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the variety and complexity of Australian languages among Australians, there is also a widespread and increasing awareness and appreciation of them among so many. Attitudes have changed since the time W.E. Hanlon named his property with a Yugambeh name that was mocked at (reported in Hanlon 1935). Many queries come my way for a name for a child or property (not all from white Australians) from the language of the person's area. More people are choosing names from the language of the area to name their property. What is certain now is that study of Australian languages is a river that will not quickly run dry. We can look back on the Hale visits of 1959–60 and 1966–67 and the Hale–O'Grady collaboration in 1960 as very significant tributaries to the flood of work on Australian languages. We owe them a debt of gratitude.

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17 Karnic classification revisited

CLAIRE BOWERN

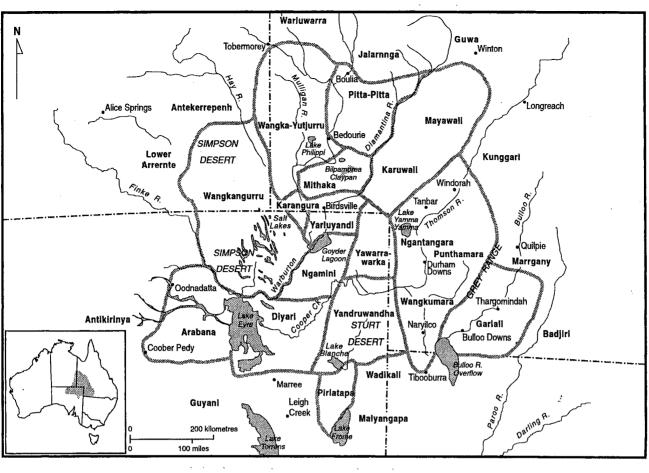
Introduction

The languages of the Lake Eyre Basin have been the subject of a number of classificatory studies this century. In Australia-wide surveys as early as Schmidt's (1919), the structural similarity of a number of these languages is noted and a name based on the word karna 'man' is used. O'Grady, Wurm, and Hale's (1966) map shows four Pama-Nyungan subgroups in the Lake Eyre Basin. Later studies such as Breen (1971) and Walsh and Wurm (1981) have added a layer in the family tree, grouping most of the languages spoken in the Lake Eyre Basin together as the 'Karnic' subgroup of Pama-Nyungan (and demoting O'Grady, Wurm, and Hale's Pama-Nyungan subgroups to subgroups within Karnic). Most recently, Peter Austin (1990a) published a classification of Karnic with approximately three hundred lexical reconstructions (and including some morphological reconstruction), and Hercus (1994) includes a family tree of the Karnic subgroup of Pama-Nyungan, based on, but not identical to, that of Breen (1971).

With this comparatively large body of classification already published, another article on the classification of Lake Eyre Basin languages may seem redundant. Yet while all the studies mentioned above recognise a subgroup 'Karnic', opinions differ greatly as to its composition. In earlier studies, the geographical area of the Lake Eyre Basin is usually described as containing three or four Pama-Nyungan subgroups, none apparently more closely related to another than to any other Pama-Nyungan subgroup. Breen (1971) is the first to recognise any strong genetic relations, but since his focus was on Western Queensland, his survey does not include the Western and Southern Karnic languages.² Austin (1990a) omits Arabana-Wangkangurru from Karnic and places the language as a subgroup-level isolate.

See Map 1 for the approximate location of the relevant languages. Boundaries and placement of language names are approximate and indicative only. In some cases one language name has been used as a cover term for several mutually intelligible dialects (see Table 1).

This should not at all be read as a criticism, more a comment as to why there is need for a study in genetic terms of the whole of Karnic as thorough as the one which Breen did of the geographical area of Western Queensland.



subgroup of Pama-Nyungan (§4 below) and in the evaluation of the affiliation of a number

Such evidence is used here in the consideration of the genetic status of Karnic as

the peripheral languages (§5.2). While lexicostatistical evidence will also be briefly

borrowed. These are suppletive paradigms (such as good, better), morphological irregularity gives a number of well-known morphological characteristics that are unlikely to

(for example, gaps in paradigms and irregular conjugation), and complete paradigms.

different languages, we must be careful that apparent similarities are not due to extensive rigorously demonstrated in each case. In areas of prolonged contact between speakers of historical linguists that genetic relationships must not be assumed, but must rather be

R.M.W. Dixon's (1997) The rise and fall of languages has done much to remind

Reconstruction, subgrouping and morphology

borrowing between otherwise unrelated (or distantly related) languages. Dixon (1997:22)

early survey work and meticulous collection of language data, as well as his thorough and Hale 1964, 1966, and 1976). Australianists are profoundly indebted to Ken Hale for his of Ken Hale and his classification and reconstruction of Cape York languages (for example,

lucid work on comparative and historical linguistics within Pama-Nyungan.

structure of Karnic.⁴ These reconstructions follow in no small way from the pioneering work belong to such a subgroup. Because of limitations of space, I omit arguments for the internal verbal) morphology (presented in detail in Bowern 1998). I aim here to present the evidence on the results of my reconstructions of proto-Karnic nominal (and to a much lesser extent

This paper³ contains a new classification of the languages of the Lake Eyre Basin, based

for Karnic as a genetic subgroup of Pama-Nyungan and delineate the languages which

morphological

primary evidence

for

the genetic classifications presented here

Curr (1886-87). Others are simply names on a map.⁶ The possibly Karnic languages not by Reuther (1891), Hale (1959), and Austin (1981), some languages are known only classification, due to lack of data. While Diyari has been the subject of detailed field studies extinct for a considerable period of time. There are thus a number of gaps in included here due to lack of materials are Birria (Pirriya),7 Pirlatapa;8 Kungkari through short wordlists from the nineteenth and early twentieth centuries, such as those in Almost all of the languages of the Lake Eyre Basin are now extinct, and some have

I thank Harold Koch, David Nash, Mary Laughren, and Barry Alpher for many useful comments on earlier drafts of this paper.

The intermediate subgroups of Karnic are discussed in detail in Bowern (1998).

This language should not be confused with the much better known Maric language, Biri, spoken The situation with the languages in the eastern part of the Lake Eyre Basin is particularly messy. I hope to clear this up at some time in the future

Map 1: Languages of the Lake Eyre Basin

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Data surveys

Much of the data on which the reconstructions are based are unpublished. I am very grateful to Luise they have so freely given me. Hercus and Gavan Breen for the data (unpublished field notes and personal communications)

group which was absorbed into the Yawarrawarrka. Yandruwandha word for uninhabited country (lit. 'camp-privative'). Alternatively (Howitt frequently in the classifications is Ngurawola. Breen's (1975b) informants analyse this as the Bitjara;11 Karangura;12 and Wadikali and Karenggapa.13 Another name which appears Kungatutyi;9 Karendala, Karuwali and Kulumali; Ngandangara;10 Tereila and Marulta, 1904:685), the name could be Ngurrawarla ('always-humpy') and referred to a separate

sufficiently similar to one another to be treated together here, are listed under the main sources. Dialect clusters for which only one dialect is known well, or whose members are Table 1 gives the languages considered in this classification, abbreviations, and relevant

Table 1: Languages and sources

Language and dialects	Major sources	Abbrev.
Pitta-Pitta (and Kunkalanya, Rakaya, Karanya, Ringuringu)	Blake and Breen 1971; Blake 1979; Roth 1897	PP
Wangka-Yutjurru (and Talimana, Lhanima)	Blake and Breen 1971; Blake 1979	
Arabana-Wangkangurru	Hercus 1994, n.d. b; Reuther 1891	Ara
Mithaka	Breen n.d. b	Mith
Ngamini (and Yarluyandi)	Breen n.d. c; Hercus n.d. e	Nga
Diyari (and Thirrari)	Austin 1978, 1981; Reuther 1891	Diy
Yandruwandha (and Yawarrawarrka, Nhirrpi)	Breen 1975a, 1995, n.d. e; Wurm 1958; Bowern 2000; Reuther	Yandr
Wangkumara (and Kungadutyi)	Breen 1967, n.d. d; Robertson 1984	Wang
Punthamara	Holmer 1988; McDonald and Wurm 1979; Breen 1967, n.d. d	Pun
Garlali	Breen 1967–78; Holmer 1988; Peter Hood pers. comm., March 1999	Garl
Badjiri	Mathews 1905 and n.d.; Breen n.d. a	Badj
Malyangapa	Hercus n.d. c; Austin n.d.	Maly

The few recorded sentences are thoroughly examined in Austin (1990b).

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4. Evidence for a Karnic subgroup

consider the evidence for a genetic subgroup in some detail. evidence for inclusion or exclusion will be discussed in §5. More basically, however, it is in contact, and there might never have been a protolanguage. It is therefore necessary to worth considering the evidence for the existence of a single language ancestral to the modern between the languages of the Lake Eyre Basin could be due to diffusion between languages Karnic languages. If the scenario postulated in Dixon (1997) is correct, then the similarities by some authors and excluded from the subgroup by others. These languages and the Some Lake Eyre languages are always classed as Karnic, while others are deemed Karnic

morphological innovations which all Karnic languages share). In §4.1 there is also a brief Nyungan (hereafter PPN) and proto-Karnic (PK) (thus implying that there are lexical and subgroup of Pama-Nyungan, and some reasons against viewing the Lake Eyre Basin as a survey of the lexicostatistical data languages which they share and which other Pama-Nyungan languages do not share. I will diffusion area with no genetic links. Evidence to be considered here involves features of the thus present reconstructions which show there to be innovations between proto-Pama-In this section I will present some of the evidence for considering Karnic a genetic

4.1 Lexicostatistics¹⁴

borrowing) or that the relationship is perhaps a genetic one. quite short (something we can rule out if we are assuming large-scale grammatical Figures higher or lower than this may indicate either that the period of contiguity has been material (under the assumption that loans are counted, together with common inheritances) for languages in a diffusion area is between 40 and 60 per cent (Dixon 1972:331-6). According to Dixon (especially 1972, 1997), the typical percentage of common lexical

thought to imply a long history of mutual borrowing according to the hypothesis that Dixon almost nowhere in the Lake Eyre Basin do we find lexicostatistical percentages which can be level of 50 per cent in Karnic are those for which the data are very meagre, such as for Malyangapa. Indeed, the great majority of cognate densities which approach the equilibrium and (non-Karnic) Warluwarra, and the 21 per cent between Ngamini and (non-Karnic) per cent between Yandruwandha and Yawarrawarrka, a mere 7 per cent between Mithaka Consider, for example, the cognate densities of 73 per cent between Diyari and Ngamini, 85 spoken in the Lake Eyre Basin, whether Karnic or not (see Table 2). Typically the cognate Yandruwandha and Mithaka (50 per cent) and for Garlali and Badjiri (56 per cent). So, density (lexicostatistical percentage) is either considerably higher or considerably lower. Now, we do not find a figure of around 50 per cent between many pairs of languages

Breen (1990:22-64). Data for Kungatutyi are too uncertain at present to make any further comments. spoken on the lower Barcoo and Thomson rivers. The small amount of recorded data are analysed in This is not the Southern Queensland Mari dialect (Breen 1971:31-3; Capell 1963) but a language

ö This was said by George Dutton (to Luise Hercus, 1968) and confirmed by the last Garlali speaker. Peter Hood (pers. comm., March 1999), to be a dialect very close to Wangkumara.

¹² (described by Breen 1973). Again, this should not be confused with the much better known Maric language of the same name

¹³ Malyangapa is the only language of this group for which there are enough data suitable for From the very few surviving data it would appear to be a dialect of Ngamini. For a thorough analysis of the meagre recorded information, see Hercus (1991) and Austin (1991).

The sources for the lexicostatistical percentages presented here are the percentages given in Breen (1971, 1990), using a 100-word list, my own counts from Breen's wordlists, and, for the languages not included in Breen (1971), the additional sources mentioned in Table 1.

Table 2: Lexicostatistical percentages 15

Warluwara	Warl											
HP	7	РP										
Arabana	13	35	Ara									
Mithaka	15	4	4	Mith								
Yarluyandi	œ	4 8	40	75	Yarl							
Ngamini	12	35	41	52	74	Nga						
Diyari	11	20	22	43	65	73	Diy			*		
Yandruwandha	6	37	27	50	67	50	56	Yandr				
Wangkumara	13	20	29	30	38	36	ઇ	38	Wang			
Malyangapa	00	16	29	30	21	21	33	23	35	Maly		
Badjiri	12	16	18	20	25	26	24	22	26	29	Badj	
Marigany	9	13	14	13	14	17	16	19	14	14	26	Z

grammatical features), where contact has been extensive (Hercus n.d. a and n.d. d). 16 very little contact, and yet it shares little with Lower Arremte (10% cognates, very few figure of 25%), a language with which Arabana-Wangkangurru speakers would have had shares many grammatical features with languages such as Wangkumara (and has a cognate correlation between contact and linguistic similarity. For example, Arabana-Wangkangurru have a lot in common. The Lake Eyre Basin, however, does not show any significant amount of contact between the speakers of different languages and the number of shared archaeological survey reported in McBryde (1987)). If all similarities between Karnic languages have had longstanding contact outside the Karnic area (see, for example, the features. Put simply, if Karnic is a linguistic area, the languages that make up Karnic should languages are due to diffusion, we would expect to find a strong correlation between the Furthermore, there are a number of well-documented areas where speakers of Karnic

extensive borrowing between languages, and that there may be some genetic basis for the warning that the relationships in the Lake Eyre Basin might not be simply the result of So, while the evidence from lexicostatistics is by no means conclusive, it should serve as a

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4.2 Innovations from proto-Pama-Nyungan

4.2.1 The lexicon

(see Table 3). This is good evidence that there have been innovations between PPN and PK. Proto-Pama-Nyungan and proto-Karnic differ in the reconstruction of core vocabulary

Table 3: Comparison of PPN and PK lexical reconstructions¹⁷

PPN	PK	English	PPN	PK	English
*kumpu	*purra	urine	*pangV	*paku	dig
*kami	*karyiri	mother's mother	*parnta	*marda	stone
*kutharra	*parrkulu	two	*parnti	*parthama	smell
*muka	*pampu	egg	*patha	*matha	bite
*nga-	*thayi	eat	*purlka	*pirna	big
*ngalirna	no category	ldl.excl.	*tharrV	*tharrka	stand
*ngatyi	*kami	mother's father	*thalary	*harli	tongue
*nguna	*parri	lie down	*paka	*paku	dig
*mu-	*nguntyi	give	*partu-	*karlathurra	turkey
*rhumpVIV	*mula	2dl	*kurka	*kimpa	alive, raw
*ryüna	*rgama	sit	*pangkarra	*kalta	blue-tongue

*kami, PK *kanyini 'mother's mother') and minor differences between the two stages (e.g. PPN *paka, PK *paku 'dig'; PPN *patha, PK *matha 'bite'). PPN *partu 'turkey', PK *karlathurra), semantic shift between PPN and PK (compare PPN The differences in vocabulary include complete replacement of the PPN item (compare

4.2.2 Morphology

The forms are given in Table 4. The reconstructed pronominal paradigms for PK and PPN are an appropriate place to start Better evidence for a strong genetic relationship, however, is innovation in morphology

² Languages names in bold are Karnic. All figures are percentages. Note that some of these figures may be revised when (and if) more accurate data become available. For example, because of gaps in the accurate than those between well-attested languages. data, the list for Mithaka contains only 66 items, and these percentages are therefore obviously less

and they note that "equilibrium figures are in general low enough that language classification can proceed using lexicostatistics as a pointer to a first approximation". If we take Alpher and Nash's Alpher and Nash (1999:7) propose an equilibrium figure of considerably less than Dixon's 50 per cent figures, the lexicostatistics presented in this section are better evidence for a genetic subgroup than

as voiceless (except, of course, in the Karnic languages with phonemic voicing contrasts) and there are suited to the phonemic contrasts in Karnic languages. The velar nasal is written ng, stops are written Capell (1963). The source for PK is Austin (1990a). A number of doubtful items have been omitted The sources for PPN lexical reconstructions are Koch (1996); O'Grady (1990); Dixon (1980), and from both lists. The orthography is that used in Hercus (1994), which is a practical orthography most three rhotics—the trill is written rr, the flap r and the glide R.

^{*}kami is preserved as another kin term 'father's mother' also reconstructable to DK

PPN	PK	Plural	PPN	PK	Dual		PPN	PK	PPN	R		PPN	PK	PPN	PK	Singular	
	Nom			Nom				Dat	 - -	Acc			Nom		Erg		
*ngana-	*ngana		*ngali	*ngali		*ngatyu ²²	*ngay + GEN/	*ngantya	*nganha	*nganha		*ngay	*nganyi	*ngay-DHu19	*ngathu		1st person
*NHurra	*nhura	·	*NHuNpalV	*nhula			*ngin + GEN	*nyunku	*ngin-nha	*nyuna		*ngin	*nyun	*ngin-tu	*nyuntu		2nd person
*THana	*thana		*pula	*pula			*nhu + GEN	*nhuku	*nhunha	*nhinha	*ngu	*NHu, ²⁰	*nhV	*NHulu	*nhulu		3 masc
ana	ä		2	2			*nhan + GEN	*nhanku	*nhana	*nhana	 	.*NHan ²	*nhan	*NHantu	*nhantu		3 fem

quite different from that reconstructed for PPN. The first-person singular paradigm also phonotactics of almost all the daughter languages).²³ The stages are outlined below: cluster, a change which is regular in Karnic (such clusters are not permitted in the pronouns within PK (Bowern 1998:71ff.). This form also shows dissimilation of a nasal Pama-Nyungan locative *-ngga. The PPN locative became the marker of dative in all form as *ngany-nga, which is the nominative stem and the proto-Karnic reflex of the protonominative cases. Internal reconstruction within PK leads to a reconstruction of the dative reveals a number of changes between PPN and PK, in particular the PK dative and the Of the pronominal stems, the most divergent is the second-person dual; this form in PK is

 Ξ Stage 1: *ngany-nga

Stage II: *ngany-ka

(dissimilation of nasal cluster)

*nganytya (assimilation of the nasal+stop cluster)

etymology for the dative relies on its existence in PK before the shift of the locative *nga to dative meaning. No etymology of the PK nominative *inganyi is possible at this time, although the

ancestral to all Karnic languages, than individually, in each daughter language. the word); clearly is it more likely that this change happened once, in a language which was by syncope of the unstressed syllable (stress at all stages of Karnic is on the initial syllable of The stem of the second-person dual, PK *nhula, is probably related to PPN *NHuNpalV

Dixon 1997:22). pronouns are more resistant to diffusion than lexical items (see Austin 1990a:177; Breen 1990:2), and secondly, suppletive paradigms are unlikely to be borrowed (see, for example, This is the best evidence for the existence of a genetic subgroup 'Karnic', since firstly,

4.3 Irregularities and suppletion in paradigms

briefly here (see Bowern 1998 for others). Karnic are a genetic group and not only a diffusion area. Two features are mentioned resistant to diffusion. This is thus very good evidence that the languages considered to be must assume the diffusion of a number of linguistic features which are normally quite appearance of common innovation. However, if such a scenario is assumed for Karnic, we possible that the forms could have diffused through the Lake Eyre Basin, giving the 'proto-Karnic', some comment should be made on the validity of such reconstructions. It is While the reconstruction of different paradigms provides evidence for the existence of a

Marrgany (no ergative, nominative nhula, accusative nhungunha) (Breen 1981:303). alternation between the stems nhu- and nhi- is not found outside Karnic in neighbouring analogical levelling in different directions in the daughter languages. Nonetheless, the languages such as Malyangapa (ergative nhundu, nominative nhunu, accusative nhunha) and levelling). The vowel of the stem of the pronoun is u in the ergative and i in the accusative. in many Karnic languages (apart from some dialects which have undergone analogical The nominative varies between i, u, and a; the original situation is unrecoverable because of The vowel of the third-person masculine singular paradigm shows the same irregularities

ergative, nominative and dative are unanalysable forms (*ngathu, *nganyi, *nganya), attributed to a set of languages is good evidence for a genetic relationship nganha, dative ngatyu; Kalkatungu ergative ngathu, absolutive ngai, dative ngatyi). The fact dative *ngantya. The forms under consideration are peculiar to the languages considered to whereas the accusative is built on a stem *nga- (*nganha). Oblique cases were added to the that not just single forms but whole paradigmatic relations can be reconstructed and *ngathu, absolutive ngai, dative ngatyu; Gunya no ergative, nominative ngaya, accusative be Karnic and do not occur in neighbouring languages (cf. Adnyamathanha ergative The paradigm of the PK first-person singular is built on a partially suppletive stem. The

4.4 Summary

a genetic subgroup. These are inherited irregularities and suppletion in paradigms and lexical shared genetic inheritance; quite the reverse, for borrowing and calquing have been extensive innovation. This is not to say that all similarities between Karnic languages are the result of I have discussed several different types of evidence which support the claim that Karnic

¹⁹ reflects an earlier **ngay-DHu; obviously *ngaDHu is almost identical to the form reconstructed for Dixon (1980) reconstructs *ngay-DHu; Dixon (1991) reconstructs *ngaDHu and suggests that this

⁸ the lamino-dental series in the languages with a phonemic contrast between th and ty. NH denotes that the nasal is lamino-dental in the languages with both nh and ny (and lamino-palatal in the languages with a single laminal series). See Dixon (1970, 1980:153-5). Likewise DH denotes

²¹ in the Eastern part of the continent, but see Bowern (1998:158-9) for cognates in Western languages and reasons for considering it of possible PPN antiquity. Dixon (1980) does not explicitly reconstruct a ferminine stem. Blake (1991) gives *nyan as the ferminine

²³ many languages surrounding Karnic (see forms quoted in this paper) The first is from Dixon (1980), the second from Koch (1997). Ngatyu or a similar reflex is found in

see Bowern 1998). Despite this, however, it has been possible to provide good evidence that in a number of areas, especially between Diyari and Yandruwandha, Yandruwandha and the genetic status of Karnic should stand. Karnic languages share a number of features that are normally resistant to borrowing. Thus Wangkumara, and Pitta-Pitta and the Warluwarric languages (for evidence and discussion

The composition of Karnic

of languages which have doubtful affiliations to the Karnic group. Various studies have controversial languages will be discussed other families, or as groups in their own right. In this section the evidence for each of the presented, the exact composition of the group still needs to be discussed. There are a number placed these languages in different families: either as subgroups of Karnic, as subgroups of While in the previous section the evidence for Karnic as a genetic subgroup was

5.1 Definitely Karnic

in all previous classifications. There is no space to present the evidence for subgrouping within Karnic; however the family tree is given in Figure 1 (from Bowern 1998). These languages are classed as Karnic

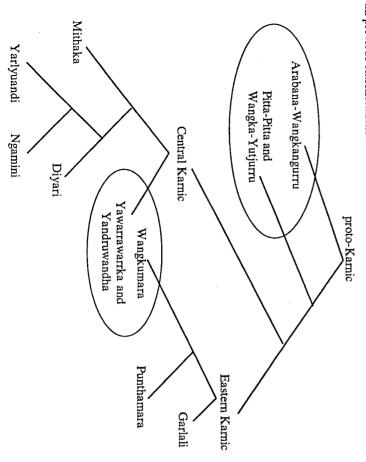


Figure 1: Family tree of Karnic

5.2 Doubtfully Karnic

5.2.1 The Yarli languages

while Yarli languages appear to share some features with Karnic languages, there are many fundamental points of difference (elaborated in Bowern 1998:30ff.). Table 5 lists these. reconstructed for Karnic (as well as a comparison with modern Karnic languages) shows that by Walsh and Wurm (1981), following Wurm (1972) and O'Grady, Voegelin, and are Austin (n.d.) and Hercus (n.d. c). These languages are deemed part of the Karnic group immediately to the south-east of the main Karnic group, contiguous with Pirlatapa, Voegelin (1966). A comparison of the morphology of these languages with that Yandruwandha and Wangkumara. The main sources of grammatical information on them The Yarli languages (Malyangapa, Wadikali, and Yardliyawara) were spoken

Table 5: Comparison of Yarli languages and proto-Karnic

	Malyangapa	proto-Karnic
Nominal dative	-dha	*-ku
Pronominal dative	-dha	*-nga
Locative	-nga	*- <i>la</i>
Ablative	-dyali	*-ngu
3sg pronoun	nhu-	*nhan (fem), *nhu (masc)

in the paradigm of the third-person singular (cf. the forms quoted in §4.3 above). be shown to have lost them recently). Finally, Yarli languages do not share the irregularities allomorph of the ergative (although not necessarily a reflex of *-ngu, the source of the Karnic languages either have masculine and feminine third-person singular pronouns or can languages show no signs of any of these changes. They also show no trace of gender (other homophony) as an ablative (cf. Arabana-Wangkangurru ablative/ergative -ru). Yarli *-ngku). Many languages conflated the ergative and ablative cases, but others preserve one homophony of the ablative (PK *-ngu < PPN *-ngu) and the ergative (PK *-ngu < PPN clusters were reduced to a nasal when preceded by an unstressed syllable. This resulted in the results from a very early (common Karnic) sound change in which homorganic nasal+stop not based on an allomorph of the ergative. This is a trait shared by all Karnic languages and the function of the genitive) is different from the dative in Karnic languages. The ablative is change which occurs in all Karnic languages. In fact, Malyangapa's dative (which covers Malyangapa does not share the shift of the locative case to the dative in pronouns, a

Yarli from a Karnic subgroup. Karnic, which do not include Yarli languages, that there are good reasons for excluding Yarli languages. However, there are sufficiently many innovations shared by the rest of Malyangapa does share with Karnic is the suppletive first-person singular paradigm ngadhu, minha 'what' and waRa 'who'. There seems to be no immediate connection between Yarli indicate the existence of an intermediate subgroup between PPN and PK which includes the nganyi, [nganyinha], [nganu] (compare the widespread PPN nominative *ngaya). This may languages and the languages of the rest of the Lake Eyre basin. One feature which found in many other parts of the country. Some of these similarities include the interrogatives Where these languages show similarities to Karnic languages, these similarities are also

5.2.2 Garlah

He had a preference for speaking Punthamara, and would do so even when asked for and Wangkumara speakers. For example, Charlie Phillips, the informant for McDonald and of different descriptions of Wangkumara and Garlali being published under the wrong sentences in Garlali.²⁴ Confusion as to the language spoken in elicitation has led to a number Wurm's (1979) grammar, was bilingual in Punthamara and Garlali (he was a Punthamara or Garlali country (see Breen 1971:12). No doubt there was frequent interaction between Garlali Queensland. Part of the confusion lies in the doubt as to the placement of Wangkumara and to a number of different languages once spoken in the far south-western corner of Wangkumara man but grew up in the area of Thargomindah, in modern Garlali country), The name 'Garlali' (also known in the literature as Kalili or Kullila) has been used to refer

study (for further justification and comparison of forms within the sources see Bowerr McDonald and Wurm (1979) while the Garlali accords with that recorded by Breen Punthamara and Garlali; his Punthamara is very close to the language described by neither Wangkumara nor Garlali, but Punthamara. Holmer (1988) contains data on both (1973/1974) and Bowern (1999). This is the correspondence of languages to data used in this 1998:33ff.).²⁵ McDonald and Wurm's (1979) Basic materials in Wangkumara (Garlali) is probably

common, and show a number of common innovations. Garlali also differs from its nearest Compare the forms shown in Table 6. neighbour for which data are available, that is, Badjiri (data from Mathews (1905)) Wangkumara and Garlali have a considerable amount of grammatical material in

Table 6: Comparison of assorted grammatical items in Badjiri, Garlali proto-Karnic and proto-Eastern-Karnic²⁶

		,		
Form	Wangkumara	Garlali	proto-Eastern-Karnic	Badjiri
3dl nom	pula	pula	*pula (PK *pula)	punipula
Case split	erg, nom, acc	erg, nom, acc	erg, nom, acc (PK erg, abs)	erg, abs
1sg nom	nganyi	nganyi	*ngayi (PK *nganyi)	ngayi (PPN
				*ngay)
3sg nom	nhu- (masc)	nhu- (masc)	nhu- (masc)	kuninha
acc	-nha	-nha	-nha (PK *ø)	-ø
•				

⁴ Hence the title of the book-Basic materials in Wangkumara (Garlali). This has been confirmed by the last speaker of Garlali, Mr Peter Hood (pers. comm., March 1999).

Form	Wangkumara	Garlali	proto-Eastern-Karnic	Badjiri
locative	-langa	-nga	<i>-nga</i> (nom), - <i>la</i> (pronom)	-la
nominal erg	masc -ngu, fem -ndru	-ngu	masc - ngu , fem $ind(r)u$	-lu
nominal dat	-nga	-nga	-nga (PK *-ku)	-ku
nominal	marked for	marked for	juxtaposition of pronouns	ø
nom	masculine and	masculine	to mark definiteness (see	
	feminine	and feminine	Bowern 1998:48ff., 104ff.)	

were attested unequivocally in both languages). (both languages are very incompletely described and these were almost the only forms which These items were selected because they are uncontroversial in both Garlali and Badjiri

morphological similarities with Wangkumara suggests that it is correctly included in the groups other than Karnic; for the moment, however, that Garlali shares suppletion and Karnic subgroup. reconstruction (or further data) may reveal that Garlali has closer affinities to language into Garlali, or vice versa, could have obscured original differences. Very detailed Karnic subgroup. It is possible, of course, that very heavy borrowings from Wangkumara subgroup. Garlali appears quite closely related to Wangkumara and part of the Eastern Thus it appears that we can not only group Garlali within Karnic but we can also state the

5.2.3 Badjiri

reported. Mathews' field notes are often illegible and also differ in places from the published tables are not given, although on several occasions it is mentioned that other forms have been not phonemic and can be difficult to interpret. The sketch grammar cites few forms-full Wurm (1981). The grammatical data in Mathews (1905) are ambiguous. His orthography is (1905) and Breen (n.d. a). Badjiri is included as Karnic by Breen (1971) and by Walsh and Badjiri was spoken immediately to the east of Garlali. Data on Badjiri are from Mathews

be classed as Karnic, given the lack of available data this must be considered a highly While it seems that Badjiri shares little morphology with its Karnic neighbours and should not morphology with other Karnic languages. Compare, for example, the present -na (PK *-yi). language, it is not an Eastern Karnic language. Badjiri also shares little (if any) verbal 6, and the classification of Badjiri can be given little further comment. If Badjiri is a Karnic tentative classification. Badjiri's most revealing nominal comparative data have already been presented in Table

5.2.4 Arabana-Wangkangurru

reconstructions are correct, then there is indeed good reason to doubt the Karnic affiliation shares none of the innovations from PPN that he reconstructs for PK. If Austin's part of the Karnic subgroup. His reasons are based on the fact that Arabana-Wangkangurru Austin (1990a) is thus far the only author to propose that Arabana-Wangkangurru is not

¹³ Gavan Breen has recently shown me data he recorded from a language which his informants called required on the linguistic situation in this area and the classification of 'Garlali' may later need to be quite distinct languages, spoken in approximately the same area, with the same name. More work is several other languages in the region, including Wangkumara and Kunggarri-that is, there are two collected from Peter Hood in 1999. It seems that we face the same situation for Garlali that exists for (1967-78), from what Holmer (1988) recorded, and from the 'Garlali' material Luise Hercus and I "Garlali" (part of Breen 1967-78). These data are quite different from other Garlali in Breen

²⁶ This is the intermediate enharoun of Kernio which also includes Wanakumara and Punthamara

of Arabana-Wangkangurru. The reconstructions in Bowern (1998), however, differ considerably from those in Austin (1990a). Table 7 lists some of the forms of major

Table 7: Comparison of reconstructions given in Austin (1990a) and Bowern (1998)

-nga	-ngka	dat
lu ~ ngu	li ~ ntu	erg
la ~ nga	no reconstruction	loc
*ngantya	*ngaka-	1sg dat
*ngana	*ngandra ~ *nganta	1pl inc nom
*nhan	*nhani	3sg fem nom
*nhuku	*nhungkarni	3sg masc dat
*nhu	*nhawu	3sg masc nom
Bowern	Austin	Gloss

exclude Arabana-Wangkangurru from Karnic either. The third-person singular in this earlier stem *ngantya, while *ngaka- has been shown in Bowern (1998:71ff.) to be result of singular dative with reflex of a stem *ngaka-, a stem which Austin (1990a:183) reconstructs innovation and that the old third-person pronouns, including remnants of a feminine stem suppletion or fusion. In Bowern (1998:160ff.) it is argued that this form is a recent because most of the pronominal paradigms in this language involve some degree of stem language is based on an invariant stem uka-; this stands out within Arabana-Wangkangurru (along with the Karnic language Wangka-Yutjurru), this is not a convincing reason to Arabana-Wangkangurru has no gender distinction in its third-person singular pronouns not convincing evidence on which to exclude Arabana-Wangkangurru from Karnic. While phonological and analogical changes within the dative pronominal paradigms. Thus this is languages (Diy, Nga, Yarl, Mith, Yandr); it does not occur in Pitta-Pitta, Wangka-Yutjurru, to PK. Also, there is no distinction in gender in the third-person singular in Arabanaresemblances of the pronouns. Arabana-Wangkangurru does not mark the first-person *nha(n), are preserved in deictic demonstrative stems. Wangkumara, or Garlali. These languages (along with Arabana-Wangkangurru) reflect an Wangkangurru. However, the dative stem ngaka- is an innovation in the Central Karnic Austin's primary evidence for not including Arabana-Wangkangurru as Karnic is the

example (1) above). Arabana-Wangkangurru has also undergone some grammatical cause of the first-person singular dative *ngantya (Arabana-Wangkangurru anth-; see restructuring as the result of PK sound changes (such as the reduction of nasal-stop clusters radical sound changes in the paradigms of pronouns with stems ending in nasals and is the PPN locative *-ngka (> PK *-nga) to mark dative in pronouns; this triggered a number of which are reconstructed to proto-Karnic. Arabana-Wangkangurru shares the change of the Moreover, Arabana-Wangkangurru appears to have participated in a number of changes

(Austin 1990a; Bowern 1998:43-4). mentioned in §5.2.1 above). Finally, Arabana-Wangkangurru has three rhotic phonemes [r], [r], and [4], a remnant of a distinction in voicing between the apical stops [t] and [d] in PK

Karnic are not convincing: Arabana-Wangkangurru is a part of the Karnic subgroup. Thus Austin's (1990a) arguments against the inclusion of Arabana-Wangkangurru ₽.

Conclusions

O'Grady, Voegelin, and Voegelin (1966) in excluding the Yarli languages and Badjiri, but it Wangkangurru and Garlali. is also more inclusive than Austin's (1990a) classification, which omits Arabanaidentical to any previous classifications. If differs from the studies of the 1960s such as The composition of the Karnic subgroup of Pama-Nyungan presented here is not precisely

the relative chronology of changes. suppletive and irregular paradigms and similarities between forms in whole paradigms, and has relied heavily on morphology (especially nominal and pronominal), the sharing of Part of the difference in classification is a result of the type of material used; this study

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²⁷ There is in Austin (1990a) no justification or explication of the relative chronology of the changes of the reflexes in the daughter languages provide support for his reconstructions, nor does he comment which are reconstructed, and no justification of these reconstructions. Austin does not show how any

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