

Strata of contact: Typologising spatial coordinate demonstrative systems in the Moluccas and west New Guinea

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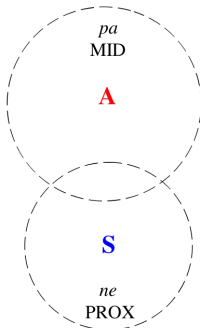


Spatial coordinate demonstratives

- ▶ Non-spatial coordinate demonstratives (‘vanilla’ demonstratives):
 - ▶ Encode information about relative proximity to the deictic centre
 - ▶ e.g. ‘this’/‘that’/‘yonder’...
- ▶ Spatial coordinate demonstratives:
 - ▶ Demonstrative forms that encode **angular search domains** (Burenhult 2008)
 - ▶ e.g. UP/DOWN, LAND/SEA, IN/OUT...

Spatial coordinate demonstratives

► Ambel:

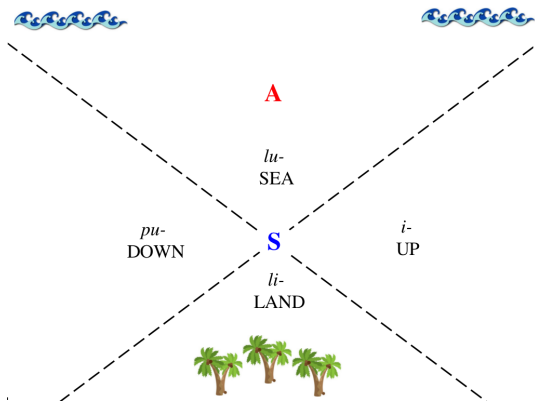


mana
DIST



Spatial coordinate demonstratives

► Ambel:



Spatial coordinate demonstratives

(1) Ambel

ana-i-ne, ípon **a-i-ne**, bukan atú-tó lo
 3SG.INAN-UP-PROX mountain **DEM-UP-PROX** NEG 3PC-stay place
 Kábum málo **a-mu-a** po
 Kabum truly **DEM-IN-AND** NEG

“[So as for the place that they stayed in...] it’s up here, **this mountain at the top here**, they definitely didn’t stay at **Kabum inland there**.”

- Present study limited to **pronominal** and **adnominal demonstratives**



Typologising spatial coordinate demonstrative systems

1. Language sample

2. A typology of demonstrative systems

Criteria

The types

3. Strata of contact

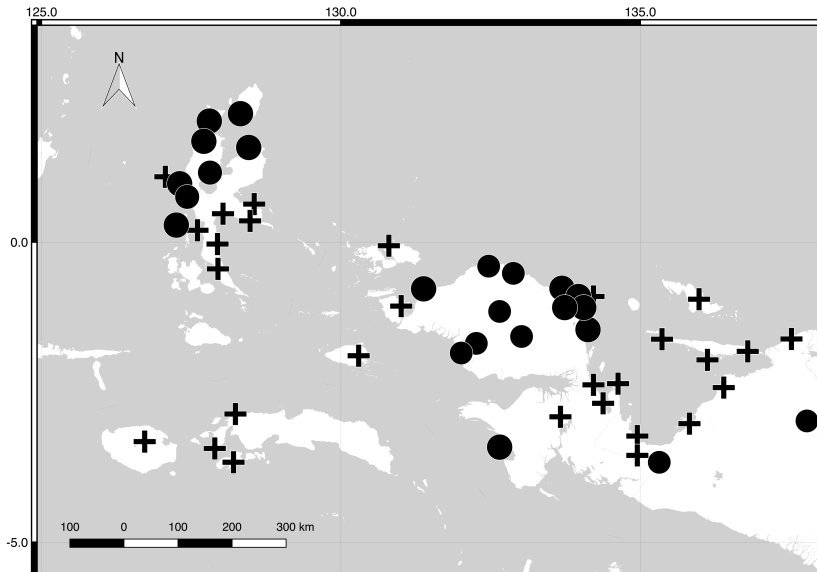
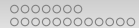
4. Summary

Language sample

A typology of demonstrative systems

Strata of contact

Summary





Typologising spatial coordinate demonstrative systems

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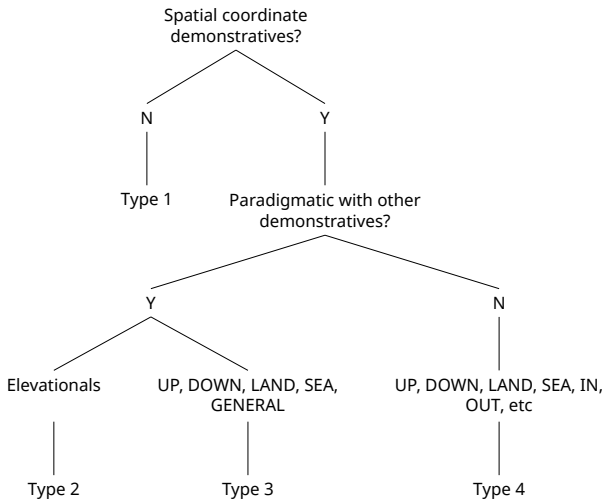


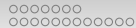
Criteria

- ▶ Are there spatial coordinate demonstratives?
- ▶ Are they paradigmatic or syntagmatic with other, non-spatial coordinate demonstratives?
- ▶ What are the categories distinguished?
 - ▶ Elevationals (UP, DOWN, ACROSS, SLOPING, etc)
 - ▶ UP, DOWN, LAND, SEA, GENERAL
 - ▶ UP, DOWN, LAND, SEA, IN, OUT, etc



The types





Type 1

- ▶ No spatial coordinate demonstratives

Wamesa (AN, SHWNG)

nini this

yani that (middle distance)

wani that (far distance)



Type 2

- ▶ Spatial coordinate demonstratives
- ▶ Paradigmatic with non-spatial coordinate demonstratives
- ▶ Elevationals

Meyah (PAP, East Bird's Head)

= <i>if</i>	near speaker
= <i>uma</i>	away from speaker
= <i>unj</i>	more distant from speaker
= <i>inda</i>	above
= <i>imba</i>	below

“They [the elevationals =*inda* and =*imba*] cannot occur with the distance clitics [=‘vanilla’ demonstratives] mentioned earlier in this section” (Gravelle 2004: 147)

Type 3

- ▶ Spatial coordinate demonstratives
- ▶ Paradigmatic with non-spatial coordinate demonstratives
- ▶ UP, DOWN, LAND, SEA, GENERAL

Tobelo (PAP, North Halmahera)

	PUNCTUAL	AREAL
proximal	<i>nenanga</i>	<i>naanga</i>
distal	<i>genanga</i>	<i>gaanga</i>
seaward	<i>danenanga</i>	<i>danaanga</i>
landward	<i>dinenanga</i>	<i>dinaanga</i>
upward	<i>dakenanga</i>	<i>dakaanga</i>
downward	<i>daenanga</i>	–
general	<i>dokenanga</i>	<i>dokaanga</i>



Type 3

- ▶ Spatial coordinate demonstratives
- ▶ Paradigmatic with non-spatial coordinate demonstratives
- ▶ UP, DOWN, LAND, SEA, GENERAL

“While **they** [**‘vanilla’ and spatial coordinate demonstratives**] **have identical syntactic distribution**, they may be differentiated primarily because directional demonstratives function as part of a larger directional system which includes both directional locative adverbs and directional suffixes...” (Holton 2003: 17)



Type 4

- ▶ Spatial coordinate demonstratives
- ▶ Syntagmatic with non-spatial coordinate demonstratives
- ▶ UP, DOWN, LAND, SEA, IN, OUT, etc

Ambel (AN, SHWNG)

<i>wa-</i>	DEM1	{ <table> <tr><td><i>i-</i></td><td>UP, OUT</td></tr> <tr><td><i>pu-</i></td><td>DOWN</td></tr> <tr><td><i>li-</i></td><td>LAND</td></tr> <tr><td><i>lu-</i></td><td>SEA</td></tr> <tr><td><i>ta-</i></td><td>FRONT</td></tr> <tr><td><i>mu-</i></td><td>BACK, IN</td></tr> <tr><td><i>pa-</i></td><td>SIDE</td></tr> </table>	<i>i-</i>	UP, OUT	<i>pu-</i>	DOWN	<i>li-</i>	LAND	<i>lu-</i>	SEA	<i>ta-</i>	FRONT	<i>mu-</i>	BACK, IN	<i>pa-</i>	SIDE	{ <table> <tr><td><i>ne</i></td><td>PROX</td></tr> <tr><td><i>pa</i></td><td>MID</td></tr> <tr><td><i>ma</i></td><td>DIST</td></tr> <tr><td><i>a</i></td><td>AND</td></tr> </table>	<i>ne</i>	PROX	<i>pa</i>	MID	<i>ma</i>	DIST	<i>a</i>	AND
	<i>i-</i>		UP, OUT																						
	<i>pu-</i>		DOWN																						
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<i>ma</i>	DIST																								
<i>a</i>	AND																								
<i>a-</i>	DEM2																								

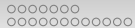
Language sample



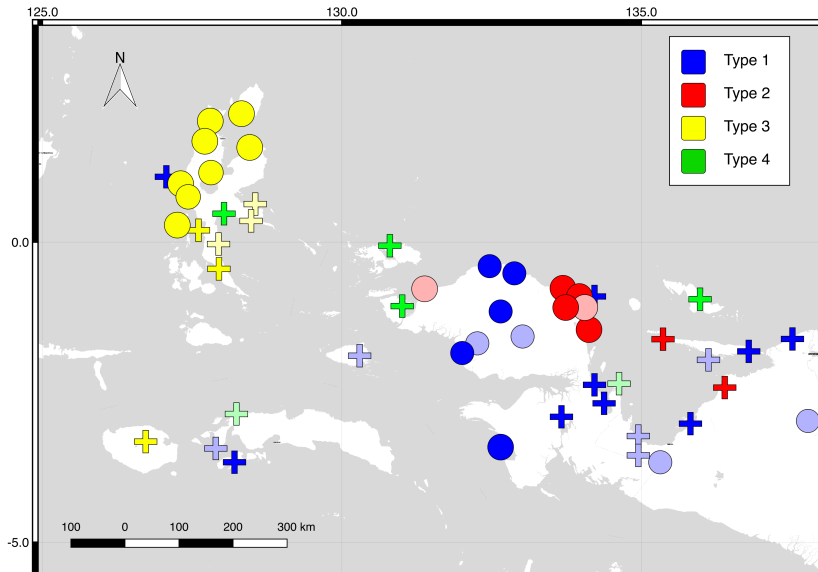
A typology of demonstrative systems



Strata of contact



Summary



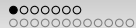
Typologising spatial coordinate demonstrative systems

1. Language sample
2. A typology of demonstrative systems
 - Criteria
 - The types
3. Strata of contact
4. Summary

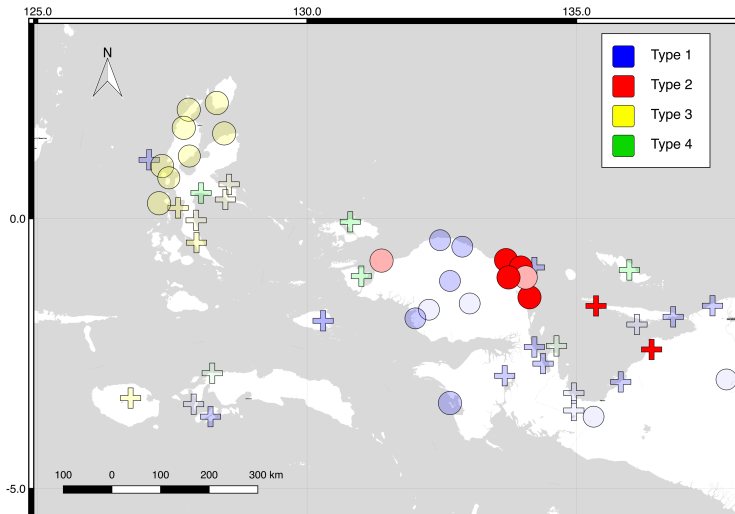


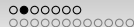
Strata of contact

- ▶ Stratum 1: Type 1 > Type 2
- ▶ Stratum 2: Type 1 > Type 3
- ▶ Stratum 3: Type 1 > Type 4



Stratum 1: Type 1 > Type 2





Stratum 1: Type 1 > Type 2?

► Papuan:

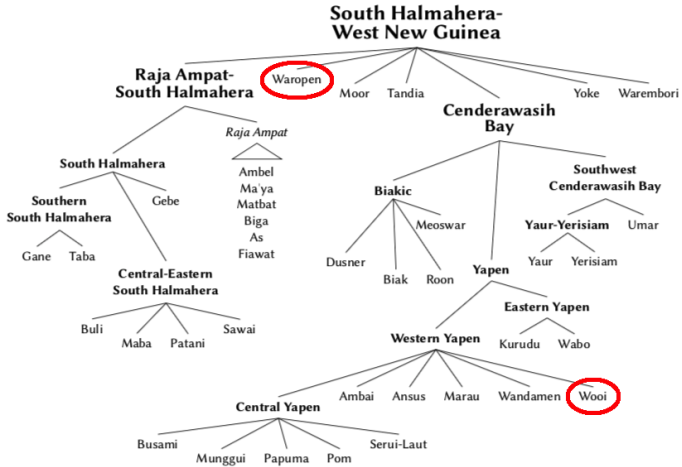
		East Bird's Head						Hatam-Mansim	
		Meyah		Moskana		Sougb		Hatam	
Non-SCDs	= <i>if</i>	PROX	= <i>ef</i> ~ = <i>ka</i>	PROX	<i>gini</i>	PROX	<i>ni</i>	PROX	
	= <i>uma</i>	MID	= <i>ma</i>	MID			<i>ma</i>	MID	
	= <i>unj</i>	DIST	= <i>maj</i>	DIST	<i>ingga</i>	DIST	<i>mo</i>	DIST	
SCDs	= <i>inda</i>	UP	= <i>da</i>	UP	<i>gada</i>	UP	<i>nyo</i>	sloping up	
	= <i>imba</i>	DOWN			<i>gaih</i>	DOWN	<i>hu</i>	vertically up	
			= <i>ba</i>	ACROSS			<i>mu</i>	down	

Stratum 1: Type 1 > Type 2?

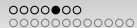
- ▶ Austronesian (SHWNG):

	Wooi		Waropen	
	(A _N , SHWNG)		(A _N , SHWNG)	
Non-SCDs	<i>ne</i>	PROX	<i>ni</i>	PROX
	<i>vaw</i>	MID	<i>wako</i>	MID
	<i>pa</i>	DIST	<i>gha</i>	DIST
SCDs	<i>pe</i>	UP		–
	<i>vaw</i>	DOWN	<i>wako</i>	DOWN

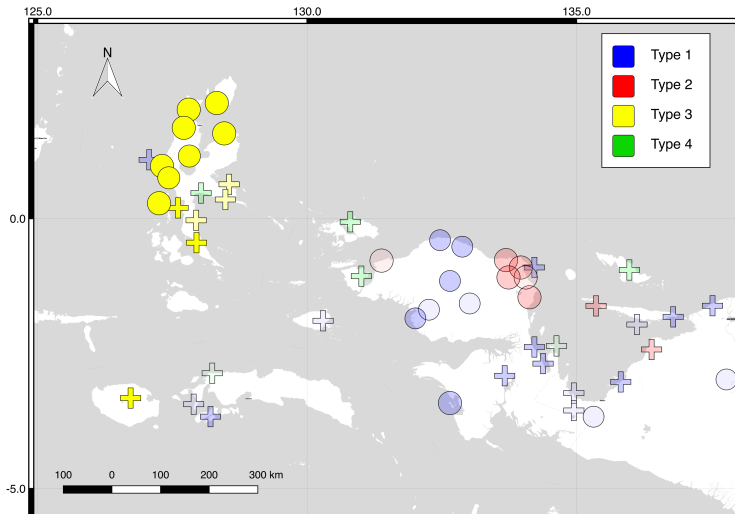
Stratum 1: Type 1 > Type 2?



After Kamholz (2014)



Stratum 2: Type 1 > Type 3





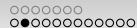
Stratum 2: Type 1 > Type 3

- ▶ Holton (2017): Spatial orientation systems of Papuan North Halmahera languages due to a pre-NH substrate?
- ▶ Bowden (2005): Metatypic restructuring of the spatial orientation system of North Moluccan Malay
- ▶ Evidence for potential grammaticalisation in Ternate Malay? (cf. Bowden 2005)

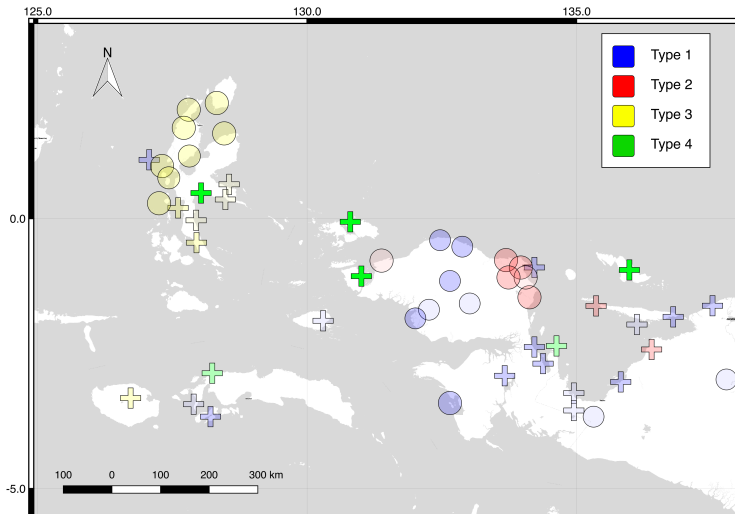
(2) Ternate Malay

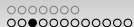
ngana di ujung **dara**, kita di ujung **lau**
 2sg in tip land 1sg in tip sea

“You [sleep] at that end, I [sleep] at this end!” (Litamahuputty 2012: 240)



Stratum 3: Type 1 > Type 4





Stratum 3: Type 1 > Type 4

► Austronesian:

Biak (SHWNG, CB)		Ambel (SHWNG, RASH)		Sawai (SHWNG, RASH)	
<i>yás-</i>	UP(RIVER)	<i>i-</i>	UP, OUT	<i>ya</i>	UP
<i>vav-</i>	DOWN	<i>pu-</i>	DOWN	<i>nóp</i>	DOWN
<i>re-</i>	LAND	<i>li-</i>	LAND	<i>léw</i>	LAND
<i>ra-</i>	SEA	<i>lu-</i>	SEA	<i>law</i>	SEA
<i>rum-</i>	IN	<i>mu-</i>	IN, BACK	<i>min</i>	IN
<i>ri-</i>	OUT	<i>ta-</i>	FRONT	<i>tó</i>	OUT
<i>pon-</i>	FRONT	<i>pa-</i>	SIDE	<i>li</i>	'there'
<i>pur-</i>	BACK, DOWN- RIVER				
<i>var-</i>	SIDE				
<i>vún-</i>	MIDDLE				

Stratum 3: Type 1 > Type 4

- Contact with languages with Type 3 systems?

Tidore		
(PAP, NH)		
Non-SCDs	= <i>re</i>	'here/this'
	= <i>ge</i>	'there/that'
SCDs	= <i>tau</i>	UP
	= <i>ta(h)u</i>	DOWN
	= <i>tina</i>	LAND
	= <i>tai</i>	SEA
	= <i>ta</i>	'over there'



Stratum 3: Type 1 > Type 4

1. Why are SCDs in these languages syntagmatic, not paradigmatic?
2. Whence the additional categories?



Stratum 3: Type 1 > Type 4

► Paradigmatic > syntagmatic:

Tidore: “The locational enclitics, =*ge* [‘that/there’] and =*re* [‘this/here’]... follow referring expressions to mark them as ‘given’” (van Staden 2000: 196)

(3) mina=tau=re
3SG.F=upward=here

“she who is in an upward location here” [my translation]



Stratum 3: Type 1 > Type 4

► Paradigmatic > syntagmatic:

Tidore: “The locational enclitics, =*ge* [‘that/there’] and =*re* [‘this/here’]... follow referring expressions to mark them as ‘given’” (van Staden 2000: 196)

- (4) mina mi-ganyihi=tau toma tufa, toma kayangan=tau...
 3SG.F 3SG.F.POS-place=upward LOC sky LOC heaven=upward
ena=tau=ge nyifu mansia waro sikari paka
3NH=upward=there must person know first.then ascend
 ine
 upwards

“She resides upwards in the sky, in heaven... About **this upwards [place]**, people must know how to go up.”



Stratum 3: Type 1 > Type 4

- The additional categories:

Wamesa (SHWNG, CB) <i>Geographic nouns</i>		Ambai (SHWNG, CB) <i>Adverbs</i>	
<i>rau</i>	seawards	<i>rau</i>	seawards
<i>re</i>	landwards	<i>rei</i>	landwards
<i>wi</i>	uphill, inland	<i>weu</i>	down
<i>ye</i>	upriver	<i>yai</i>	up
<i>po</i>	front	<i>fon</i>	front
<i>pui</i>	behind	<i>fui</i>	back
<i>ri</i>	outside	<i>war</i>	across



Stratum 3: Type 1 > Type 4

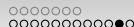
- The additional categories:

Biak (SHWNG, CB) <i>SCDs</i>		Wamesa (SHWNG, CB) <i>Geographic nouns</i>		Ambai (SHWNG, CB) <i>Adverbs</i>	
<i>yás-</i>	UP(RIVER)	<i>ye</i>	upriver	<i>yai</i>	up
<i>vav-</i>	DOWN			<i>weu</i>	down
<i>re-</i>	LAND	<i>re</i>	landwards	<i>rei</i>	landwards
<i>ra-</i>	SEA	<i>rau</i>	seawards	<i>rau</i>	seawards
<i>rum-</i>	IN				
<i>ri-</i>	OUT	<i>ri</i>	outside		
<i>pon-</i>	FRONT	<i>po</i>	front	<i>fon</i>	front
<i>pur-</i>	BACK	<i>pui</i>	behind	<i>fui</i>	back
<i>var-</i>	SIDE			<i>war</i>	across
<i>vún-</i>	MIDDLE				

Stratum 3: Type 1 > Type 4

- ▶ The additional categories:
 - ▶ **Ambel** (SHWNG, RASH)

SCD		Directional noun	
<i>i-</i>	UP	<i>il</i>	upwards direction
<i>pu-</i>	DOWN	<i>pul</i>	downwards direction
<i>li-</i>	LAND	<i>líl</i>	landwards direction
<i>lu-</i>	SEA	<i>lúl</i>	seawards direction
<i>mu-</i>	IN	<i>mul</i>	inside
<i>i-</i>	OUT	<i>li</i>	outside
<i>pa-</i>	SIDE	<i>pál</i>	side, sideways direction
<i>ta-</i>	FRONT		
<i>mu-</i>	BACK		



Stratum 3: Type 1 > Type 4

- ▶ The additional categories:
 - ▶ ‘Ordinary’ contact-induced grammaticalization (Heine and Kuteva 2003)
 1. Speakers of language R notice that in language M there is a grammatical category Mx.
 2. They develop an equivalent category Rx, using material available in their own language (R).
 3. To this end, they draw on universal strategies of grammaticalization, using construction Ry in order to develop Rx.
 4. They grammaticalize construction Ry to Rx.

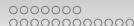
Stratum 3: Type 1 > Type 4

- The additional categories:

Tidore		Ambel			
PAP, NH		AN, SHWNG			
<i>SCDs</i>		<i>Geographic nouns</i>		<i>SCDs</i>	
= <i>tau</i>	UP	<i>il</i>	upwards	<i>i-</i>	UP
= <i>ta(h)u</i>	DOWN	<i>pul</i>	downwards	<i>pu-</i>	DOWN
= <i>tina</i>	LAND	<i>líl</i>	landwards	<i>li-</i>	LAND
= <i>tai</i>	SEA	<i>lúl</i>	seawards	> <i>lu-</i>	SEA
		<i>mul</i>	inside	<i>mu-</i>	IN
		<i>li</i>	outside	<i>i-</i>	OUT
		<i>pál</i>	side, sideways	<i>pa-</i>	SIDE
				<i>ta-</i>	FRONT
				<i>mu-</i>	BACK

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Summary

- ▶ This is an area of unusually high levels of typological diversity in spatial coordinate demonstrative systems
- ▶ Did Type 4 systems develop through contact-induced grammaticalization stimulated by political and trade links with Tidore?
- ▶ Whole grammatical subclass targeted as Ry: Are there cross-linguistic parallels?



Sources: Austronesian I

Branch	Language	Location	Type	Source
WMP	Ambonese Malay	C Maluku	1	van Minde (1997)
	Ternate Malay	N Maluku	1	Litamahuputty (2012)
	Papuan Malay	New Guinea	1	Kluge (2014)
	Serui Malay	Yapen	1?	van Velzen (1995)
CMP	Buru	C Maluku	3	Grimes (1991)
	Alune	C Maluku	1?	Florey (2001)
	Larike	C Maluku	4?	Laidig (1993)
SHWNG	Taba	N Maluku	3	Bowden (2001)
	Sawai	N Maluku	4	Whisler (1996)
	Weda	N Maluku	3?	Yoshida (1980)
	Gane	N Maluku	3	Teljeur (1987)
	Maba	N Maluku	3?	Yoshida (1980)
	Patani	N Maluku	3?	Yoshida (1980)
	Ambel	Raja Ampat	4	Arnold (2018)
	Matbat	Raja Ampat	1?	Remijsen (2010, 2015)
	Ma'ya	Raja Ampat	4	van der Leeden (n.d.); Remijsen (2001)
	Irarutu	Bomberai	1	Jackson (2014)



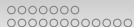
Sources: Austronesian II

Branch	Language	Location	Type	Source
SHWNG	Wamesa	Cenderawasih Bay	1	Gasser (2014)
	Dusner	Cenderawasih Bay	1	Dalrymple and Mofu (2012)
	Roon	Cenderawasih Bay	4?	Gil p.c.
	Yaur	Cenderawasih Bay	1?	Kamholz p.c.
	Yerisiam	Cenderawasih Bay	1?	Kalmholz p.c.
	Moor	Cenderawasih Bay	1	Kamholz p.c.
	Waropen	Cenderawasih Bay	2	Held (1942, 1957)
	Biak	Biak	4	van den Heuvel (2006)
	Wooi	Yapen	2	Sawaki (2017)
	Ambai	Yapen	1	Silzer (1983)
Warembori	N New Guinea	1	Donohue (1999)	



Sources: Papuan I

Family	Language	Location	Type	Source
North Halm.	Galela	N Maluku	3	Yoshida (1980); Shelden (1991)
	Loloda	N Maluku	3	Yoshida (1980)
	Tabaru	N Maluku	3	Yoshida (1980); Kotynski (1988)
	Tobelo	N Maluku	3	Holton (2003)
	Pagu	N Maluku	3	Wimbish (1991)
	Ternate	N Maluku	3	Hayami-Allen (2001)
	Tidore	N Maluku	3	van Staden (2000)
	West Makian	N Maluku	3	Voorhoeve (1982)
West Papuan	Moi	W Bird's Head	2?	Menick (1995, 1996, 2000)
	Maybrat	C Bird's Head	1	Dol (1998, 1999)
	Abun	N Bird's Head	1	Berry and Berry (1999)
	Mpur	N Bird's Head	1	Odé (2002)
EBH	Meyah	E Bird's Head	2	Gravelle (2004)
	Moskana	E Bird's Head	2	Gravelle (2010)
	Sougb	E Bird's Head	2	Reesink (2002a)
Hatam-Mansim	Hatam	E Bird's Head	2	Reesink (1999)
	Mansim	E Bird's Head	2?	Reesink (2002b)



Sources: Papuan II

Family	Language	Location	Type	Source
South Bird's Head	Arandai	S Bird's Head	1?	Voorhoeve (1985)
	Inanwatan	S Bird's Head	1	de Vries (2004)
	Kokoda	S Bird's Head	?	de Vries (2004)
	Puragi	S Bird's Head	1?	de Vries (2004)
W Bomberai	Kalamang	Bomberai	1	Visser (2016)
Wissel Lakes	Ekagi/Mee	C WNG	1?	Doble (1987)
	lau	C WNG	1?	Bateman (1986)

References I

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Thank you!

