### Australian language families and linguistic classifications

This material presents classification information for the Indigenous languages of Australia. They include languages spoken in the area now known as Australia prior to 1788, as well as subsequent languages which have arisen through language contact. Languages are grouped by relationship, using the Non-Pama-Nyungan/Pama-Nyungan distinction for convenience.

I compare the current "Bowern" classification with three others: Dixon (2002), Wurm (1972), and O'Grady, Voegelin and Voegelin (1966). Other classifications could be used, and others also vary somewhat in the details, but as Walsh (1997) has noted, the overall number of languages and broad principles of classification have not changed substantially since the O'Grady, Voegelin and Voegelin (1966) classification. That is apparent here, too: though some details vary, and some individual languages are placed in different subgroups or families, there is broad consensus across the classifications. The main difference is in the number of languages, discussed in more detail in Chapter 7 of this volume. This comparison has both some historical value, in seeing how classifications of Australian languages have changed over time, and should orient the reader to how the current classification compares to others established in the literature.

The internal structure of some of the subgroups are simplified for ease of display. Some of the names have been adapted to make comparisons easier across sources (e.g. I do not list the Yibian Subgroup in OVV, using simply Wardaman as the name). I have rearranged the order of families from previous classifications so as to align different classifications. I have kept Dixon's names, though I have abbreviated them in places so as to make the items clearer, since Dixon does not follow the naming conventions of previous literature in quite a few cases. Note that while groups within cells are comparable, the languages may occur in different orders within cells.

The "Bowern" classification presented here is based in part on results published in Bouckaert et al (2018), which in turn is one publication from approximately 12 years' work on language relationships, particularly in Pama-Nyungan (and between Pama-Nyungan and Non-Pama-Nyungan families). That is, the current classification was compiled from a combination of prior sources (evaluated for reliability), inspection of primary materials, including cognate coding, and the results of phylogenetic work published in Bouckaert et al (2018). However, here I present a fairly conservative classification, especially as regards to groupings between Pama-

Nyungan subgroups. I do not list all internal structure within Bouckaert et al (2018), except where it is well established from previous classifications. Though the Bowern classification is "flat" (in not showing relationships within, for example, the Northern languages in Pama-Nyungan), this is for ease of reference and because the details of the more remote relationships within Pama-Nyungan are tentative, not because I believe they don't exist.

This handbook does not focus on the classificatory work done on Australian languages in the 20th century, mostly because there are already substantial reviews of these classifications in the work of Koch (2014, Koch and Nordlinger 2014, Koch, 2019) and Bowern and Koch (2004; introduction or Chapter 2). The main classifications of the second half of the 20th century -- O'Grady, Voegelin and Voegelin (1966), Wurm (1970), Oates (1971), Tindale (1974), Dixon (1980), Walsh and Wurm (1986), and Dixon (2002), build on one another and are based, to some extent, on similar methodologies. This sets them apart from the earlier classifications, such as Schmidt's (1919) and others described by Stockigt (this volume), on the one hand, and the phylogenetic classifications of Bowern and colleagues.

The phylogenetic classifications of Bowern (Bowern and Atkinson (2012) and Bouckaert et al (2018)) for Pama-Nyungan are based on inferring a tree from basic vocabulary from sources form across the country. Details on the methods of phylogenetic classification have been published elsewhere (not least, in the publications themselves, though see Bowern and Atkinson 2012 in particular). In brief, the classification is based on vocabulary, that is, the cognacy (or presumed cognacy) of vocabulary on a 200 item wordlist. The cognate codings produce approximately 6500 character sets (as well as approximately double that number of character sets where the word in the language has no known cognates; these are uninformative for subgrouping). We then use an evolutionary framework to model changes in characters over time, which gives probabilistic language classifications, approximate branching times, and (through Bayesian MCMC) an estimate of the confidence of subgroupings. Because the classification is based on 6500 cognate sets, it is relatively robust to individual data errors.

There are four situations where this classification method performs poorly. One is where loan rates are very high. In such cases, classifications may be swamped by similarities due to downs. This is possibly the case with the Bowern and Atkinson (2012) classification of Ngumpin-Yapa, for example. The second is where the language are very similar. In that case, there is little to choose between conflicting hypotheses (that is, if the varieties differ in only a

few words, they will clearly group together, but their internal subgrouping may be poorly resolved). Thirdly is where the number of overall cognates are very low. For the Western Torres group, for example, two-thirds of the etyma under consideration were either unique or words shared with Papuan languages, which aren't part of the classification (and so are coded as unique for the purposes of classification within Pama-Nyungan). In such cases, classification tends to be contingent on very few etyma. The final issue is languages where the only good cognates are those which are also shared by a large number of other languages (such as Western Torres and Anaiwan). In the case of Anaiwan, the classification is poorly resolved, because there are no or few solid innovations by which to group the languages. The language is clearly Pama-Nyungan, but shares small numbers of words with several subgroups. All these problems result in low posterior probabilities. These points are noted in the classification below. Nonetheless, Bowern and Atkinson (2012) recovered all but four of the main subgroups of Pama-Nyungan, as established in the prior literature and classifications such as Wurm's and Dixon's.

It should be noted that there is a fair amount of agreement between the four classifications discussed here. There is some difference for Non-Pama-Nyungan languages, which is to be expected given that, at the time the Wurm (1972) and OVV classifications were developed and published, there were relatively few in-depth studies of linguistic relationships within Non-Pama-Nyungan families, and many of the resources relied on here were published after 1975. The classifications differ primarily in the number of languages (see Chapter 7), as well as in the assignment of some individual languages to subgroups, particularly among the Eastern languages.

Finally, discussion is needed of Proto-Australian, Pama-Nyungan's relationship to other language families, and relationship between Non-Pama-Nyungan families. I consider Proto-Australian 'not proven'. This is not the majority view of Australianists, it must be said: Australianists have presumed that all languages of Australia are ultimately related to one another, even if at too great a time depth to be demonstrable at this point. Another point I consider beyond investigation (at this point) is whether the (putative single) ancestor of all current Australian families (including Tasmanian) is the same as the language(s) of Australia's original settlers, more than 60,000 years ago. In Australia, as elsewhere, languages change sufficiently fast that they are a crucial source of information for the Holocene, but not for further back in

time. Thus I treat the 30 traditional language families of Australia (5 from Tasmania, and 25 from the mainland) as distinct entities, at least for the purpose of this classification.

Some speculation on language family relationships – between Pama-Nyungan and other families, as well as between Non-Pama-Nyungan families – is given in Bowern (2020).

Australianists have tended to rely heavily on morphological evidence for demonstrating strengths of relationship between language groups. For example, Harvey and Baker (2017) discuss Non-Pama-Nyungan nominal classification markers as evidence for a single Australian family, and Evans (1995) and Blake (1990) classify Tangkic as Non-Pama-Nyungan (that is, not a subgroup within Pama-Nyungan) primarily (though not exclusively) on the basis of pronouns and verbal morphology. But as I point out in Bowern (2020), the morphological evidence isn't absolutely solid. After all, Yolngu pronouns also show some changes from Proto-Pama-Nyungan (e.g. 1sg *narra* as compared to Proto-Pama-Nyungan \*nayu, conflation of 2dl and 2pl, replacement of 3pl \*thana with *walal(a)* in some varieties, for example). Verb morphology and lexicon show Yolngu to be solidly Pama-Nyungan, but across the family there are enough morphological differences that on those grounds alone Tangkic is difficult to exclude.

The problem deepens further when we consider lexicon. Australianists, as noted by Campbell (2004), tend to distrust lexical arguments for classification because lexicon is susceptible to borrowing. Yet as Bowern et al (2011) showed, Australian loan rates are comparable to the rest of the world: some languages have a lot of loaned basic vocabulary, while others do not. Almost all languages have some identified loans, but few languages have many loans. Therefore lexical information should be, like all evidence, interpreted with caution, but that caution also applies to morphological data. After all, morphology is also borrowable, especially where language contact is extensive. And the lexicon, because it contain both stable and borrowable items, is a good place to evaluate contact claims. For example, if two languages do not share lexical items which are stable, but they share other vocabulary, that is good evidence that the shared vocabulary is due to language contact. The converse, on the other hand (sharing of basic but not non-basic vocabulary) is potential evidence of shared (if remote) genetic relationship.

As mentioned above, some languages, which are clearly Pama-Nyungan, nonetheless have few lexical items in common with other languages in different parts of the family. And yet there are Non-Pama-Nyungan families with apparent conservative cognates with widely found

Pama-Nyungan items. Consider the vocabulary in Nyulnyulan that is shared with Pama-Nyungan languages. Various languages of the Nyulnyulan family have words that are clearly loans from Pama-Nyungan languages. Bardi *yagoo* 'brother in law', for example, is a recent loan because it does not undergo either the lenition sound change or the loss of the initial glide that inherited words in Bardi undergo. If this word were truly cognate with \*yaku (e.g. Nyangumarta 'wife's brother, sister's husband', Wardandi *yaku* 'wife', Pitta-Pitta *yaku* 'elder sister', Yulparija *yakurti* 'mother', Mayi-Yapi *yakurti* 'mother', etc.), its form in Bardi should be *awoo* /awu/. Likewise, Nyikina *kampi* 'egg' is probably a loan, even though there are no diagnostic sound changes to identify it as such, simply because, although it is widespread in Pama-Nyungan, Nyikina is the only one of the Nyulnyulan languages to show it, and it is securely reconstructed within Pama-Nyungan.

Other words are probably loaned into Proto-Nyulnyulan (or at least a stage of the family that predates the breakup of all the languages we see today). Yet others are widespread in Nyulnyulan but are also regional Wanderwoerter, such as *lungkurta* 'blue-tongue lizard') and *baarni* 'goanna' (see Haynie et al. 2014). However, there are yet other words that are inherited into Proto-Nyulnyulan, in that they show the expected sound changes in the daughter languages and are well integrated into Nyulnyulan morphology, and yet are similar or identical to words in similar meanings which are widespread and reconstructible in the Pama-Nyungan family, either to Proto-Pama-Nyungan or to an intermediate (but high-level) branch of the family. Some cases from basic vocabulary are given in (1) below.

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*mayi 'vegetable food'

*ma-ni-n 'sit' (*nhi-)

*ma-wa-n 'give' (*wa-)
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Nyulnyulan shares more basic vocabulary with Pama-Nyungan languages than it does with Wororan. There are also loans between Wororan languages and Nyulnyulan languages, as would be expected given the history of the region (cf. Bowern 2018). However, there are no clear similarities between Nyulnyulan and other non-Pama-Nyungan families of the region, as discussed in Bowern (2004).

Now, no one to my knowledge has ever proposed that Nyulnyulan is closely related to Pama-Nyungan, and, to be clear, this is not a claim I'm making here. Grammatically and morphologically, Nyulnyulan languages are not at all similar to Pama-Nyungan languages, though one should also note that they are rather different typologically from the Non-Pama-Nyungan Kimberley languages too. I discuss this case not as a claim that Nyulnyulan is Pama-Nyungan, but as a way to evaluate the context of claims for Tangkic relationships, both lexically and grammatically. Nyulnyulan shares as many Pama-Nyungan words as Tangkic does; therefore any investigation of language relationships between Pama-Nyungan and other families needs to look more broadly. Better criteria are needed for evaluating claims of language relationship when the evidence is sparse.

Australian Families apart from Pama-Nyungan

Bowern	npart from Pama-Nyungar Dixon (2002)	Wurm (1972)	O'Grady, Voegelin and
DOWCIII	Dixoii (2002)	w um (1972)	Voegelin (1966)
Tiwi <sup>2</sup>	Tiwi	Tiwi	Tiwi (Wanuk)
Iwaidjan <sup>3</sup>	North-west Arnhem Land	Iwaidjan	Iwaidjan
Amurdak <sup>4</sup>	subgroup	Wargbi	Amaragic
Iwaidjic	Mawung-Iwaydja	Iwaidji	Iwaidjic
Iwaidja	Mawung	Maung	Iwaidji
Mawng	Iwaydja	Maung	Maung
Garig	Amurdag		C
Ilgar	Marrgu	Amarag Margu	Margu
Wurrugu	Popham Bay (=Iyi)	Garik	
	Fophani Bay (-Iyi)	Garik	
Marrgu			
Gunwinyguan <sup>5</sup>	Arnhem Land <sup>8</sup>	Gunwingguan	Gunwingguan
Gunwinygic	Rembarrnga/Ngalakan	Gunwinggic	Gunwinggic
Kunbarlang	Rembarrnga	Gunwinggu	Bininy
Bininj Kunwok <sup>6</sup>	Ngalakan	Gunbalang	Gunwiggu
Dalabon	Far east Arnhem	Dangbon	Gundangbon
Jawoyn	Ngandi	Dalabon	Muralidban
Warray	Nunggubuyu	Ngalagan	Gunbalang
Uwinymil	Aninhdhilyagwa	Ngandi	Boun-Dalabon
Wulwulam	Dalabon	Rainbarngo	Ngalakgan
Rembarrnga-	Gunwinjgu	Djawan	Ngandi
Ngalakgan	Gunwinjgu	Yangman	Rembarrnga
Rembarrnga	Gunbarlang	Yangman	Jawoyn
Ngalakgan	Jarroyn/Warray	Wardaman	Yangmanic
East Arnhem	Jawoyn	Wageman	Yangman
Wubuy	Warray	Wageman	Wardaman
Anindilyakwa <sup>7</sup>	Uwinjmil		vv ar daman
Ngandi	Cwinjinii	Warrai	
rygandi		Nunggubuyu	Nunggubuyu
		Andilyaugwa	Groote Eylandtan
Kungarakany <sup>9</sup>	Gungarakanj	Kungarakany	,
Mangarrayi <sup>10</sup>	Mangarrayi	Mangarai	Mangarai
Gaagudju <sup>11</sup>	Gaagudju	Kakadju	Kakaduan
Maningrida <sup>12</sup>	Maningrida	Gunavidjian	Gunavidjian (Gunabidji)
Ndjébbana	Burarra	Gunavidji <sup>13</sup>	Gunaviajian (Gunaviaji)
Nakara	Gurrgoni	<u> </u>	N. OTT.
Gurr-goni	Nakkara	Nagaran (Nagara)	Nagaran (Nakara)
Burarra	Ndjebbana	Bureran	Bureran
Burarra	rajeobana	Burera	Burarra-Gunnartpa
		Gorogone	Gorogone
Wagiman	Wagiman-Wardaman	14	15
	Wagiman		
	Wardaman		
Alawa <sup>16</sup>	Alawa	Maran	Alawa
		Mara	
		Nawariyi	
Marran	Marra/Warndarrang	Wandarang	Maran
Yugul	Marra	Alawa	Mara
Marra	Warndarrang		Wandaran
Warndarrang	_		
Wardaman	-	18	19
Wardaman			
Wardaman Yangman			
Dagoman <sup>17</sup> Garrwan <sup>20</sup>	W::/C	V	V
	Waanji/Garrwa subgroup <sup>21</sup>	Karawan	Karwan
Garrwa	Waanji	Karawa	Karawa
Waanyi	Garrwa	Wanyi	Wanji

22	T=	I	T
Darwin Region <sup>22</sup>	Darwin Region	Larakian	Larakic
Larrakiyan	Umbugarla	Larakia	Larakia
Wulna <sup>23</sup>	Limilngan-Wulna	Wuna	Wuna
Larrakia	Limilngan	V V 43114	***************************************
Limilngan	Wuna		
Umbulgarlan	Larrakiya		
Umbugarla			
Ngomburr			
Gonbudj			
Bukurnidja			
Ngaduk <sup>24</sup>			
Jarrakan	Kitja/Miriwung subgroup (ND*)	Djeragan	Djeragan
Gija	Kitja	Gidjic	Gidjic
Miriwoong	Miriwung	Gidja	Gidja
Gajirrebeng		Guluwarin	Guluwarin
3 &		Lungga	Lungga
		Miriwunic	Miriwunic
		Miriwun	Miriwun
		Gadjerong	Gadjerong
Bunuban	South Kimberley Subgroup (NF*)	Bunaban	Bunaban
Bunuba	Bunuba	Bunaba	Bunaba
Gooniyandi	Guniyandi	Gunian	Gunian
	North Kimberley Areal Group	Wororan	Wororan
Worrorran <sup>25</sup>	(NG)	Wunambalic	Wunambalic
Wunambalic	` '		
Kwini	Worrorra	Wunambal	Wunambal
Wunambal	Ungarinjin	Gambre	Gambre
Gamberre	Wunambal	Bagu/Gwini	Bagu/Gwini
Worrorric		Wororic	Wororic
		Worora	Worora
Unggumi		Mailnga	Mailnga
Umiida			
Unggarranggu		Unggumi	Unggumi
Worrorra		Umida	Ungarinyinic
Yawijibaya		Unggarangi	Ungarinyin
Winjarumi		Yaudjibara	Munumburu
Ngarinyinic		Ngarinyinic	Wolyamidi
		Ngarinyin	
Worla		Munumburu	
Ngarinyin			
Andajin		Manungu	
Nyulnyulan <sup>26</sup>	Fitzroy River Subgroup (NE*)	Nyulnyulan	Nyulnyulan
Western	Njigina	Nyulnyul/Bardi	Nyulnyul/Bard
Jawi <sup>27</sup>	Baardi	Yawuru	Jauor
		Nyigina	Nyigina
Bardi			:
Nyulnyul		Warwa	Warwa
JabirrJabirr			
Nimanburru <sup>28</sup>			
Eastern			
Yawuru			
Ngumbarl <sup>29</sup>			
Nyikina			
Jukun			
Warrwa			
[Pama-Nyungan] <sup>30</sup>		Yanyulan	Yany.ulan <sup>31</sup> (Yanyula)
, , ,		[Pama-Nyungan] <sup>32</sup>	Pama-Nyungan
Tangkic <sup>33</sup>	Tangkic subgroup (NA*)	Tangic	Tangkic
Lardil	Lardil	Lardil	Lardil
Yukulta	Kayardild/Yukulta	Gayardilt	Gayardilt
Kayardild	Kayardild	Minkinan (Minkin)	Minkinan (Minkin)
Minkin	Yukulta		
	Minkin		
	•	•	•

Mirndi <sup>34</sup>	NCa Mindi	Djingili-Wambayan	Tjingilu
Western	West Mindi	Djingili	Timgna
Ngaliwuru	Djamindjung/Ngaliwuru	Wambayic	
Nungali	Nungali	Wambaya	Wambaya
Jaminjung	East Mindi	Ngarndji	
Eastern	Djingulu	υ <i>τ</i>	
Ngarnka	Ngarnga	Djamindjungan	Djamindjungan
Binbinka	Wambaya	Djamindjung	Djamindjung
Gudanji	Wallouju	Jilngali	Jilngali
Wambaya		Ngaliwuru	Ngaliwuru
Jingulu		Nungali	Nungali
Southern Daly <sup>35</sup>	Daly River areal group <sup>38</sup>	Murinbatan	Garaman
Murrinhpatha <sup>36</sup>	Southern Daly	Murinbata	Garaman
Ngan'gikurunggurr <sup>37</sup>	Murrinh-patha	Withinoata	Murinbata
Ngan gikulunggun	Ngan.gi-tjemerri		Withinoata
	rygan.gr-yemeni		Nangumiri
Western Daly	Western Daly	Daly	Brinken
Marramaninyshi	Emmi	Moil	Marithiel
Marrithiyel <sup>39</sup>	Marrithiyel	Ngangikurrungur	Maramanindji
Marri Ngarr <sup>40</sup>	Marri Ngarr	Brinken	
Maranunggu <sup>41</sup>		Maramanandji	
		Maredan	
		Marengar	
Eastern Daly	Eastern Daly	Daly	
Kamu	Matngele	Yunggor-Matngala	
Matngele <sup>42</sup>	Kamu		
Anson Bay	Patitjamalh		
Batjjamalh			
Pungu Pungu			
Kiyuk <sup>43</sup>			
Northern Daly	Malak-Malak	Wagaty	Mullukmulluk
Malak Malak		Wadjiginy <sup>44</sup>	
Tyerratj		Maranunggu	
		Ame	
		Mulluk	
		Mullukmulluk	
		Djeraity	
Giimbiyu <sup>45</sup>	Giimbiyu	Urningangk	Uningank
Erre			
Mengerrdji		Mangerian	Mangerian
Urningangk		Mengerai	Mengerai

#### **Tasmanian**

Classifications generally do not discuss Tasmanian along with other Australian languages (though they do include Meryam Mir, which is Papuan, which is something of an inconsistency in my view). See Bowern (2012c) and discussion of sources in that paper for prior classifications. See also Chapter 77, this volume. Tasmanian languages are not classified in Dixon (2002) or O'Grady, Voegelin and Voegelin (1966); Wurm (1972:169) provides two classifications, one based on material by Schmidt and Capell; the other attributed to O'Grady and Rhys Jones. The two differ in geographic boundaries and in higher-level classifications. Both recognize the groups listed here; but O'Grady/Jones contrasts Northern vs the other groups, whereas Schmidt/Capell group Northern with Western. Note that this classification is tentative

and simply repeats information published elsewhere. Glottolog 4.3 (Hammarström et al 2020) also includes specific classification of Tasmanian languages, based on Bowern 2012c and other sources. Here we include classifications based on published sources but recognize that these are tentative and do not take into account the substantial amount of unpublished work completed by the Tasmanian Aboriginal Centre.

Bowern (current volume)	Dixon (2002)	Wurm (1972)	O'Grady, Voegelin and Voegelin	Glottolog 4.3
Southeastern Tasmanian		Southeastern	Voegenn	South-Eastern Tasmanian
Bruny Island				Bruny Island
Southeastern				Southestern
mainland Tasmanian				Tasmanian Hinterland
Oyster Bay		Mideastern		Oyster Bay
Oyster Bay				Big River
Swanport				Little Swanport
Northeastern Tasmanian		Northeastern		North-Eastern Tasmanian
Ben Lomond				Ben-Lomond-Cape-
Northeastern				Portland
				NE Tasmanian
				Dialect Chain
Northern Tasmanian		Northern		
Port Sorrell				
Northern Tasmanian				
Western Tasmanian		Western		Weestern Tasmanian
Northwestern				Port Sorell
Southwestern				Western Coastal
				Tasmanian

## Pama-Nyungan language subgroups

Macro groups are given as per Bouckaert, Bowern, and Atkinson (2018), but should be regarded as tentative, as some of these groupings are not well supported in the tree. The 'Western' node, for example, is well supported, except for whether Yolngu and Warluwaric are included.

Bowern (current volume)	Dixon (2002)	Wurm (1972)	O'Grady, Voegelin and
			Voegelin
Western			
Yolngu <sup>46</sup>	Yolngu	Murngic <sup>47</sup>	Murngic
Northern	Southern	Yulngu	Yulngu
Djinang	Dhuwal	Gubabuyngu	Gobabingo
Djinba	Dhay'yi	Djambarr-puyngu	Riraidjangu
Yan-nhangu	Ritharngu	Riraidjangu	Ritarungo
Djangu	Northern	Ritarngu	Wan'guri
Dhangu/Rirratjingu	Nhangu	Waramiri	Dalwongo
Golpa	Dhangu	Dalwongo	Yolngo
Southern	Djangu	Yulngo	Jarnango
Ritharrngu	Western	Yarnango	Djariwidji
Central	Djinang	Djinang	Jandjinung
Dhay'yi	Djinba	Djinba	Yulngi
Dhuwal			Djinba
Dhuwala			

Warluwaric <sup>48</sup> Yanyuwa	Ngarna Yanyuwa	Yanyula [non-Pama- Nyungan]	Yanyula [non-Pama-Nyungan]
Southern	Southern Ngarna		
Warluwarra	Wagaya	Wakaya-Warluwaric	Warluwaric
Bularnu	Bularnu	Wakaya	Warluwara
Wakaya	Warluwara	Warluwara	Wakayic
Yindjilandji			Wakaya
Warumungu <sup>49</sup>	Warumungu	Waramungic (Waramungu)	Warumungic (Warumungu)
Ngayarta	Gasoyne River to Pilbara	Southwest <sup>52</sup>	Southwest
Yapurarra	Pilbara/Ngayarta	Ngayarda	Ngayarda
Ngarluma	Nhuwala	Ngarla	Ngarla
Ngarlawangga <sup>50</sup>	Martuthunira	Nyamal	Nyamal
Nhuwala	Panyjima	Bailko	Bailko
Martuthunira	Yintjiparnrti	Kurrama	Kurrama
Panyjima	Ngarluma	Kariera	Kariera
Palyku, Nyiyaparli <sup>51</sup>	Kariyarra	Mardudunera	Mardudunera
Nyamal	Tjurruru	Binigura	Binigura
Kurrama	Palyku	Noala	Noala
Jurruru Koriyorra	Nyamal		
Kariyarra Ngarla	Ngarla		
Ngaria Yindjibarndi			
Yinhawangka			
Kanyara-Mantharta	 Mantharta	Kanyara	Kanyara
Kanyara	Kanjara	Talandji	Talandji
Thalanyji	Payungu	Bayungu	Bayungu
Payungu	Thalantji	Wadiwangga	Targari
Purduna	Thatantji	Mantharda	Wadiwangga
Pinikura		Warienga	Mantharda
Thiin		Tenma	Warienga
Mantharta		Djiwali	Tenma
Warriyangga		Thargari	Djiwali
Tharrgari			, and the second
Jiwarli			
Tharrayi			
Kartu	Moore River to Gascoyne	Kardu	Kardu
Nhanda cluster	Watjarri	Maia	Maia
Malgana	Watjarri	Inggarda	Inggarda
Nhanda	Parti-maya	Malgana	Malgana
Amangu <sup>53</sup>	Cheangwa	Nanda	Nanda
Wajarri	Nana-karti	Muliara	Muliara
Kalaamaya <sup>54</sup>	Natingero	Wadjeri	Wadjeri
Badimaya	Witjaari		
Thaagurda <sup>55</sup> Yingkarta <sup>56</sup>	Nhanda Malkana		
Tillgkarta	Yingkarta		
Southwest	Western Bight	Nyungar	Nyunga
Ngatju Cluster	Mirning	Watjari	Mirniny
Ngatyumaya	Kalaaku	Mirniny	Mirning
Galaagu <sup>57</sup>	Karlamay	Mirniny	Kalamai
Mirniny <sup>58</sup>	1	ĺ	
Nyungar Cluster <sup>59</sup>			
Southern:			
Nyunga			
Wudjari	Nyungar		
Goreng			
Minang			
Southwestern:			
Bibbulman			
Wardandi			
Kaniyang			
Pinjarup			1

¥¥ 7****	T	T	T
Wiilman			
Northern:			
Wajuk			
Nyaki Nyaki			
Balardung			
Nganakarti			
Western Desert (Wati) <sup>60</sup>	Western Desert language	Wati	Wati (Western Desert)
Warnman	Western Beservianguage	Wanman	Wanman
Northern:		Kardutjara and	Kardutjara and others
Manjiljarra		others	Kardutjara and otners
5 5		others	
Kukatja			
Wangkajunga			
Yulparija			
Southeastern:			
Antakirinya			
Kokatha			
Kartujarra <sup>61</sup>			
Putijarra			
Ngalia			
Ngaanyatjarra			
Nyaanyatjarra			
Pitjantjatjara-			
Yankunytjatjara			
Pintupi-Luritja			
Tjupan			
Kuwarra			
Cundeelee Wangka			
Marrngu <sup>62</sup>	Mangunj	Marngu	Marngu
Karajarri	Marrngu subgroup	Nyangumarda	Nyangumarda
Nyangumarta	Njangumarta	Karadjeri	Karadjeri
	Karatjarri		
Mangala		Mangala	Mangala
N : N 63	Mangala	-	N
Ngumpin-Yapa <sup>63</sup>	Northern Desert Fringe	Ngarga	Ngarga
Ngumpin	Edgar Range to Victoria	Walmanba	Walmanba
Walmajarri	River	Walbiri	Walbiri
Bilinarra	Walmatjarri	Ngardi	Ngardi
Karranga	Djaru	Wanayaga	Wanayaga
Ngarinyman	Gurindji	Ngalia <sup>64</sup>	Ngalia <sup>33</sup>
Wurlayi	Mudburra	Ngumbin	Ngumbin
Gurindji	Yapa	Mudbura	Mudbura
Mudburra	Warlpiri	Gurindji	Gurindji
Jaru	Ngardi	Djaru	Djaru
Malngin	Warlmanpa	Malngin	Malngin
Wanyjirra		Ngarinman	Ngarinman
Jiwarliny		Bunara	Bunara
Ngardi		Tjiwarliny-Wolmeri	Tjiwarli-Wolmeri
Yapa		Nyangga <sup>65</sup>	Nangga <sup>32</sup>
Warlmanpa		Wirangu	Wirangu
Warlpiri		Yura subgroup <sup>32</sup>	Yura subgroup <sup>32</sup>
		<b>3.</b>	
Northern			
Western Torres <sup>66</sup>	A Torres Strait group <sup>67</sup>	Mabuiagic	Maguiagic
Kala Lagaw Ya	A Torres Strait group A1 West Torres	Kaurareg	Kaurareg
Kalaw Kawaw Ya	A2 East Torres <sup>68</sup>	Dauan-Saibai	Dauan-Saibai
Kukatj <sup>69</sup>			
Kukatj	[in Paman]	Kalibamu Kalada i 70	Kalibamu
		Kukatyi <sup>70</sup>	

Greater Maric <sup>71</sup>	Lower Burdekin <sup>79</sup>	Pama-Maric	Pama-Maric
Dharambalic <sup>72</sup>	Cunningham	Mari	Mari
Dharumbal <sup>73</sup>	Gorton	Mandandanji	Mandandanji
Guynmal	O'Connor	Koa	Koa
Mbabaram	O Connor	Ilba	Ilba
Wulguru	Rockhampton/Gladstone	110a	IIOa
Wulguru			
Coonambella <sup>74</sup>	Darambal		
Bindal	Bayali <sup>80</sup>		
North Maric			
	Greater Maric		
Gudjal	Maric proper		
Gugu Badhun	Bidjara		
Warungu	Biri		
East Maric	Warungu		
Giya	Ngaygungu		
Ngaro	Yirandhali		
Yuru D: :75	Mbabaram		
Biri <sup>75</sup>	Mbabaram		
Biri	Agwamin		
Yilba	Proserpine		
Yangga	Ngaro		
Miyan	Giya		
Wirri	Guwa/Yanda <sup>81</sup>		
Barna	Guwa		
Yetimarala	Yanda		
Gabalbara	Kungkari		
Garinybal	Kungkari		
Barada	Pirriya		
Yambina			
Wangan			
Yiman			
Ganulu			
Gangulu			
Gayiri			
Dhungaloo <sup>76</sup>			
South Maric			
Wadjabangayi			
Yandjibara			
Badjiri			
Gunggari <sup>77</sup>			
Guwamu			
Wadjigu			
Gungabula			
Bidjara			
Gunya			
Margany			
Yiningay			
Yagalingu			
Yirandhali <sup>78</sup>			

Paman <sup>82</sup>	B* North Cape York	Central Pama	Yara
Northern Paman	North Cape York Northern Paman	Oykangand	
			Nawagi
Linngithigh	Gudang	Okunjan	Atherton Pama
Yinwum	Uradhi	Aghu Tharnggala	Tjapukai
Yatay	Wuthati	North-eastern Pama	Idinji
Gudang	Luthigh	Ompila	Eastern Pama
Luthigh	Yinwum	Kandju	Koko Imudji
Anguthimri <sup>83</sup>	Anguthimri	Koko Ya'o	Muluridji
Ndra'ngith	Ngkoth	Northern Pama	Bay Pama
Alngith	Aritinngithigh	Uradhi	Lamalama
Aritinngithigh	Mbiywom	Mpalitjan	Northern Pama
Yupngayth	Andjingith	Yinwun	Otati
Muthanthi	Umpila	Awngthim	Mpalitjan
Mpakwithi	Wik	Alngith	Jinwun
Mpalityan	Wik-Ngathan	Nggoth	Awngthim
Mbeiwum	Wik-Me'nh	Aritinngithig	Nggoth
Uradhi group:	Wik-Mungknh	Mbeiwum	Aritinngithig
Yadhaykenu	Kuku-Muminh	Middle Pama	Mbeiwum
Uradhi	Bakanha	Wik Munkan	Middle Pama
Atampaya	Ayabadhu	Wik Muminh	Ompila
Wuthathi	1 1) we wanta	Wik Mean	Kandju
Angkamuthi		Wik Epa	Wikmunkan
Middle Paman		Wik Ngatara	Wik Muminh
UmpYinty.	Western CYP	Bakanha	Wikmean
Umpithamu <sup>84</sup>	Upper SW	Western Pama	Wikepa
	1.1	Yir Yoront	
Yityingka Northeastern	Thaayorre		Wikngatara Taior
	Oykangand	Thaayorr	
Kuuku-Ya'u	Ogh-Undjan	Coastal Pama	Western Pama
Kaanju	Coastal SW	Koko Pera	Jir Joront
Umpila	Yir-Yoront	Gulf Pama	Koko Pera
Kuuku Yani	Koko Bera	Kunggara	Gulf Pama
Wik	Kok Thaw(a)		Kunggara
Wik Alkan	Kok Narr		Southern Pama
Wik Paacha	Norman Pama		Ogondyan
Wik Ep	Kurtjar		Aghu Tharnggala
Wik Ngathan	Kuthant		
Wik Me'anh		Mbabaram	
Wik Ngatharr		W .:	
Wik Mungkan		Karantic	
Wik Iyanh		Karanti <sup>91</sup>	
Kugu-Muminh	Cairns	Yidinic	
Ayapathu	Djabugay	Yidin	
Pakanh	Yidinj	Dyabugay	
Kugu Nganhcara	1 Iding	Dyabugay	
Alaya-Athima <sup>85</sup>	Kuku-Yalanji	Valanija	
Thaypanic	Kuku- i alanji	Yalanjic	
Aghu-Tharnggala		Gugu Yalanji	
Kuku Thaypan <sup>86</sup>		Koko Yimidhir	
Others		Koko Buyundji	
Ikarranggal		Koko Yawa	
	<u> </u>		

_	_		_
Ogh-Alungul	Umbindhamu	Lamalamic	
Ogh-Angkula	Southeast Cape York	Umbuykamu	
Agu Aloja	Lama	Umbindhamu	
Koogobatha	Morroba-Lama	Umbuykamu	
Takalak	Lama-Lama	Wurangung	
Ogunyjan	Rimang-Gudinhma	Parimankutinma	
Koko Dhawa			
	Rimang-Gudinhma	Wurangung	
Ogh-Awarrangg	Kuku-Wara	Lamalama	
Kokiny	Bathurst Head	Coastal Lamalama	
Athima	Flinders Island	Tablelands	
Awu Alaya	Marrett River	Lamalama	
Southwest Paman	Guugu Yimidhirr		
RR past group	Guugu Yimidhirr		
Kuuk Thaayorre	Barrow Point		
Uw-Oykangand	Thaypan		
Uw-Olgol	Kuku-Thaypan		
Uw-Olkola	Kuku-Mini		
Kuuk-Narr	Takalak		
NT past	Walangama		
Koko Bera	Mbara		
Yir Yoront	Kukatj		
Yirrk-Mel	,		
Norman Pama			
Kuthant		Walangama ?	
Garandi			
Kurtjar			
Ribh			
Walangama <sup>87</sup>			
Lamalamic			
Umbuygamu			
Lamalama			
Rimanggudinhma <sup>88</sup>			
Flinders Island <sup>89</sup>			
Barrow Point			
Guugu-Yimidhirr			
Mbara			
Kuuk Yak			
Agwamin			
Yalanjic <sup>90</sup>			
Kuku Yalanji			
Muluriji			
Gugu Wakura			
Gugu Djangun			
Wagaman			
Yidinyic			
Yidiny			
Djabugay			
Mayi <sup>92</sup>	Mayi	Mayapic	Mayapic
Wanamara	Ngawun	Maykulan	Maykulan
Ngawun	Mayi-Kutuna	Wanamara	Wanamara
Mayi-Kulan		Mayapi	Mayapi
Mayi-Kutuna			
Mayi-Yapi			
Mayi-Thakurti			
Dyirbalic	Herbert River	Nyawigic	94
Dyirbal	Dyirbal	Nyawigi	
Nyawaygi	Warrgamay	Wulgurukaba	
Warrgamay	Nyawaygi	Dyirbalic	1
vv ari garria y	Manbara <sup>93</sup>	Dyirbal	
	ivianuara		
		Wargamay	
		Bandyin ?	

Kalkatungic <sup>95</sup>	Kalkatungu Areal group	Kalkatungic	Kalkatungic
Yalarnnga	Kalkatungu	Kalkatungu	Kalkatungu
Kalkatungu	Yalarnnga	Yalarnngic <sup>96</sup>	Yalarnngic
_		Yalarnnga	Jalanga
Southeastern		_	_
Waka-Kabi	Central Eastern	Waka-Kabic	Waka-Kabic
Wuli Wuli	Waka-Gabi	Miyan	Miyan
Barunggam	Dappil	Dungidjau	Keinjan (Dungidjau)
Bayali	Gureng-Gureng	Djakunda-	Djakunda-
Waka Waka	Gabi-Gabi	Korenggoreng	Korenggoreng
Duungidjawu	Waga-Waga	Than	Than
Batyala	Bigambal	Dalla-Batjala	Dalla-Batjala
Guweng	Yugambal	Taribeleng	Taribeleng
Gubbi Gubbi	Bandjalang	Kingkel	Kingkel
Gooreng Gooreng	Gumbaynggirr	Wadja	Wadja
T 1 1: 07	1	Darambal	Darambal
Turubulic <sup>97</sup>	Yagara	Durubulic	Durubulic
Nunukul	Guwar	Gowar	Gowar
Tubul		Djendewal	Djendewal
Yagara		Yagara(bal)	
Janday			
Guwar <sup>98</sup>	zada Vai V	M	Mannana
Muruwaric <sup>99</sup>	<with yuin-kuri=""></with>	Marawari	Muruwari
Muruwari Barranbinya			
Central-NSW	-	XX7' 1''	XX/: 1' '
		Wiradjuric	Wiradjuric
Ngiyambaa		Main	Main
Wailwan Wiradjuri		Wiradjuri	Wiradjuri
Wiradjuri Gamilaraay <sup>100</sup>		Wonggaibon Kamilaroi	Wonggaibon Kamilaroi
Yuwaliyaay		Yualyai	Yualyai
Yuwaalaraay		Wiriwiri <sup>101</sup>	Wiriwiri
Tuwaaiaiaay		Nguri ?	Nguri
		Barunggama ?	Barunggam
Bigambal <sup>102</sup>	<with waka-kabi=""></with>	Miyal	Miyal
Bigambal	With Waka-Kaoi>	Bigumbil	Bigumbil
Guyambal		Digunion	Digunion
Yugambal			
Bandjalangic <sup>103</sup>	1	Bandjalangic	Bandjerangic
Gold Coast		Gidabal	Bandjarang
Pimpama		Giabalic	Bandjalangic
Southport		Giabal	Giabal
Burleigh Heads		Keinyan	Yugumbal
Condamine/Upper-Clarence		12011,411	1 againout
Geynyan			
Gidhabal			
Dinggabal			
Galibal			
Middle Clarence			
Waalubal			
Biriin			
Wudjehbal			
Lower Richmond			
Wiyabal			
Nyangbal			
Bandjalang			
Tweed-Albert			
Minyangbal			
Yugambeh			
Nerang Ck			
Ngahnduwal			
Copmanhurst			

Nganyaywana <sup>104</sup>	<with nsw=""></with>	Aniwan	
Nyanyaywana			
Southern Anaiwan			
Lower Murray <sup>105</sup>	Lower Murray	Narrinyeric	Narrinyeric
Yitha Yitha	Yaralde	Korni	Korni
		Tanganekald	Tanganekald
Keramin, Kureinji	Ngayawang	_	
Ngintait, Ngarkat,	Yuyu	Mirili	Mirili
YuYu	Keramin	Nganguruku-	Nganguruku-
Ngaiawang	Yitha-Yitha	Ngaiawang	Ngaiawang
Ngarrindjeri, Yaraldi		Ngult	Ngult
Peramangk		Maraura-Ngintait	Maraura
Yuin-Kuri	N Central New South	Yuin-Kuric	Yuin-Kuric
	Wales <sup>111</sup>		
Sydney-Hawkesbury		Yuin	Yuin
Dhanggati <sup>106</sup>	Awabakal/Gadjang	Dhawa	Thaua
Darkinyung	Awabagal	Dharawal	Thurawal
Sydney Language	Kattang	Ngarigu	Ngarigo
Dharuk	Djan-gadi/Nganjaywana	Ngunawal	Ngunawal
Eora	Thangatti	Kuri	Gandangara
Kuri			
	Nganjaywana	Gandangara	Kuri
$HRLM^{107}$	Central Inland NSW	Darkinung	Darkinung
Awabakal	Gamilaraay	Wanarua	Wanarua
Wanarruwa	Wiradhurri	Kattang	Worimi
Lower North Coast	Ngiyambaa	Ngamba (Dangadi)	Ngamba (Dangadi)
Birrpayi	Muruwari	Yukambal <sup>112</sup>	Jukambal <sup>113</sup>
Worimi	Barranbinja	1 ukumou	Jukumoui
Katthang	O Sydney		
Yuin <sup>108</sup>	Dharuk		
Northern Inland	Darkinjung		
Ngun(n)awal	P Southern NSW		
Gandangara	Southern tablelands		
Northern Coastal	Gundungurra		
Dharawal			
	Ngarigo		
Dhurga	NSW Coast		
Dharumba <sup>109</sup>	Dharawal		
Southern Inland	Dhurga		
Ngarigu	Djirringani		
Omeo language <sup>110</sup>	Thawa		
Southern Coastal	Tilawa		
Thawa			
Djirringany			
Gumbaynggiric	<with td="" waka-kabi<=""><td>Gumbainggaric</td><td>Kumbainggaric</td></with>	Gumbainggaric	Kumbainggaric
Gumbaynggir	(Central/Eastern)>	Gumbainggar	Kumbainggar
Yaygirr	, , , , , , , , , , , , , , , , , , ,	Yegir	Yegir
Baanbay		5	Yegir
Eastern Victoria	(O) Mult than a (Vi)	Voithmathanai-	Kurnic
	(Q) Muk-thang (Kurnai)	Yaithmathangic	
Kurnai group <sup>114</sup>		Yaithmathang	Bratauolong <sup>117</sup>
Kurnai		Duduruwa	
Muk-Thang		Pallangamiddah	
Nulit	(R) Upper Murray		Yaitmathangic
Thangguai	Pallanganmiddang		Jaitmathang
	Dhudhuroa		Juiniumung
Bidawal	Diruminoa		
Dhudhuroa <sup>115</sup>			
Waywurru <sup>116</sup>			
Kulin <sup>118</sup>	West Victorian areal group	Kulinic	Kulinic
Bunganditj	Kulin	Kulin	Kulin
Kolakngat <sup>119</sup>	Wemba-Wemba	Wergaia	Djadjala
Wathawurrung	Wadha-wurrung	Wudjawuru	Wudjawuru
Western <sup>120</sup>	Wuy-wurrung	Woiwuru	Taungurong
Tjapwurrung	Buwandik	Narinari	Drual
Jardwadjali	Buwandik	Drual	Marditjali
Djadjawurung	Kuurn-Kopan-Noot	Marditjali	Tjapwurung
Djaajawarang	Izaaiii Izopuii 1100t	1,101,011,011	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Mathi <sup>121</sup>	Kolakngat	Gulyan	Gulyan
Ladji Ladji		Kurung	Kurung
Mathi-Mathi		Kurnic <sup>124</sup>	
Yari-Yari		Brataolung	
Wathi-Wathi <sup>122</sup>			
Wemba			
Wemba-			
Wemba <sup>123</sup>			
Nari Nari			
Warrnambool			
Wotjobaluk			
Eastern			
Woiwurrung			
Boonwurrung			
Daungwurrung			
Yortayortic	Yota/Yabala	Yotayotic	Yotayotic
Yorta Yorta	Yota-Yota	Yotayota	Jotijoti
YabulaYabula	Yabala-Yabala	Eastern Banygarany	Baraparapa
i abula i abula	1 avaia- 1 avaia	Eastern Banygarany	
Control125			Jabulajabula
Central <sup>125</sup>			***
Yardli <sup>126</sup>		Yalyi	Yalyi
Malyangapa		Nadikali-Malyangapa <sup>127</sup>	Karenggapa/Wadikali
Yardliyawarra			
Wadikali			
Thura-Yura <sup>128</sup>	Spencer Gulf		[Southwest]
Ngadjuri	Kadli		Nangga
Nauo	Yura		Wirangu
Parnkala	Parnkalla		Yura
Nukunu			Nawu
	Adjnjamathanha	-	
Adnyamathanha	Wirangu		Pangkala
Kaurna			Kuyani
Narrungga			Wailpi/
Guyani			Adhnyamathanha
Wirangu			Jadliaura/Nukuna
Paakantyi <sup>129</sup>	Baagandji	Darling	Darling
Kurnu		Kurnu	Kula/Kurnu
Paaruntyi			
Pantyikali			
Paakantyi			
Southern Paakantyi			
Parrintyi			
Wilyakali	A 1:	4 1:	A 1:
Arandic	Arandic	Arandic	Arandic
Kaytetye	Arrernte	Artuya	Artuya
Aranda	Kaytetj	Kaititj	Kaititj
Anmatyerr		Urtwa	Urtwa
Alyawarr		Alyawarra	Iliaura
Antekerrepenhe		Lower Aranda	Lower Aranda
Ayerreyenge		1	
Central Arrernte			
Western Arrarnta			
vy estern Arrafilia			
Eastown Amount-			Ī
Eastern Arrernte			
Lower Aranda <sup>130</sup>	T. 1. T. D. 1. (271)	The second	Div. 1st
Lower Aranda <sup>130</sup> Karnic <sup>131</sup>	Lake Eyre Basin (WA)	Pittapittic	Pittapittic
Lower Aranda <sup>130</sup> Karnic <sup>131</sup> Northern	North and West	Ulaolinya	Ulaolinya
Lower Aranda <sup>130</sup> Karnic <sup>131</sup> Northern Pitta-Pitta	North and West Pitta-Pitta		
Lower Aranda <sup>130</sup> Karnic <sup>131</sup> Northern	North and West	Ulaolinya	Ulaolinya Wangkadjera-Pittapitta
Lower Aranda <sup>130</sup> Karnic <sup>131</sup> Northern Pitta-Pitta	North and West Pitta-Pitta	Ulaolinya	Ulaolinya Wangkadjera-Pittapitta
Lower Aranda <sup>130</sup> Karnic <sup>131</sup> Northern Pitta-Pitta Wangkayutyuru	North and West Pitta-Pitta	Ulaolinya Wangkadjera-Pittapitta	Ulaolinya

Central	Central	Arabanic	Arabanic
Mayawali	Yandruwandha	Arabana	Arabana
Karuwali	Diyari		
Mithaka	Ngamini	Yandic	Yandic
Karangura	Midhaga	Yanda	Janda
Western	South-west		
Pirlatapa	Wangkumara		
Thirarri	Galali		
Diyari	Badjiri		
Ngamini			
Yarluyandi			
Yawarrawarrka			
Yandruwandha		Dieric	Dieric
Nhirrpi		Karna	Karna
Kungkarric		Dieri	Dieri
Kungkarri		Pilatapa	Pilatapa
Pirriya		Jauraworka	Jauraworka
Eastern		Karendala	Karendala
Wangkumara <sup>132</sup>		Ngura	Ngarna
Ngantangarra		Punthamara	Punthamara
Garlali		Badjiri <sup>134</sup>	Kalali
Punthamara			Badjiri <sup>56</sup>
Yandic <sup>133</sup>			
Guwa			
Yanda			

## Papuan Language

Meryam Mir (Piper 1989); Eastern Trans-Fly (Papuan).

# **New Indigenous Languages**<sup>135</sup>

- Creole Languages
  - Yumplatok & affiliated north-eastern creole languages
    - Yumplatok; also known in the literature as Torres Strait Creole, Broken
       (Shnukal 1988, 1991)
    - Cape York Creole; from the Northern Peninsula Area of Cape York
       (Crowley & Rigsby 1979, with some commentary in Harper 2001)
    - Lockhart River Creole (Mittag 2016)
    - Napranum Creole (Carter, Angelo & Hudson in press)
  - Kriol & the Kriol sphere of influence<sup>136</sup>
    - Kriol (Schultze-Berndt et al 2013; Fitzroy Valley Kriol: Hudson 1985;
       Ngukurr & Bamyili/Barunga Kriol: Sandefur 1979)
    - Eastern periphery

- Mornington Island Creole (Nancarrow 2014; Community negotiations, Language Perspectives 2015a)
- Kowanyama Creole (Community negotiations, Language Perspectives 2017)

# Southern periphery

- Alyawarr English (potentially also categorised as a blended language; Dixon, 2017, 2018)
- Wumpurrarni English (potentially also categorised as a blended language; Disbray 2008a)

# • Superdiverse aboriginal settlements<sup>137</sup>

- Yarrie Lingo (Angelo Fraser & Yeatman 2019; Community-negotiated project, Language Perspectives 2009)
- Woorie Talk (Munro & Mushin 2016; Community-negotiated project, Language Perspectives 2015b)
- Cherbourg Talk (Mushin, Angelo & Munro 2016; Community-negotiated project, Language Perspectives 2009)

### • Potential creole languages

- Palm Island (Superdiverse Aboriginal Settlement in northern Queensland)
- Murdi Language (southwestern Queensland; Community-negotiated projects, Language Perspectives 2009, Munro [Unpublished])
- 'heavy Aboriginal English' (e.g. north-western Western Australia)<sup>138</sup>

#### • Mixed languages

- Light Warlpiri (O'Shannessy, 2005, 2009, 2013, and much other work)
- Gurindji Kriol (McConvell, 1988a, 2002; McConvell & Meakins, 2005; Meakins, 2008b, 2010, and much other work)
- Modern Tiwi (Lee, 1987; McConvell 2010; Wilson, Hurst & Wigglesworth 2018)

# • Languages not otherwise classified

- Dhuwaya (Amery 1985)
- Areyonga Teenage Pitjantjatjara (Langlois 2004)
- Pidgin Ngarluma (Dench 1998a)
- Broome Pearling Lugger Pidgin (Hosokawa 1995)
- Contemporary Noongar (Douglas 1976, Rooney 2011)

#### Sign Languages

After much consideration, Sign Languages are not further differentiated in this classification. This is because it is currently very unclear how many Sign Languages are and were present in Aboriginal Australia, and how best to delineate them. See Green, Chapter 52, this volume, for discussion.

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<sup>&</sup>lt;sup>1</sup> Though in Ngumpin-Yapa, r > rl in this position; cf. Warlpiri *marla* (see further Laughren and McConvell 2004).

<sup>&</sup>lt;sup>2</sup> See, for example, (Osborne 1974; Wilson 2013).

<sup>&</sup>lt;sup>3</sup> Per Evans (2000).

<sup>&</sup>lt;sup>4</sup> See further Handelsmann (1991); Mailhammer (2008)

<sup>&</sup>lt;sup>5</sup> See Evans (2003a) and much subsequent work.

<sup>&</sup>lt;sup>6</sup> Bininj Gunwok (or simply Gunwok) includes Kunwinjku, Kune, Mayali, and other varieties, per Evans (2003a). I treat these as varieties rather than listed languages for reasons of consistency with other areas of the country, but a case could probably me made for including more varieties here.

<sup>&</sup>lt;sup>7</sup> See van Egmond (Chapter 68, this volume) and for more detail van Egmond (2012) for Anindilyakwa's genetic position.

<sup>&</sup>lt;sup>8</sup> Though Dixon (2002) groups many of the languages of Arnhem Land together in a single group, I do not consider there to be sufficient evidence of genetic relationship to do so at this point. Dixon (2002) gives both genetic and "areal" groupings. I stick with genetic relationships as I do not consider Dixon's groupings either sufficiently consistent or sufficiently supported by evidence.

<sup>&</sup>lt;sup>9</sup> See Parrish (2008); for this and other isolates of North Australia, see also Bowern (2017).

<sup>&</sup>lt;sup>10</sup> The position of Mangarrayi is uncertain - as well as considering it an isolate, some have assigned it to Gunwinyguan (e.g. Alpher, Evans & Harvey 2003), some to Marran (e.g. Merlan 2003).

<sup>&</sup>lt;sup>11</sup> See Harvey (2002).

<sup>&</sup>lt;sup>12</sup> See Carew and Beltran (Chapter 70, this volume). See Green (2003) for possible arguments around the relationships between the Maningrida languages and others in Arnhem Land.

<sup>&</sup>lt;sup>13</sup> This is the same language as Ndjébbana.

<sup>&</sup>lt;sup>14</sup> Included in Gunwinyguan.

<sup>&</sup>lt;sup>15</sup> Included in Gunwinyguan.

<sup>&</sup>lt;sup>16</sup> Alawa and Marran (including Marra, Yukul, and Warndarang) was proposed in OVV and followed by Heath (1978a) and Sharpe (1976b). Harvey (2012) shows that the relationship between Marra and Warndarrang is not close, and the similarities are most likely due to language

contact. Sharpe (1976b) is agnostic about the relationship between Alawa and Marra. I follow Harvey (2012) here in treating these languages as three separate families (two isolates, and Marra related to Yukul, following Harvey 2012 and Baker 2010).

- <sup>17</sup> Tentative as separate language; could also be considered a variety of Wardaman.
- <sup>18</sup> Subgroup of Gunwinyguan and listed there.
- <sup>19</sup> Subgroup of Gunwinyguan and listed there.
- <sup>20</sup> See Harvey (2009). I consider this 'not proven' (see also notes on Tangkic below) and thus conservatively keep Garrwan as a separate group, distinct from Pama-Nyungan for now.
- <sup>21</sup> Dixon's (2002) intent is unclear here. Dixon calls this as "subgroup", but does not say which higher-order group it belongs to. In terms of alpha-numeric classification, this group is included with groups which other authors include as Pama-Nyungan; however, given that Dixon (1997, 2001, 2002) does not accept the unity of Pama-Nyungan, is it unclear on what basis we should assign Garrwan to that grouping.
- <sup>22</sup> Harvey (2001: 9) considers this group a Sprachbund, and should be considered very tentative.
- <sup>23</sup> Also known as Wuna (cf. Harvey 2001).
- <sup>24</sup> Treatment as a distinct language is tentative.
- <sup>25</sup> Classification for Wororan broadly follows (Clendon 2014; McGregor & Rumsey 2009). That there are three branches is not in doubt, but the divisions within each group are unclear. See also Spronck (Chapter 69, this volume), who includes more varieties.
- <sup>26</sup> See Bowern (2012a).
- <sup>27</sup> Jawi is listed as distinct from Bardi. Though the two varieties are now close, there is considerable evidence that the two have partially merged over the course of the 20<sup>th</sup> Century, given extensive language contact on Sunday Island and the great loss of Jawi people, particularly to influenza and diphtheria. That is, the languages were likely much more different, both lexically and morphologically, than the most recent records suggest.
- <sup>28</sup> Treated as distinct by Bowern (forthcoming) on the basis of material collected by A.R. Peile, which is the only extensive material for the language. The material in Nekes and Worms (1953) for Nimanburru appears to be much more similar to Nyulnyul.
- <sup>29</sup> Ngumbarl is sometimes said to be a variety of Jukun (cf. Nekes and Worms 1953), but work with Bates' discussion of Ngumbarl material recorded from Billingee (cf. Coyne 2005) suggests

that it is sufficiently different from Jukun and Yawuru that it should be treated as a distinct language.

<sup>&</sup>lt;sup>30</sup> See below for Pama-Nyungan groups.

<sup>&</sup>lt;sup>31</sup> In Pama-Nyungan in subsequent classifications; see Yanyuwa (Warluwarric).

<sup>&</sup>lt;sup>32</sup> Tangkic is Pama-Nyungan in this classification but Minkin is non-Pama-Nyungan and a distinct family.

<sup>&</sup>lt;sup>33</sup> Bowern (2020) discusses the variable placement of Tangkic as a sister to Pama-Nyungan or a subgroup within it. While early classifications (e.g. O'Grady, Wurm & Hale 1966) placed Tangkic as one of the primary subgroups of Pama-Nyungan on primarily typological grounds, since Evans (1990; 1995) and Blake (1990) it has been customary to treat Tangkic as non-Pama-Nyungan, albeit a close relative (the closest family apart from Garrwan; though see Harvey (2009) for discussion). Evans' basis for classification was the pronominal system, with the reconstructions of Tangkic forms being rather different from those typically reconstructed for Pama-Nyungan (e.g. by Blake 1990). That in itself might not be evidence against shared genetic relationship however, since, after all, pronouns do change, and other Pama-Nyungan subgroups (e.g. Yolnu, Karnic) are reconstructed with at least some forms other than those reconstructed to Proto-Pama-Nyungan (Schebeck 2001; Bowern 1998). Bouckaert, Bowern, and Atkinson (2018) include Tangkic among the groups discussed in their phylogeny of Pama-Nyungan. In their tree, Tangkic is a subgroup within Pama-Nyungan, not a sister to the Pama-Nyungan family. This classification is based on sparce lexical cognates, but ones which might a priori be thought to be indicative of shared genetic relationship. We might therefore say that Tangkic is a "sparce evidence" question - that is, there are sufficient differences between the reconstructed pronominal systems to cast doubt on the genetic affiliation. Lexical data is historical distrusted in Australia (see e.g. Alpher 2004). The best we might say at this point is that the claim is "not proven". BBA (2018) also includes Nguburindi, Yangkaal/Yangarella and Ganggalida as additional varieties. The placement of Minkin is doubtful; see Evans (1990).

<sup>&</sup>lt;sup>34</sup> See Harvey (2008).

<sup>&</sup>lt;sup>35</sup> Daly language families are per dalylanguages.org (by Ian Green and Rachel Nordlinger). Please note the language/dialect classification given there: "Language names listed vertically are considered by us, as linguists, to be in a dialectal relationship with each other. However, it is important to remember that from a community perspective all of the varieties listed here are

different languages, with those listed vertically just being 'close' to each other." For consistency with the rest of the map I have used the "language" level relationships and listed the first of the names on the map; other names are given in the notes.

- <sup>43</sup> The status of this language is unclear. The language name is solely known from other groups, who say that it was different from the closest languages to the mainland. It is therefore tentatively included. See further Ford (1990) and Bowern, Chapter 7, this volume, for discussion. Note that Kiyuk is not listed in dalylanguages.org, which is otherwise the main source both classification and mapping of languages of the Daly region (see also Tryon 1974).
- <sup>44</sup> This is the name of the tribe/group of which Batjjamalh/Bachamal is the language name. Wakac is a Batjjamalh word for 'beach', hence 'Wagaty' (Ford 1990).
- <sup>45</sup> See Campbell (2006).
- <sup>46</sup> This grouping is tentative. Central and Southern Yolngu are clear (and group together), but it is not clear whether Northern Yolngu is a group of its own, or rather a set of languages that branch off sequentially from Proto-Yolngu, and therefore do not form a discrete subgroup of their own. Or rather, it is clear that some "Northern" languages group together, but it is not clear that all of them do. BBA (2018), for example, find no single Northern group, but rather a series of splits. Note further that the position of Yolngu, Warluwarric, Kalkatungic, and Arandic are poorly supported in the BBA tree and so the classification of those groups with respect to other Pama-Nyungan groups should be regarded as tentative.

<sup>&</sup>lt;sup>36</sup> Also includes Murrinh Kura.

<sup>&</sup>lt;sup>37</sup> Also includes Ngen'giwumirri and Ngan'gimerri, per dalylanguages.org.

<sup>&</sup>lt;sup>38</sup> Dixon (2002) groups all languages of the Daly together as a single family but I follow Green and Nordlinger's extensive research on the languages in question.

<sup>&</sup>lt;sup>39</sup> This also includes Marri Tjevin, Marri Ammu and Marri Dan, per dalylanguages.org. One language name is given for reference in the classification but others are included on the language map.

<sup>&</sup>lt;sup>40</sup> Also includes Magati Ke, per dalylanguages.org.

<sup>&</sup>lt;sup>41</sup> Also includes Emmi, Menthe, per dalylanguages.org.

<sup>&</sup>lt;sup>42</sup> Also includes Yunggurr.

<sup>47</sup> Wurm (1972:149) also gives a classification based on work by Bernard Schebeck, but it's not clear how the clan lect mapping relates to the classification given here, since Wurm does not make it clear which names he considers equivalent.

- <sup>48</sup> BBA (2018) strongly supports earlier classifications where Warluwarra and Bularnu and a group, Wakaya and Yindjilandji are a group, and those two groups go together as a sister to Yanyuwa (with the groups of similar time depths).
- <sup>49</sup> Warumungu is usually treated as a family-level isolate within Pama-Nyungan. Both Bowern and Atkinson (2012) and Bouckaert, Bowern, and Atkinson (2018) found that Warumungu was grouped within Ngumpin-Yapa; the possibility of loans influencing the classification means that I treat this as tentative and here use the more conservative classification.
- <sup>50</sup> Doug Marmion (pers comm) comments that classification of this language is very uncertain, and should perhaps be in a group on its own with Nyiyaparli. Austlang suggests that Ngarla, Ngarlawangga and Yinhawangka are either the same language or closely related varieties. Since there appears to be some uncertainty here, I retain distinct names but do so tentatively. Classifications of "Yinhawangga" have varied substantially (between Wati, Ngayarta, and Wajarri group, per Austlang). On the placement of Nyiyaparli and the names Nyiyaparli and Palyku, see also Battin (2019).
- <sup>51</sup> Equivalent to Nyiyaparli per Austlang, following Dench (1998b,c).
- <sup>52</sup> Both OVV and Wurm have a large "Southwest" group which covers most of the Pama-Nyungan languages of Western and South Australia. It is not exactly equivalent to the "Western" group in BBA (2018), though Wurm and OVV's Southwest, plus Warumungu, is a monophyletic group in BBA.
- <sup>53</sup> Amangu is sometimes classified as a Noongar variety; it also appears to be been an alternative name for Nganakarti (which is clearly Noongar). The grouping within Kartu is per Blevins (2001a).
- <sup>54</sup> Classification is tentative.
- <sup>55</sup> It is not clear whether Thaagurda is closely related to Malgana or is a distinct language (cf. Austlang W15).
- <sup>56</sup> Yingkarta is a sister to Kanyara-Mantharta in Bouckaert, Bowern and Atkinson (2018). Kartu and Kanyara-Mantharta are not particularly close relatives; Kartu is sister to the Southwest

languages, while Kanyara-Mantharta is sister to Ngayarta in a "Pilbara" group. Those two clusters form a group. I retain the Kartu classification here pending further research.

<sup>&</sup>lt;sup>57</sup> Some group Galaagu and Marlpa together with Ngatjumaya as a single language (or use Marlpa as the cover term for the language).

<sup>&</sup>lt;sup>58</sup> There seems some disagreement about whether the name is spelled Mirniny or Mirning. I have used Mirniny per the Goldfields Language Centre.

<sup>&</sup>lt;sup>59</sup> Within the Nyungar/Noongar group, it is clear that there are at least three distinct groups. However, it is not clear which varieties go with which, and sources differ on how the varieties are divided. These groups follow Dench (1994); Douglas (1976) also uses three groupings, but not the same three (the differences concern where the Southwestern languages group). See further Chapter 74, this volume for further discussion. BBA (2018) used 10 wordlists across the southwest and recovered the three-way Natju-Mirniny-Nyungar grouping. Within Nyungar/Noongar, subgrouping were less clear, in part because southwestern was overrepresented compared to the other varieties. Amangu appears in Noongar classifications but per Blevins (2001) is classified as Kartu. Amangu is also an alternative name for Nganakarti, a Noongar variety. Language locations and named varieties are based on the Noongar learner's guide, using their map Noongar boodja wongki – Noongar dialect map (Noongar waangkiny 2014), but have been adapted slightly given other information from surrounding regions (including the relationship between the names Amangu and Nganakarti, for example). <sup>60</sup> See Babinski et al, Chapter 75, this volume, for note on the subgroup name. There is more structure in the group than is presented here, but as with Nyungar/Noongar above, sources disagree. There is, for example, agreement that the northern Wati languages are different from the southeastern ones. Others have discussed Western Desert as a dialect chain; sources also agree that Warnman is different from the other languages in the group. The Goldfields language Centre gives four regions for Western Desert varieties. Babinski et al (Chapter 75, this volume) discuss data from 11 varieties and show how subgrouping within the Wati group is difficult. Language placement for the map should be considered approximate, since sources provided conflicting information.

<sup>&</sup>lt;sup>61</sup> The remaining Wati/Western Desert varieties are not yet classified.

<sup>&</sup>lt;sup>62</sup> See Weber (2009).

<sup>&</sup>lt;sup>63</sup> See McConvell and Laughren (2004).

<sup>64</sup> Classified as Western Desert in Bowern.

- <sup>66</sup> See Alpher et al. (2008) for discussion surrounding views over whether the Western Torres Strait group is Pama-Nyungan.
- <sup>67</sup> Dixon (2002): "These are Papuan languages, not closely related to each other. A1 has a significant Australian substratum."
- <sup>68</sup> Listed below in "Other" languages in Bowern's classification, since per Piper (1989) and Alpher et al. (2008), Eastern Torres is a Papuan language related to other Trans Fly languages, and Western Torres is Pama-Nyungan. In Bouckaert, Bowern and Atkinson (2018) and Bowern and Atkinson (2012), Western Torres' closest relative is Kukatj (see below), but the lexical evidence is very slim, so that is not followed here.
- <sup>69</sup> Breen's (1976:151) contrastive study of Gog-Nar and Gugadj has some discussion of classification. Wurm (1972) places Kukatj in a group on its own; Breen suggests it is possibly part of Pama-Maric (based on lexical comparison); he suggests that its closest neighbors in terms of classification are not the Norman Paman languages which are geographically closest.
- <sup>70</sup> Said in Wurm (1972) to be of doubtful existence, along with Walangama and Karanti. See Breen (1976) for other discussion.
- 71 The comments made above for Western Desert/Wati and Nyungar/Noongar about complexities of classification also apply here. For the term 'Greater Maric', see Barrett (2005), though my composition of 'Greater Maric' is not the same as his. He includes Pirriya, Kungkarri, and Guwa as 'Greater Maric', whereas I class them within an expanded Karnic group. Barrett's (2005) classification of Maric has three groups: North, East, and South; but there are numerous other varieties which are not included in his classification, particularly in the northwest of the Maric area where data are sparse. Note that both OVV and Wurm (1972) only include 3 Maric languages (though with other dialects listed), whereas even Dixon (2002), who normally "lumps" rather than "splits", includes 5 in his "Maric proper" and 8 others in other affiliated groups. Sutton (1973:12) includes 34 Maric languages. BBA has South and East Maric as a group, but North Maric groups with Dyirbalic and the (previously unnamed) group including Bindal, Wulguru, and Coonambella. I consider this as tentative and flag this part of the classification as needing further clarification and detailed work with all available sources, and I note that even in this area, linguists differ about the number of varieties according to a "linguistic" classification.

<sup>&</sup>lt;sup>65</sup> See Thura-Yura in the Central group.

Note that Bowern's classification includes many more Maric varieties than previous classifications, part of the cause of differences in the number of languages recognized overall (see Chapter 7, this volume, for some discussion).

- <sup>72</sup> The grouping of Dharumbal within Maric is tentative. As Terrill (2002) notes, Dharumbal appears to have a number of Pama-Nyungan retentions which are not otherwise found in Maric languages, implying it should be a primary group within Pama-Nyungan, rather than a group within Maric.
- <sup>73</sup> According to Terrill (2002), the language of Great Keppel Island, Wapabara, has considerable differences from Dharumbal. It could therefore be tentatively considered a distinct language.
- <sup>74</sup> Austlang quotes Dixon (2002) and Donohue (2007) as treating Coonambella as a dialect of Wulguru; however, there appear to be sufficient lexical differences in the sources to treat them as different languages here.
- <sup>75</sup> I am agnostic at present on the number of languages here. Clearly the dialectology of this area was complex. Breen (2009) includes the "Biri dialects" within a single language, but treats the rest as distinct (though with similar caveats to those given here).
- <sup>76</sup> This name Dungaloo or Dhungaloo is known only, as far as I know, from a wordlist of 76 items by Hatfield at AIATSIS (PMS 4902). It is clearly a Maric language, and is here tentatively grouped with Biri and varieties. It is, however, sufficiently distinct to be included here, at least tentatively.
- There is some doubt about whether Mandandanyi is a distinction language. It is used as a language name in Barrett (2005), and is listed in Tindale (1974); Tindale gives Kogai as a language name and Mandandanji, Kunggari, and Barrungam as group names. However, Barunggam (per Kite and Wurm 2004 and earlier Holmer 1983) spoke Waka-Waka. Given this uncertainty, I retain Mandandanyi and Gunggari as distinct (though tentatively). Note that there are two language varieties known as "gunggari" (which is a word for 'east' in part of Queensland; Gunggari is therefore most likely an exonym). The language spelled Kungkarri (more closely related to Karnic) here is clearly distinct from the Maric language known as Gunggari. Map information for this area is based primarily on Breen (2009). Breen uses different spellings of several varieties (e.g. Barana for Barna); I retain the more commonly used ones.

- 80 Bowern places Bayali in Waka-Kabi. See also Breen (2009).
- <sup>81</sup> This is a separate group within Karnic in Bowern's classification.
- <sup>82</sup> See Black (1980); Hale (1976c,d,e); Hale (1964). Thanks to JC Verstraete, Peter Sutton, and Barry Alpher for discussion of language placements and classification for Paman.
- <sup>83</sup> Same as Awngthim.
- <sup>84</sup> For Middle Paman, see Verstraete & Rigsby (2015) and Verstraete (2020) for evidence. The grouping of Umpithamu and Yintyingka is given in Verstraete and Rigsby (2015:192-194), they also include Umpila with many of the changes that characterize Yintyingka and Umpithamu within Middle Paman.
- <sup>85</sup> Gugu Mini was included in an earlier version of this classification but is not included here since it appears to be a cover term for a number of groups, including Kokiny and Athima.
- <sup>86</sup> Also known as Awu Alaya.
- <sup>87</sup> Placement within the group is unclear.
- <sup>88</sup> There is also material known as Kuku-Warra (lit. 'bad language') but this appears to be an exonym for the languages of the Princess Charlotte Bay region (Barry Alpher pers. comm).
- <sup>89</sup> Also known as Oko Wurrima.
- <sup>90</sup> Note that I have fewer language distinctions than the Pama Language Centre, who also includes Kuku Jakandji and Wulpuru.
- <sup>91</sup> Kuthant in Bowern's classification, following Black's work on Norman Paman.
- <sup>92</sup> See Breen (1981b).
- <sup>93</sup> This term is equivalent to Wulguru, which is probably a cover term for several varieties spoken on Palm Island, Cleveland Bay, and Magnetic Island (per Austlang).
- <sup>94</sup> OVV place Dyirbalic within the Paman subgroup.
- <sup>95</sup> See Blake (1979a).

<sup>&</sup>lt;sup>78</sup> Beale (1975) also includes a language Manira with Yirandhali. The name does not appear in Austlang; presumably it is the same as the 'Mungerra' source for Yirandhali given in Curr (1886). See also Breen (2009).

<sup>&</sup>lt;sup>79</sup> Bowern finds no concrete evidence for a distinct Burdekin group. The three wordlists in Curr (1886) from which Dixon derives the three languages of the group appear to be Yuru (see Terrill 1998), a Maric language, and possibly including words from Bigambal.

<sup>96</sup> "The language is structurally similar to Kalkatungu which constitutes the Kalkatungic Group," (Wurm 1972:131).

<sup>97</sup> Per information provided by the Yugara-Yugarapul Aboriginal Corporation, they consider there to be a single Yuggara language, spoken by groups who identify as Miguntyun and Chepara. Gowar (Moreton Island language) is considered separate, and Turubul is possibly based on a misnaming in the 1850s. Austlang gives Yuggera/Yagara as the cover term for three languages: Moondjan (spoken by Nunukul people); Jandai (spoken by Goenpul people), and a third variety spoken by Turrbul people. However, Austlang also gives an (unsourced) alternative: Yuggera and Koopenul; Nunukal and Goenpul, and Ngugi (Moreton Island).

<sup>98</sup> Jeffries (2011) treats Guwar as a Bandjalangic language which has been heavily influenced by Yagara.

<sup>99</sup> See Oates (1988), and (Oates 1988:198-99) for the classification of Barranbinya as closer to Muruwari than Central New South Wales.

<sup>100</sup> WL (2008:215) has Gamilaraay and 5 other varieties as a single language, called "Darling Tributaries language".

<sup>101</sup> Wiriwiri, Nguri, and Barunggama are Waka-Kabi in the current classification. See Breen (2009) and Terrill (2002) for discussion.

<sup>102</sup> See Bowern, Chapter 7, this volume, and Wafer and Lissarrague (2008: 333-334) for some discussion of the variation in classification of this subgroup. These languages have been variously classified as Yuin-Kuri, Central NSW, Waka-Kabi, and Bandjalangic. BBA shows that they are a distinct subgroup.

<sup>103</sup> See Sharpe (1985, 2005, Chapter 73, this volume). The classification of this dialect chain is complex. Crowley (1978; 158, 196) gives maps of the Bandjalang languages which are redrawn and adapted by Sharpe (1985:103). This classification is followed by WL (2008: 352ff). Note that the two maps in Sharpe (1985) are not reconcilable to one another, as the shape of the area given as Bandjalangic differs from one map to the other. The dialect labeled Galibal is bisected by the line that divides the Upper Clarence from Middle Clarence. I use the dialect placements from Map 2 imposed on the classification of Map 3, per WL and Crowley (1978).

<sup>104</sup> I follow Wafer and Lissarrague (2008) and Crowley (1976) in recognizing two languages here.

<sup>105</sup> Classification based on the materials in Horgen (2004) and Wafer and Lissarrague (2008). Blake (2011b), Dixon (2002), Waker and Lissarrague (2008) and Horgen (2004) have 5 Lower Murray Languages. I also include Peramangk. This name is not mentioned by Wafer and Lissarrague and Horgen. Austlang says that classification is uncertain (AIATSIS code S5).

Note that Horgen's (2004) map is misleading, since it labels the area colored as Yitha Yitha as Mathi Mathi. I take location information primarily from Wafer and Lissarrague (2008) rather than Blake (2011b). Blake places Mathi Mathi on the Lachlan River and Yitha Yitha around Mildura, while Wafer and Lissarrague (2008) has Yitha Yitha on the Lachlan River and Yari Yari (a Mathi language) near Mildura. This also accords more closely with Horgen (2004). I give several dialect names for each language so as not to privilege one name above another.

106 Thanggatti is grouped with the Nganyaywana languages in Wafer and Lissarrague (2008). However, I did not find this evidence; in the BBA classification, Thanggatti is grouped solidly within Yuin-Kuri, while Nganyaywana did not clearly group with any particular subgroup or language.

- <sup>107</sup> That is, Hunter River-Lake Macquarie, per WL.
- <sup>108</sup> I follow Wafer and Lissarrague (2008:105) and Koch (pers comm) in using a four-way distinction between inland and coastal, and northern and southern to describe this complex dialect chain.
- <sup>109</sup> This is the language of the group known as Wandandian (cf. Eades 1976: 4).
- <sup>110</sup> See Wafer and Lissarrague (2008: 67) for the uncertainty surrounding the names and classifications of the Omeo vocabularies. I follow Wafer and Lissarrague in using the name "Omeo language" and Koch (pers comm to Wafer and Lissarrague) in classifying it as Yuin.
- <sup>111</sup> Note that the name Central NSW here in Dixon's formulation does not refer to the same languages as the Central New South Wales group established in other classifications.
- <sup>112</sup> Treated with Bigambal as own primary subgroup by Bowern.
- <sup>113</sup> Treated with Bigambal as own primary subgroup by Bowern.
- <sup>114</sup> Classification per Hercus (1987) and Clark (2005); see also Fesl (1985).
- <sup>115</sup> Map placement of these languages is uncertain. Blake (2011b) clearly treats both Pallanganmiddang (Waywurru here) and Dhudhuroa as only extending as far as the Murray River. Bowe (2002:134-8) says that Waywurru extended north of the Murray River ("east of

Albury"). See Wafer and Lissarrague (2008: 64-67) for issues around the naming of Dhudhuroa, Waywurru, Pallanganmiddang, and Yaitmathang.

- 116 This is the name of the language spoken by the Pallanganmiddang people.
- <sup>117</sup> Kulin in Wurm (1972)
- <sup>118</sup> See (Blake 2011a; Blake & Reid 1994). Note that the Victorian Aboriginal Corporation for Languages (VACL) has a somewhat different classification, organized partly by geography. See also Eira (Chapter 74, this volume).
- <sup>119</sup> Also called Gulidjan.
- <sup>120</sup> Werkaya is another name also used for these languages.
- <sup>121</sup> See Blake et al. (2011) for discussion. Hercus (1992b) gives three groupings of dialects for this area. Wafer and Lissarrague (2008) have different language placements in some areas. For example, Hercus (1992b) is clear that Wadi-Wadi is downstream of Swan Hill, whereas Wafer and Lissarrague's (2008:63) map places the name upstream. Hercus' (1986: 5) map of Baagandji (Paakantyi) and neighbours has Southern Paakantyi country extending as far South as Kureinji (that is, almost to the Murray River), whereas Horgen (2004) extends Mathi Mathi into that area. I have followed Hercus here, except that I also follow Blake et al (2011) in extending Mathi territory north of the Murray.
- <sup>122</sup> There are two different Wati-wati varieties: Swan Hill and Piangil, cf. in Blake et al (2011).
- <sup>123</sup> Also Baraba-Baraba.
- <sup>124</sup> In East Victoria in Bowern's classification.
- <sup>125</sup> Note that this is not a monophyletic group in BBA (2018) but is rather a set of subgroups which are not a stable phylogenetic group. However, they do share some features; for example, all the central subgroups have lost verb conjugation classes (cf. Brody 2020), though it is not clear whether this is a shared innovation, since other languages in the family have also lost them.

  <sup>126</sup> See Hercus and Austin (2004). While many language placements are as (at least approximately) according to Wafer and Lissarrague (2008), some placements were irreconcilable with other information (for example, concerning the placement of Wadikali and Pirlatapa).
- <sup>127</sup> Nadikali is presumably a typographical error for Wadikali.
- <sup>128</sup> See Simpson and Hercus (2004).
- <sup>129</sup> Wafer and Lissarrague's (2008) map of Paakantyi and Darling River varieties varies substantially from the map in Hercus (1986: 5). The locations given on this map are closer to

Wafer and Lissarrague's in most (but not all) respects. Hercus (1986: 8ff) gives five main divisions between varieties, which would seem to correspond to closely related languages (or different dialects). Wafer and Lissarrague (2008: Chapter 10) give two main divisions. I have probably over-differentiated varieties here.

- <sup>130</sup> See Hale (1962): classified as a branch coordinate with other "Aranda" (i.e. all except Kaytetye); see also Koch (Koch 1997a,b; Koch 2004b).
- <sup>131</sup> For the difficulties of classifying Karnic, see Breen (2007), responding to Bowern (2001).
- <sup>132</sup> Wangkumarra 'southerners' is both a specific name and a more general name for the people of this area. The geographical placement of Wangkumarra here is subject to some uncertainty. Hercus (1986) says that the Wangkumarra, Punthamarra and Kungadityu were the northern neighbors of Paakantyi people.
- <sup>133</sup> See Breen (1990b).
- <sup>134</sup> Classified as Maric by Bowern.
- <sup>135</sup> This classification is reproduced (with additions) from Angelo, D., O'Shannessy, C., Simpson, J., Kral. I., Smith, H. & Browne, E. 2019. *Well-being & Indigenous Language Ecologies (WILE): A strengths-based approach. Literature Review for the National Indigenous Languages Report, Pillar 2.* Canberra: The Australian National University. doi 10.25911/5dd50865580ea. Available from http://hdl.handle.net/1885/186414. : Appendix 2, pp. 115-116. There are no doubt other contact languages which are not in this classification, but which are yet to be documented.
- <sup>136</sup> See also Dickson (Chapter 57, this volume) and Angelo (Chapter 66, this volume).
- <sup>137</sup> See Angelo (Chapter 66, this volume) for more information.
- <sup>138</sup> Aboriginal English is shown on the map in North-Western Australia but it should be noted that there are many varieties of Aboriginal English to which the term 'heavy' could apply.