# GARAWA PHONOLOGY

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#### O. INTRODUCTION

The purpose of this paper is to present a phonemic analysis of the western dialect of the Garawa language. A description is given of the phoneme, syllable and word levels.

Garawa is spoken by about 300 people living in the northeast of the Northern Territory of Australia, from Borroloola to Doomadgee in Queensland. There are two dialects of Garawa, eastern Garawa spoken in the area of Wollogorang cattle station and western Garawa spoken in the area of Robinson River cattle station.

#### 1. CONSONANTS

There are nineteen consonantal phonemes in Garawa: the voiceless stops /p, t, t, tj, jk, k/ and the voiced nasals /m, n, n, nj, jn, n/ contrasting at the bilabial, apico-alveolar, apico-domal, lamino-alveolar, lamino-velar and velar points of articulation; the voiced laterals /l, l, lj/ contrasting at the apico-alveolar, apico-domal and lamino-alveolar points of articulation; a voiced apico-alveolar vibrant /f/; and the voiced semi-consonants /w, y, r/ occurring at the bilabial, lamino-palatal and apico-domal points of articulation.

## 1.1 CONSONANT CONTRASTS

/garapa/

The stops contrast in word initial position:

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they (dual)
      /pula/
                                         tree (species)
      /tulala/
                                         bird (generic)
      /tiulaki/
                                         south
      /kula/
word medial position:
                                         bark
      /wapa/
                                         opossum fur
      /matamata/
                                         goanna (species)
      /watapa/
                                         quickly
      /watja/
                                         down
      /wajka/
                                         call out
      /waka/
   The nasals contrast in word initial position:
      /mulu/
                                         we (plural excl)
      /nuřu/
                                         he
      /niulu/
                                         hackbone
      /guluf/
word medial position:
                                          that (non-specific)
      /nanama/
                                         at night
      /munana/
                                          father's oldest brother
      /panana/
                                          older brother
      /puwanja/
                                          north across something
      /laginajga/
                                         white man
      /munaga/
   The laterals, the flap /f/, and the semi-consonant /f/ contrast in
word medial position:
                                          skin grouping
      /kagala/
                                          lying face down
      /tjuwa]a/
                                          mammal (species)
      /walia/
                                          horse
      /nakařa/
      /natara/
                                          8un
   The apico-alveolar stop /t/ and flap /t/ contrast in word medial
position:
                                          opossum fur
      /matamata/
                                          salt
      /nafawa/
   The apico-domal stop /t/ and semi-consonant /r/ contrast in word
medial position:
                                          goanna (species)
      /watapa/
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drink

The bilabial stop /p/ and semi-consonant /w/ contrast in word initial position:

/patja/ /watja/ play quickly

word medial position:

/gupugu/ /nuwu/

boomerang (generic)

water

The lamino-alveolar stop /tj/ and lamino-palatal semi-consonant /y/contrast in word initial position:

/tiunku/

sit

/yundu/

on top of

word medial position:

/yatji/ /mayi/

country

tooth

# 1.2 CONSONANT VARIANTS

Both the apico-domal and thelamino-alveolar stops /t/ and /tj/ have an unreleased allophone [t] and [tj]:

/kutipa/

[ku<sup>it]</sup>p∧"]

search

[patpx\*tii] /patpattji/

tree (species)

A voiceless aspirated velar stop [kh] occasionally occurs in word initial position as an allophone of the velar stop /k/:

/kařuwa/ /kafi/

[kařuwn v khařuwn ] name of language [kaře ∿ khaře]

The bilabial stop /p/ has a voiced allophone [b] in word initial position preceding semi-consonant /r/:

/pratji/

[brait]

tail

east

/praki/

[braki]

ant (species)

Each of the lamino-alveolar consonants /tj, nj, lj/ has an allophone with palatal release  $[tj^{\gamma}]$ ,  $[nj^{\gamma}]$ ,  $[lj^{\gamma}]$ , which occur in free variation with it preceding a vowel:

/tialu/

[tjalu v tjyalu] [pa<sup>i</sup>tjn<sup>v</sup> ~ pa<sup>i</sup>tj<sup>y</sup>n<sup>v</sup>] arm

/patja/ /niulu/

[niviv ~ niyviv]

play 'nе

/punji/

[po'njı ∿ po'njyı]

grass (species)

/kulja/

[ku<sup>i</sup>lin" ~ ku<sup>i</sup>liyn"]

raw

The apico-alveolar vibrant  $/\tilde{f}/$  fluctuates freely with a voiceless flap allophone [ $\tilde{k}$ ] in word final position; in emphasized speech the voiceless trill allophone [ $\tilde{k}$ ] tends to occur in word final position:

/kaři/	[kaře]	east
/liřka/	[leřk∧*]	first born
/wałmpa/	[wa¥mp∧*]	blow
/yila}/	[yel∧"ř ∿ yel∧"Ř]	poison
/pitjpawař/	[pi <sup>tj</sup> p∧~w∧~̃̃̃̃]	fierce

#### 2. VOWELS

There are three vowel phonemes /i, a, u/. These contrast at front, central and back points of articulation.

# 2.1 VOWEL CONTRASTS

/mili/	more
/mali/	flood waters
/mulu/	nose
/gali/	we (dual excl)
/gala/	while
/ŋalu/	cloud

## 2.2 VOWEL VARIANTS

Each vowel has a retroflexed allophone preceding apico-domal consonants:

/yilař/	[ye̞]ʌˇʔ]	poison
/karila/	[kareln*]	hip
/kuṇŋař/	[ku̞n̞ŋʌˇř]	smoke

For each vowel there is a range of allophones which vary considerably; however the following distributions of the allophones tend to occur.

The front vowel /i/ has the allophones [i], [i], [e], [e],  $[e^{i}]$ ,  $[e^{i}]$ .

The allophone [i] occurs between non-velar and lamino-alveolar or lamino-palatal consonants:

/pitjal/	[pitjx*1]	partly
/miya/	[miyA*]	snake (generic)

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The glide [e] occurs between velar and lamino-alveolar or lamino-
palatal consonants:
                        [ke<sup>i</sup>njp∧<sup>*</sup>]
       /kinjpa/
                                                  caught in something
                        [mekuke 1 yi]
       /mikukiyi/
                                                  don't!
   The lengthened glide [e : ] occurs preceding lamino-velar consonants:
                         [ke<sup>i</sup>·jnjki]
       /kiiniki/
                                                  flying fox (species)
   The allophone [e] tends to occur contiguous to laterals and vibrants:
                        [kareln*]
       /karila/
                                                  hip
       /liřka/
                        [leřkn']
                                                  first born
   The allophone [\epsilon] tends to occur following bilabials:
       /piwali/
                        [pswale]
                                                  opossum (species)
       /miku/
                        [meku]
   The allophone [i] tends to occur in other environments:
      /nitii/
                        [nitit]
                        [tiguitji]
      /tigutji/
                                                  tree (species)
   The central vowel /a/ has the allophones [\Lambda^{\vee}], [a], [a^{\vee}], [a^{\dagger}].
Γα<sup>1</sup>·1.
   The glide [a ] occurs preceding lamino-alveolar and lamino-palatal
consonants:
                        [ma<sup>i</sup>yı]
[ya<sup>itj</sup>pʌ*]
      /mayi/
                                                  tooth
      /yatipa/
                                                  burn
   The lengthened glide [ai·] occurs preceding lamino-velar consonants:
                        [ma<sup>i</sup>·jk∧*⊁∧*]
      /majkařa/
                                                 husband and wife
                        [kuln"na i · inn"]
      /kulanajna/
                                                  south across something
   The low back allophone [a'] tends to occur between /w/ and /w/:
      /wawafa/
                        [wa wa Ya ]
                                                  baby boy
                        [wa we]
      /wawi/
                                                  horse
   The low allophone [a] tends to occur in other stressed syllables:
      /tjalu/
                       [tialv]
                                                  lower arm
      /nařawa/
                        [nafn'wn']
                                                  salt
   The lower mid allophone [ " ] tends to occur in other unstressed
syllables:
                        [nanx mx nnx]
      /nanamanna/
                                                  same one
                        [wokn"fn"]
      /wukařa/
                                                  tree (species)
   The back unrounded vowel /u/ has the allophones [v], [o], [u^{\dagger}],
[u^{1}\cdot], [o^{1}], [o^{1}\cdot].
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The glide [u ] occurs between non-bilabial and lamino-alveolar or lamino-palatal consonants:

The lengthened glide  $[u^{i}\cdot]$  occurs between non-bilabial and lamino-velar consonants:

The glide [o<sup>i</sup>] occurs between bilabial and lamino-alveolar or laminopalatal consonants:

The lengthened glide  $[o^{\dagger}\cdot]$  occurs between bilabial and lamino-velar consonants:

The high allophone [v] tends to occur between non-bilabial and bilabial or apico-alveolar or velar consonants:

```
/lukuluku/ [lukuluku] around
/tjuntuř/ [tjuntuř] sand
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The mid allophone [o] tends to occur word finally following bilabial consonants or between bilabial and bilabial or apico-alveolar or velar consonants:

/buntal/	[bontA <sup>*</sup> 1]	river
/kumu/	[kumo]	flood waters

## 4. SYLLABLES

There are three syllable types each with a single vowel nucleus. The prenuclear margin may be filled with one or two consonants while the postnuclear margin is limited to one consonant.

CV	ma.yi	tooth
CVC	t ja]	flower (generic)
CCV	wał.mpa	blow

A closed variant of the CCV syllable type [CCVC] occurs as the second syllable of a word between a CCV syllable and a CV syllable.

Words consist of from one to ten syllables. Words of six syllables or more are not frequently heard. Syllable types CV, CVC, and CCV may occur in any position in the word. However no more than three CVC syllables have been heard occurring contiguously.

ka.la.wujŋ.jku.fu	inside
ŋam.pa.la.ŋin.ku.ya	our two
miņ.miņ.tjal	eyebrow
kun.til.mpa	make dry
pŗa.tji	ant (species)
yuř.mpa.ka	(he is) shifting

## 5. WORD STRESS

In Garawa primary stress (indicated in this section by ') is always on the first syllable of the phonological word. Primary stress is manifested by loudness, high pitch and length.

```
yámi eye
púnjala white
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Secondary stress (indicated by ') occurs on the penultimate syllable of words with four or more syllables. Secondary stress is manifested by less length and loudness than primary stress, while pitch is usually no higher than that of contiguous syllables. In words of six or more syllables tertiary stress (indicated by -) occurs on every second syllable preceding the secondary stress but never on the second syllable.

```
wátjimpànu armpit
kámalařinji wrist
yákalākalàmpa loose
nánkiřikTřimpàyi fought with boomerangs
námpalāninmūkunjīna at our many
nářininmūkunjTnamiřa at your own many
nímpalāninmūkunānjimiřa from your own two
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