

THE TONAL PHONOLOGIES OF RAJA AMPAT LANGUAGES: TOWARDS A HISTORICAL PERSPECTIVE

THE RAJA AMPAT LANGUAGES

- Several languages belonging to the South Halmahera-West New Guinea subbranch of Austronesian (AN) are spoken across the Raja Ampat archipelago in eastern Indonesia (see Figure 1).
- At least three of these languages have lexical tone: Ma'ya (van der Leeden 1993; Remijsen 2001), Matbat (Remijsen 2007), and Ambel (Arnold forthcoming).
- Lexical tone is very rare in AN languages (around 19 out of 1200 AN languages).
- Very little is known about the origin of the tonal systems of Raja Ampat languages.
 - Tone probably resulted from contact with a now-extinct tonal language, rather than developing spontaneously (Remijsen 2001).
- By comparing the synchronic tonal specifications of cognate words, several potential suprasegmental correspondences can be identified.
 - This suggests tone developed before Ma'ya, Matbat, and Ambel split.



FIGURE 1: RAJA AMPAT

LAURA ARNOLD

l.m.arnold@sms.ed.ac.uk

THE COMPARATIVE DATA

 Monosyllabic for compared to set suprasegmental j Three recurring plays a role. There are current 	 Tonal splits on the basis of vowel height are very rare (Kingston 2011). The recurring patterns were observed, in which vowel height plays a role. These three patterns are exemplified below. There are currently too few cognate sets to identify any other patterns. Tonal splits on the basis of vowel height are very rare (Kingston 2011). The f0 of close vowels is intrinsically higher than open vowels. It is therefore plausible for close vowels to develop High tone. In Ambel we see the opposite effect: Historically open vowel > High tone [Patterns 1 and 2] Historically close vowel > unspecified for tone [Pattern 3] 													
Pattern 1 (10/53 cognate sets):Ma'ya:High tone, open vowel					Pattern 2 (12/53 cognate sets):Ma'ya:Rise tone, open vowel				Pattern 3 (12/53 cognate sets):Ma'ya:High tone, close vowel					
Matbat:High tone, open vowelAmbel:High tone					Matbat:High tone, open vowelAmbel:High tone, open vowel					Matbat:High tone, close vowelAmbel:no specification for tone				
	Ma'ya	Matbat	Ambel			Ma'ya	Matbat	Ambel			Ma'ya	Matbat	Ambel	
'mountain' 'person' 'sea turtle' 'three'	'ye ³ l 'ma ³ t 'fe ³ n 'to ³ l	he ³ l ma ³ t fe ³ n to ³ l	íl mét fín túl		'fire' 'full' 'sand' 'swim'	$la^{12}p$ $fo^{12}n$ $le^{12}n$ $-a^{12}s$	ya ³ p fo ³ n ye ³ n la ³ s	láp fón láyn lá		'breast' 'five' 'louse' 'two'	'su ³ s 'li ³ m 'u ³ t 'lu ³	su ³ li ³ m wu ³ t lu ³	su lim ut low	

THE TONAL PHONOLOGIES

 Ma'ya (Salawati dialect): Two tonemes (Rise /¹²/ and High /³/) Contrastive lexical stress in polysyllabic words 	• Ka ar is (R
• Matbat:	
 Six tonemes: Extra High Fall /⁴¹/, High Level /³/, Low Rise /¹²/, Low Level /¹/, Rise-Fall /¹²¹/, and Low Fall /²¹/ 	
• Ambel:	• BI
 One toneme (High /Ý/) in a privative system 	_
 Tone is not obligatory, but is culminative in polysyllabic words 	_





IMPLICATIONS

Camholz (2014): The most recent common ncestor of Ma'ya, Matbat, and Ambel Proto-Raja Ampat-South Halmahera RASH), which extends beyond Raja Ampat:



UT:

- No other RASH language has been analysed as tonal.
- Did tone originate in Proto-RASH and was subsequently lost in most of the daughter languages?

- Next steps:

• An alternative and simpler explanation: Tone developed in a more recent common ancestor, from which (at least) Ma'ya, Matbat, and Ambel are descended.

– Establish whether any of the other Raja Ampat languages are tonal.

- Identify more cognate sets to further explore the histories of the complex prosodic systems of these languages.

- Explore the phonetic role played by vowel height in tonal development.

References available on request