
tabing	/'tabin/	iscreeni
tanaman	/itanaman/	'plant'
tumud	/itumud/	'town'
	/k-/	
culut	/ku'lut/	'curly'
cabalen	/kaba'len/	townmate '

capatad	/kapa'tad/	'sister or brother'
caluguran	/kalu'guran/	'friend'
carin	/ka'rin/	there'
carela	/ka'relah/	theirs'
	/-k-/	•
lalaqui	/la'lakih/	'boy'
dicut	/'dikut/	'grass'
palacul	/pala'kul/	'ax'
sacup	/sa'kup/	'subordinate'
dacal	/da'kal/	'many'
	/-k/	
manuc	/ma'nuk/	'hen'
anac	/'a'nak/	child'

The Glottal Stop. //. In the production of the glottal stop the breath stream is wholly occluded by the vocal bands and the air below the glottis is expelled by their sudden separation. This stop occurs as a distinctive sound before and after a vowel at the beginning, in the middle and at the end of words. Medially the glottal stop alternates with zero. The glottal stop is lost morphophonemically before other words in a sequence. The

phoneme is illustrated below:

Initially:	atsi	/'at'sih/	'madam'
	aluagi	/'al'wagih/	carpenter'
	ulas	/'u'las/	'blanket'
Medially:	paniucad	/pa'niyukad/	'meter'
	pipainawan	/pipa''inawan/	'lodge'
	tauli	/ta''uli'/	'tardy'
Finally:	ici	/'iki'/	'tail'
	baru	/'baru'/	'dress'
	biru	/'biru'/	'joke'
	pacu	/'paku'/	'nail'
	babi	/'babi'/	'pig'
	maputla	/maput'la'/	'pale'
	sali	/'sali'/	'to buy'
/mu'li'/	'go home'	but /mu'li neh/	'she will go
٠	•	-	home'
/ku'ku'/	'fingernail'	but /in ku'ku n	ah/ 'her fin-
·		-	gernail'

<u>Voiced Stops.</u> The voiced stops /b, d, g/ correspond in position to /p, t, k/. /b/ is bilabial, /d/ is dental and /g/ velar. They are fully lenis stops.

Medially, /d/ alternates freely with /r/ after a vowel of a prefix or a reduplication: /da'kal/ 'many'

: /'dadakal/ or /'darakal/ 'getting many'; /da'lundon/
'dark' : /meda'lundon/ or /mera'lundon/ 'getting dark';
/'dakit/ 'fetch' : /da'dakit/ or /da'rakit/ 'fetch
someone'.

In simple word forms, /d/ rarely occurs intervocalically, except (1) in proper names as in Rodolfo,

Candida, and (2) in loan words such as /masku'laduh/
'hefty'; /ban'didoh/ 'bandit'.

The distribution of the voiced stops is unrestricted. The series is illustrated below:

Initially:		/b/	
	biyabas	/bi'yabas/	'guava'
	bisa	/'bisa'/	'like'
	bagu	/'baguh/	'new'
	bale	/ba'leh/	'house'
		/d/	-
	dacal	/da'kal/	'plenty'
	dapot	/da pot/	'but'
	dusug	/'dusug/	'move'
		/g/	
	ginapos	/gi'napos/	'handcuffed'
	gamat	/ga mat/	hand'
	gamitan	/ga'mitan/	'use'
	gapus	/'gapus/	'to hogtie'

	gamusan	/ga'musan/	'scratch'
	gunutan	/gu'nutan/	to pull the
			hair'
Medially:		/b/	-
	babi	/'babi'/	'pig'
	cumbira	/kumbi'rah/	'invitation'
	imbentu	/im'bentuh/	'invention'
	debotu	/de'botuh/	'devotee'
	gabun	/ga'bun/	'soil'
		/d/	
	comandanti	/kuman'dantih/	'major'
	tanda	/tan'da'/	'mark'
	medalia	/me'dalyah/	'medal'
		/g/ ⁻	•
	agad	/a'gad/	'soon'
	dagdag	/dag'dag/	'something
		÷	added!
	lagyu	/lag'yu'/	'name'
Finally:		/b/	
	manib	/'manib/	'join'
	panganib	/pa'nanib/	'peril'
	lub	/lub/	'inside'
		/d/	
	tulid	/tu'lid/	'in line with

```
talacad
           /ta'lakad/
                           'rise'
           /'bayad/
                            'remittance'
bayad
           /magla'kad/
                            'hike'
maglakad
           /g/
                            'carabao'
damulag
           /da'mulag/
                           'gleam'
sinag
           /'sinag/
                            'illegal'
           /la'bag/
labag
                            'height'
           /'tayug/
tayug
```

Some minimal contrasts between the voiced stops and their voiceless counterparts follow:

	/p/			/b/
/'pusa'/	'cat'	vs	/'busa'/	'popcorn'
/'lapis/	'pencil'	vs	/labis/	in excess'
	/t/		•	/d/
/ta'lan/	'hold'	vs	/da'lan/	'road'
/ta'kal/	'measure	d'vs	/da kal/	many
/bu'kut/	not	vs	/bu'kud/	one only'
	straigh	t '	46	
	/k/		•	/g/
/'bakah/	'cow'	vs	/'bagah/	'glowing
-	-		e e	ember'
/'kulat/	'smear'	vs	/'gulat/	'surprise'
/ku'lut/	curly	٧s	/gu'lut/	'back'

Fricatives. /s/ is a voiceless grooved fricative. In the articulation of /s/, the tongue blade is raised toward the alveolar ridge, the sides of the blade being closer to the ridge than the somewhat depressed center. The teeth are brought almost together so that when the breath is forced out, the teeth provides partial obstruction, producing the sibilance. /s/ is always fortis showing the form \(\subseteq s \) in all positions as illustrated below:

	/s-/	
silid	/si'lid/	'room'
senyas	/'senyas/	'signal'
sabo	/sa'boh/	'soup or broth'
sali	/'salih/	'to buy'
salol	/sa'lol/	'pants'
sapad	/sa'pad/	'flat'
sulo	/suˈlo'/	'torch'
	/-s-/	
pista	/pis'tah/	'holiday'
calasan	/kala'san/	'demolish'
nasa	/'nasa'/	'desire'
pasis	/'pasis/	'a pass or permit'
·	/-s/	e e e e e e e e e e e e e e e e e e e
itas	/'i'tas/	'hoist; lift'

matas /ma'tas/ 'majestic'
oras /'o'ras/ 'hour'
patus /'patus/ 'shoe'

/h/ is a voiceless fricative with the vocal bands brought close together. It occurs only in loan words (but not consistently) and is very limited in distribution. The Pampango / h 7 sound is difficult to classify as a phoneme. Pampango speakers do not produce the sound natively, and for them, there is a tendency to pronounce /tin'dahan/ 'store' as /tin'da'an/. Pampango educated speakers trying to produce the sound tend to make this phonological peculiarity: they produce the glottal stop / / and the /h/ sound in free variation when /h/ is supposed to occur in a word, and often add /h/ sound before any vowel sound when it is not needed: for /halim'bawa'/ they say /'alim'bawa'/ 'example'; for /bi'hasah/ - /bi'asah/ 'wise'; for /tuk'suhan/ -/tuk'su'an/ 'joke'; for /ma'hanin/ - /ma'anin/ 'windy'; for /'lihim/ - /'li', im/ 'secret'.

In loan words the /h/ sound does not appear before /i/ and is seldom found syllable-initial.

Illustrations follow:

hepi /'hepih/ 'chief'

bihelya	/bi'helyah/	'fasting'
birhen	/bir'hen/	'virgin'
liha	/'lihah/	'sandpaper'
palihan	/pali'han/	'anvil'
tiho	/ti'ho'/	'plate of gold'
kuteho	/ku tehoh/	'comparison'
huwes	/hu wes/	'judge'

Nasals. There are three nasal consonants in Pampango /m/, /n/, and / η /. They correspond in articulatory position to the stops /b/, /d/, and /g/ previously described. /m/ is bilabial. It is produced with the lips closed; the velum is lowered, allowing the breath stream to escape through the nose. /n/ is dental. The tip of the tongue is placed against the back surface of the upper front teeth. / η / is velar. The back of the tongue is raised to come in contact with the velum which is lowered. Pampango / η /, / η /, and / η / have one form each $\sqrt{\eta}$ / distribute in all three positions, initial, medial, and final. The series is illustrated below:

/m/	minum	/mi'num/	'drink'
	manyaman	/man'yaman/	'delicious'
	mata	/ma'tah/	'eye'

	malagu	/mala'gu'/	'beautiful'
	maragul	/mara'gul/	'big'
	metun	/'metun/	one
	gamit	/ gamit/	'equipment'
	kama	/'kamah/	'bed'
	dumaya	/du'maya'/	'bleed'
	lalam	/la lam/	'under'
	manamdam	/manam'dam/	'borrow'
/n/	ninu	/ni 'nuh/	who
	napun	/'napun/	'yesterday'
	nasi	/'nasih/	'rice'
	nucarin	/nu'karin/	'where'
	mana	/'manah/	'inheritance'
,	leparan	/le'paran/	'width'
	amucan	/amu'kan/	'wheedle'
	capilan	/ka'pilan/	when'
	pantalan	/panta'lan/	'wharf'
/ŋ/	ngeni	/'ŋeniĥ/	now
	ngan	/inan/	'whole'
	singsing	/sin'sin/	'ring'
	quilingan	/ki'liŋan/	'favor'
	bengi	/'beni'/	'night [†]
	pamangampi	/pama'ŋampih/	'favoritism'
	cabang	/'kaban/	'while'
		at:	-

timbang	/tim'ban/	'weight'
nung	/nun/	'whether'

Lateral. The phoneme /l/ is a voiced lateral. It is articulated by placing the tip of the tongue on the alveolar ridge. Both sides of the tongue are lowered. The Pampango /l/ has a "light", forward resonance rather than the "dark", retracted sound. It occurs initially, medially, and finally as illustrated below:

/1-/	lalam	/'lalam/	'under'
	lagyu	/lag'yu'/	'name'
	lalaqui	/la'lakih/	'boy; man'
	lasu	/'lasuh/	'ribbon'
	lua	/ˈluˈa'/	'tears'
	lunus	/'lunus/	'mercy'
/-1-/	malaru	/mala'ru'/	'oily'
	mala	/'malah/	'mystery'
	ala	/'a'la'/	'none'
	dulang	/duˈlaŋ/	'table'
	quilub	/ki'lub/	'inside'
	magulu	/magu'luh/	'intricate'
	masalusu	/masa'lusu'/	'fast'
	calug	/ka'lug/	'jolting'
/-1/	magaltal	/magal'tal/	'itchy'

```
mabagal /ma'bagal/ 'slow'
gulgul /gul'gul/ 'disarranged'
sarul /sa'rul/ 'hoe'
```

Flap. /r/ is an alveolar flap. It is produced by an energetic single bouncing of the tip of the tongue against the hard palate. It is partially voiced. Pampango /r/ has two allophones, a single retroflex alveolar tap $\lceil r \rceil$ found intervocalically, and a retroflex alveolar multitap trill $\lceil r \rceil$ found in final position. In initial position, the two allophones occur in free variation with a preference for the multitap trill in absolute initial position and the single tap in clusters.

It seems probable that <code>r_7</code> and <code>d_7</code> were formerly variants of a single phoneme, with <code>r_7</code> occurring intervocalically, both <code>r_7</code> and <code>d_7</code> as free variants pre-pausally, and only <code>d_7</code> elsewhere. <code>/r/</code> and <code>d/</code> alternate in word initial position: <code>/'detah/</code> and <code>/'retah/'those'</code>. The phoneme <code>/r/</code> occurs initially, medially, and finally in words. Illustrations follow:

/r-/	relos	/re'los/	'watch'
	rosas	/'rosas/	'pink'
/-r-/	carin	/ka'rin/	'there'
	marinat	/mari'nat/	'insanitary'

cumbira	/kumbi'rah/	'invitation'
parada	/pa'radah/	'review'
maracap	/ma'rakap/	'caught'
maragul	/mara'gul/	'big'
casiran	/kasi'ran/	'defect'
tuparan	/tu'paran/	'fulfil'
marangal	/mara'ŋal/	'honorable'
iparapat	/'ipa'rapat/	'assign'
caratig	/ka'ratig/	'adjacent'
mituru	/mi'turu'/	'impart'
durut-durut	/du rut-durut/	'lingering'

Semivowels. Pampango has two semivowels or glides, /w/ and /y/. /w/ is bilabial. It occurs only initially and medially. /y/ is alveopalatal. It occurs in initial and medial positions. Illustration follows:

/w-/	wido	/'widoh/	'love for'
	wa	/wah/	'yes'
	wacas	/wa'kas/	end i
	wali	/wa'lih/	'younger brother'
	walu	/wa'luh/	'eight'
	wapin	/'wapin/	of course'
	wawa	/'wawa'/	'saliva'

/-w-/	iwagwag	/'iwag'wag/	'brandish'
	gawa	/ga'wa'/	'act'
	pamanaliwa	/pamana'liwa'/	'evolution'
	catimawan	/kati'mawan/	'freedom'
	saliwan	/sa'liwan/	'acquires'
	cunwari	/kun'wari'/	'pretend'
	cawayan	/ka'wayan/	'bamboo'
/y-/	yelu	/'yaluh/	'ice'
	yeru	/ yeruh/	'galvanized iron'
	yabut	/'yabut/	'to hand'
	yacu	/ˈyakuh/	iı
	yamu	/'yamuh/	'only'
	yanamu	/ya'namuh/	'lastly'
	yapin	/'yapin/	'certainly'
	yatsa	/yat'sah/	'throw'
	yoduan	/yo'du'an/	'pass it over'
/-y-/	pabaya	/pa'baya'/	'wayward'
	manaya	/ma'naya'/	'wait'
	iyan	/'i'yan/	'this'
	dumayu	/du'mayuh/	'withdraw'
	umuyutan	/'umu'yutan/	'wheedle'
	gayunman	/ga'yunman/	'tempt'
	piyabayan	/piya'bayan/	'amalgamate'

CONSONANT CLUSTERS

Pampango consonant clusters occur mostly in loan words. Some have established so widely in the language that for most speakers they are used as Pampango words without any consciousness of their origin. No two consonants cluster medially. Intervocalically, they must be divided by plus juncture into a final consonant followed by an initial consonant. Thus, "buntuc" 'head' must be split syllabically /bun.'tuk/; "tinta" 'ink' /tin. 'tah/ and "gulgul" 'disarrange' /gul.'gul/; "cabli" 'cable' /'kab.lih/. Examples of clusters occurring initially appear below:

/pr/	/'prendah/	'collateral'
	/iprayleh/	friar'
	/'premyuh/	'prize'
	/pru'webah/	'proof'
/pw/	/'pwertuh/	'port'
/py/	/'pyanuh/	'piano'
	/'pyansah/	'bond'
	/'pyabayan/	'combine'
/tr/	/'tratuh/	'treatment'
	/itren/	'train'
	/'triyanguloh/	'triangle'

/ty/	/'tyoh/	'uncle'
/kr/	/kristi'yanuh/	'Christian'
	/'krus/	'cross'
/kw/	/'kwadruh/	'frame'
	/'kwaltah/	money
	/'kwerdas/	'string or chord'
/bl/	/'blondeh/	'blond'
	/'blusah/	'blouse'
/by/	/ˈbyulin/	'fiddle'
	/'byasah/	'resourceful'
	/'byahe'/	'trip'
	/'byuduh/	'widower'
/dy/	/dya'manteh/	'diamond'
/gr/	/'graduh/	'rating'
/sw/	/'swabeh/	'mild'
/my/	/'myerkules/	'Wednesday'
/ny/	/'nyebeh/	'snow'

SYLLABLE STRUCTURE

Pampango syllable structure can be described in terms of vowel nucleus, simple or complex, preceded by an initial consonant and in word internal position, optionally followed by final consonant. Except for loan words there are no consonant clusters within the syllable. Consonant clusters occur only across syllable boundaries.

The minimum syllable in Pampango is CV. Since the longest permitted initial cluster is two consonants, the maximum syllable in Pampango is CCV.

Combinations of a semivowel and a vowel have been noted in the corpus: /yan/ 'that'; /ban'wah/ 'sky'; /me'yari'/ 'finished'; /wah/ 'yes'. When syllable-initial clusters occur intervocalically, the first consonant ends one syllable and the second begins the next.

Vowel clusters within or between syllables do not occur in Pampango. One-morpheme words have the following syllable structures:

```
'cold'; /'sobrah/ 'excess'; /'banteh/
'guard'; /'pulsuh/ 'pulse'

CVCCVC ... /sad'sad/ 'ashore'; /bun'tuk/
    'head'; /bus'bus/ 'hole'; / gas'tus/
    'expense'; /'lundag/ 'leap'; /'senyas/
    'hint'; /bun'duk/ 'mountain'
```

PAMPANGO SUPRASEGMENTAL PHONEMES

STRESS

Pampango has three phonemes of stress: primary /'/, secondary /^/, and weak (unmarked). The components of stress in Pampango seem to be length and intensity. The position of primary stress very often determines the meaning to be assigned to a word. The phonemic character of Pampango stress may be demonstrated by such pairs as the following:

/'sayah/	'skirt'	vs	/sa'yah/	'festivity'
/'balat/	birth-	vs	/ba'lat/	'skin'
	mark'			
/'paku'/	'nail'	vs ·	/pa'ku'/	'fern'
/'kuku'/	cough'	vs .	/ku'ku'/	'fingernail'

PITCH

Pampango intonation is identified as the fluctuating tone pattern accompanying the word uttered by a speaker. This sentence melody is coordinated with the lexical stress on the words in the sentence.

There are four levels of pitch in Pampango indicated by the symbols /1/, /2/, /3/, and /4/ with /1/ the lowest level of relative pitch and /2/, /3/, and /4/ successively higher levels. These pitches are relative within the phonemic phrase and are used to indicate the intonation pattern.

In general, Pampango intonation tends to go up at the end of the utterance. The normal statement pattern in Pampango is /213/ illustrated by the following sentences:

Statement.

Mataba ya i Linda. /mata'ba' ya i 'lindah/ 'Linda is stout.'

mata'ba' ya i 'lindah

Maputi ya i Mario. /mapu'ti' ya i 'maryoh/ 'Mario is fair-complexioned.'

Questions.

Interrogative sentences expecting answers either affirming or denying the question consist of a rise from a level 1 tone on the penultimate syllable of the utterance to a level 3 or 2 tone on the ultimate. The location of the lexical stress does not affect the pattern.

ma'manan ya i 'bonih

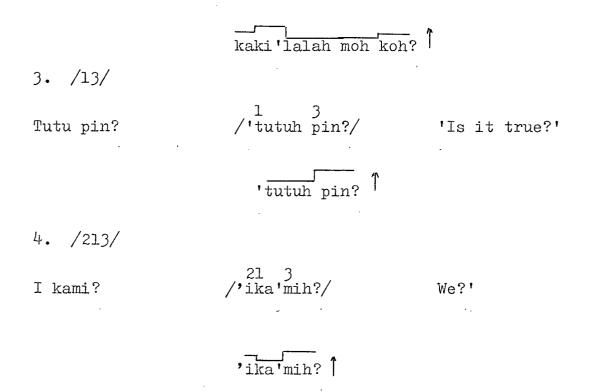
The normal Pampango yes/no question takes one of the following intonation patterns:

1. /3213/

Iya i Nena? /'i'yah i 'nenah?/ 'Is she Nena?'

2. /2312/

23 1 2
Kakilala mo ko? /kaki'lalah moh koh?/ 'Do you know me?'



Specific Questions. Specific questions in Pampango use the /2321/ or /231/ intonation patterns. Normally the pitch rises with stronger stress and falls with weaker stress. Some illustrations follow:

Nucarin ya munta? /nu'karin yah 'muntah?/ 'Where is he going?'

Capilan ya dinatang? /ka'pilan yah dina'tan?/ 'When did he arrive?

Requests. The intonation for request in Pampango is /232/ or /213/ as shown by the following examples: 1. /232/

Diyan men danum. /di'yan men da'num./ 'Give him water.'

JUNCTURE.

Pampango has three terminal junctures, rising /f/, falling /l/, and sustained juncture /l/. Further discussion of these junctures is not attempted here since it will create little or no problem in the transfer to Tagalog.

The following contrasting sentences as in Tagalog show a contrast in meaning determined by the terminal juncture.

RHYTHM

Pampango syllables are of regular length. Like
Tagalog it is syllable-timed. Pampango very rarely has
two contiguous syllables both under strong stress.
Tagalog has no reduced vowels but as earlier noted
Pampango /a/ does have an allophone / a/ in a restricted distribution.

The Pampango speaker tends to use full vowels all of about equal duration and emphasis.

CHAPTER IV

COMPARATIVE ANALYSIS OF TAGALOG AND PAMPANGO PHONOLOGY

TAGALOG AND PAMPANGO SOUND SYSTEMS COMPARED

Certain differences in sounds and intonation patterns exist between Tagalog and Pampango, and since students speaking the latter language and learning Tagalog manifest a 'foreign accent' that seldom fails to come to the attention of Tagalog listeners, these differences are distracting to the primary purpose of communication. which should direct attention to what is said, not to how it is said. It would, therefore, be a reasonable ideal to attempt to teach Tagalog sounds and intonation patterns correctly. In order to do this the teacher must be aware of the systems of Tagalog and the native language of her pupils, so that she can (1) model the Tagalog utterances correctly in the event she does not speak the language natively, and (2) offer other specific guidance to the pupils she is teaching whenever they use their native language patterns while speaking Tagalog.

In the comparison of the sound structures of Tagalog and Pampango it was necessary to find out which sounds Tagalog and Pampango have in common, which sounds

are similar, and which are different. As Lado defines it, "two sounds are similar if they have the same features of sound which are found to be significant phonetic components of phonemes." Among these features are (1) vibration of the vocal chords versus non-vibration; (2) air stream flowing through the mouth, nose or both (oral, nasal, nasalized); (3) various kinds of articulation and various points of articulation.

After the sounds being compared are shown as the same, similar or different, they are then grouped into categories. To arrive at the hierarchy of difficulty, the segmental phonemes in the target language, which in this case is Tagalog, were arranged in order from the most difficult to the easiest. A knowledge of this hierarchy of difficulty is imperative if we wish to predict the errors that a Pampango learner of Tagalog would be likely to commit, and to know which items need more intensive drill than the others. Below are two categories arranged according to difficulty:

New category - sounds or groups of sounds
 which exist as phonemes in the target language,

Robert Lado, <u>Linguistics Across Cultures</u> (Michigan: The University of Michigan Press, 1957), p. 9.

- but no similar sounds exist as phonemes or as allophones in the native language.
- 2. Transfer or reinterpreted category sounds or groups of sounds which exist as phonemes in the native language, but the phonetic realizations are different from those in the target language; hence the native sounds may intrude in the target language.

In the light of these points, it can be safely said that the most difficult problems which the difference in phonemic inventory between Tagalog and Pampango presents to the Pampango learning Tagalog are the fricative problem, the trill problem, the central vowel problem, the back vowel problem, and the diphthong problem.

Consonants, Vowels, Diphthongs

Below are parallel charts of Tagalog and Pampango sounds, Figure 8. The chart is presented in three columns: the structure of Tagalog sounds in column one, the structure of Pampango sounds in column three, and between them in column two is a picture of the conflict of systems which results when the sounds of Pampango are superimposed on the structure of Tagalog.

Each column in the chart is presented in a sche-

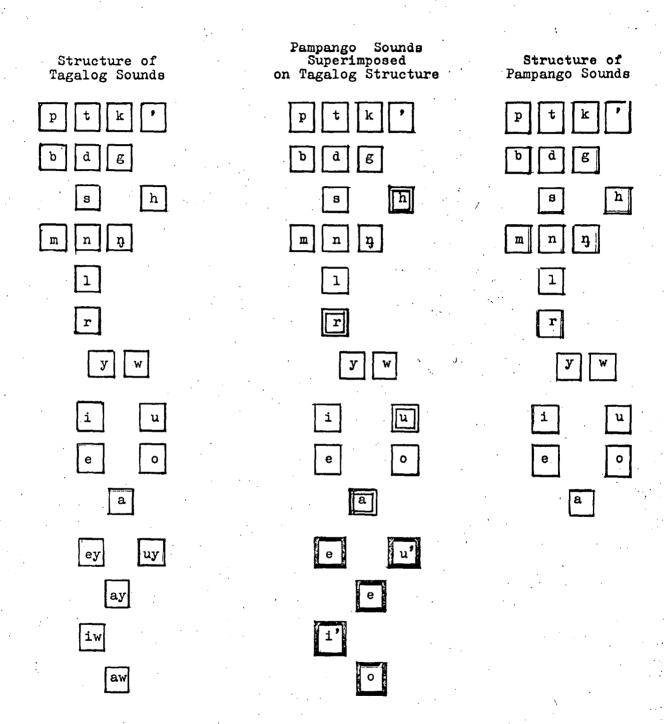


Figure 8. A Two-Dimensional Schematic Arrangement of the Structures of Tagalog and Pampango Sounds

matic arrangement to show both the differences and similarities of the languages being analyzed. The rows in each of the three columns represent the different sounds: stops, fricatives, nasals, liquids, and semivowels. Then follow a block of simple vowels and two blocks of diphthongs. The files of each column represent the position of articulation, from labial, to dental, to palatal, velar and glottal.

A heavy line around a block in the middle column shows "cases vides" or holes in the pattern of Pampango, as compared to Tagalog. Since such holes or gaps have a tendency to become filled, the symbols in such blocks represent the most likely substitute available from the Pampango inventory. A double line around a block indicates a difference in the phonetic realization of the sounds which will prove to be of considerable difficulty to Pampango learners of Tagalog.

The Glottal Stop // and /h/. A Pampango learner of Tagalog has difficulty with these sounds. The // sound occurs in all positions but there are some cases where a Pampango speaker tends to substitute this sound // for an /h/ as in the Tagalog words hulaan /hu'la'an/ 'guess' and mahinhin /mahin'hin/ 'modest'. A Tagalog

listener would hear /'u'la'an/ and /ma'in''in/ from a Pampango speaker because he is not actually producing the /'/ sound but a "breathy glottal stop". But very rarely or not at all does a Pampango substitute an /h/ for a /'/ except in very few loan words.

The letter h in Spanish, after which the Pampango orthography is patterned, is not sounded in the spoken language. A Pampango speaker likewise does not sound the phoneme /h/ in his speech even when he sees it in written form. Tagalog initial or medial /h/ is dropped or replaced by another sound; thus: hangin/ 'hangin/ 'wind' is /'anjin/; harana /ha'ranah/ 'serenade' is /'a'ranah/; mahaba /ma'haba'/ 'long' - /ma'kaba'/; bahay /'bahay/ 'house' - /'ba'eh/; halus 'almost' - /'alus/.

_/r/. Both Tagalog and Pampango have phonemic /r/, but phonetically there is very little in common between Tagalog /r/ and Pampango /r/ except in vibration. Tagalog /r/ is essentially several flaps or taps. At the beginning of stressed syllables, at the end of words, and at the end of syllables before a following syllable starting with a consonant, the Tagalog /r/ taps the upper gum ridge several times, while the Pampango /r/ is often equal to a simple vibration of a trill, sometimes to a very short stop.

 \sqrt{a} . The allophone of the Pampango low central vowel /a/ is $\sqrt{9}$ when in unstressed syllables. Pampango \sqrt{a} , which is a raised central vowel, is clearly bound up with stress.

The \(\sum_a \) sound will not be very difficult to pronounce for most speakers of Pampango because their language has a similar sound and a slight variation world make any difference in Tagalog.

- /'ta'uh/; <u>karo</u> /'karoh/ 'car' - /'karuh/.

<u>Diphthongs</u>. Pampango does not have the following diphthongs /iw/, /ey/, /ay/, /aw/, and /uy/. They are therefore classed as new categories for a Pampango learner of Tagalog.

For the new diphthong sounds, Pampango learners of Tagalog substitute the following:

- (a) /iw/ replaced by /i/ or /i'/
 giliw 'darling' /'gili'/ for /'giliw/
 sisiw 'chick' /'sisi'/ for /'sisiw/
 paksiw 'fish steeped in vinegar'
 /pak'si'/ for /pak'siw/
 baliw 'crazy' /ba'li/ for /ba'liw/
 aliw 'entertainment' /'a'li/ for /'a'liw/
- (b) /ey/ replaced by /e/
 reyna 'queen' /'renah/ for /'reynah/
 may 'there is' /meh/ for /mey/
 peyneta 'comb' /pe'netah/ for /pey'netah/
- (c) /ay/ replaced by /e/
 bahay 'house' /'baeh/ for /'bahay/
 taglay 'borne' /tag'leh/ for /tag'lay/
 sakay 'passenger' /sa'keh/ for /sa'kay/
 inay 'mama' /'i'neh/ for /'i'nay/

- (d) /aw/ replaced by /o/
 hilaw 'uncooked' /hi'loh/ for /hi'law/
 silaw 'to be dazzled' /si'loh/ for /si'law/
 sabaw 'broth' /sa'boh/ for /sa'baw/
 gusilaw 'eyeshade' /gusi'loh/ for /gusi'law/
 bingaw 'notch' /bi'noh/ for /bi'naw/
- (e) /uy/ replaced by /u'/
 aruy 'ouch' /'a'ru'/ for /'a'ruy/
 kasuy 'cashew' /ka'su'/ for /ka'suy/
 tsapsuy 'chopsuey' /'tsapsu'/ for /'tsapsuy/
 wansuy 'parsley' /wan'su'/ for /wan'suy/

/bdg/. With the bilabials, dentals and velars the difference between Tagalog and Pampango is almost negligible. Pampango learners of Tagalog will have no difficulty in learning these sounds.

/ptk/. These phonemes are similar in point of articulation in both Tagalog and Pampango. They distribute similarly in the two languages, initially, medially, and finally. They will not cause difficulty.

/mnn/. They are similar in distribution in Tagalog and Pampango. A Pampango speaker will have no special problem with these consonants.

1/. They are very similar phonetically in both languages and will not create a problem.

/y/ and /w/. Prevocalically they are identical in both Tagalog and Pampango. Postvocalically, they do not form diphthongs in Pampango as they do in Tagalog /iw/, /ey/, /ay/, /aw/, and /uy/.

Consonant Clusters. In initial position Tagalog and Pampango share a number of consonant clusters, and these can be expected to cause the Pampango no difficulty. New clusters in Tagalog, especially those occurring medially and finally, do require teaching. But generally, some clusters and cluster types will be easier for the Pampangos to learn due to the existence of the cluster or cluster types in loan words used widely in their language.

Intonation Systems

Small differences exist between the intonation systems of Tagalog and Pampango. Both languages have similar types of final rising juncture. The rise in both is relatively short and the last syllable is slowed down slightly. Tagalog /1/ and Pampango /1/ are identical for practical purposes, as can be noted in the following equivalent sentences:

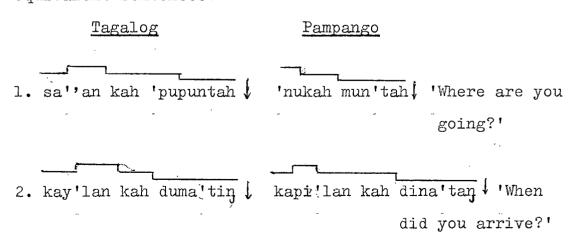
Pampango

1. mala'kih bah 'i'yan mara'gul yah 'i'yan 'Is that big?'

2. kila'lah moh si'yah kakila'lah meh 'Do you know him?'

3. mata'mis an me'lon maya'muh in me'lon 'Is the melon sweet?'

Information questions are commonly pronounced in Tagalog on the pattern /321 / or /2321 /, which is almost exactly duplicated in Pampango. Hence, a Pampango will have no problem in learning the Tagalog pattern for this type of question. Any slight difference can be heard easily and corrections should not be difficult. This can be illustrated in the following almost but not quite equivalent sentences:



The normal statement pattern in Tagalog is /231 /.

This rising-falling pattern will present difficulty for

Pampango speakers because their language uses a different

pattern. Pampango has a /213 / intonation. Much drill on

this difference should be given to Pampango speakers be
cause they are likely to carry over their intonation

patterns in speaking Tagalog.

Stress. Stress in both Tagalog and Pampango is characterized by a lengthening of the stressed syllable but in Pampango this lengthening seems to be a little more prominent, and of greater duration. In Tagalog length is conditioned almost entirely by stress. Note the following contrasts:

Tagalog	Pampango	
'ak•lat	'ak··lat	'book'
itu•big	'tu••big	'water'
'ba•toh	"ba••tuh	îstone î
'lo•roh	lo••ruh	'parrot'
'da•mit	'da••mit	'clothes'
nob•yoh	'nob••yuh	'bridegroom'

The length of the intonation phrase in Pampango seems to be somewhat shorter than in Tagalog, that is, there are more frequent phrase boundaries, or junctures, within sentences. This characteristic of Pampango pronunciation, when superimposed on Tagalog, contributes to the Tagalog speaker's judgment that the Pampango pronunciation has a sing-song effect. This can be illustrated in the following:

Tagalog

mey magan'dan 'baro' si 'nenah. 'Nena has a beautiful dress.'

Pampango

',atin yan masan'tin 'baru' si 'nenah.

Tagalog

'a'noh an gus'toh moh?

'What do you want?'

Pampango

na nun | bu'rih | moh?

Rhythm. The difference between the rhythm of Pampango and that of Tagalog is almost negligible.

Pampango and Tagalog syllables are of more or less equal

duration. More than in Tagalog, Pampango stress-contrasts are sometimes neutralized to favor the regular rhythmic alternation of strong and weak stresses. There are no phrasal restrictions upon Tagalog and Pampango stress.

CHAPTER V

SUMMARY AND CONCLUSIONS

The important facts about this study on the taxonomic phonological analysis of Tagalog and Pampango may be summarized as follows:

Consonants. The Tagalog sound system has sixteen consonantal sounds, of which seven are stops, two are fricatives, three are nasals, two are glides or semivowels, one is a lateral, and one a trill. All of these consonants are found in Pampango.

The three nasals are produced more or less identically with their Pampango counterparts. They occur in similar phonetic environments.

 $\operatorname{\mathcal{L}rJ}$ in Tagalog is always an apico-alveolar

trill regardless of environment. It does not occur in word-initial or word-final position except in loan words. In Pampango it is an alveolar flap.

The lateral <u>___l___</u> is generally articulated on the alveolar ridge regardless of phonetic environment for both.

The two glides \(\sum_w \) and \(\sum_y \) in Tagalog occur in syllable-initial and syllable-final positions. \(\sum_y \) occurs at the beginning and in the middle of words in the syllable-initial position and generally before \(\sum_a \), \(\sum_o \), and \(\sum_u \) and before \(\sum_e \) only in loan words. \(\sum_w \) occurs only before \(\sum_a \) and \(\sum_i \) at the beginning and in the middle of words, and before \(\sum_e \) in loan words. Pampango semivowels \(\sum_w \) and \(\sum_y \) occurs in initial position only, apart from the combination \(\sum_e \).

There are two fricatives [h] and [s]. Tagalog [s] is essentially similar to Pampango [s]. The voiceless fricative [h] is stable in Tagalog but difficult to classify as a phoneme in Pampango.

<u>Vowels</u>. There are five vowels in Tagalog generally similar to their counterparts in Pampango. In both languages, the vowels are monophthongal, even when they are lengthened in production. Pampango speakers tend to replace Tagalog final /o/ by the higher tense vowel _u_7.

Diphthongs. There are six diphthongs in Tagalog:

__ey_7, __uy_7, __ay_7, __oy_7, __iw_7 and __aw_7.

The last four occur only in word-final position and

__ey_7 and __uy_7 in medial position. Pampango does not have the following Tagalog diphthongs: __ey_7, __uy_7,

__ay_7, __iw_7, and __aw_7.

Stress. Tagalog stress, of which there are only the strong and the weak forms, is signalled primarily by lengthening of the vowel in the syllable. Strong stress generally occurs on the penultimate and final syllables of isolated words and phrases. Pampango has three levels of stress.

Intonation. The pitch phonemes and pitch contrasts of Pampango may be transferred to Tagalog intact with a little variation especially in the rising-falling pattern.

Rhythm. The differences between the rhythm of Pampango and that of Tagalog are negligible as the syllables are of more or less equal duration, that is, the duration of the syllables does not vary with their phonemic composition nor with the suprasegmental environment.

CONCLUSIONS

The foregoing discussion points to the following conclusions:

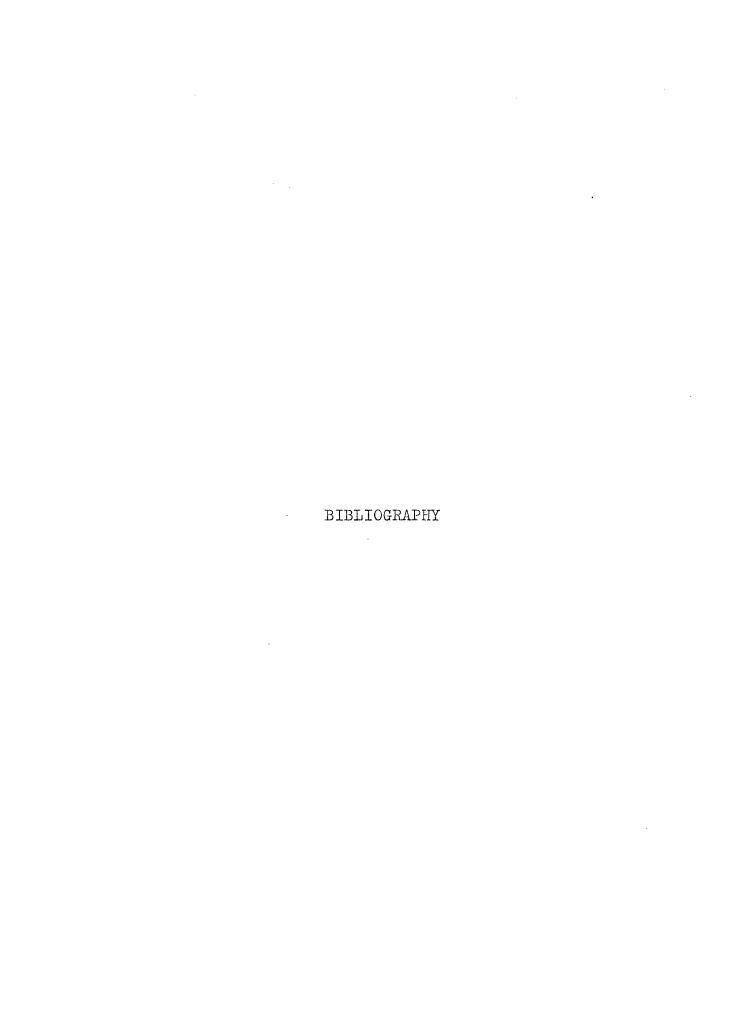
- 1. Basically, there are more similarities than differences in the form, structure, and distribution of the phonemes in Tagalog and Pampango, but it can be safely predicted that phonemic contrasts based on sounds which are phonetically distinct both in Tagalog and in Pampango will be more readily acquired than sounds where the phonetic data does not serve to reinforce and emphasize the phonemic contrast. It can be predicted also that the phonemic contrasts which will be hardest to acquire will be those in which the Pampango can use part, but only part of the allophonic material of Pampango.
- 2. The pronunciation difficulty of Pampangos learning Tagalog will arise from the systematic differences in phonological structure between the two languages, such as differences between the phonemic inventories, differences in the phonetic realization of phonemes which are being learned by the students, and differences in the distribution of phonemes which occur in both languages.

Teachers and textbook writers should be aware of the fact that the learning of a second language is influenced by the habits one has formed in his first language, that is, the learner tends to produce the second language in the image of his native language. In view of this, the materials of instruction in the second language should be based on a systematic comparison between the native language of the learner and the target language. A comparative and contrastive analysis of the two languages will bring out the points of similarity and difference between the two. Where the two languages are alike, the habits in the first language will help in learning the second, where they differ, the habits of the native tongue will hinder or act as a roadblock in learning the target language. That being the case, the materials of instruction should consider probable points of difficulties and focus more attention upon them in order to forestall the formation of wrong language habits.

Furthermore, the comparison of the student's native language and the language to be learned furnishes a basis for better description of the language-learning problems involved, preparation of teaching materials, and constructions of tests for diagnostic and evaluation

purposes. It is not only possible to predict areas of interference as well as facilitation between the two languages but also to rank into different levels of ease and difficulty. Teachers with a knowledge of such problems can be expected to guide their students better. They will understand the cause of an error and be better able to prepare corrective drills.

- 4. Real difficulties can be much more efficiently attacked if they are taken up one at a time, at least at the beginning.
- 5. The textbook writer must provide the actual materials aimed at enabling the student to overcome his difficulties. His task is to organize the problems listed in the analysis into a series of lessons of approximately equal difficulty. Then, the completed lesson must be interpreted by the teacher to a class trying to learn Tagalog. The teacher should be aware of all the problems which originate from the native language of the students as provided by the contrastive analysis.



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