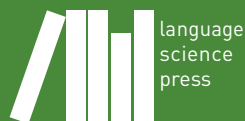


The Alor-Pantar languages

History and typology

Marian Klamer (ed.)

Studies in Diversity Linguistics, No ??



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This volume is dedicated to the memory of Mr. Anderias Malaikosa (1964-2011), whose love for the peoples and languages of his native Alor was an inspiration to linguists both within Alor and abroad.

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Chapter 1

Elevation in the spatial deictic systems of Alor-Pantar languages

Antoinette Schapper

This chapter provides a formal and semantic typology of the highly elaborate spatial deictic systems involving an elevation component found in the Alor-Pantar languages. The systems show a high degree of variation both in the number of paradigms of elevation marked terms as well as in the number of semantic components within the different elevational domains. The chapter further considers the history and reconstructability of an elevational system to proto-Alor-Pantar, observing that the elevation distinction itself is very stable in the deictic systems of the AP languages, but that the terms of the systems are not always stable and that the systems are often subject to elaboration.

1 Introduction

Elevation in a spatial deictic system is where a referent's location or trajectory is identified as being at a certain elevation relative to the deictic centre (abbreviated as 'DC'). Elevation is a common component of systems of spatial reference in several language areas: it is pervasive in Tibeto-Burman (Bickel 2001, Cheung 2007, Post 2011) and New Guinea (Senft 1997, 2004, Diessel 1999, Levinson 1983) areas, and less common but recurrent in pockets of the Americas (e.g., Uto-Aztecan languages such as Guarjío, Miller 1996), Australia (e.g., Dyirbal, Dixon 1972: 48) and the Caucasus (e.g., East Caucasian languages, Schulze 2003). In the typological and descriptive literature, many terms have been used to describe elevation components in spatial deictic systems, including: "environmental space deixis" (Bickel 2001), "altitudinal case markers" (Ebert 2003), "height" (Dixon 2003), "vertical case" (Noonan 2006), "spatial coordinate systems" (Burenhult 2008), and "topographical deixis" (Post 2011).



In this chapter I further the typological study of spatial deictic systems with an elevation component by surveying the elevation expressing terms in Alor-Pantar (AP) languages. Every AP language possesses elevation expressing terms in at least two domains: (i) set of motion verbs (labelled here “elevational motion verbs”) expressing that a trajectory is at a certain elevation relative to the deictic centre (go up, come down, go across, etc.), and (ii) set of non-verbal items (generically referred to here as “elevationals”) expressing that a location is at a certain elevation relative to the deictic centre. This synchronic part of this chapter focuses on the use and function of the second of these sets and any additional elevational sets a language might have. These items show much morphosyntactic variation, in contrast to elevational verbs which have near-identical distributions across the AP languages.¹ I further consider the history and reconstructability of an elevational system to proto-Alor-Pantar, observing that the elevation distinction itself is very stable in the deictic systems of the AP languages, but that the terms of the systems are not always stable and that the systems are often subject to elaboration.

The chapter is structured as follows. In § 2, I set out the terminology and conventions that I will use in describing the elevational systems. In § 3, I describe the elevational systems of seven AP languages. For each language I discuss the number of elevation terms in the system, both within and across paradigms which contain elevation marked terms. I highlight the variation that exists in the elaboration of the systems as well as in the morpho-syntactic behaviour of the items in the individual systems. In § 4, I turn to the history of AP elevational systems. Using data from eleven AP languages, I reconstruct the proto-AP elevational system and look at how different languages have expanded and complicated the inherited system. § 5 concludes the discussion and considers briefly the potential typological significance of AP elevational systems.

All data is cited in a unified transcription in order to avoid confusion due to different orthographic practices for different languages. The sources for the data cited are given throughout the text of the chapter, but are also summarised in the ‘Sources’ section before the References.

¹ Note that I do not deal with how elevation terms are influenced by pragmatic and other contextual factors or by ultimate orientation effects (see Schapper 2012 for discussion of some of these effects in two Timor-Alor-Pantar languages).

2 Terminological preliminaries

The various labels that we saw in the previous section are indicative of the lack of standardised terminology to describe deictic systems with an elevational component. In this section, I define the terminology for the different categories we encounter to be used throughout this chapter.

Of primary importance are the labels given to elevational heights. I distinguish three heights of elevation in basic glosses, as set in (1). I avoid terms such as “below”, “above”, etc. as used by other authors, since these are typically relational terms whose locative reference does not hinge on a speech participant (speaker and/or addressee). For instance, in the sentence *The cat is below the chair*, the position of speech participants does not have any impact of locative relation between the cat and the chair.

- (1) ‘HIGH’: refers to any location situated *up(ward of)* the deictic centre;
 ‘LOW’: refers to any location situated *down(ward of)* the deictic centre;
 ‘LEVEL’: refers to any location situated *level with* the deictic centre.

There are very different ways in which an entity can be ‘HIGH’, ‘LOW’ or ‘LEVEL’ relative to the deictic centre. The most sophisticated typology of this is set out in Burenhult (2008). He identifies three kinds of systems (Burenhult 2008: 110-111) (see Table 1).

The AP languages have, for the most part, systems of global elevation. There are languages in which geophysics plays a role in mapping the elevation system onto the landscape, but this does not limit the systems from referring to locations as, for instance, only uphill or downhill. An example of this comes from Wersing: in this, elevational motion verbs *-a* ‘go.LOW’ and *-mid* ‘go.HIGH’ are often translated by speakers as ‘go towards the sea’ and ‘go towards the mountains’. However, it does not follow that this is a geophysical system, since when we move speakers to a non-coastal environment, the verbs can still be applied despite the absence of the sea-landwards dichotomy. In addition, AP languages may also incorporate elements of other elevational types into otherwise globally elevated systems. In § 3.5, we will see that, whilst Adang marks only global elevation in its elevationals, demonstratives and elevational motion verbs, it also has a special set of directional elevationals containing dedicated geophysical elevation terms as well as extra elevation terms in the HIGH domain marked for different degrees of verticality. Two languages, Western Pantar and Kamang, also incorporate the steepness of the slope into their elevational systems, which in essence is also a means of distinguishing greater or lesser degrees of verticality

Table 1: Types of spatial coordinate system (Burenhult 2008:110-111).

Global elevation	projects general search domains above or below the level of the deictic centre, with an axis from the deictic centre to the referent can but need not be strictly vertical (e.g., there anywhere above, below, etc.)
Verticality	projects very narrow search domains along a truly vertical axis running at a right angle through the deictic centre, invoking a sense of exactly above/overhead or below/underneath (e.g., there straight up, there directly below, etc.)
Geophysical elevation	projects search domains which restrict themselves to elevation as manifested in features of the geophysical environment and are not used to refer to the vertical dimension in general (e.g., there uphill, there downstream, etc.)

in elevational deixis.

In several AP languages which I will discuss, elevation-marked terms occur in paradigms with terms that are not marked for elevation. To refer to any term in a paradigm with elevation-marked terms which is not marked for elevation as ‘UNELEVATED’ and for those that are elevation-marked, I use the label ‘ELEVATED’. Note that I avoid describing ELEVATED terms as “distal” as compared to the UNELEVATED terms with which they occur in paradigms. ELEVATED terms, in many cases, seem to form a separate system that contrasts with their UNELEVATED counterparts in terms of speech participant-anchoring. This means that, whereas UNELEVATED terms take one of their speech participants (speaker or addressee) as the deictic centre, ELEVATED terms refer to locations relative to the speech situation as a whole. However, on account of their only vague locational reference, they are not typically used in relation to items that are very close to a speaker. Labels such as “distal” (DIST) and “proximal” (PROX) as well as “addressee-anchored” (ADDR) and “speaker-anchored” (SPKR) will be used only in reference to UNELEVATED terms.² The terms ‘NEAR’ and ‘FAR’ are used instead for the few occasions

² This glossing of demonstratives is taken from Schapper & San Roque (2011). See their article for discussion and illustration of the meanings and uses of such demonstratives.

in which we find distance-related distinctions between ELEVATED terms.

Finally, I use the term “elevational” to refer to the sets of non-verbal items denoting a location that is at a certain elevation relative to the deictic centre. I use the term “locational” to refer to paradigms of ELEVATED and UNELEVATED terms referring to locations. This means, ELEVATED locationals are “elevationals”, while UNELEVATED locationals are functional equivalents to such items as English “here” and “there”. However, I avoid the common label given to these (“demonstrative adverbs”, as, e.g., in Diessel 1999) since locationals in AP languages are not typically restricted to adverbial positions, but can often also occur as predicates and in NPs. I reserve the term “demonstrative” for an NP constituent that refers to an entity by locating it in space. By contrast, locationals, including elevationals, denote a location relative to which a referent can be identified in space. The morpho-syntax of elevationals in individual languages will be described in § 3.

3 Alor-Pantar elevational systems

The expression of elevation is considered in seven AP languages from across the archipelago. I discuss languages in order of the complexity of their elevational systems. Complexity here is calculated looking at both the number of elevation marked terms and the number of semantic components within the different elevational domains. The relative complexity of the different AP systems is discussed at the end of this section (§ 3.8).

3.1 Wersing

Wersing has one of the simpler elevational systems, with a total of nine elevation marked terms. There are three elevationals for the three elevational heights, each matched with motion verbs to and from the deictic centre (Table 2). No additional semantic distinctions are made in the elevational or verbal paradigm.³

Wersing elevationals can be used as one-place predicates encoding the location of a NP referent at an elevation relative to the speaker. Example (2) illustrates this predicative use.

³ This section is based on Schapper & Hendery (2014:457-458).

Table 2: Wersing elevation terms

		Elevational motion verb	
		From DC	To DC
LEVEL	<i>mona</i>	<i>-wai</i>	<i>-mai</i>
HIGH	<i>tona</i>	<i>-mid</i>	<i>-dai</i>
LOW	<i>yona</i>	<i>-a</i>	<i>-sir</i>

- (2) Wersing (Schapper & Hendery 2014:457)

Sobo ba tona.

house ART HIGH

‘The house is up there.’

The elevationals also have non-predicative uses where they locate an action or an entity by their elevation. In these contexts the elevational follows the clausal element(s) over which it has scope. In (3) the elevational *mona* follows the NP headed by *pei* ‘pig’ and denotes the elevation of the pig at the time of its still breathing. In (4) *yona* follows the verbal predicate *aki* ‘call’ and denotes the elevation at which the calling takes place.

- (3) NP scope Wersing (Schapper & Hendery (2014:258))

Pei ba mona de gekin sesai.

pig ART DOWN IPFV 3-breathe breath

‘The pig (that is) over there is still breathing.’

- (4) Predicate scope Wersing (Schapper & Hendery (2014:258))

David aki yona.

David call DOWN

‘David calls (from) down there.’

3.2 Teiwa

Teiwa also has a simple 9-term elevational system (Table 3). Like Wersing, elevationals and elevation marked motion verbs distinguish the three elevational heights and no additional semantic distinctions are made.

Teiwa elevationals occur predicatively, where they indicate the elevational height of the NP referent, as in (5).

is indeed
258 in-
tended
in these
exam-
ples, and
not 458?

Table 3: Teiwa elevation terms

		Elevational motion verb	
		From DC	To DC
LEVEL	<i>wunaxai</i>	<i>wa</i>	<i>ma</i>
HIGH	<i>maraqai</i>	<i>mir</i>	<i>daa</i>
LOW	<i>yaqai</i>	<i>yix</i>	<i>yaa</i>

- (5) Teiwa (Klamer 2010:142)

Uy nuk un maraqai.

3SG one CONT HIGH

‘Is a person up there?’

Elevationals in Teiwa can also occur in positions both before and after predicates. In (6) *maraqai* precedes the postpositional predicate *uyan me?*, and locates it as at a higher elevation than the speaker. In (7) *yaqai* after the verb *yix* denotes the location resulting from the motion as at a lower elevation than the speaker.

- (6) Teiwa (Klamer 2010:141)

A maraqai uyan me?

3SG HIGH mountain in

‘He’s in the mountains up there.’

- (7) Teiwa (Klamer, fieldnotes)

Iman yix-in yaqai.

3PL go.LOW-REAL LOW

‘They went down there.’

3.3 Abui

In Abui elevational motion verbs maintain the simple three-way distinction already observed in Wersing and Teiwa. However, the elevationals show an extra degree of elaboration in the HIGH and LOW spheres, with a distance contrast being added between NEAR and FAR locations. The LEVEL sphere does not show this extra semantic component.

³ The syntactic classification of the elevationals is that of the present author. Kratochvíl (2007) includes elevationals in a single class with the demonstratives *do*, *o*, *to*, *yo*, and the articles

Table 4: Abui elevation terms

		Elevationals	Elevational motion verb	
			From DC	To DC
LEVEL		<i>oro</i>	<i>we</i>	<i>me</i>
HIGH	NEAR	ó †	<i>marei</i>	<i>maran</i>
	FAR	wó		
LOW	NEAR	ò	<i>pa</i>	<i>sei</i>
	FAR	wò		

† Accents mark tone. The rising accent marks high tone, while the grave accent marks low tone. See Kratochvíl (2007:60)

Abui elevationals can be predicates, as for instance in (8) where *oro* denotes elevation of the branch in relation to the speaker. Where they indicate the elevation at which an action takes place, elevations occur directly before a verb, as with the predicative verb *burok* ‘move’ in (9).

- (8) Abui (Kratochvíl, Abui corpus)
Bataa ha-tan dara oro.
 tree 3.POSS-arm still LEVEL
 ‘The tree branch is still over there.’
- (9) Abui (Kratochvíl, Abui corpus)
Bataa ha-tan dara oro burok.
 tree 3.POSS-arm still LEVEL move
 ‘The tree branch is still moving over there.’

Abui elevationals can also occur in NPs. In an NP headed by a noun the elevational follows the head, but to the left of any article or demonstrative marking the right periphery of the NP. For instance, in (10) the LEVEL elevational *oro* follows the NP head *fu* ‘betel’ but precedes the demonstrative *do*. It indicates the elevation at which the betel palm is found. An elevational can also occur in an

hu and *nu*. These two sets have different syntactic distributions from the set of elevationals I identify. See Schapper & San Roque (2011) for details on the morphosyntactic properties of Abui demonstratives. The distributional characteristics of Abui elevations are set out in the main text here.

NP without a head noun. In this case the elevational is the head of the NP and the referent of the NP is the location indicated by the elevational. In (11) the LOW elevational *o* heads the NP marked by the article *nu* and the demonstrative *do*. This NP occurs in the postpositional phrase headed by *=ŋ* and denotes the goal location for the motion dignified by the elevational verb *pa* ‘go down’.

- (10) Abui (Kratochvíl, Abui corpus)

Di yaa [fu oro do]_{NP} mia.

3 go betel LEVEL DEM in

‘He went to this betel (palm) (which is) over here.’

- (11) Abui (Kratochvíl, Abui corpus)

... ha-bukaŋ dikaŋ mi [o nu do]_{NP=ŋ} pa.

... 3.POSS-thimble again take LOW.FAR ART DEM=LOC go.LOW

‘... (he) again goes to take his thimble to down there.’

3.4 Blagar

Blagar has a plethora of elevation terms, with a total of 32 elevation-marked forms. These occur in paradigms with speech participant-anchored terms (Table 5). Blagar has five locationals. These appear both as independent words and as constituents of multiple sets of derived items (bolded in Table 5). These particles consist of the three elevationals, *mo* ‘LEVEL’, *do* ‘HIGH’ and *po* ‘LOW’, plus two UNELEVATED speech participant-anchored locationals, *?a* ‘PROX.SPKR’ and *?u* ‘PROX.ADDR’. Only the elevational motion verbs, which have different etymologies, do not include the locational forms in their paradigms.

The elevationals occur in two positions: between subject and predicate, as in (12), and following a predicate, as in (13). The different positions are associated with different epistemic values. The clause-medial position connotes epistemic certainty on the part of the speaker, while the clause-final position connotes epistemic accessibility to the addressee, that is, that the addressee is or could be aware of the situation described in the clause (Hein Steinhauer, p.c.).⁴

- (12) Blagar (Steinhauer, p.c.)

?ana po ab na.

3SG.SUBJ LOW fish eat

‘S/he eats fish down there (for sure).’

⁴ Schapper & San Roque (2011) describe similar epistemic uses of demonstratives in TAP languages. Blagar appears to be unique in its use of different syntactic positions of deictic particles to denote different levels of epistemic accessibility.

Table 5: Blagar elevation terms

		Locationals				
LEVEL						mo
HIGH						do
LOW						po
UNELEVATED	PROX.SPKR					<i>?a</i>
	PROX.ADDR					<i>?u</i>

		Stative verbs				
		be as much as	be as big as	be as high as	be at	be at vis
LEVEL		monoaŋ	mo vaŋ	mohukaŋ	mo?e	momo
HIGH		donoaŋ	dovaŋ	dohukaŋ	do?e	dodo
LOW		ponoaŋ	povaŋ	pohukaŋ	po?e	popo
UNELEVATED	PROX.SPKR	<i>?anoaŋ</i>	<i>?avaŋ</i>	<i>?ahukaŋ</i>	<i>?a?e</i>	<i>?a?a</i>
	PROX.ADDR	<i>?unoaŋ</i>	<i>?uvaŋ</i>	<i>?uhukaŋ</i>	<i>?u?e</i>	<i>?u?u</i>

		Demonstratives		Manner adverbs
		Basic	Collective	
LEVEL		<i>?amo</i>	<i>?anamo</i>	mol aŋ
HIGH		<i>?ado</i>	<i>?anado</i>	dol aŋ
LOW		<i>?apo</i>	<i>?anapo</i>	pol aŋ
UNELEVATED	PROX.SPKR	<i>?aŋa</i>	<i>?anaŋa</i>	<i>?alaŋ</i>
	PROX.ADDR	<i>?aŋu</i>	<i>?anaŋu</i>	<i>?ulaŋ</i>

Elevational motion verbs		
	From DC	To DC
LEVEL	<i>va</i>	<i>ma</i>
HIGH	<i>mida</i>	<i>da</i>
LOW	<i>?ipa</i>	<i>ya</i>
UNELEVATED	<i>?ila</i>	<i>ho?a</i>

- (13) Blagar (Steinhauer, p.c.)

?ana ab na po.

3SG.SUBJ fish eat LOW

‘S/he eats fish down there (as you may know).’

The derived demonstratives (basic and collective) occur marking the right-hand periphery of the NP either with (14) or without a noun head (15).

- (14) Blagar (Steinhauer 2012)

[Hava kiki ?a-na-po]_{NP} ka?ana.

house little DEM-COLL-LOW black

‘That group of little houses down there is black.’

- (15) Blagar (Steinhauer 2012)

?ini [?a-mo]_{NP} mi mihi.

3PL.SUBJ DEM-LEVEL LOC sit

‘They live in that (place) over there.’

The derived manner adverbs occur in one of two positions: (i) preceding the subject (16), or (ii) following the predicate (17).

- (16) Blagar (Steinhauer 2012)

?u-lan ana tia.

PROX.ADDR-like 2SG.SUBJ sleep

‘That is how you sleep.’

- (17) Blagar (Steinhauer 2012)

Ana tia-t ?a-lan.

2SG.SUBJ sleep-MNR PROX.SPKR-like

‘You sleep like this.’

Derived stative verbs refer to measurement (18), and static location (19).

- (18) Blagar (Steinhauer 2012)

Ne hava do-var.

1SG.POSS house HIGH-big.as

‘My house is as big as the one up there.’

- (19) Blagar (Steinhauer 2012)

?ana mida do-?e.

3SG.SUBJ go.HIGH HIGH-be.at

‘S/he went up and is up there.’

Table 6: Adang elevation terms (reanalysed from Haan 2001)

		Locationals		Demonstratives
		Basic	Directional	
LEVEL		<i>mɔŋ</i> <i>maɛ</i>	<i>fale</i>	<i>hɛmɔ</i>
HIGH		<i>tɔŋ</i> <i>madɔŋɛ</i> <i>adaŋɛ</i> <i>taʔɛ</i> <i>tale</i>	<i>midle</i>	<i>hɛtɔ</i>
LOW		<i>pɔŋ</i>	<i>iplɛ</i> <i>hellɛ</i> <i>lifanɛ</i>	<i>hɛpɔ</i>
UNELEVATED	PROX.SPKR PROX.ADDR	<i>ɔŋ</i>		<i>hɔʔɔ</i> <i>ho</i>

Elevational motion verbs		
	From DC	To DC
LEVEL	<i>fa</i>	<i>ma</i>
HIGH	<i>mid</i>	<i>madɔŋ</i>
LOW	<i>ip</i>	<i>hɛl</i>
UNELEVATED	<i>sam</i>	<i>hoʔ</i>

3.5 Adang

Adang has 22 elevation marked terms occurring in a paradigm with UNELEVATED terms (Table 6). Elevation terms are divided across three word classes: locationals, demonstratives and elevational motion verbs. These are described below.

Elevational motion verbs follow the simple 6-term pattern that we have seen for all AP discussed thus far. ELEVATED demonstratives have a three way elevational contrast marked by *mɔ* ‘LEVEL’, *tɔ* ‘HIGH’ and *pɔ* ‘LOW’, while their UNELEVATED counterparts are essentially characterisable by the absence of these morphemes. The largest elevational word class is the ELEVATED locationals, or

elevationals. These divide into two sets, basic and directional, that are distinguished from one another both formally and semantically. The basic set has the elevational marking morphemes we saw in the ELEVATED demonstratives marked with *-ŋ* and occurs in a paradigm with an UNELEVATED term. The directional set of elevationals differs from the basic set in that they are derived from other roots with the suffix *-le* and do not have UNELEVATED counterparts.

Semantically, the contrast between the basic and directional elevationals is in the first place the type of elevation they reference. Basic elevationals refer to global elevation. In the directional set, different terms have different elevational reference. In Table 7 I set out the elevational reference and the sources of roots of the directional elevationals. The two geophysical elevationals in Adang reference a trajectory between the inland mountains where Adang villages are traditionally located and the coastal lowlands away from Adang villages. The two vertical elevationals reference a location that is vertically HIGH in relation to the DC. The difference between *taʔle* and *talɛ* appears to be one of the contact relationship between the DC and the referent location. *Taʔle* references a location straight up from the DC without being in contact with the DC, while *talɛ* references a location that is directly on top of and in contact with the DC. Finally, the directional elevationals with global elevational reference are built from elevation marked motion verbs. They differ referentially from the basic set which also refers to elevation globally with reference to location as being towards or away from the DC, according to what elevational motion verb is the root (see Table 7).

Table 7: Sources of Adang directional elevationals.

Geophysical:	<i>adanʔle</i>	MOUNTAIN.WARDS	< <i>adan</i>	‘mountain’
	<i>lifanʔle</i>	COAST.WARDS	< <i>lifan</i>	‘anchor’
Vertical:	<i>taʔle</i>	HIGH.VERTICAL	< <i>ta</i>	‘(put) on’
	<i>talɛ</i>	ON.VERTICAL		
Global:	<i>midle</i>	HIGH.AWAY.DC	< <i>mid</i>	‘go.HIGH’
	<i>madɔŋle</i>	HIGH.WARDS.DC	< <i>madɔŋ</i>	‘come.HIGH’
	<i>iple</i>	LOW.AWAY.DC	< <i>ip</i>	‘go.LOW’
	<i>helle</i>	LOW.WARDS.DC	< <i>hel</i>	‘come.LOW’
	<i>fale</i>	LEVEL.AWAY.DC	< <i>fa</i>	‘go.LEVEL’
	<i>male</i>	LEVEL.WARDS.DC	< <i>ma</i>	‘come.LEVEL’

Despite the formal and semantic differences between basic and directional elevationals, they have the same syntactic distributional properties and cannot cooccur in the clause. This indicates that they are of one and the same word class. They occur in three positions.

First, an elevational can occur as an independent clausal predicate. This is seen in (20) with the basic elevational *təŋ* ‘HIGH’ and in (21) with the directional elevational *iplɛ* ‘LOW.DC-AWAY’.

- (20) Adang (Haan 2001:192)

Aru nu təŋ.

deer one HIGH

‘There is a deer up there.’

- (21) Adang (Haan 2001:192)

Bel iplɛ.

dog LOW.AWAY.DC

‘There are dogs down there (away from the speaker).’

Second, elevationals can occur adverbially before a predicate and its (if any) adjunct. In (22) the basic elevational *məŋ* ‘LEVEL’ indicates the locational setting for the verbal predicate *tuf* ‘stand’ and its adjunct *bana mi* ‘in the forest’. In (23) the directional elevational *iplɛ* ‘LOW.DC-AWAY’ modifies the simple verbal predicate *tar* ‘lie down’.

- (22) Adang (Robinson & Haan 2014:237)

Ti taʔat ho məŋ bana mi tuf=eh.

tree dry DEM LEVEL forest IN stand=PROG

‘The dry stick is standing over there in the forest.’

- (23) Adang (Haan 2001:191)

Bel iplɛ tar=eh.

dog LOW.AWAY.DC lie.down=PROG

‘There are dogs lying down down there (in a direction away from the speaker).’

Finally, elevationals can also occur with an NP. Where an elevated demonstrative also occurs in the NP, then the elevational and demonstrative must match in elevational marking. The NP headed by *bel* ‘dog’ is modified by the basic LEVEL elevational and the LEVEL demonstrative in (24) and by a directional LOW elevational and the LOW demonstrative in (25).

- (24) Adang (Haan 2001:188)
Bel mɔŋ hɛmɔ matɛ.
 dog LEVEL DEM.LEVEL big
 ‘That dog over there is large.’
- (25) Adang (Haan 2001:188)
Bel ipɛ hɛpɔ matɛ.
 dog LOW.AWAY.DC DEM.LOW big
 ‘That dog over there is large.’

Table 8 summarises the permitted combinations of demonstrative and elevationals. Note that the only exception to the matching of elevations between demonstratives and elevationals within an NP is with *tale* ‘ON.VERTICAL’. This elevational refers to the location of *another entity* on the NP referent. Thus, the NP referent may be specified with a demonstrative as being HIGH, LOW or LEVEL in relation to the speaker as DC, and then also be located on another entity by means of *tale*. The possibility of these combinatorics is illustrated in (26) and (27).

- (26) Adang (Haan 2001:188)
Name be tale hɛmɔ fail.
 person mango ON.VERTICAL DEM.LEVEL sell
 ‘Someone is selling those mangoes on the others mangoes (the upper group of mangoes) over there.’
- (27) Adang (Haan 2001:188)
Bel tale hɛpɔ matɛ.
 person ON.VERTICAL DEM.LOW big
 ‘That dog up here from the others down there is big.’

Table 8: Combinations of ELEVATED demonstratives and elevationals (adapted from Haan 2001:188)

	Demonstrative	Elevational
HIGH	<i>hetɔ</i>	<i>mɔŋ</i>
		<i>midle</i>
		<i>madɔŋle</i>
		<i>adaŋle</i>
		<i>taʔle</i>
		<i>talɛ</i>
LOW	<i>hepɔ</i>	<i>pɔŋ</i>
		<i>iple</i>
		<i>hellɛ</i>
		<i>lifanle</i>
		<i>talɛ</i>
LEVEL	<i>hemɔ</i>	<i>mɔŋ</i>
		<i>fale</i>
		<i>malɛ</i>
		<i>talɛ</i>

3.6 Western Pantar

Western Pantar has a total of 26 elevation marked terms, occurring in paradigms with speech participant-anchored terms (Table 9). As in Blagar and Adang, elevation marking is repeated across multiple paradigms of different word classes in Western Pantar. These are: locationals, demonstratives and elevational motion verbs.

Table 9: Western Pantar elevation terms (adapted from Holton 2007 and Holton 2014)

		Locationals		Demonstratives			
				visible		invisible	
		<i>NSPEC</i>	<i>SPEC</i>	<i>NSPEC</i>	<i>SPEC</i>	<i>NSPEC</i>	<i>SPEC</i>
LEVEL		<i>mau</i>	<i>smau</i>	<i>maugu</i>	<i>smaugu</i>	<i>maume</i>	<i>smaume</i>
HIGH		<i>dau</i>	<i>srau</i>	<i>daugu</i>	<i>sraugu</i>	<i>daume</i>	<i>sraume</i>
LOW		<i>pau</i>	<i>spau</i>	<i>paugu</i>	<i>spaugu</i>	<i>paume</i>	<i>spaume</i>
UNELEVATED	PROX.SPKR	<i>iga</i>	<i>sig</i>	<i>aiga</i>	<i>saiga</i>	<i>igamme</i>	<i>sigamme</i>
	DIST.SPKR†	<i>ina</i>	<i>sina</i>	<i>aina</i>	<i>saina</i>	<i>inamme</i>	<i>sinamme</i>

		Elevational motion verbs	
		From DC	To DC
LEVEL		<i>wa</i>	<i>ma</i>
HIGH	STEEP	<i>mia</i>	<i>middan</i>
	NSTEEP	<i>raun</i>	
LOW	STEEP	<i>pia</i>	<i>yan</i>
	NSTEEP	<i>dakan</i>	

† The distal means away from speaker or other established deictic centre. Not necessarily close to hearer.

The number of elevational motion verbs is higher than in the AP languages looked at thus far. This is due to an extra distinction between steep versus non-steep appearing in the verbs denoting motion away from the deictic centre. The high number of elevation-marked terms found in the three elevation-marked word classes is, however, chiefly due to the existence of multiple paradigms of locationals and demonstratives in Western Pantar. Locationals and demonstratives have distinct paradigms for specific versus non-specific reference, and demonstratives further have separate paradigms for visible versus non-visible referents. Across the locational and demonstrative paradigms, marking for lo-

cation has the same forms derived from the basic (i.e., non-specific) locationals. These are the three elevationals, *mau* ‘LEVEL’, *dau* ‘HIGH’ and *pau* ‘LOW’ (bolded in Table 9), plus the two UNELEVATED speech participant-anchored locationals, *iga* ‘PROX.SPKR’ and *ina* ‘DIST.SPKR’. Specific-marked forms of locationals and demonstratives are derived by means of *s*-prefixed onto the basic locationals (28). Demonstratives are derived from the elevationals by *-gu* for the visible paradigm and *-me* for the non-visible paradigm (29).

- (28) Western Pantar (Holton 2011)

[*Ging spaugu*]_{NP} *kuan* *i-pariŋ*.
3PL SPEC.LOW.VIS:DEM moko.drum 3PL-surrender

‘Those who are the ones visible down there will hand over the moko drums.’

- (29) Western Pantar (Holton 2011)

[*Aname ye daum*]_{NP} *is* *taŋ ti?aŋ kor id-dia*.
person one HIGH.NVIS:DEM banyan on sleep snore PROG-go

‘Someone who is up there in a banyan tree sleeping and snoring away.’

Western Pantar elevationals occur as predicates denoting the location of a NP referent at an elevation relative to the speaker. Example (30) illustrates this predicative use.

- (30) Western Pantar (Holton, p.c.)

Hinani=b srau?
what=FOC SPEC.HIGH

‘What is up there?’

Within the clause, elevationals follow the element whose location they denote, and thus may appear clause-medially or -finally. For instance, in (31) the LOW elevational *pau* follows the subject *eu* ‘girl’ and denotes the location of her at the time of calling. In (32) *pau* denotes the location of the object *habbaŋ* ‘village’ which it follows, while in (33) *mau* denotes the location of the pre-subject locative adjunct *habbaŋ* ‘village’ which it follows.

- (31) Western Pantar (Holton, Western Pantar corpus)

Eu pau asaŋ ,...
girl LOW say ...

‘The girl down there says, ...’

- (32) Western Pantar (Holton, Western Pantar corpus)
Sinam bila taŋ misiŋ i habbaŋ pau ya saukaŋ
 SPEC.NVIS:DEM hill top sit 3PL.RFLX.POSS village LOW toward watch
pia.
 go.LOW.STEEP
 ‘(They) sat on the top of the mountain there and looked down at their village.’
- (33) Western Pantar (Holton & Lamma Koly 2008:97)
Habbaŋ mau aname horaŋ sauke-yabe.
 village LEVEL person make.noise women.dance
 ‘Over in the village people are making noise dancing lego-lego.’

Elevationals in clause-final position indicate the location at which the preceding predicate takes place. For instance, final *pau* in (34) denotes that the event of *teri* ‘anchoring’ is at lower elevation than the deictic centre. Similarly, in (35) final *dau* signals that the motion denoted by *mia* ‘go.HIGH.STEEP’ is higher in elevation than the deictic centre.

- (34) Western Pantar (Holton, Western Pantar corpus)
Asaŋ sibaŋ tukka yallu paum i-teri pau.
 say driftwood short one LOW.NVISIBLE:DEM PROG-anchor LOW
 ‘Apparently, there’s a short (piece of) driftwood caught down there.’
- (35) Western Pantar (Holton, Western Pantar corpus)
Manne gaŋ a-wake siŋ usiŋ ga-r halli wa im-mia
 woman 3SG 4-child this cradle 3-with cry go.LEVEL PROG-go.HIGH.STEEP
dau.
 HIGH
 ‘His wife cradled her child while crying over him going back up there.’

3.7 Kamang

Kamang elevation terms are given in Table 10. The Kamang elevational paradigms have more terms than most other AP languages due to the presence of two additional semantic components in the HIGH and LOW domains, namely, direction and distance. Direction has to do with the angle of the path taken or referenced location relative to the angle of the slope. Using a DIRECT elevation term means that the path taken follows the angle of the slope directly (i.e., at its steepest),

Table 10: Kamang elevation terms

			Elevationals	Elevational motion verbs	
				From DC	To DC
LEVEL			<i>muŋ</i>	<i>we</i>	<i>me</i>
HIGH	DIRECT		<i>tuŋ</i>	<i>te</i>	<i>taan</i>
	INDIRECT	NEAR	<i>mutuŋ</i>	<i>wete</i>	<i>metaan</i>
		FAR	<i>tumuŋ</i>	<i>tewe</i>	<i>taanme</i>
LOW	DIRECT		<i>fuŋ</i>	<i>fe</i>	<i>yaan</i>
	INDIRECT	NEAR	<i>muhuŋ</i>	<i>wehe</i>	<i>yaanme</i>
		FAR	<i>fumuŋ</i>	<i>fewe</i>	

whilst an INDIRECT elevation term means that the path traverses across the angle of the slope or that the referenced location is off to the side of angle of the slope. Distance is only marked in the INDIRECT domain, and is concerned with whether the path taken is short or long or the referenced location is near or far. Thus, using a NEAR elevation term means traversing across a slope for a short distance, while using a FAR one traversing across a slope for a long distance.

Kamang elevationals occur adverbially, directly before a predicate or a predicate and its object. For instance, in (36) *mutuŋ* denotes the location from which the calling takes place, and in (37) *tuŋ* gives the location on the slope where the stumbling takes place. An elevational may also occur following a motion verb specifying the resultant location of the motion, as in (38) where the elevational *tuŋ* follows its corresponding elevational verb *te*.

- (36) Kamang (Schapper 2014:306)

Nok sue koo mutuŋ wo-iti-si.

one come stay LEVEL 3.LOC-call-IPFV

‘Somebody was calling him from over there.’

- (37) Kamang (Schapper 2014:306)

Markus tuŋ wuleh sama kawaila-ma.

Markus HIGH.DRCT slope middle stumble-PFV

‘Markus stumbled on the slope up (which is) up there.’

- (38) Kamang (Schapper 2014:306)
Nal te tuŋ.
 1SG go.HIGH.DRCT HIGH.DRCT
 ‘I go up top.’

3.8 Summary

AP languages invariably have elevation marking in a set of non-verbal elevationals and in a paradigm of elevational verbs. In the preceding sections, we have seen some of the variety that elevational systems contain.

AP languages vary significantly in the number of elevation terms, the number of paradigms over which they occur and the extra semantic components that are added within the three elevational heights (summarised in Table 11).

Table 11: Overview of elaboration of elevational systems in AP languages

	elevation marked forms	paradigms with elevationals	extra semantic features
Wersing	9	2	0
Teiwa	9	2	0
Abui	11	2	1
Blagar	32	10	0
Adang	22	4	3
Western Pantar	26	8	1
Kamang	20	2	2

Minimally, AP languages have 9 elevation terms, with three elevationals and six elevational motion verbs distinguishing three elevations. A much higher number of terms are found in languages such as Blagar, Adang and Western Pantar, which have elevation marking morphology reiterated over multiple paradigms of different word classes, including in particular demonstratives (one extra paradigm in Adang, two in Blagar and four in Western Pantar), verbs (six extra paradigms in Blagar) and adverbs (one extra paradigm in Blagar).

The number of elevation marked terms has also been increased by adding semantic distinctions within the three elevational heights. Adang has the greatest number of semantic elaborations, with geophysical, vertical and directional

Table 12: Number of elevation-marked terms by elevational domain and word class

	Elevationals			Elevational motion verbs					
	LEVEL	HIGH	LOW	From DC			To DC		
				LEVEL	HIGH	LOW	LEVEL	HIGH	LOW
Wersing	1	1	1	1	1	1	1	1	1
Teiwa	1	1	1	1	1	1	1	1	1
Abui	1	2	2	1	1	1	1	1	1
Blagar	1	1	1	1	1	1	1	1	1
Adang	3	6	4	1	1	1	1	1	1
Western Pantar	1	1	1	1	2	2	1	1	1
Kamang	1	3	3	1	3	3	1	3	2

terms being added in the elevationals to the standard global elevationals. Kamang adds two new semantic components to its elevation marked terms, directionality and distance. Western Pantar and Abui add one extra semantic distinction, steepness and distance respectively.

Added semantic components are typically limited to either particular elevational domains or to particular paradigms of elevation-marked terms. Table 12 presents an overview of the distribution of these across AP languages. A cell with ‘1’ represents a domain without semantic elaboration, whilst higher numerals (bolded) indicate the presence of semantic elaborations.

We see that it is not typical to elaborate in the LEVEL domain. Only Adang has more than one LEVEL term in its elevationals, due to the regular derivation of directional elevationals from elevation marked verbs (*fale* < *fa* ‘go.LEVEL’, *male* < *ma* ‘come.LEVEL’). All other languages restrict their elaborations to the HIGH and LOW domains. Semantic elaborations are typically also limited to one paradigm and are not elaborated over all paradigms. Abui and Adang limit their extra distinctions to elevationals, while Western Pantar limits it to elevational motion verbs denoting movement away from the DC. Kamang is unusual in that it has almost the same semantic elaborations in both its elevationals and elevational verbs. Asymmetries in the number of extra distinctions are present in Adang and Kamang, while Abui and Western Pantar apply the semantic elaboration to all parts of the paradigm.

Table 13: Overview of syntax of elevationals in AP languages

	predicative	Adverbial		(Ad-)Nominal	
		medial	final	with noun head	without noun head
Wersing	yes	yes	no	no	no
Teiwa	yes	yes	yes	no	no
Abui	yes	yes	no	yes	yes
Blagar	no	yes	yes	no	no
Adang	yes	yes	no	yes	no
Western Pantar	yes	yes	yes	no	no
Kamang	no	yes	yes	no	no

The syntax of elevation-marked terms also shows variation between languages. Focusing on the elevationals (or “ELEVATED locationals”, items referring to a location at a specified elevation), we observed a range of syntactic differences from one language to the next. In Table 13, I summarise the ability of AP elevationals to occur predicatively, adverbially and within the NP.

In all but two languages (Kamang and Blagar), elevationals occur as independent clausal predicates indicating the elevation at which the subject was to be located. Blagar does not allow elevationals predicatively, and instead has a derived paradigm of stative elevational verbs which fulfill the same function as predicative elevationals in other AP languages.

All languages allow their elevationals to occur clause-medially, when adverbial. However, only four languages (Teiwa, Blagar, Western Pantar and Kamang) allow elevationals to occur clause-finally. Yet, even where the clausal position was the same, there were, however, differences from language to language in the function and constituency of elevationals in adverbial use. The most common clause-medial function of an elevational was to mark that the situation or event denoted by the following predicate took place at a certain elevation. This was found for Wersing, Teiwa, Abui, Adang and Kamang clause-medial adverbial elevationals, but not in Blagar and Western Pantar. In Blagar the choice of clausal position of an elevational reflected not spatial but epistemic differences, with clause-medial position signalling certainty on the part of the speaker and clause-final position signalling epistemic accessibility of knowledge of the event to the addressee. In Kamang, by contrast, the clausal position of an elevational

reflects a different kind of location: clause-medially an elevational denotes the location at which the following predicate take places, whereas clause-finally an elevational denotes a location resulting from the predicate. In Western Pantar, making a clause-final versus clause-medial distinction is misleading because the constituency of an elevational is the same in both positions: Western Pantar elevationals follow the element whose location they denote, medially these are NPs and finally these are verbs.

In the nominal domain, we also observed variation in how individual languages could use elevationals. All but Abui and Adang did not allow elevationals to occur in the NP. Abui allowed elevationals not only to occur within an NP alongside a head noun, but also to head the NP itself, while Adang only allowed elevationals to occur within a head noun.

In short, elevation-marking in AP languages is characterised by diversity not only in the sheer number of terms that systems contain, but also in the semantic components and syntactic behaviour of those terms.

4 History of AP elevation terms

Thus far our explorations of AP elevational systems have been synchronic, describing the internal structures of the systems one language at a time. Today, even if the majority of elevational systems in AP languages are little explored, the quantity and quality of existing information is sufficient for the formulation of historical hypotheses about the elevational system of their common ancestor, proto-AP (pAP).

In Table 14, I present the reconstructable elevational forms of pAP. These reconstructions are made by comparing the terms in the systems found in modern AP languages. The one peculiarity of this reconstructed system is that the LOW

Table 14: pAP elevation terms

	Elevationals	Elevational motion verbs	
		From DC	To DC
LEVEL	<i>*mo</i>	<i>*wai</i>	<i>*mai</i>
HIGH	<i>*(d,t)o</i>	<i>*mid(a)</i>	<i>*medai(η)</i>
LOW	<i>*po</i>	<i>*pia</i>	<i>*seri</i>
	<i>*yo</i>		<i>*ya(η)</i>

elevational domain has two competing reconstructions in the elevational particles (*po versus *yo) and in the elevational verbs denoting motion towards the DC (*seri versus *ya(ŋ)). The evidence for these will be discussed in subsequent sections.

In Sections 4.1 and 4.2, I look at the evidence for the different forms in the reconstructed proto-paradigms of elevationals and elevational verbs respectively. Finally, in § 4.3, I consider the mechanisms by which the proto-system has been complicated and additional distinctions have been built up. In the following subsections, I draw on data not only from the seven languages already discussed in § 3, but also from an additional four languages, Kaera, Klon, Kui, and Sawila. In these languages, individual basic elevation terms are known but the semantics and morpho-syntax of the elevation system are not fully understood or described.⁵

4.1 Proto-elevationals

Table 15 presents pAP elevationals and their reflexes in the eleven modern AP languages for which we have data. Bolding in the table selects the cognate parts of the modern reflexes.

Reflexes of all four morphemes are found in non-contiguous areas of both Alor and Pantar. The distribution also does not conform to any known subgroups of the AP languages, thus justifying the reconstruction of the four morphemes to the highest level, pAP.

We see from Table 15 that “bare”, that is unaffixed, reflexes of the proto-elevationals are found in Western Pantar, Kaera and Blagar. In West Pantar, Blagar and Adang, these morphemes are found across multiple paradigms of different word classes. Notably, several modern AP languages have reflexes suffixed with a nasal segment. This, I suggest, traces back to an enclitic postposition, pAP *=ŋ ‘LOC’.⁶ Abui reflects the proto-morpheme as =ŋ ‘LOC’ (see example 11), an enclitic postposition closely resembling the probable original function of *=ŋ. In other AP languages, *=ŋ is preserved fused onto a range of location signifying words. Many AP languages have postpositions marked with *=ŋ, for instance: on Blagar *taŋ* ‘on top of’, but not on Kamang *taa* and Abui *taha*, possibly < *tas ‘stand’, or

check if
this is
the right
example

⁵ The following language abbreviations are used in tables in subsequent sections: Tw Teiwa, Ke Kaera, WP Western Pantar, Bl Blagar, Ad Adang, Kl Klon, Ki Kui, Ab Abui, Km Kamang, Sw Sawila, and We Wersing.

⁶ I give this morpheme its phonetic rather than phonemic value for ease of explication. It seems likely that, as in many modern AP languages, in pAP the velar nasal was a word-final allophone of pAP *n.

Table 15: Reflexes of pAP elevationals

	pAP	Lg	Reflexes
LEVEL	<i>*mo</i>	WP	<i>mau</i>
		BL	<i>mo</i>
		AD	<i>mɔŋ</i>
		KM	<i>muŋ</i>
		WE	<i>mona</i>
		SW	<i>mana</i>
HIGH	<i>*(d,t)o</i>	WP	<i>dau</i>
		KE	<i>de</i>
		BL	<i>do</i>
		AD	<i>tɔŋ</i>
		KL	<i>ta</i>
		KM	<i>tuŋ</i>
		WE	<i>tona</i>
		SW	<i>tana</i>
LOW	<i>*po</i>	WP	<i>pau</i>
		KE	<i>pe</i>
		BL	<i>po</i>
		AD	<i>pɔŋ</i>
		KM	<i>fuŋ</i>
	<i>*yo</i>	Tw	<i>yaqai</i>
		KI	<i>iyo</i>
		WE	<i>yona</i>
		SW	<i>yana</i>

on Wersing *ming* ‘in’, but not on Kamang *mi*, Klon *mi* and many more < *mi ‘in(side)’.

The four languages for which we have reflexes of proto-elevationals marked with *=ŋ ‘LOC’ are Adang, Kamang, Wersing and Sawila. In the latter three the morpheme is fused on, whilst in Adang reflexes of *=ŋ only occur on one paradigm and the basic elevational forms combine with other affixes in other paradigms (e.g., *he-* in the demonstratives, or *-le* in directional elevationals). In East Alor languages, Wersing and Sawila, the forms have further fossilised suffixed with *-a*, a morpheme of unknown significance at this stage.⁷ It appears that *=ŋ was used originally on the elevationals to make them into locative predicates. This is seen in that, whilst Blagar and Western Pantar cannot use their “bare” elevationals as predicates, the elevationals marked with *=ŋ as in Adang, Wersing and Sawila can be predicates. From there, *=ŋ would have become fixed on the elevationals, even in adverbial function where it would not have been needed originally in pAP, as is suggested by the adverbial use of “bare” elevationals in Blagar and Western Pantar.

4.2 Proto-elevational verbs

Table 16 presents pAP elevational verbs and their reflexes in the 12 modern AP languages for which we have data. Differences between the reconstructed meaning and the modern meaning of the verbs are given below the table.

The reconstruction of the paradigm with proto-forms of the verbs in the LEVEL and HIGH domains is robust and well-supported. Reflexes of these are found throughout the Alor-Pantar area with consistent form-meaning pairings. Some small irregularity is observed in the sound correspondences of reflexes, particularly amongst the reflexes of *medai(ŋ) ‘come.LOW’. Teiwa *daa*, Kaera and Blagar *da* and Wersing *dai* all show loss of the initial syllable of *medai(ŋ). It is likely that the initial syllable of the verb was unstressed (i.e., *me’dai(ŋ)), as is often found in Alor-Pantar roots made up of a light-heavy syllable series. Historical loss of initial unstressed syllables has been observed repeatedly in AP languages (Holton et al. 2012:93, 111).

The reconstruction of proto-forms of elevational verbs in the LOW domain is more complex due to the existence of two competing ‘come.LOW’ forms, *seri and *ya(ŋ). The majority of AP languages have a reflex of only one of these two.

⁷ Wersing has an enclitic article =*a* ‘ART’ which marks NPs for specificity, and a suffix *-a* which marks realis mood on verbs. Note there is some evidence for the existence of elevationals in Wersing without *-a*. In Schapper and Hendery, Wersing corpus., there are two instances of *yōŋ* that were said by an informant to have the same meaning as *yōna*.

Table 16: Reflexes of pAP elevational verbs.

LEVEL	<i>*wai</i>					
	WP	<i>wa</i>	AD	<i>fa</i>	KM	<i>we</i>
	TW	<i>wa</i>	KL	<i>wa</i>	WE	<i>wai</i>
	KE	<i>wa</i>	KI	<i>bai</i>	SW	<i>we</i>
	BL	<i>va</i>	AB	<i>we</i>		
	<i>*mai</i>					
	WP	<i>ma</i>	AD	<i>ma</i>	WE	<i>mai</i>
	TW	<i>ma</i>	KL	<i>ma</i>	KI	<i>mai</i>
	KE	<i>ma</i>	AB	<i>me</i>		
	BL	<i>ma</i>	KM	<i>me</i>		
HIGH	<i>*mid(a)</i>					
	WP	<i>mia</i>	AD	<i>mid</i>	WE	<i>mid</i>
	TW	<i>mir</i>	KL	<i>mid</i>	SW	<i>mide</i>
	KE	<i>mid</i>	KI	<i>mira</i>		
	BL	<i>mida</i>	AB	<i>marei</i>		
	<i>*medai(η)</i>					
	WP	<i>middan</i>	AD	<i>madɔŋ</i>	WE	<i>dai</i>
	TW	<i>daa</i>	KL	<i>mde</i>	SW	<i>made</i>
	KE	<i>da</i>	KI	<i>maran</i>		
	BL	<i>da</i>	AB	<i>maran</i>		
LOW	<i>*pia</i>					
	WP	<i>pia</i>	AD	<i>ip</i>	AB	<i>pa</i>
	KE	<i>ip</i>	KL	<i>ip</i>	KM	<i>fe</i>
	BL	<i>?ipa</i>	KI	<i>pa†</i>		
	<i>*seri</i>					
	AD	<i>hel</i>	KI	<i>sei</i>	WE	<i>sir</i>
	KL	<i>her</i>	AB	<i>sei</i>	SW	<i>sire</i>
	<i>*ya(η)</i>					
	WP	<i>yan</i>	BL	<i>ya</i>	SW	<i>yaa‡</i>
	TW	<i>yaa</i>	KM	<i>yaan</i>		
	KE	<i>ya</i>	WE	<i>a‡</i>		

† This term in Kui has shifted meaning in Kui to mean ‘go west’, instead of ‘go.LOW’. This new meaning makes sense as a conventionalisation due to the local geography whereby west Alor is significantly less mountainous and overall at a much lower elevation than east Alor, as per Windschuttel (2013).

‡ Means ‘go.LOW’ instead of expected ‘come.LOW’.

Typically, Pantar languages have reflexes of **ya(ŋ)* for ‘come.LOW’, while west Alor languages have reflexes of **seri* for ‘come.LOW’. Only east Alor languages have reflexes of both, with a reflex of **seri* for ‘come.LOW’ and a reflex of **ya(ŋ)* for ‘go.LOW’, while no reflexes of **pia* are found, as would be expected for ‘go.LOW’.⁸ At this stage, both **ya(ŋ)* and **seri* are reconstructed to pAP, because evidence for reconstructing one over the other is thin. The slightly wider distribution of reflexes of **ya(ŋ)* might be taken to indicate that this was the earlier term, and that **seri* was introduced into the elevational verb paradigm soon after the breakup of the proto-language. One potential source for this introduction would be verbs such as Kamang *silan* ‘descend’, a verb which is not part of the elevation paradigm proper as it is not anchored to a deictic centre as elevational verbs are.

4.3 Elaborations of the proto-system

Having reconstructed the elevational system of pAP, we are now in a position to investigate changes to pAP elevational system and establish various developmental paths that have been taken by individual languages or groups of languages since the breakup of the pAP. Note that I am concerned here not with adding further elevation-marked terms to the set through innovative morphology (e.g., Adang directional elevationals marked with *-le*), so much as with the processes by which distinctions within the elevational system are elaborated.

The first observation to be made is that the pAP elevational system has often altered where new elevation terms (i.e., not reflecting the proto-terms) have emerged. Abui elevationals are an example of this, since reflexes of pAP elevationals are entirely absent in this language (see Table 4). Abui has innovated new terms with a tonal distinction between HIGH and LOW elevations, with a further distance contrast being added between near and far locations, the latter marked by /w/, the former by its absence. Western Pantar complicates its system of elevational motion verbs towards the DC by incorporating the innovative verbs *diakan* and *raun* into the paradigm alongside *mia* and *pia*, reflexes of the pAP elevational motion verbs **mid(a)* ‘go.HIGH’ and **pia* ‘go.LOW’. *Diakan* and *raun* have been incorporated into the paradigm for motion along gentle slopes, thereby causing the restriction of meaning of the inherited verbs to be for steeper slopes. Holton (p.c.) notes that for some speakers the innovative steep terms, *diakan* and *raun*, have even largely replaced the inherited gentle slope terms, *mia*

⁸ East Alor forms a well-defined low-level subgroup and it is reasonable to assume that this shared characteristic among the languages goes back to their common ancestor, proto-East Alor.

Table 17: Sawila elevational motion verbs (Kratochvíl 2014 and Kratochvíl, Sawila corpus)

		Elevationals	Elevational motion verbs	
			From DC	To DC
LEVEL		<i>mana</i>	<i>we</i>	<i>me</i>
HIGH	DIRECT	<i>anna</i>	<i>midde</i>	<i>made</i>
	INDIRECT		<i>waamide</i>	<i>mamade</i> <i>madaame</i>
LOW	DIRECT	<i>yana</i>	<i>yaa</i>	<i>sire</i>
	INDIRECT		<i>wayaa</i>	<i>masire</i> <i>mayaa</i>

and *pia*, in casual speech.

The second mechanism of elaboration of sets of elevation-marked terms is compounding basic terms together to create “mediated” distinctions. Consider the forms of the Sawila elevational motion verbs presented in Table 17.

In the HIGH and LOW domains we see that there are not the expected two terms each, but instead five each. The direct terms denoting movement along an axis following the line of a slope straight up or straight down reflect individual pAP elevation terms. The indirect terms denote a movement that traverses across the slope diagonally and are formed by compounding different proto-terms together. The compounding process is not completely regular: there is some inconsistency in the terms that are compounded together in the verbs denoting motion toward the DC.⁹ Nevertheless, the etymologies for the terms are clear, as set out in Table 18.

Kamang presents a more complex example of system elaboration, involving compounding of terms across all elevational word classes not just verbs, as well as paradigm regularisation. Looking at the forms of Kamang elevation-marked terms in Table 10, we see particular morphemic “atoms” are used to build up the elaborated terms in a semi-regular manner. “DIRECT” terms are simplest, being built thus: (i) the elevational domain is marked by a single consonant *t*- for HIGH, either *f*- or *y*- for LOW and either *m*- or *w*- for LEVEL, and (ii) the word class is

⁹ The difference between high indirect terms denoting motion towards the DC is not understood (František Kratochvíl, p.c.). As such I have not attempted to supply any more precise characterisation of these. Kula has a similar system to Sawila, but the meanings of all compound elevational terms are also not yet well understood (Nicholas Williams, p.c.).

Table 18: Sources of Sawila elevational motion verbs

HIGH domain		
DIRECT	<i>midde</i>	<*mid(a) ‘go.high’
	<i>made</i>	<*medai(η) ‘come.high’
INDIRECT	<i>waamidde</i>	<*wai ‘go.level’ + *mid(a) ‘go.high’
	<i>mamade</i>	<*mai ‘come.level’ + *medaiη ‘come.high’
	<i>madaame</i>	<*medai(η) ‘come.high’ + *mai ‘come.level’
LOW domain		
DIRECT	<i>yaa</i>	<*ya(η) ‘come.low’
	<i>sire</i>	<*sire ‘come.low’
INDIRECT	<i>wayaa</i>	<*wai ‘go.level’ + *ya(η) ‘come.low’
	<i>masire</i>	<*mai ‘come.level’ + *sire ‘come.low’
	<i>mayaa</i>	<*mai ‘come.level’ + *ya(η) ‘come.low’

marked by *-u-η* for elevationals, by *-e* for elevational motion verb from DC and by *-aaη* for elevational motion verb from the DC. This pattern is perfectly illustrated by Kamang’s HIGH DIRECT terms: *tunη* ‘HIGH.DRCT’, *te* ‘go.HIGH.DRCT’ and *taanη* ‘come.HIGH.DRCT’. Of these, only *tunη* is inherited from pAP, while *te* and *taanη* are Kamang innovations following the pattern of morphemic atoms.

Irregularities in the formation of non-compounded elevation terms in Kamang stem from cases in which the morphemic atoms have not been fully applied (as explained further below), and instead there is retention of etymological forms. Table 19 presents an overview of the non-compounded elevation terms in Kamang, followed by their expected but non-occurring form (marked with **) if they were formed on the morphemic atom pattern, and their relationship to pAP terms.

In the Table 19, we see that the appearance of both *m-* and *w-* in the formation of LEVEL motion verbs is a result of the retention of reflexes of pAP *wai ‘go.LEVEL’ alongside *mai ‘come.LEVEL’. If the formation of these terms were to conform to the atomic pattern, we would find the forms **me and **maaη instead. In the LOW domain, *funη* and *fe* are inherited terms that follow the morphemic atom pattern, while *yaanη* is a retention of a reflex of pAP *yaa(η) that does not conform to the

Table 19: Kamang non-compounded elevation-marked terms and their etymologies

	Elevationals	Elevational motion verbs	
		From DC	To DC
LEVEL	<i>mun</i>	we	<i>me</i>
	< pAP *mo-ŋ	** <i>me</i>	** <i>maan</i>
		< pAP *wai	< pAP *mai
HIGH	<i>tun</i>	te	<i>taan</i>
	< pAP *(d,t)o-ŋ	< pAP *mid(a)	< pAP *medai(ŋ)
LOW	<i>fun</i>	<i>fe</i>	<i>yaaŋ</i>
	< pAP *po-ŋ	< pAP *pia	** <i>faaŋ</i>
		< pAP *yaa(ŋ)	

pattern expected when using the morphemic atoms.

These basic forms that are established by this set in Kamang are then compounded together to create complex indirect terms in the HIGH and LOW domains. NEAR INDIRECT terms are built by prefixing the LEVEL morpheme onto the DIRECT term of the corresponding word class, while FAR INDIRECT terms are built by prefixing the DIRECT morpheme onto the LEVEL morpheme of the corresponding word class. The composition of these terms is set out in Table 20. Also, in this set of compounds, we find irregularity: the expected form ***meyaaŋ* for ‘come.LOW.INDRECT.NEAR’ does not appear, instead *yaaŋme* is used for near and far indirect motion. This gap in the Kamang paradigm shows that the elaboration of such systems is not as regular as we might anticipate for a process in which morphemes are so transparent.

In sum, AP languages have elaborated the inherited elevational system by bringing innovative new terms often alongside reflexes of terms from the proto-system and/or by combining reflexes of the original system together to create complex forms with “mediated” (i.e., INDIRECT or diagonal directions) semantics.

Table 20: Sources of Kamang INDIRECT elevation terms.

HIGH domain	
NEAR INDIRECT terms	
ELEVATIONAL:	<i>mutuŋ</i> < <i>mu</i> 'LEVEL' + <i>tu</i> 'HIGH.DRT' + <i>ŋ</i>
Motion verb from DC	<i>wete</i> < <i>we</i> 'go.LEVEL' + <i>te</i> 'go.HIGH.DRT'
Motion verb to DC	<i>metaaŋ</i> < <i>me</i> 'come.LEVEL' + <i>taaŋ</i> 'come.HIGH.DRT'
FAR INDIRECT terms	
ELEVATIONAL:	<i>tumung</i> < <i>tu</i> 'HIGH.DRT' + <i>mu</i> 'LEVEL' + <i>ŋ</i>
Motion verb from DC	<i>tewe</i> < <i>te</i> 'go.HIGH.DRT' + <i>we</i> 'go.LEVEL'
Motion verb to DC	<i>taaŋme</i> < <i>taaŋ</i> 'come.HIGH.DRT' + <i>me</i> 'come'.LEVEL
Low domain	
NEAR INDIRECT terms	
ELEVATIONAL:	<i>muhuŋ</i> < <i>mu</i> 'LEVEL' + <i>fu</i> 'HIGH.DRT' + <i>ŋ</i>
Motion verb from DC	<i>wehe</i> < <i>we</i> 'go.LEVEL' + <i>fe</i> 'go.LOW.DRT'
Motion verb to DC	<i>yaanme</i> < <i>yaan</i> 'come.LOW.DRT' + <i>me</i> 'come.LEVEL'
FAR INDIRECT terms	
ELEVATIONAL:	<i>fumuŋ</i> < <i>fu</i> 'HIGH.DRT' + <i>mu</i> 'LEVEL' + <i>ŋ</i>
Motion verb from DC	<i>fewe</i> < <i>fe</i> 'go.LOW.DRT' + <i>we</i> 'go.LEVEL'
Motion verb to DC	<i>yaanme</i> < <i>yaan</i> 'come.LOW.DRT' + <i>me</i> 'come.LEVEL'

5 Conclusion

All AP languages have rich systems of spatial deixis with elevation components. The languages show significant similarity in the basic, core system in which elevation terms occur, namely, in both a verbal and non-verbal domain consistently contrasting LEVEL, HIGH, and LOW elevations. The shared characteristics of the systems can be traced back to a paradigm of elevationals and a paradigm of elevational motion verbs in the ancestral language, pAP. Despite their common origin, modern AP elevational systems display noteworthy differences in the number of terms, paradigms and semantic features they have. Individual languages have complicated the basic system by: (i) reiterating the elevational distinction in multiple, additional domains (e.g., Blagar, Western Pantar), (ii) adding additional terms through innovative morphology (e.g., Adang *le-* elevationals), or (iii) compounding basic terms together to create more distinctions (e.g., Kamang, Sawila). The result is that the AP languages today display the kind of diversity in the details of their morphology, syntax and semantics of their elevational systems that is typical of the family.

Typologically, the AP systems are remarkable for their complexity, which is much greater than that found in Papuan languages elsewhere for which deictic systems with elevational components have been described (see, e.g., Heeschen 1982, 1987). Other Papuan languages only ever have three terms for the three elevational heights and do not reiterate the elevational distinctions across multiple parts of the lexicon. We might conjecture that the semantic elaborations of elevational domains with features such as distance, steepness and directionality that we have observed in AP languages are rare cross-linguistically, and parallels remain to be identified in a world-wide survey of elevational systems.

The persistent occurrence of elevational distinctions across word classes in AP languages can be usefully understood in terms of the preexisting concept of “semplates” (Levinson & Burenhult 2009). A semplate is defined as “a configuration consisting of distinct sets or layers of lexemes, drawn from different semantic subdomains or different word classes, mapped onto the same abstract semantic template” (Levinson & Burenhult 2009:154). This fits well with the basic AP pattern in which locationals and motion verbs are organised by a semantic template differentiating the three elevational domains. The interesting feature of AP elevational semplates is their overtness in many instances: Adang, Blagar, Western Pantar use the same morphemes to reiterate the elevational semplate across word classes, while, as we saw in § 4.2, Kamang has in part discarded inherited lexemes and developed a system of morphemic atoms used to form complex subn-

odes in the elevational semplate. Thus, the AP elevational systems studied here not only present new evidence for the existence of Levinson & Burenhult's (2009) templates, but also have the potential to illuminate the diachronic processes by which abstract semplates may become productive and increasingly overt in their marking.

Sources

Abui	Kratochvíl Abui corpus, Kratochvíl (2007)
Adang	Haan (2001), Robinson & Haan (2014)
Blagar	Steinhauer (1977, 1991, 2012, 2014), p.c.
Kaera	Klamer (2014)
Kamang	Schapper (2012), Schapper (2014)
Klon	Baird (2008), Baird Klon corpus
Kui	Windschuttel (2013)
Sawila	Kratochvíl (2014), Sawila Toolbox dictionary, p.c.
Teiwa	Klamer (2010), fieldnotes, Teiwa corpus
Wersing	Schapper & Hendery (2014)
Western Pantar	Holton (2007, 2011, 2014), Western Pantar corpus, p.c., Holton & Lamma Koly (2008)

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Abbreviations

2	2nd person	LOC	Locative
3	3rd person	LOW	refers to any location situated down(ward of) the deictic centre
4	4th person		
AB	Abui	NP	Noun phrase
AD	Adang	NSPEC	non-specific
ADDR	Addressee-anchored	NSTEEP	non-steep
AP	Alor-Pantar	NVIS	Non-visible
ART	Article	PAP	proto-Alor-Pantar
BL	Blagar	PL	Plural
DC	Deictic Centre	POSS	Possessive
DEM	Demonstrative	PROG	Progressive
DIST	Distal	PROX	Proximal
DRCT	Direct	REAL	Realis
HIGH	refers to any location situated up(ward of) the deictic centre	RFLX	Reflexive
		SG	Singular
INDRCT	Indirect	SPEC	Specifier
IPFV	Imperfective	SPKR	Speaker-anchored
KE	Kaera	STEEP	steep
KI	Kui	SUBJ	Subject
KM	Kamang	SW	Sawila
LEVEL	refers to any location situated level with the deictic centre	TW	Teiwa
		VIS	Visible
		WE	Wersing
		WP	Western Pantar

References

- Baird, Louise. 2008. *A grammar of Klon: a non-Austronesian language of Alor, Indonesia*. Vol. 596 (Pacific Linguistics). Canberra: Pacific Linguistics, Research School of Pacific & Asian Studies, The Australian National University. ISBN: 9780858835948.
- Bickel, Balthasar. 2001. Deictic transposition and referential practice in Belhare. *Journal of Linguistic Anthropology* 10(2). 224–247.
- Burenhult, Niclas. 2008. Spatial coordinate systems in demonstrative meaning. *Linguistic Typology* 12(99-142).

- Cheung, Candice Chi-Hang. 2007. On the noun phrase structure of Jingpo. *USC Working Papers in Linguistics* 3. 32–56.
- Diessel, Holger. 1999. *Demonstratives: form, function, and grammaticalization*. Vol. 42 (Typological Studies in Language). Amsterdam: John Benjamins.
- Dixon, R. M. W. 1972. *The Dyirbal language of North Queensland*. Vol. 9 (Studies in Linguistics). Cambridge: Cambridge University Press. ISBN: 9780521085106.
- Dixon, R. M. W. 2003. Demonstratives: a cross-linguistic typology. *Studies in Language* 27(1). 61–112.
- Ebert, Karen H. 2003. Kiranti languages: an overview. In Graham Thurgood & Randy J. LaPolla (eds.), *The Sino-Tibetan languages* (Routledge Language Family Series), 505–517. London & New York: Routledge.
- Haan, Johnson Welem. 2001. *The grammar of Adang: a Papuan language spoken on the island of Alor East nusa tenggara - Indonesia*. Sydney: University of Sydney PhD thesis. <http://www-personal.arts.usyd.edu.au/jansimps/haan/>.
- Heeschen, Volker. 1982. Some systems of spatial deixis in Papuan languages. In Jürgen Weissenborn & Wolfgang Klein (eds.), *Here and there. cross-linguistic studies in deixis and demonstration*. 81–109. Amsterdam: John Benjamins.
- Heeschen, Volker. 1987. Oben und Unten. In Mark Münzel (ed.), *Neuguinea. Nutzung und Deutung der Umwelt*. Vol. 2, 601–618. Frankfurt am Main: Museum für Völkerkunde.
- Holton, Gary. 2007. *Directionals and spatial deixis. An Overview of Western Pantar*. <http://www.uaf.edu/alor/langs/western-pantar/directionals.html>.
- Holton, Gary. 2011. Landscape in Western Pantar, a Papuan outlier of southern Indonesia. In David M. Mark, Andrew G. Turk, Niclas Burenhult & David Stea (eds.), *Landscape in language*, 143–166. Amsterdam: John Benjamins.
- Holton, Gary. 2014. Western Pantar. In Antoinette Schapper (ed.), *The Papuan languages of Timor, Alor and Pantar: sketch grammars*, vol. 1, 23–96. Berlin: De Gruyter Mouton.
- Holton, Gary & Mahalalel Lamma Koly. 2008. *Kamus pengantar Bahasa Pantar Barat: Tubbe - Mauta - Lamma*. Kupang, Indonesia: UBB-GMIT.
- Holton, Gary, Marian Klamer, František Kratochvíl, Laura C. Robinson & Antoinette Schapper. 2012. The historical relations of the Papuan languages of Alor and Pantar. *Oceanic Linguistics* 51(1). 86–122.
- Klamer, Marian. 2010. *A grammar of Teiwa*. Vol. 49 (Mouton Grammar Library). Berlin: Mouton de Gruyter.
- Klamer, Marian. 2014. Kaera. In Antoinette Schapper (ed.), *The Papuan languages of Timor, Alor and Pantar: sketch grammars*, vol. 1, 97–146. Berlin & New York: Mouton de Gruyter.

- Kratochvíl, František. 2007. *A grammar of Abui: a Papuan language of Alor*. Utrecht: LOT.
- Kratochvíl, František. 2014. Sawila. In Antoinette Schapper (ed.), *The Papuan languages of Timor, Alor and Pantar: sketch grammars*, vol. 1, 351–438. Berlin/New York: Mouton de Gruyter.
- Levinson, Stephen & Niclas Burenhult. 2009. Semplates: a new concept in lexical semantics? *Language* 85(1). 153–174.
- Levinson, Stephen C. 1983. *Pragmatics*. Cambridge: Cambridge University Press.
- Miller, Wick R. 1996. *Guarijío: gramática, textos, y vocabulario*. Mexico City: Instituto de Investigaciones Antropológicas, Universidad Nacional Autónoma de México.
- Noonan, Michael. 2006. *Contact-induced change in the Himalayas: the case of the Tamangic languages*. Paper presented at the International Colloquium on Language Contact and Contact Languages, University of Hamburg, July 6–8, 2006.
- Post, Mark. 2011. Topographical deixis and the Tani languages of North-East India. In G. Hyslop, S. Morey & M. Post (eds.), *North East Indian linguistics*, vol. 3, 137–154. New Delhi: Cambridge University Press India.
- Robinson, Laura C. & John Haan. 2014. Adang. In Antoinette Schapper (ed.), *The Papuan languages of Timor, Alor and Pantar: sketch grammars*, vol. 1, 221–284. Berlin & New York: Mouton de Gruyter.
- Schapper, Antoinette. 2012. *Elevation and scale in two Papuan languages*. Talk presented at EuroBabel Final Conference, Leiden, 23–26 August 2012.
- Schapper, Antoinette. 2014. Kamang. In Antoinette Schapper (ed.), *The Papuan languages of Timor, Alor and Pantar: sketch grammars*, vol. 1, 285–350. Berlin & New York: Mouton de Gruyter.
- Schapper, Antoinette & Rachel Hendery. 2014. Wersing. In Antoinette Schapper (ed.), *Papuan languages of Timor-Alor-Pantar: sketch grammars*, vol. 1, 439–504. Berlin: Mouton de Gruyter.
- Schapper, Antoinette & Lila San Roque. 2011. Demonstratives and non-embedded nominalisations in the Papuan languages of south-east Indonesia. *Studies in Language* 35(2). 378–406.
- Schulze, Wolfgang. 2003. The diachrony of demonstrative pronouns in East Caucasian. In Dee Ann Holisky & Kevin Tuite (eds.), *Current trends in Caucasian, East European and Inner Asian linguistics: papers in honor of Howard I. Aronson*, 291–348. Amsterdam: John Benjamins.
- Senft, Gunter. 1997. *Referring to space: studies in Austronesian and Papuan languages*. Vol. 11 (Oxford Studies in Anthropological Linguistics). Oxford: Clarendon Press. ISBN: 9780198236474.

- Senft, Gunter. 2004. *Deixis and demonstratives in Oceanic languages*. Canberra: Pacific Linguistics.
- Steinhauer, Hein. 1977. 'Going' and 'coming' in the Blagar of Dolap (Pura, Alor, Indonesia). *NUSA: Miscellaneous Studies in Indonesian and Languages in Indonesia* 3. 38–48.
- Steinhauer, Hein. 1991. Demonstratives in the Blagar language of Dolap (Pura, Alor, Indonesia). In Tom Dutton (ed.), *Papers in Papuan linguistics*, 177–221. Canberra: Pacific Linguistics.
- Steinhauer, Hein. 2012. Deictic categories in three languages of Eastern Indonesia. In Bahren Umar Siregar, P. Ari Subagyo & Yassir Nasanius (eds.), *Dari menapak jejak kata sampai menyigi tata bahasa. persembahan untuk prof. dr. bambang kaswanti purwo dalam rangka ulang tahunnya yang ke-60*, 115–147. Jakarta: Pusat Kajian Bahasa dan Budaya Universitas Katolik Indonesia Atma Jaya.
- Steinhauer, Hein. 2014. Blagar. In Antoinette Schapper (ed.), *The Papuan languages of Timor-Alor-Pantar: sketch grammars*, vol. 1 (Asia-Pacific Linguistics), 147–220. Berlin & New York: Mouton de Gruyter.
- Windschuttel, Glenn. 2013. *Space and deixis in Kui*. Paper Presented at the Workshop on the Languages of Melanesia, Australian National University, 23-26 May 2013.

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The Alor-Pantar languages

The Alor-Pantar family constitutes the westernmost outlier group of Papuan (Non-Austronesian) languages. Its twenty or so languages are spoken on the islands of Alor and Pantar, located just north of Timor, in eastern Indonesia. Together with the Papuan languages of Timor, they make up the Timor-Alor-Pantar family. The languages average 5,000 speakers and are under pressure from the local Malay variety as well as the national language, Indonesian. Together with the Papuan languages of Timor, they make up the Timor-Alor-Pantar family.

This volume studies the internal and external linguistic history of this interesting group, and showcases some of its unique typological features, such as the preference to index the transitive patient-like argument on the verb but not the agent-like one; the extreme variety in morphological alignment patterns; the use of plural number words; the existence of quinary numeral systems; the elaborate spatial deictic systems involving an elevation component; and the great variation exhibited in their kinship systems.

Unlike many other Papuan languages, Alor-Pantar languages do not exhibit clause-chaining, do not have switch reference systems, never suffix subject indexes to verbs, do not mark gender, but do encode clusivity in their pronominal systems. Indeed, apart from a broadly similar head-final syntactic profile, there is little else that the Alor-Pantar languages share with Papuan languages spoken in other regions. While all of them show some traces of contact with Austronesian languages, in general, borrowing from Austronesian has not been intense, and contact with Malay and Indonesian is a relatively recent phenomenon in most of the Alor-Pantar region.