#### A FIRST LOOK AT TIDORE PHONOLOGY

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The phonological system of Tidore, a language of the North Halmaheran Family of the West Papuan Phylum is described. The data and analysis presented represent the dialect spoken in the villages of Soa Sio and Gura Bunga on the island of Tidore in the province of Maluku, Indonesia. A description of the 19 consonants and five vowels is given along with syllable patterns. Attention is given to the process of consonant alternation with the addition of the N- prefix. Discussion is also given to the manner in which Tidore adapts borrowed words to fit its phonological system.

#### 1. INTRODUCTION

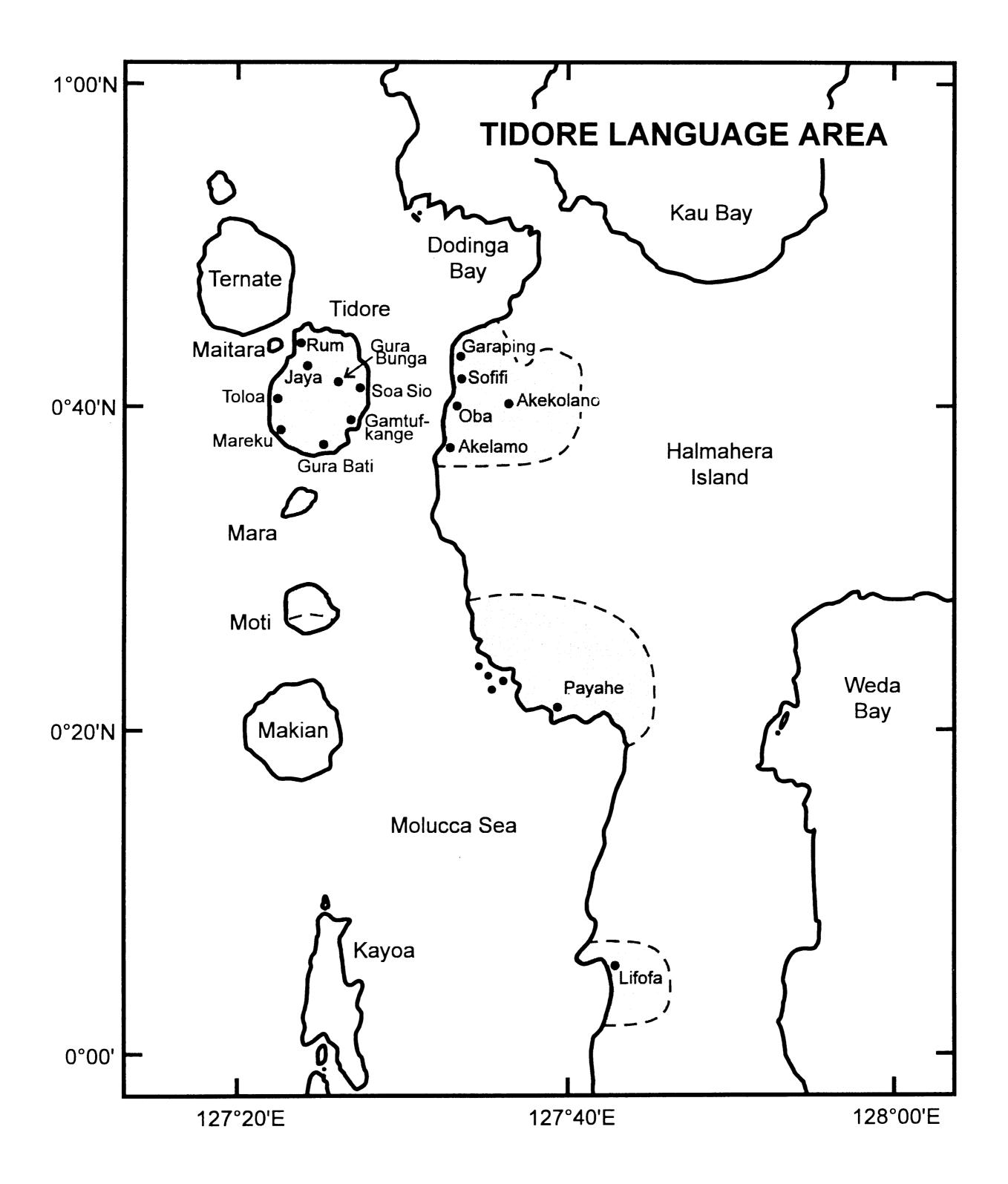
This article presents a brief first look at the phonology of the Tidore language and attempts to make some initial comparisons between Tidore and the related languages in Halmahera. Tidore is a North Halmaheran language of the West Papuan Phylum (Voorhoeve 1984). The North Halmaheran Family, which consists of ten languages indigenously spoken on the northern peninsula of Halmahera, includes the distinct features of masculine-feminine gender distinction both in the third person singular pronouns, and in verb agreement markers. These languages are: West Makian, Ternate, Tidore, Sahu, Tabaru, Loloda, Galela, Tobelo, Pagu, and Modole and are shown on Map 2 (page xii). Tidore is spoken on the islands of Tidore, Maitara, Mara, and the northern half of Moti, and coastal regions of western Halmahera, as shown by Map 4 (page 44). On Tidore there are two dialects, one encompassing the Soa Sio region, and one the Mareku region. The only difference in the two dialects is the occasional change in vowel choice, or the addition of a front high vowel word finally. The dialects are mutually intelligible.

Research on this paper was done on the island of Tidore in the villages of Gura Bunga, Gamtufkange and Soa Sio<sup>1</sup>. The Soa Sio dialect spoken in the before mentioned villages was the main source of data. The data was gathered from July-December 1993 and March-April 1994.

#### 2. THE NORTH HALMAHERAN FAMILY OF LANGUAGES

Up until now there has been an almost complete lack of study and research regarding the Tidore language. To the authors' knowledge, this is the first study of Tidore phonology, with the exception of an informal paper researched by *Proyek Penelitian Bahasa Dan Sastra Indonesia Dan Daerah Maluku* (Lilipaly et. al. 1981/82), and a cursory glance by Voorhoeve (1982:37-45) in his attempt to compare Tidore with West Makian. In past research of North Halmaheran languages, Tidore has been placed in a subfamily within the North Halmaheran Stock separated from West Makian (Grimes 1984:31). This grouping shown in Figure 1, comes not from an analysis of shared innovations and retentions, but rather from a more simplistic comparison of lexical items.

Voorhoeve had also initially posited this grouping using quantitative evidence (based on lexical similarity), but upon closer examination of West Makian, Ternate and Tidore, he came up with a different classification which places these languages in a subfamily of their own. Voorhoeve divides the North Halmaheran Stock into two families, classifying West Makian, Ternate, Tidore and possibly Sahu as part of the Southern Subfamily, and classifying all remaining languages within the Northern Subfamily (Voorhoeve 1982:38,39).



Map 4. Tidore language area, spoken primarily on the island of Tidore, and also on adjacent islands and neighboring regions of the west Halmaheran coast.

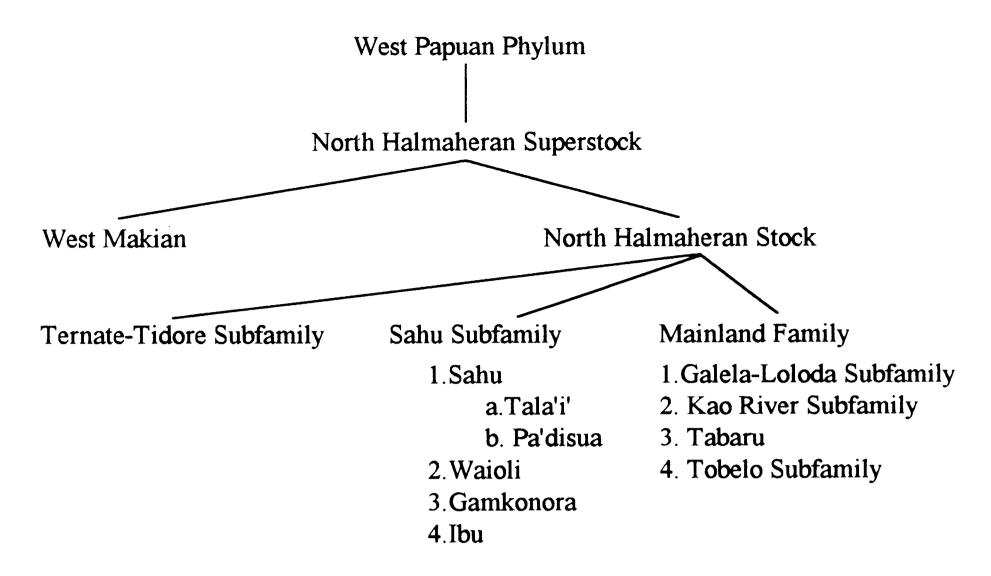


Figure 1. Grimes' Lexico-statistic grouping of the North Halmaheran Family. (Grimes 1984:42)

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There are also arguments placing both Ternate and Tidore in a separate sub-group of the Southern subfamily, apart from West Makian and other mainland languages. Quantitatively, Ternate and Tidore show a 75% shared lexical similarity with only a 50% similarity with its next language relative, Sahu (Grimes 1984:25). It is also interesting to note that Tidore and Ternate do not have some of the features of the Northern Subfamily: (1) West Makian (Voorhoeve 1982:12), Tidore and Ternate generally place the noun object after the verb. (2) Tidore and Ternate do not have the object markers on the verb which is a unifying feature of other North Halmaheran languages. (3) Tidore has prepositions as well as postpositions which is in contrast with neighboring languages. (4) Voorhoeve gives a lengthy discussion of several phonological evidences shared by West Makian, Tidore and Ternate (Voorhoeve 1982:38). His arguments include the following:

- a. The loss of initial [k] in the word for skin: West Makian fi, Tidore, Ternate ahi, but Galela kahi, Modole 'ai, and all others except Sahu kai.
- b. [t]+[u] where other languages have [d]+[i], for example in the word for sky: West Makian tupam; Tidore, Ternate tufa; dipa, diwanga, dihanga, diwama in other languages.
- c. The presence of an initial alveopalatal nasal in the word *fish*: West Makian yao (from nyao), Ternate, Tidore nyao; Sahu nyao'o; all other languages have initial [n]: nao, naoko, nao'o. (Voorhoeve, 1982: 38).

Finally, Tidore and Ternate have a very distinctive feature not found elsewhere - that of a 1st person pronoun which differentiates between masculine and feminine speakers. The following is a brief example from Tidore:

(1) Fajaru totagi toma gam.
1sg.f. go to village.

I (feminine) go to the village.

(2) Fangare toloya dedo-dedo.
1sg.m. run quickly.

I (masculine) run quickly.

Thus, based on the phonological and grammatical evidences listed above, it seems most likely that Tidore is grouped together with Ternate as a subgroup of the Southern Subfamily, following Voorhoeve's proposed classification as shown in Figure 2.

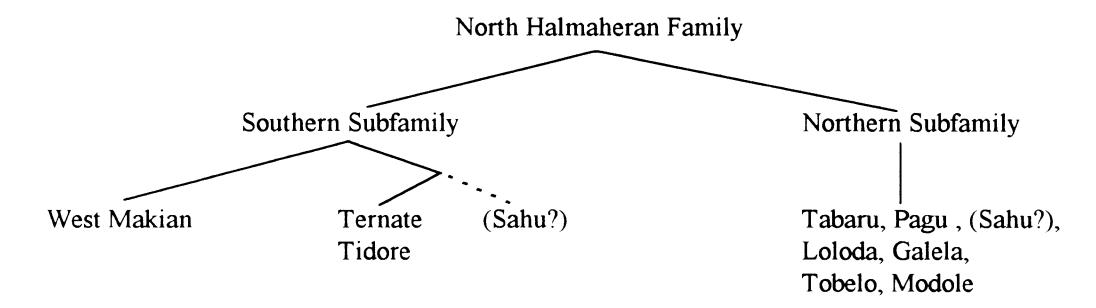


Figure 2. Voorhoeve's classification of the North Halmaheran Language Family. (Voorhoeve 1982:39)

#### 3. PHONOLOGY

#### 3.1 Word Stress

Word stress is on the penultimate syllable of multisyllabic roots.<sup>2</sup> This is much the same as Galela (Shelden 1989), but different from Loloda and Tobelo (van Baarda 1904:356-9) and Tabaru, where stress can occur on the antepenultimate or penultimate syllable depending on affixation (Kotynski 1988:156). This is also much different than Sahu, where the stress is phonemic (Visser and Voorhoeve 1987:19). Tidore stress is as follows:

(3)	ane	['ane]	'forehead'
	gumi	[ˈgumi]	'moustache'
	dofolo	[do'folo]	'head'

There are several words in Tidore which at first glance sound as if they have ultimate stress, but when listened to in slow speech the last vowel appears to be lengthened (see discussion on geminate vowels, Sec. 3.2.7). These geminate vowels, however, were not used in the Tidore orthography since the people themselves felt uncomfortable writing them. Instead, an accent mark was chosen when it was proved to be phonemic. The following examples show how geminate vowels affect stress:

(4)	karé	[kaˈree]	'here'
	katá	[kaˈtaa]	'there'
	mafú	[maˈfuu]	'to sell'
	halí	[haˈlii]	'family'
	kombó	[kom'boo]	'little'

## 3.2 Phonemes

## 3.2.1 Consonant Inventory

Tidore has a total of 19 consonants including eight stops, three fricatives, four nasals, one lateral, one vibrant, and two semivowels. These are listed in the table below.

Table 1. Tidore Consonants.

	<u>labial</u>	<u>alveolar</u>	alveopalatal	<u>back</u>
	p	t	C	k
voiced stops	b	d	j	g
fricative	f	S		h
nasal	m	n	ny	ng
laterals		1	·	
vibrant			r	
semivowels	W			у

Phonetically Tidore has a glottal stop, but this is not phonemic, so it will not be written in any further discussion of Tidore. When the glottal stop is used, it is found word initially before vowels, and word finally after vowels. This is different than in Sahu where the glottal stop is phonemic (Visser and Voorhoeve 1987:12-16). Some examples of the phonetic occurrence of the glottal stop are shown below:

(5)	['?uku]	'fire'
	['?ing]	'tooth'
	['nene?]	'grandmother'
	['tete?]	'grandfather'

## 3.2.2 Consonant Description

All stops (p,b,t,d,c,j,k,and g) occur in syllable initial position and word medial position, but not in word final position. Examples of each are presented below:

/p/	[p] voiceless unaspirated bilabial stop					
	(6)	peka pane	'to fall' 'to drive'	bapo pipi	'cutting board' 'money'	
/b/	[b] void	ced bilabial stop				
	(7)	bao baso	'current' 'to hear'	kabi tubu	'goat' 'peak'	
/t/	[t] voiceless unaspirated alveolar stop					
	(8)	tamao tagi	'ax' 'to walk'	otu foturu	'to sleep' 'strong'	

/d/	[d] voiced	l alveolar stop			
	(9)	dahe dulu	'true' 'back'	kadu moda	'sack' 'mouth'
/c/	[c] voicel	ess alveopalatal stop			
	(10)	cici cako	'knife' 'time, hour, hit'	guraci yaci	'gold' 'to rip'
/ <b>j</b> /	[j] voiced	alveopalatal stop			
	(11)	jiko jang	'curve' 'good'	faja moju	'dirty' 'still'
/k/	[k] voicel	ess unaspirated vela	r stop		
	(12)	kamo kabi	'white clouds' 'goat'	aki ake	'tongue' 'water'
/g/	[g] voiced	l velar stop			
	(13)	gosi gia	'egg' 'arm, hand'	dagilom tagi	'friend' 'to walk'

Fricatives occur word initial and word medially. There are labial, alveolar and glottal fricatives, all of them voiceless.

/ <b>f</b> /	[f] voic	[f] voiceless labio-dental fricative					
	(14)	foturu faja	'strong' 'dirty'	difutu toforo	'tomorrow' 'nervous'		
/s/	[s] voic	[s] voiceless alveolar grooved fricative.					
	(15)	sahu soro	'hot' 'fly'	simo gosa	'old person' 'to carry'		
/h/	[h] voic	eless glottal frica	ative				
	(16)	hai hula	'tired' 'sago'	lahi yohu	'to ask' 'foot, lower leg'		

There are four voiced nasals: bilabial, alveolar, alveopalatal and velar. All nasals with the exception of /ny/ can occur word finally.

/m/	[m] voi	[m] voiced bilabial nasal				
	(17)	mega	'what'	coma	'add'	
		mom	'wake up'	sema	'to be'	

/n/	[n] voic	ed alveolar nasal			
	(18)	nau nigo	'boy' 'yesterday'	kornono madin	'dark' 'to sew'
/ny/	[ny] voi	ced alveopalatal na	asal		
	(19)	nyao nyabo	'fish' 'wound'	kanyafo nyiha	'to swim' 'peanut'
/ng/	[ng] voi	ced velar nasal			
	(20)	ngofa ngunu	'child' 'nose'	fangare ngong	'1 pers. sg. masc.' 'cracked'
The	re are two	voiced liquids: an a	alveolar lateral and an a	lveopalatal flap.	
/1/	[1] voice	ed alveolar lateral			
	(21)	lao lamo	'eye' 'large'	ngolo jolojo	'sea' 'Adam's apple'
/r/	[r] voice	ed alveopalatal flap	)		
	(22)	roka ronga	'to pass' 'name'	ora karo	'moon' 'to call'
The	re are two	semivowels: one vo	oiced labiovelar and one	voiced palatal.	
/w/	[w] voic	ced rounded labiov	elar semivowel		
	(23)	waro wange	'to understand' 'sun, day'	dowongi hawa	'beach' 'angry'
/y/	[y] voice	ed unrounded pala	tal semivowel		
	(24)	yam yali	'to question' 'still, again'	loya uyu	'to run' 'sand'
3.2.3 Con	sonant C	ontrast			
p/b	contrast	both syllable initia	ally and syllable medial	ly	
	(25)	bosa posa	'rain' 'before'	bopo dobo-dobo	'stump' 'pool'

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t/d	contrast both syllable initially and syllable medially				
	(26)	tofa dofa	'to poke' 'pole'	hotu hodulu	'hair' 'to touch'
k/g	contrast b	oth syllable initially	and syllable medially		
	(27)	gam kam	'village' 'water container'	sago sako	'to split' 'neck'
p/f	contrast b	oth syllable initially	and syllable medially		
	(28)	fola posa	'house' 'before'	bofo bopo	'leftovers' 'stump'
b/m	contrast b	oth syllable initially	and syllable medially		
	(29)	bulo mula	'white' 'morning'	seba sema	'near' 'to be'
b/w	contrast b	oth syllable initially	and syllable medially		
	(30)	banga wange	'tall grass, forest' 'day'	sowohi soboi	'shaman (chief)' 'to put'
m/w	contrast b	oth syllable initially	and syllable medially		
	(31)	moju wotu	'still' 'navel'	sowayo toma	'to crumble' 'towards'
t/s	contrast b	oth syllable initially	and syllable medially		
	(32)	subu tubu	'wick' 'peak'	bato kaso	'just' 'dog'
s/h	contrast b	oth syllable initially	and syllable medially		
	(33)	haki saki	'to peel' 'tasty'	gahi gasi	'to make' 'salt'
d/n	contrast b	oth syllable initially	and syllable medially		
	(34)	dagilom nage	'friend' 'who'	moda ona	'mouth' '3 pers. pl.'
d/l	contrast b	oth syllable initially	and syllable medially		
	(35)	due lua-lua	'to own' 'wave'	fola moda	'house' 'mouth'

n/1	contrast both syllable initially and syllable medially				
	(36)	lao nao-nao	'eye' 'recognize'	fola ona	'house' '3 pers. pl.'
k/ng	contrast l	both syllable initially	and syllable medially		
	(37)	kora ngora	'to lie' 'door'	paka banga	'to walk, climb' 'tall grass, forest'
k/w	contrast 1	both syllable initially	and syllable medially		
	(38)	karo waro	'call' 'to understand'	koko sowohi	'stand' 'shaman (chief)'
ng/w	contrast	both syllable initially	and syllable medially		
	(39)	ngong wonge	'cracked' 'to count'	ngowora pongo	'python' 'tree roots'
n/ng	contrast 1	both syllable initially	y and syllable medially		
	(40)	nau ngau	'boy' 'ear'	ngona ronga	'2 pers. sing.' 'name'
m/n	contrast 1	both syllable initially	and syllable finally		
	(41)	monge nong	'tasty' 'charcoal'	ngom ngon	'1 pers. pl. excl.' '2 pers. pl.'
n/ny	contrast l	both syllable initially	and syllable medially		
	(42)	nao-nao nyao	'to recognize' 'fish'	panaka kanyafo	'to lie face down' 'to swim'
ny/ng	contrast l	both syllable initially	and syllable medially		
	(43)	nyao ngau	'fish' 'ear'	kanyafo fangare	'to swim' '1 pers. sg. masc.'
y/ny	contrast l	both syllable initially	and syllable medially		
	(44)	yale nyale	'lick' 'snack'	saya kanyafo	'flower' 'to swim'
l/r	contrast l	both syllable initially	and syllable medially		
	(45)	laha raha	'good' 'four'	fola ora	'house' 'moon'

## 3.24 Vowel Inventory

Tidore has five underlying vowels which is much in keeping with the other North Halmaheran languages. A simple table is presented below.

Table 2. Tidore Vowels.

	<u>front</u>	central	<u>back</u>
high	i		u
mid	e		0
low		a	

## 3.25 Vowel Description

The front vowels /i/ and /e/ occur in stressed and unstressed syllables and in open and closed syllables.

/i/ [i] high tense front unrounded vowel

	(46)	'wati 'simo	'comb' 'old person'	so'ninga 'madin	'to remember' 'to sew'
/e/	[e] mid	tense front unro	unded vowel		
	(47)	'ende 'sema	'this' 'to be'	'sedu 'lae	'funny' 'thread'

The central vowel /a/ occurs in both stressed and unstressed syllables, and in open and closed syllables.

/a/ [a] low lax mid unrounded vowel

(48)	ngam	'food'	ha'wa	'angry'
	ma'hoga	'to shower'	'soha	'hungry'

The back vowels /u/ and /o/ occur in stressed and unstressed syllables and in open and closed syllables.

/u/ [u] high tense back rounded vowel

	(49)	dum-dum gu'raci	'bathroom' 'gold'	'tua 'uyu	'bed' 'sand'
/o/	[o] mid	tense back rounde	d vowel		
	(50)	ngom si'garo	'1 pers pl. excl' ' to leave'	'nyao dagi'lom	'fish' 'friend'

## 3.26 Vowel Contrasts

e/i contrast in both the ultimate and penultimate open syllable

(51)	ake	'water'	peti	'box'
	aki	'tongue'	pita	'ribbon'

o/u	contrast in both the ultimate and penultimate open syllable				
	(52)	otu	'to sleep'	oro	'to take'
		uto	'to plant'	yuru	'to drink'
a/e	contras	t in both the ult	imate and penultimate ope	en syllable	
	(53)	fato	'to arrange'	woha	'wide'
		feto	'to gossip'	wohe	'to dry'

#### 3.2.7 Vowel Sequences

Vowel sequences in Tidore are not uncommon, and occur most frequently in the word-final position, although they do occur in both word-initial and word-medial positions. Although a phonetic inventory of Tidore reveals the presence of diphthongs and lengthened vowels, these are best analyzed phonemically as consisting of separate VV sequences, with each vowel representing a nuclear vowel.

One of the reasons for analyzing the ambiguous VV sequences and all lengthened vowels as two phonemic vowel segments is that, with the exception of /ie/, /iu/ , /eo/, /eu/, all vowels can occur in a VV sequence:

(54)	iV	buria halí fio	[buˈria] [haˈlii] [ˈfio]	'baby-sitter' 'family' 'when'
(55)	eV	tabea karé gelei	[ta'bea] [ka'ree] [ge'lei]	'excuse me' 'here' 'little finger'
(56)	aV	katá lae rasai tamao yau	[ka'taa] ['lae] [ra'sai] [ta'mao] ['yau]	'there' 'thread' 'pretty' 'ax' 'to fish with a line'
(57)	uV	ua bue-bue tui fuo mafú	['ua] ['bue-'bue] ['tui] ['fuo] [ma'fuu]	'no, not' 'swing' 'bamboo' 'green bean' 'to sell'
(58)	oV	toa oe rimoi kombó cou	['toa] ['oe] [ri'moi] [kom'boo] ['cou]	'to give' 'yes' 'one' 'little' 'tribute'

The second reason for regarding vowel sequences as two separate phonemic segments is that this analysis is compatible with the generalized stress rule, which, as pointed out previously, states that stress normally falls

on the penultimate syllable. If sequences were treated as monosyllabic diphthongs, each instance would produce an exception to an otherwise highly regular penultimate stress rule.

The third reason for analyzing VV sequences as separate segments is that such sequences often occur in word-final position. This would mean that if the /i/ or /u/ were considered to be the semivowels /y/ or /w/, the result would be a consonant in the word-final position. Such a pattern would be very inconsistent with Tidore phonology, which has no word-final consonants with the exception of nasals and those found in borrowed words (see Section 4).

Finally, one may be tempted to posit the hypothesis that ambiguous VV sequences ending in /i/ and /u/ should be viewed either as diphthongs or as vowel-semivowel combinations ending in /y/ and /w/. This hypothesis however would be unacceptable, since the ambiguous segments which need to be considered are not just limited to Vi and Vu. Instead, we see /ae/ and /ao/ sequences as well, which pattern in the same way as Vi and Vu. Since all the VV examples below are spoken with the same timing by native speakers, it would be undesirable to consider some of the examples as diphthongs, while considering others VV combinations.

(59)	gelei	[ge'lei]	'little finger'
	jau	[ˈjau]	'to hold on'
	dae	[dae]	'weapon'
	lao	[ˈlao]	'eve'

In the light of the above discussion, it seems best to interpret all VV sequences as separate vowels rather than as diphthongs or as semivowel sequences.

#### 4. SYLLABLE STRUCTURE

The basic syllable pattern in Tidore may be written as (C) V (C). The possible combinations from this basic pattern are as follows; V, CV, CVC. However, Tidore does not exhibit the VC syllable sequence. This is different from both Pagu (Wimbish 1991:11) and Galela (Shelden 1989:83) which have a VC syllable sequence, but similar to Sahu (Voorhoeve 1987:19) which does not. Thus Tidore syllable patterns are limited to V, CV, and CVC.

The V pattern can occur word initially or word finally

(60)	ofu	'bee'	V.CV
	ea	'sleepy'	V.V

The number of V syllables in succession is limited to two without an intervening C.

(61)	ea	'sleepy'	V.V
	limau	'city'	CV.CV.V

CV is the most common syllable formation.

(62)	danata	'to pickpocket'	CV.CV.CV
	laga	'to jump'	CV.CV

CVC combination also occurs frequently in both initial and final syllables.

(63)	tufang	'numb'	CV.CVC
	honci	'kerosene lamp'	CVC.CV

Of the consonants found in syllable-final position, the nasals are most common with the exception of /ny/. The following non-nasals have also been found, but very infrequently: /l/, /r/, and /d/. Below are some examples of consonants in the syllable-final position. All also occur in the CVC syllable structure.

(64)	dalfuku	'knot'
	kornono	'dark'
	had	'week'
	fang	'to pay'
	gam	'village'
	gan	'louse'

All consonant clusters occur across syllable boundaries and are rare. Only /ng/, /m/ and /n/ were found with any frequency in syllable-final monosyllabic words. There were only 10 words in 2500 that had syllable-final consonants other than nasals within consonant clusters, making these ten highly suspect; possibly they should be attributed to loan words or frozen forms of Proto-North Halmahera.

All consonants occur word initially and word medially in Tidore. However word-final consonants are limited to seven. Of these seven, /l/, /k/, /t/, and /s/ only occur in loan words or frozen forms of Proto-North Halmahera which included these forms (Wada 1980:508; Voorhoeve 1984:6), while /n/, /m/, /ng/ occur more generally in Tidore words. While Tidore has word-final nasals, Galela (Shelden 1989:82) and Sahu (Visser and Voorhoeve 1987:12,18) do not have any. There is comparative evidence that Proto-North Halmahera allowed all consonants except voiced stops in word-final position. In contrast to previous statements positing Tidore as a language with no word-final consonants (Shelden 1989:86; Voorhoeve 1982:41) Tidore does in fact allow three nasal consonants to occur word finally. Other than these three nasals, it appears that Tidore, like other North Halmaheran languages has dropped the word-final consonants (Wada 1980:508; Voorhoeve 1984:6). A few examples of word-final nasal consonants are as follows:

(65)	nong	'charcoal'
	mom	'to wake up'
	dun	'daughter-in-law'

It should also be noted that although Tidore allows stems of up to five syllables, two-syllable stems are the most common

#### 5. MORPHOPHONEMICS

#### 5.1 N- Prefix

The N- prefix which is consistently found in North Halmaheran languages (Kern 1891: 493-530) has also been found to be productive in Tidore. Although there remains many questions regarding the use of this prefix, it appears that in Tidore, the N- prefix can (1) derive nouns from verbs, and (2) change the transitivity of a verb. This is much in keeping with other North Halmaheran languages such as Galela (van Baarda 1908:18-29), Tabaru (Fortgens 1928:373-4, 401-4; Kotynski 1988:187), Tobelo (Hueting 1936:320-23), Sahu (Visser and Voorhoeve 1987:20-22), and Pagu (Wimbish 1991:30-32). When the N- prefix is added, it creates a number of phonological changes at morphophonemic boundaries (van der Veen 1915:105).

In Tidore, the surface form of the N- prefix is [g] which evidences itself when affixed to vowel initial roots. This is quite similar with Pagu (Wimbish 1991:30-32) where in all but a very few cases, the N- prefix surfaces as a [g] on vowel-initial roots. Those that do not appear as a [g] in Pagu and Loloda (van Baarda 1904:344) appear as an [ng]. When a root begins with a voiceless consonant, the manner and point of articulation stay the same, but a voicing rule is added, much like Tabaru (Kotynski 1995:8). Since the surface form of the N- prefix in Tidore is g-, all subsequent references will follow that identification rather than N-. The phonological changes in Tidore at the boundaries of consonant-initial roots are shown in the table below:

Table 3. Root-initial changes with N-prefix.

k	$\rightarrow$	g
t	$\rightarrow$	d
h	$\rightarrow$	ng
p, f	$\rightarrow$	b
j	$\rightarrow$	С

Several examples of the modification of the consonant-initial syllable roots that serve to derive nouns from verbs are shown in the following examples:

(66)	talabutu	'to bargain'	$\rightarrow$	dalabutu	'sale items'
	caga	'to branch out'	$\rightarrow$	jaga	'branch, stalk'
	ciko	'to turn, bend'	$\rightarrow$	jiko	'a curve'
	forero	'to order'	$\rightarrow$	borero	'an order'

Modification may be coupled with reduplication in which case the initial consonant is reduplicated along with the vowel /o/. The order of application is that modification comes first, with reduplication following. In this case, nouns are also derived from verbs as shown in the examples below.

(67)	toa	'to give'	$\rightarrow$	dodoa	'gift'
	tila	'to divide'	$\rightarrow$	dodila	'section, part'
	uci	'to go down'	$\rightarrow$	goguci	'descendant'
	togu	'to stop'	$\rightarrow$	dodogu	'the end'

When prefixes are applied to roots, the same phonological changes take place as shown in Table 3. The set of examples below show intransitive roots becoming transitive by adding the so- prefix. In this case, the modification process takes place first, with the affixation following.

(68)	tagi	'to walk'	$\rightarrow$	sodagi	'to walk someone'
	pane	'to ride'	$\rightarrow$	sobane	'to transport something'
	fugo	'to go out'	$\rightarrow$	sobugo	'to throw away something'

The second set of examples show transitive roots receiving an increase in valency by adding the so-prefix.

(69)	hotu	'to dry'	$\rightarrow$	songotu	'to dry something out'
	ciko	'to bend, turn'	$\rightarrow$	sojiko	'to bend something'
	toa	'to give'	$\rightarrow$	sodoa	'to hand over something'
	kone	'to tie'	$\rightarrow$	sogone	'to tie something up'
	togu	'to stop'	$\rightarrow$	sodogu	'to stop something'

## 5.2 Borrowings

Tidore restructures borrowed words to fit the phonological system. This is done by the simplification of consonant clusters as shown in the following examples of Tidore words borrowed from Indonesian and Dutch.

(70)	campur	(Indonesian)	$\rightarrow$	capu	'to mix'
	knoop	(Dutch)	$\rightarrow$	kenop	'button'
	semangka	(Indonesian)	$\rightarrow$	samaka	'melon'
	jendela	(Indonesian)	$\rightarrow$	janela	'window'
	tanduk	(Indonesian)	$\rightarrow$	tadu	'horn'
	stopfles	(Dutch)	$\rightarrow$	tafales	'glass jar'

In the case of other borrowed words ending in a consonant, Tidore restructures the syllable to fit the favored CV syllable pattern. This may mean dropping or adding a vowel after the final consonant to maintain a CV pattern. This is different than Galela which only adds a vowel (Shelden 1989:85). Some examples are as follows:

(71)	cobek CV.CVC	(Indonesian)	$\begin{array}{c} \rightarrow \\ \rightarrow \end{array}$	cobe CV.CV	'mortar'
	gunting CVC.CVC	(Indonesian)	$\overset{\rightarrow}{\rightarrow}$	guti CV.CV	'to cut'
	layang-layang CV.CVC-CV.CVC	(Indonesian)	$\overset{\rightarrow}{\rightarrow}$	lianga CV.V.CV	'kite'
	tas CVC	(Indonesian)	$\overset{\rightarrow}{\rightarrow}$	tasi CV.CV	'bag'

#### 6. CONCLUSION

This paper presents an initial glance at the phonology of Tidore, a member of the North Halmaheran Family of the West Papuan Phylum. The data presented describes the consonant and vowel inventory, as well as word stress and syllable structures. A brief look was taken in terms of the N- prefix found in North Halmaheran languages, and how Tidore manifests this prefix in the surface form. Finally, word borrowings are analyzed to ascertain how Tidore phonology accommodates unfamiliar segment clusters.

In addition to any linguistic contribution aiding research in Halmaheran languages, it is hoped that this paper will contribute in a practical manner to the development of an orthography which is planned for the Tidore language by the *Kantor Wilayah Daerah Halmahera Tengah*. It will also assist future research in comparisons with other regional languages, including a precise description of Proto-North Halmahera. It is also hoped that this paper will assist the Indonesian government and the Tidore people in documenting one of the many important languages in the Indonesian archipelago.

## APPENDIX: INTERLINEARIZED TEXT 4

## <u>Line 01</u>

Toma	buku	ma	you	sema	gam	rimoi	kagé	ahu	Nene	se
toma	buku	ma	you	sema	gam	rimoi	kagé	ahu	nene	se
in	hill	GEN	top	there is	village	one	there	live	grandmother	and

ma	dano	rimoi	ironga	Abdul.
ma	dano	rimoi	i-ronga	Abdul
GEN	grandchild	one	3sm:P-name	Abdul

In a mountain village lived a grandmother with her grandson named Abdul.

## Line 02

Wange	moi	wange	moi	Nene	mokerja	toma	gura	maha
wange	moi	wange	moi	nene	mo-kerja	toma	gura	maha
day	one	day	one	grandmother	3sf:S-work	in	garden	later

Abdul	wotagi	toma	sekolah
Abdul	wo-tagi	toma	sekolah
Abdul	3sm:S-go	to	school

Everyday the grandmother worked in the garden while Abdul went to school.

## Line 03

Sekolah	koliho	Abdul	wobiasa	madigali
sekolah	koliho	Abdul	wo-biasa	ma-digali
school	return home	Abdul	3sm: S-usually	REFL-help

inene	ngam	bira	la	oyo	wange	konora.
i-nene	ngam	bira	la	oyo	wange	konora
3sm:P-grandmother	food	rice	so that	eat	day	middle

After school Abdul would help his mother cook rice for lunch.

## <u>Line 04</u>

Ona	yongam	bira	toma	boso	kotu	rimoi	yang	ngowo	rai.
ona	yo-ngam	bira	toma	boso	kotu	rimoi	yang	ngowo	rai
3p	3p:S-food	rice	in	pot	black	one	that	old	already

They would cook the rice in an old black pot.

## Line 05

Boso	kotu	ma	ngowo	rai	enagé	tapi	boso	sabarang
boso	kotu	ma	ngowo	rai	ena-gé	tapi	boso	sabarang
pot	black	GEN	old	already	3nh-DET	but	pot	no particular object

ua	enagé	boso	ajaib.
ua	ena-gé	boso	ajaib
NEG	3nh-DET	pot	magic

The old black pot was not an ordinary pot, but a magic pot.

## <u>Line 06</u>

Oras	ona	sogui	ake	toma	boso	ena	ge	ma	doya
Oras	ona	so-gui	ake	toma	boso	ena	ge	ma	doya
time	3p	TR-fill	water	in	pot	3nh	DET	<b>GEN</b>	inside

nene mowaje, nene mo-waje grandmother 3sf:S-say

When the grandmother poured water into the pot, she said,

## <u>Line 07</u>

"E	soyuka	ma	boso	yuka	ma	bira."
e	so-yuka	ma	boso	yuka	ma	bira
hey	TR-cook	<b>GEN</b>	pot	cook	<b>GEN</b>	rice

<sup>&</sup>quot;Hey, cook pot, cook the rice."

## <u>Line 08</u>

Oras	ena	ge	bato	boso	<b>enagé</b>	yosahu	se	yopele	si	yo-yoma
Oras	ena	ge	bato	boso	ena-gé	yo-sahu	se	yo-pele	si	yo-yoma
time	3nh	DET	just	pot	3nh-DET	3p:S-hot	and	3p:S-boil	and	3p:S-full
sema sema with	bira bira rice	sah	<b>u-sahu</b> u-sahu -hot	si si and	ma ma GEN	nyoa nyoa steam	tubo-tubo-tuborise-RE	ю		

Then the pot would get hot and boil and fill with steaming hot rice.

## Line 09

"Laha	rai	ma	boso,	<b>gahi</b>	<b>yuka</b>	refa,"	Nene	mowaje
laha	rai	ma	boso	gahi	yuka	refa	nene	mo-waje
good	already	GEN	pot	make	cook	enough	grandmother	3sf:S-say
waktu	bira	enagé	yu	ka i	rai.			

waktu	bira	enage	yuka	rai.
waktu	bira	ena-gé	yuka	rai
time	rice	3nh-DET	cook	already

<sup>&</sup>quot;That's good enough pot, cook no more," the grandmother would say when the rice was done.

## Line 10

Abdul	se	Nene	ahu	sanang	toma	gam	enagé.
Abdul	se	nene	ahu	sanang	toma	gam	ena-gé
Abdul	and	grandmother	live	enjoy	in	village	3nh-DET

Abdul and his grandmother enjoyed living in the village.

Meski	ona	yokaya	ua,	mai	wange	moi	wange	moi	ona	yooyo
meski	ona	yo-kaya	ua	mai	wange	moi	wange	moi	ona	yo-oyo
although	3p	3p:S-wealthy	NEG	but	day	one	day	one	3p	3p:S-eat

bira	saki-saki	toma	boso	ajaib	enagé.
bira	saki-saki	toma	boso	ajaib	ena-gé
rice	delicious-RDP	from	pot	magic	3nh-DET

Although they were not wealthy, each day they ate delicious rice from the magic pot.

## Line 12

Toma	wange	rimoi	Nene	musti	tagi	toma	gam	regu.
toma	wange	rimoi	nene	musti	tagi	toma	gam	regu
in	day	one	grandmother	has	to	go	to	village another

One day the grandmother had to go to another village.

#### Line 13

"Abdul Abdul Abdul	ner		mo-	<b>vaje,</b> waje S-say	"Nene nene grandmother	mota mo-ta 3sf:S	agi moju	ngona ngona 2s	
aku	ua	<b>pake</b>	boso	<b>ajaib</b>	ngona	maha	notorine	se	nibibi."
aku	ua	pake	boso	ajaib		maha	no-torine	se	ni-bibi
may	NEG	use	pot	magio		later	2s:S-live	with	2s:P-aunt

<sup>&</sup>quot;Abdul," the grandmother said, "while I am away you may not use the magic pot; you will be staying with your aunt."

## Line 14

TerusNenemotagi.Terusnenemo-tagiStraight awaygrandmother3sf:S-go

Immediately the grandmother left.

## Line 15

Wange	moi	wange	moi	Abdul	se	idagilom	tulu	te	ma
wange	moi	wange	moi	Abdul	se	i-dagilom	tulu	te	ma
day	one	day	one	Abdul	and	3sm:P-friend	stop by	to	<b>GEN</b>

Nene	mifola	yolila	kalau	Nene	mokoliho
nene	mi-fola	yo-lila	kalau	nene	mo-koliho
grandmother	3sf:P-house	3p:S-see	if	grandmother	3sf:S-return home

rai	bolo	yang.
rai	bolo	yang
already	or	not yet

Everyday Abdul and his friend would stop by his grandmother's house to see if she had come home yet.

Wange	rimoi	Abdul	wowaje	te	idagilom,	"Ngon	nonyinga	dahe
wange	rimoi	Abdul	wo-waje	te	i-dagilom	Ngon	no-nyinga	dahe
day	one	Abdul	3sm: S-say	to	3sm:P-friend	2p	2p-wish	get

lila	ngori	nanene	miboso	ajaib	bolo	ua?"
lila	ngori	na-nene	mi-boso	ajaib	bolo	ua
see	1s	1pi:P-grandmother	3sf:P-pot	magic	or	NEG

One day Abdul asked his friend, "Do you want to see my grandmother's magic pot?"

## Line 17

"Coba	ngon	nowaje	ena	ma	bobeto	alu	romtoha	boso
Coba	ngon	no-waje	ena	ma	bo-beto	alu	romtoha	boso
if	2p	2p-say	3nh	GEN	RED-magic formula	times	five	pot

enagé	langsung	yosoyuka	bira	ma	saki	foloi."
ena-ge	langsung	yo-so-yuka	bira	ma	saki	foloi
3nh-DET	immediately	3nh:S-TR-cook	rice	GEN	delicious	very

<sup>&</sup>quot;If you say five words the pot will immediately begin cooking very delicious rice."

## Line 18

"Coba	sobai	boso	enagé	te	fangare?"	una	idagilom
coba if	so-bai TR-perform		ena-ge 3nh-DET	te to	fangare 1sm	una 3sm	i-dagilom 3sm:P-friend

womalahi,	Si	Abdul	wooro	boso	enagé	SÍ
wo-ma-lahi	si	Abdul	wo-oro	boso	ena-ge	si
3sm:S-REFL-request	and	Abdul	3sm:S-take	pot	3nh-DET	and

wosogui	toma	ake	doya.
wo-so-gui	toma	ake	doya
3sm:S-TR-fill	water	to	inside

<sup>&</sup>quot;Can you show me this pot?" his friend asked. So Abdul took the pot and added water.

## Line 19

Rasi wowaje, "E!"
rasi wo-waje E
first 3sm: S-say hey

First he said, "Hey"

## <u>Line 20</u>

"Soyuka	ma	boso	yuka	ma	bira."
so-yuka	ma	boso	yuka	ma	bira
TR-cook	GEN	pot	cook	GEN	rice

<sup>&</sup>quot;Cook pot, cook some rice."

Oras	enagé	marua	boso	ma	doya	mulai	komi	si	yopele	si
Oras	ena-ge	ma-rua	boso	ma	doya	mulai	komi	si	yo-pele	si
time	3nh-DET	GEN-content	pot	GEN	inside	begin	move	and	3nh S-boil	and

yoyoma	sema	bira	sahu-sahu	se	manyoa	tubo-tubo.
yo-yoma	sema	bira	sahu-sahu	se	ma-nyoa	tubo-tubo
3nh: S-full	with	rice	hot-RED	and	<b>GEN-steam</b>	rise-RED

Immediately the pot began to bubble and boil and fill with steaming hot rice.

## Line 22

Ngofa- Ngofa- child-l	_	enagé ena-ge 3nh-DET	yomato yo-ma-1 3nh:S-F		lage-lage lage-lage squat-RED	toma toma by	boso boso pot	ma ma GEN	gomuru gomuru side
si si and	yolila yo-lila 3p:S-see	boso boso pot	enagé ena-ge 3nh-DET	yoyoma yo-yoma 3nh:S-ful		bira. bira rice			

The children squatted by the pot and watched it fill with rice.

## <u>Line 23</u>

"Oras oras time	enare	sulo	boso	enagé	yotogu	la	ngone	fooyo
	ena-re	sulo	boso	ena-ge	yo-togu	la	ngone	fo-oyo
	3nh-DET	command	pot	3nh-DET	3nh:S-stop	so	that	1pi:S-eat
bira bira	,	idagilom i-dagilom	wowaje.					

bira una i-dagilom wo-waje rice 3sm 3sm:P-friend 3sm:S-say

## Line 24

Tapi tapi but	oras oras time	sari sari look	for	wo-wa 3sm:S	aje	ena ena 3nh	ma ma GEN	bobeto bo-beto N RED-n		mula	ge ge DET	<b>Abdul</b> Abdul Abdul
wo-so-1 3sm:S-		ember	rev	wa, va ished	si si and	wowaje wo-waj 3sm:S-	e	"Songam so-ngam TR-food	ge ge DET	togu togu- stop-	•	

tapi	boso	ajaib	enagé	yotogu	maya	ua.
tapi	boso	ajaib	ena-ge	yo-togu	maya	ua
but	pot	magic	3nh-DET	3nh:S-stop	can	NEG

But when Abdul tried to say the magic words, he had forgotten them. "Stop cooking," he said, but the magic pot kept on cooking.

## Line 25

Ena	songam	terus.
ena	so-ngam	terus
3nh	TR-food	continue

It kept cooking.

<sup>&</sup>quot;Now make it stop so we can eat it," his friend said.

## <u>Line 26</u>

Capati	lau	bato	bira	enagé	yoyoru	si	hobura	toma	hale.
Capati	lau	bato	bira	ena-ge	yo-yoru	si	hobura	toma	hale
immediately	very	just	rice	3nh-DET	3nh:S-spill	and	cover	on	ground

Immediately the rice spilled out and began to cover the ground.

## <u>Line 27</u>

Ngofa-ngofa	enagé	usaha	yolou	bira	toma	hono	mai	boso
Ngofa-ngofa	ena-ge	usaha	yo-lou	bira	toma	hono	mai	boso
child-RED	3nh-DET	try	3p:S-scoop	rice	in	bowl	but	pot

enagé,	tetap	yosoyuka	bira	terus.
ena-ge	tetap	yo-so-yuka	bira	terus
3nh-DET	continually	3nh: S-TR-cook	rice	continue

The boys tried to put it in bowls, but the pot just kept cooking.

## <u>Line 28</u>

"Togu-togu	bira	yado	rai,"	Abdul	woria-ria	toma	boso
Togu-togu	bira	yado	rai	Abdul	wo-ria-ria	toma	boso
Togu-RED	rice	enough	already	Abdul	3sm:S-shout-RED	to	pot

waktu	bira	yoyoru	sado	yofugo	toma	ngora.
waktu	bira	yo-yoru	sado	yo-fugo	toma	ngora
time	rice	3nh:S-spill	until	3nh:S-outside	to	door

<sup>&</sup>quot;Stop, Stop! Enough rice," Abdul yelled at the pot as the rice spilled out the door.

## <u>Line 29</u>

Mansia-mansia	toma	fola	ma	seba	loya	dedo-dedo	ino	yogosa
Mansia-mansia	toma	fola	ma	seba	loya	dedo-dedo	ino	yo-gosa
person-RED	in	house	<b>GEN</b>	near	run	fast-RED	here	3p:S-carry

hono	se	boso
hono	se	boso
bowl	and	pot

Soon the neighbors came running with their bowls and pots.

## <u>Line 30</u>

Ona	yousaha	yooro	bira	enagé.
Ona	yo-usaha	yo-oro	bira	ena-ge
3 <b>p</b>	3p:S-try	3p:S-take	rice	3nh-DET

They tried to take the rice.

Atas	ena	yoyoru	toma	linga	se	yomasusu	toma	gam
Atas	ena	yo-yoru	toma	linga	se	yo-ma-susu	toma	gam
but	3nh	3nh:S-spill	to	street	and	3nh:S-REFL-enter	in	village

ma	doya.
ma	doya
GEN	inside

It spilled into the street and down into the village.

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Ma ma GEN	yuke-yuke yuke-yuke begin-RED	ge	man mans perso	sia	hamoi-hamoi hamoi-hamoi each-RED	yo-sanang yo-sanang 3p:S-enjoy	foloi foloi much	atas atasi because
yodahe yo-dahe	<b>bira</b> bira	<b>dofu</b> dofu	si si	ona ona	<b>yooyo.</b> yo-oyo			
3p <sup>2</sup> S-get	t rice	much	and	3p	3p:S-eat			

At first everyone was happy to have so much rice to eat.

## Line 33

Mai	suru	ua	bato	ona	sorai	yorasa	kolofino	yohoda	bira
mai	suru	ua	bato	ona	sorai	yo-rasa	kolofino	yo-hoda	bira
but	long time	NEG	just	3p	all	3p:S-feel	afraid	3p:S-see	rice

enagé	yoyoru	terus-terus.
ena-ge	yo-yoru	terus-terus
3nh-DET	3nh:S-spill	continue-RED

But soon the people became afraid when the rice continued to spill (out of the house).

## <u>Line 34</u>

Bira	mulai	yoyohu	toma	linga	sado	masusu	toma	fola-fola.
bira	mulai	yo-yohu	toma	linga	sado	ma-susu	toma	fola-fola
rice	begin	3nh: S-flow	to	street	until	REFL-enter	in	house-RED

It flowed over the street and into the houses.

## Line 35

Gam ma gam ma village GEN		tolai tolar villa		wo-waje 3sm:S-s	e	"Abdul Abdul Abdul	ngona ngona 2s	nosing no-sin 2s:S-n	igafu
nosodogu no -so-do		boso boso	<b>enagé</b> ena-ge	<b>la</b> la	ena ena	<b>yosoy</b> yo-so-		<b>bira</b> bira	refa."
2s: S-TR-s		pot	3nh-DET		that	2	-TR-cook	rice	already

The head of the village said, "Abdul, you must stop the pot from cooking more rice."

## Line 36

"Ngone	nigam	ma	rai	yowayo."
ngone	ni-gam	ma	rai	yo-wayo
l pi	Ini:P-village	GEN	already	3nh: S-destroy

"Our village will be destroyed."

<u>Line 37</u>						
Abdul	wohobuturu	si	wocoba	mai	una	wosoninga
Abdul	wo-hobuturu	S1	wo-coba	mai	una	wo-so-ninga
Abdul	3sm:S-force	and	3sm:S-try	but	3sm	3sm:S-TR-remember
ma	bobeto		enagé	maya	ua.	
ma	bo-beto		ena-ge	maya	ua	
GEN	RED-magic form	บใล	3nh-DET	can	NEG	

But try as he might, Abdul could not remember the magic words.

T	i			7	O
L	ı	ne	5	J	О

Pas-pas Pas-pas exactly-R	.ED	waktu waktu time	Abdul Abdul Abdul	wo-sa wo-sa 3sm:		gahi gahi for make	wayo wayo destroy	boso boso pot	8
sema sema with	tama tama ax		woho wo-ho 3sm:S	oda	inene i-nene 3sm:P-g	randmother	mopala mo-pala 3sf:S-arri		ine ine upwards
toma toma to	buk bukt hill		<b>you.</b> you top						

He was just about to smash the pot with his ax when he saw his grandmother coming up the mountain.

## Line 39

Una	wokaro,	"Nene!"
una	wo-karo	nene
3sm	3sm:S-call	grandmother

<sup>&</sup>quot;Grandmother!" he cried.

#### <u>Line 40</u>

"Haso	foloi	fangato	lahi	toma	boso	ajaib	sulo	ngam	bira	mai
haso	foloi	fangato	lahi	toma	boso	ajaib	sulo	ngam	bira	mai
heavy	much	1sm	request	to	pot	magic	command	food	rice	but

fangato	lupa	tosodogu	ena."
fangato	lupa	to-so-dogu	ena
lsm	forget	1sm:S-TR-stop	3nh

<sup>&</sup>quot;I've done a terrible thing. I asked the pot to cook some rice but I've forgotten how to make it stop."

"Gatebe	ena	ma	oli-oli	bobeto	enagé?"
gatebe	ena	ma	oli-oli	bo-beto	ena-ge
how	3nh	GEN	voice-RED	RED-magic formula	3nh-DET

<sup>&</sup>quot;What are the magic words?"

# Line 42 "Ha!" Ha

Hey!

"Hey!"

Line 43

"Ngona	nobaso	Nene	miborero	ua,"	Nene	mowaje.
ngona	no-baso	nene	mi-borero	ua	nene	mo-waje
2s	2s: S-listen	grandmother	3sf:P-command	NEG	grandmother	3sf:S-say

<sup>&</sup>quot;You did not obey my orders," said grandmother.

Line 44

"Towaje rai!"to-waje rai1s:S-say already

Line 45

"Pake	boso	ajaib	enagé	ifa!"
pake	boso	ajaib	ena-ge	ifa
use	pot	magic	3nh-DET	NEG

<sup>&</sup>quot;Don't use the magic pot!"

<u>Line 46</u>

Kagé ka-ge ?-DET	rai rai already	Nene nene grandmo	other	mo-ma-susu 3sf:S-REFL-e	t	oma oma n	hito hito kitchen	si si and		
mokoko mo-koko 3sf:S-stand	toma toma by	boso boso pot	yang yang that	pele-pele pele-pele boil-RED	<b>moju</b> moju still	ena; ena- 3nh-		ma ma GEN	gomuru gomuru side	si si and
mowaje, mo-waje 3sf: S-say	<b>"Sotogu</b> so-togu TR-stop	ma ma GEN	boso, boso pot	soyuka so-yuka TR-cook	refa!" refa alread					

Grandmother went into the kitchen, stood over the boiling pot and said, "Stop pot, cook no more."

<u>Line 47</u>

Oras	enagé	bato	boso	enagé	yotogu	si	yosoyuka	bira	rewa.
oras	ena-ge	bato	boso	ena-ge	yo-togu	si	yo-so-yuka	bira	rewa
time	3nh-DET	just	pot	3nh-DET	3nh:S-stop	and	3nh:S-TR-cook	rice	finished

Immediately the pot stopped cooking the rice.

<sup>&</sup>quot;I told you!"

## <u>Line 48</u>

Mansia	somore	sorai.
mansia	so-more	sorai
person	TR-jubilant	all

All the people were jubilant.

## Line 49

"Atas	ngona	nosogise	Nene	ua	kambu	bato	ge
atas	ngona	no-so-gise	nene	ua	kambu	bato	ge
because	2s	2s:S-TR-listen	grandmother	NEG	almost	just	DET

gam enaré yoruba."
gam ena-re yo-ruba
village 3nh-DET 3nh: S-destroy

## Line 50

"Oras	enaré	ngona	se	nidagilom	nyafu	tero	hukum."
oras	ena-re	ngona	se	ni-dagilom	nyafu	tero	hukum
time	3nh-DET	2s	and	2s:P-friend	must	get	punishment

<sup>&</sup>quot;Now you and your friend must be punished."

## Line 51

"Re	sema	hono	se	jobobo	oyo	bira	enaré	sado	sorai,"
re	sema	hono	se	jobobo	oyo	bira	ena-re	sado	sorai
DET	is	bowl	and	spoon	eat	rice	3nh-DET	until	all

Nene mowaje.
nene mo-waje
grandmother 3sf: S-say

#### Line 52

Mote	wange	enagé	Abdul	kama	pake	boso	ajaib	enagé	rewa.
mote	wange	ena-ge	Abdul	kama	pake	boso	ajaib	ena-ge	rewa
ioin	day	3nh-DET	Abdul	never	use	pot	magic	3nh-DET	finished

After that day Abdul never again used the magic pot.

## Line 53

Sado	ma	suru	ora-ora	una	wooyo	bira	maya	rewa.
sado	ma	suru	ora-ora	una	wo-oyo	bira	maya	rewa
until	GEN	long time	month-RED	3sm	3sm:S-eat	rice	can	finished

For many months he didn't want to eat rice.

## Line 54

Alumoi	yali	una	akan	womote	mega	yang	Nene	mowaje.
alu-moi	yali	una	akan	wo-mote	mega	yang	nene	mo-waje
under-one	more	3sm	will	3sm:S-join	what	that	grandmother	3sf:S-say

Next time he would listen to his grandmother.

<sup>&</sup>quot;Because you did not listen to me the village was almost destroyed."

<sup>&</sup>quot;Here is a bowl and spoon and don't stop eating until all the rice is gone," said the grandmother.

#### **NOTES**

- 1. Field research for this paper included four visits to Tidore between July 1993 and April 1994. The sponsorship for this project came from the *Bupati*'s office in *Halmahera Tengah* stemming from the *Bupati*'s desire to have the Tidore language documented in a useable form. The authors wish to express their thanks to Bupati Drs. Andili as well as the many people of Tidore who were so helpful. The authors are also grateful to Edward Kotynski, Wyn Laidig, and Howard Shelden for comments on drafts of this paper, and to Jan Perry for help with manuscript preparation.
- 2. Some exceptions to the penultimate stress rule are as follows:
  - a. words formed by reduplication of monosyllabic roots (e.g. dum-dum 'bathroom')
  - b. compound words with a monosyllabic second constituent such as **enage** from **ena** 'it' plus **ge** 'this', and **jibobomoi** from **jibobo** 'spoon' plus **moi** 'one'.
- One example that appears to be more in keeping with Tabaru which has [+voice] [+nasal] and [+velar] as the default settings (Kotynski 1995:8) is as follows:
  - hotu → songotu 'to dry, to dry something out'

It is not clear whether the above example is an exception, since it was the only such example found among 2500 words.

4. The following is a list of abbreviations used to gloss examples in this paper:

1st person singular masculine lsm 1sf 1st person singular feminine 1st person singular 1 s 1st person plural exclusive 1 pe 1st person plural inclusive lpi 2nd person singular 2s 2nd person plural 2p 3rd person singular feminine 3sf 3rd person singular masculine 3sm 3rd person plural 3p 3rd person nonhuman 3nh

ADH Adhortative marker
CLASS classifier
DET determiner
GEN genitive

IMP imperative marker

incl inclusive

NEG negative marker
P possessive marker

Ph phrase QUANT quantifier

QM yes/no question marker
RCPR reciprocal marker
RED reduplication
REFL reflexive marker
S subject marker
TR transitive marker

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