Neuter gender in the languages of Aru

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Abstract
This paper examines gender agreement in three little-known languages of the Aru Islands and places them within the larger pattern of “neuter gender” in eastern Indonesia. For each language, I look first at the variety of agreement targets that are controlled by gendered nouns. Secondly, I look at the semantics of nouns that control agreement. I show that whilst having a strongly semantic base involving animacy, gender in Aru languages is a grammatical category in which many nouns denoting certain types of entities that lack discernable biological animacy are assigned to the same gender as that of animate referents. I conclude by considering the system of gender in proto-Aru.

Keywords
Nominal classification, neuter gender, Aru, Austronesian languages.

1. Introduction
Together eastern Indonesia and East Timor constitute a vast and diverse region in which many languages of different genetic affiliations and varied typological profiles reside. In his work Hein Steinhauer has been key in bringing to light many features of languages from across this region. One of the most notable findings is presented in Steinhauer (1985) where Biak [ISO 639-3: bhw]², an Austronesian language of Cenderawasih Bay, is first shown to contravene the following of Greenberg’s (1963) Universals:

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2. Throughout this paper, languages are cited with their ISO 639-3 codes. These codes are unique three-letter identifiers with comprehensive coverage of the world’s languages.

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Universal 37. A language never has more gender categories in nonsingular numbers than in the singular.

Universal 45. If there are any gender distinctions in the plural of the pronoun, there are some gender distinctions in the singular also.

Steinhauer (1985) shows that Biak possesses a gender distinction between animates and inanimates marked in the 3rd person plural but not the 3rd person singular of personal pronouns, verbal agreement prefixes, alienable possessive pronouns and demonstratives (see also Van Heuvel 2006).

Since Steinhauer (1985) our knowledge of the languages of the region has increased considerably and we now know of several languages which violate these proposed universals (for example, Dusner [ISO 639-3: dsn], Dalrymple and Mofu 2012; Windesi-Wandamen [ISO 639-3: wad], Gasser 2015; Nuaulu [ISO 639-3: nxl], Bolton 1990). It has also become clear that the gender distinctions we find in these languages are part of a broader areal pattern in which a “neuter gender” distinction is made in the 3rd person. In Schapper (2010), I identify many eastern Indonesian languages as having a “neuter” versus “non-neuter” gender distinction involving a binary division of referents into classes according to their position on the animacy hierarchy, with “neuter” defining a class of referents lower on the animacy hierarchy and “non-neuter” one higher up, much as in Biak.

At the same time, closer investigation of these systems has shown that they are often grammatical genders. Reference to the animacy hierarchy and the use of terms such as (in)animate and (non-)human in describing the genders gives the impression that gender assignment in these eastern Indonesian languages is entirely semantic. Yet, this is not the case. In Biak, for instance, animate agreement is taken by many nouns with inanimate referents such as alcoholic drinks, metals and items made from them, vegetable or animal products which are small in size and typically occur in quantities (Van Heuvel 2006: 101-102).

In this paper, I revisit the topic of eastern Indonesian neuter gender systems. Thus far treatment of the different systems, both in individual language descriptions and in comparative studies, has focussed on the agreement targets which nouns of “neuter” and “non-neuter” gender control respectively; little attention has been given to the actual assignment of nouns to genders beyond the broadest semantic labels. This paper looks at neuter gender assignment in three little-known languages of the Aru archipelago in eastern Indonesia. Until recently these languages had received little academic attention and the details of their agreement systems and gender assignment are only beginning to emerge now. I show that, similar to Biak, whilst having a strongly semantic base involving animacy, gender in Aru languages is a grammatical category in which many nouns denoting certain types of entities

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3 Worldwide this concentration is remarkable as very few exceptions to these universals have been identified, see Plank and Schellinger (1997).
that lack discernable semantic animacy are assigned to the same gender as that of animate referents.

This paper is structured as follows. In Section 2, I introduce the languages of Aru and briefly outline previous work on them. In Section 3, I look at the agreement systems and gender assignment of nouns in three Aru languages, Ujir, Kola, and Dobel. In Section 4, I conclude by comparing the different patterns of exceptional gender assignment in the Aru languages discussed and the occurrence of gender in proto-Aru, their common ancestor.

2. THE LANGUAGES OF ARU

Situated at the far eastern edge of Indonesian territory, the Aru Islands form a tightly knit archipelago of over a hundred islands in the Arafura Sea between New Guinea and Australia (Map 1).

Map 1. The Aru Islands in Southeast Asia.

There are fourteen languages spread across the Aru archipelago (Map 2). All belong to the Austronesian family. They constitute their own low-level sub-group, though the internal constituency of the subgroup is unclear (for instance, Collins 1982 and Hughes 1987 come to different conclusions about the sub-grouping of the Aru languages). The Aru sub-group has been tentatively assigned to the higher Central Malayo-Polynesian (CMP) subgroup (Blust 1993), but the existence of this group is far from secure (Donohue and Grimes 2008; Schapper 2011).
So little is known about the Aru languages that Blust (2009) in his 800-page handbook detailing the state of the art in Austronesian linguistics does not discuss them at all. Teams from the Summer Institute of Linguistics (SIL) have been working with speakers of Aru languages since the 1980s. Their work has resulted in several publications on three languages by themselves and others using their materials: Dobel (J. Hughes and K. Hughes 1989; Hughes 1995, 2000; Blust 2014), Kola (Y. Takata 1992; T. Takata and Y. Takata 1991a-b, 1992a-b; De Winne 2013), and West Tarangan (Nivens 1992, 1993, 2002). At the time of writing, there is, however, no thorough linguistic description or widely available documentation of any language of Aru.

3. GENDER IN ARU
Aru languages typically have a gender distinction marked in the following
domains: on verb agreement, on numerals, and on demonstratives. The basic gender distinction is one of animate versus inanimate. The systems in all languages have a strong semantic basis, that is, in most cases it is sufficient to know the meaning of a noun in order to determine its gender. However, in each language the basic semantic pattern is complicated by the inclusion of entities that lack discernable semantic animacy in the animate gender. The patterns for assigning nouns which lack real-world animacy to the animate class differ between languages, as do the agreements which they control. In the following sub-sections we will concentrate on the differences between three languages, Ujir (Section 3.1), Kola (Section 3.2), and Dobel (Section 3.3).

3.1 UJIR

Ujir [ISO 639-3: udj] is a language of North-West Aru traditionally spoken in two villages, Ujir and Samang. Today, Ujir is highly endangered, only being spoken by a very small percentage of inhabitants of the villages. The data used in this section come from my own fieldwork on Ujir, the recordings from which are being made available at The Language Archive (https://corpus1.mpi.nl/).

3.1.1 LOCUS OF GENDER MARKING

Ujir subject verb agreement is of two kinds, active verb prefixes and stative verb enclitics. 3rd person forms of both are given in (1). Of these, only the stative verb enclitics mark the animate-inanimate gender distinction. Active verb prefixes are invariably used with subjects of both genders.

\[
\text{Ujir 3rd person verb agreement} \\
\begin{align*}
\text{(1)} & \\
a. & \text{Active verb prefixes} \\
& \text{3sg } a- \text{ 3pl } da-
\end{align*}
\]

\[
\begin{align*}
b. & \text{Stative verb enclitics} \\
& \text{3sg.an } =na \text{ 3pl.an } =si \\
& \text{3pl.inan } =di
\end{align*}
\]

On stative verbs distinct agreement forms for the two genders are limited to the plural. Compare the agreement forms on the stative verb bangi ‘big’ in (2) when it is the predicate to the animate noun tamata ‘person’ (2a) versus the inanimate noun juma ‘house’ (2b).

\[
\text{Ujir 3rd plural stative agreement} \\
\begin{align*}
\text{(2)} & \\
a. & \text{animate subject} \\
& \text{Tamata bangi}=si. \\
& \text{person big}=3\text{pl.an} \\
& \text{‘The people are big.’}
\end{align*}
\]

Throughout this paper, small caps animate and inanimate are used in reference to the grammatical classification of nouns in Aru languages, while lower case “animate” and “inanimate” are used in reference to the real-world, semantic animacy of referents.
b. **INANIMATE subject**

\[
\begin{align*}
\text{Juma} & \quad \text{bangi} = \text{di}. \\
\text{house} & \quad \text{big} = 3\text{PL.INAN}
\end{align*}
\]

‘The houses are big.’

In the singular, subject nouns of **INANIMATE** gender do not take agreement on stative verbs, while **animate** subjects take =*na*. This contrast in marking is illustrated in (3) with the stative verb *joi* ‘cold’.

**Ujir 3rd singular stative agreement**

(3)  
\[
\begin{align*}
a. & \quad \text{**animate subject**} \\
\text{Oba} & \quad \text{lentu} \quad \text{joi} = \text{na}. \\
\text{child} & \quad \text{still} \quad \text{cold} = 3\text{SG.AN} \quad \text{‘The child is still cold.’}
\end{align*}
\]

\[
\begin{align*}
b. & \quad \text{**INANIMATE subject**} \\
\text{Waai} & \quad \text{lentu} \quad \text{joi}. \\
\text{water} & \quad \text{still} \quad \text{cold} \quad \text{‘The water is still cold.’}
\end{align*}
\]

**Ujir numerals also inflect to agree with the head noun of the NP in which they occur.** The 3rd person inflections occurring on numerals are identical to the agreement enclitics on stative verbs (4). The 3rd person plural **INANIMATE** inflection =*di* found on stative verbs, however, does not occur on numerals.

**Ujir 3rd person numeral inflection**

(4)  
\[
\begin{align*}
3\text{SG.AN} & = \text{na} \quad 3\text{PL.AN} = \text{si}
\end{align*}
\]

Numerals do not agree with nouns of **INANIMATE** gender. This is seen in comparing the (a) and (b) examples in (5) and (6). The enclitics are used for agreement with **animate** nouns: =*na* occurs on the numeral ‘one’ (5b), while =*si* occurs on all other numerals (6b).

(5)  
\[
\begin{align*}
a. & \quad \text{**tul** set} \\
\text{bone} & \quad \text{one} \quad \text{‘one bone’}
\end{align*}
\]

\[
\begin{align*}
b. & \quad \text{woytaw set} = \text{na} \\
\text{bird} & \quad \text{one} = 3\text{SG.AN} \quad \text{‘one bird’}
\end{align*}
\]

(6)  
\[
\begin{align*}
a. & \quad \text{**tul** dubu} \\
\text{bone} & \quad \text{six} \quad \text{‘six bones’}
\end{align*}
\]

\[
\begin{align*}
b. & \quad \text{woytaw dubu} = \text{si} \\
\text{bird} & \quad \text{six} = 3\text{PL.AN} \quad \text{‘six birds’}
\end{align*}
\]

The Ujir indefinite article, which historically was the numeral ‘one’ but has been replaced by *set*, shows a similar agreement pattern: *sia* is the **INANIMATE** form, while *sina* is the **animate** form, as illustrated in (7).
Ujir demonstratives are also marked for gender. In contrast to stative verbs, on demonstratives gender is distinguished in the singular but not in the plural (8).

Ujir demonstratives

| (8) | AN | INAN |
|-----|----|------|
| THIS | na | a | -- |
| THIS | nakin | akin | nasin |
| THAT | nel | el | nes |

The ANIMATE-INANIMATE contrast on demonstratives is illustrated with the distal “THAT” demonstrative in (9a) and (9b).

(9) a. Sia bisa a-ŋaw [tamata nel]NP a-ludi
who can 3SG-cause person THAT.An 3SG-remove na=ŋum?
3SG.POSS=cloth
‘Who can make that person remove his cloth?’

b. M-dasil [tel el]NP.
2SG-release rope THAT.INAN
‘Undo that rope.’

3.1.2 SEMANTICS OF GENDER ASSIGNMENT

Thus far the examples we have presented of Ujir gender agreement have used nouns whose grammatical gender coincides with the biological status of their referents. That is, we have only seen examples in which ANIMATE nouns refer to real-world animates, and INANIMATE nouns to real-world inanimates. At this stage relatively little is known about the principles of classification in Ujir and the observations that follow are preliminary.

The nouns with inanimate referents known to be classified ANIMATE include common material goods used in the home and garden, such as the high frequency sou ‘plate’, soru ‘axe’, tana ‘pot’ and jujur ‘spoon’. Their ANIMATE agreement is illustrated in the examples in (10).

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5 These are the demonstratives that currently occur in my corpus. The set should not be considered final; other members of the paradigm are likely to emerge with more work.
(10) a. **Sou nel ayawiku=na.**
plate THAT.AN dirty=3SG.AN
‘That plate is dirty.’

b. **Soru nel din=na**
axe THAT.AN heavy=3SG.AN
‘That axe is heavy.’

c. **Tana na esi=na**
pot THIS.AN empty=3SG.AN
‘That pot is empty.’

d. **Lujur nel a-mina ba?**
spoon THAT.AN 3SG-live where
‘Where is that spoon?’

**Animate** nouns of this type include many borrowed words, such as Malay *buku* ‘book’, *suling* ‘flute’, *bal* ‘ball’ and *cangkir* ‘cup’, illustrated in (11).

(11) a. **Buku nel a-fan**
book THAT.AN 3SG.AN-fall
‘That book fell down.’

b. **Suliŋ nakin da-inaw=na da-paki ful.**
flute THIS.AN 3PL-make=3SG.AN 3PL-use hair
‘This flute is made using hair.’

c. **Bola nel a-mina ba?**
ring THAT.AN 3SG-located where
‘Where is the ball?’

d. **Caŋkir nel a-basay ana seei ba?**
cup THAT.AN 3SG-cracked loc side where
‘The cup is cracked on which side?’

Nouns referring to many metal items are frequently classified as **animate**. Examples include *taŋtaŋ* ‘ring’, *kalawarwar* ‘bracelet’, and *rubil* ‘spear’, each illustrated in (12).

(12) a. **Tantayan nel a-mina ba?**
ring THAT.AN 3SG-stay where
‘Where is the ring?’

b. **Kalawarwar rua=si da-mina meja tuti.**
bracelet two=AN 3PL-stay table top
‘There are two bracelets on the table top.’
c. Rubil ka=si da-mina meja tuti.
   spear four=AN 3pl-stay table top
   ‘There are four spears on the table top.’

There are also nouns referring natural features or events classified as animate, including fat ‘stone, rock’, mareen ‘wave’ and kafkafal ‘cloud, illustrated in (13).

(13) a. Tel njiri sia a-mina fat sina tuti.
   rope piece INDEF.INAN 3SG-stay stone INDEF.AN top
   ‘A piece of rope is on top of a stone.’

b. Mareen lati=si da-ma.
   wave three=AN 3PL-come
   ‘There came three waves.’

c. Kafkafal nel a-mina ba?
   cloud THAT.AN 3SG-stay where
   ‘Where is that cloud?’

The noun kay ‘tree, wood’ has flexible classification. It is classified animate where it refers to a standing tree in its entirety, but where it refers to a piece of wood it is classified inanimate. This classification distinction is apparent in the agreement forms taken by kay in its two appearances in (14).

(14) Kay njiri sia a-tamari a-reoet kay ba~bangi
   tree piece INDEF.INAN 3SG-stand 3SG-lean tree RED~big
   sina.
   INDEF.AN
   ‘A piece of wood stands leaning on a big tree.’

Consistent with this, all compounds involving kay and referring to plant parts are classified inanimate, as in (15).

(15) a. Kay fu~fuay el a-mina ba?
   tree RED~fruit THAT.INAN 3SG-stay where
   ‘Where is the fruit?’

b. Kay wiri~wiri el a-mina ba?
   tree RED~root THAT.INAN 3SG-stay where
   ‘Where is the medicine (= root)?’

3.2 Kola
Kola [ISO 639-3: kvv] is the northern most language of Aru, dominating on
Kola Island and parts of northern and western Wokam Island. The language is vibrant with an estimated 7,000 speakers and many children among them (Lewis et al. 2014). The data used in this section is drawn from a variety of sources: the publications of the Takata SIL team (Y. Takata 1992; M. Takata and Y. Takata 1992a, 1992b), the dictionary manuscript of another SIL linguist, Richard Olson (n.d.), the Masters thesis of David de Winne (2013) using SIL materials and subsequent original fieldwork by him (also being archived at https://corpus1.mpi.nl/).

3.2.1 Locus of gender marking
Kola subject verb agreement forms in the 3rd person are presented in (16). Kola active verb prefixes do not mark the ANIMATE-INANIMATE gender distinction. Kola stative verb enclitics, however, show more limited gender marking than in Ujir with no distinct, contrastive ANIMATE versus INANIMATE agreement forms being available in the singular or plural.

Kola 3rd person verb agreement

(16) a. Active verb prefixes
   3SG a- 3PL da-

   b. Stative verb enclitics
   3SG.AN =ni 3PL =yi~di

Kola stative verbs agree with subject nouns of ANIMATE gender in the singular using =ni (17a), while INANIMATE singular subjects are not marked by any agreement form on the verb (17b).

Kola 3rd singular stative agreement

(17) a. ANIMATE subject
   Na ɸo rumau ahlah=ni
   3.POSS dog already big=3SG.AN
   ‘His dog is already big.’ (Olson n.d.)

   b. INANIMATE subject
   ɸalau akin ahlah.
   house THIS.SG.INAN big.
   ‘This house is big.’ (Olson n.d.)

Some Kola stative verbs are double marked for 3rd person singular, giving the superficial appearance of an ANIMATE-INANIMATE distinction. In the 3rd person singular disyllabic stative verbs with the shape (C)V(C)a(C) where V is not /a/ have an umlaut rule whereby the /a/ vowel becomes /i/. Examples are provided in Table 1. We see that the umlaut is not limited to the 3rd person singular of ANIMATE or INANIMATE gender but occurs in both forms of the verbs, and does not prevent regular marking of ANIMATE gender with =ni ‘3SG.AN’.
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**Table 1.** Kola stative verbs showing i-umlaut in the 3rd person singular.

In the plural Kola does not have the distinct agreement forms for the two genders as are found in Ujir. Instead, the forms =yi and =di appear to be lexicalised variants of one another. That is, on the vast majority of stative verbs a 3rd person plural subject is marked with =yi, but on some verbs it can be marked with either =yi or =di with no apparent difference in meaning. The stative verbs known to show this variation are given in Table 2.

| Root  | Gloss      | 3rd plural forms |
|-------|------------|------------------|
| arker | fierce     | arker =yi         |
|       |            | arker =di †      |
| digil | noisy      | digil =yi        |
|       |            | digil =di        |
| eta   | tall, high | eta =yi          |
|       |            | eta =adi         |
| mila  | fat        | mila =yi         |
|       |            | mila =adi        |
| muwai | nauseous   | –                |
|       |            | muwai =di        |
| raraf | feverish   | raraf =yi        |
|       |            | raraf =di        |
| reen  | clever     | reen =yi         |
|       |            | reen =adi †      |
| sooh  | dead       | sooh =yi         |
|       |            | sooh =di         |
| tare  | all        | tare =yi         |
|       |            | tare =adi        |
| yooh  | cold       | yooh =yi         |
|       |            | yooh =di         |

† These two inflections are only attested in the Langhalau dialect of Kola.

Table 2. Kola stative verbs with =yi or =di in 3rd person plural (data drawn from Olson n.d.).

6 De Winne (2013: 40) finds the agreement form =di but not =yi for 3rd person plural on stative verbs in M. Takata and Y. Takata (1991).
Kola numerals also inflect to agree with the head noun of the NP in which they occur. Table 3 presents the basic Kola numerals. We see that unlike Ujir gender marking morphemes on Kola numerals cannot be easily segmented, though an /i/ vowel is consistently associated with animate agreement forms: on consonant final inanimate inflections of numerals the corresponding animate forms are produced by the addition of /i/ finally, and; on inanimate inflections of numerals with final /a/, /a/ is replaced with /i/, in a process similar to the i-umlaut observed with stative verbs. Numerals ‘six’ and ‘seven’ also show irregular changes in their roots between animate and inanimate numeral inflections, while the animate agreement form of ‘one’ is marked by *ni*.

| INANIMATE | ANIMATE |
|-----------|---------|
| 1 ot       | otni    |
| 2 rua      | rui     |
| 3 las      | lai     |
| 4 kafa     | kafi    |
| 5 lima     | limi    |
| 6 dum      | dubi    |
| 7 dubam    | dubabi  |
| 8 kafarua  | kafarui |
| 9 tera     | teri    |
| 10 fuh     | fuhi    |

Table 3. Kola numerals (Y. Takata 1992: 52).

The different form numerals take depending on the noun they modify is illustrated with the numeral ‘five’ in (18).

(18) a. ɸuui lima  
fruit five.inan  
‘five fruits’  

b. ɸo limi  
dog five.an  
‘five dogs’

There is in fact reason to consider the numerals glossed here as inanimate as unmarked for gender, as in Ujir. Evidence for this comes from complex numeral expressions used for forming numbers higher than ten where only the right-most numeral agrees in animacy with the head noun it quantifies. This is seen with ‘twelve’ in (19): the agreement controller, *wowawa* ‘children’, is animate but of the two numerals (‘ten’ and ‘two’) used to form the complex numeral only ‘two’ has the expected animate form, but ‘ten’ takes the inanimate form. If the numerals used in agreement with inanimate nouns were really marked for inanimate gender we would not expect them to be able to occur in such contexts.
Kola demonstratives are also marked for gender. Kola has two sets of demonstratives, those that occur independent of a head noun ("pronominal demonstratives" in 20a) and those that are dependent on a head noun ("attributive demonstratives" in 20b). Whilst pronominal demonstratives distinguish ANIMATE-INANIMATE in the singular and plural, attributive demonstratives only make the gender distinction in the singular.

Kola demonstratives (Y. Takata 1992)

(20) a. Pronominal demonstratives

| SG    | PL    |
|-------|-------|
| AN    | INAN  | AN   | INAN |
| THIS  | (ne)nan| an   | ikar  | ikan |
| THAT  | nen   | en   | iker  | iken |

b. Attributive demonstratives

| SG    | PL    |
|-------|-------|
| AN    | INAN  |
| THIS  | na    | ka   |
| THAT  | ne    | e    | ke   |

The ANIMATE-INANIMATE contrast on Kola demonstratives is illustrated with the distal attributive "THAT" demonstrative in (21).

(21) a. Ak | ta | ku-ma | ku-so | [wawa ne]NP.
1SG  | FUT | 1SG-go | 1SG-see | child THAT.AN
‘I will go and see the child.’ (De Winne 2013: 11)

b. M-as ye na [utan e]NP?
2SG-plant what LOC garden THAT.INAN
‘What do you plant in the garden?’ (De Winne 2013: 11)

Yuko Takata’s (1992) analysis of demonstratives appears to be incomplete. Olson (n.d.) gives demonstrative forms that are not found in this publication, including: ana, ena, nakin, ekin, nekin, kekin, ikakin, kakin. Whilst the gender of these items is clear, their syntax and semantics remains for future work to clarify.

3.2.2 Semantics of gender assignment

Gender in Kola is a grammatical category but with a strong semantic basis. Y. Takata
(1992: 47-48) observes that ‘[a]lthough most nouns may be intuitively classified either as animate or inanimate, there are some exceptions: several nouns are grammatically classified as [animate] in Kola even though they would be scientifically classified as inanimate. Examples of these exceptions include ɸat ‘stone’, beda ‘machete’, and ʔasakh ‘basket’, which are each grammatically treated as belonging to the [animate] noun class in Kola.’ The examples in (22) illustrate the agreement behaviour of these animate nouns denoting inanimates.

(22) a. ɸat na dii=nį.
stone THIS.AN heavy=3SG.AN
‘This stone is heavy.’ (Olson n.d.)

b. Beda ne maŋin=nį.
machete THAT.AN sharp=3SG.AN
‘That machete is sharp.’ (Olson n.d.)

e. Nasaŋ ne ramau yali=nį a-ka nuh.
basket THAT.AN already full=3SG.AN 3SG-for coconut
‘That basket is already full with coconuts.’ (Olson n.d.)

These classifications appear to be part of larger patterns in the language which will be discussed and exemplified further in what follows.

Many man-made items are classified as animate in Kola. De Winne (2013: 12) records the animate nouns netak ‘axe’ and ʔawawuh ‘sago pounder’. To this list, Olson (n.d.) adds: aldala ‘gong’, buk ‘book’, daʃal ‘spear’, ʔah ‘basket for betel nut’, kiryan ‘mat’, laŋa ‘arrow’, mahian ‘hold of a ship/canoe’ sabuan ‘spit post’, sariba ‘knife’, suhat ‘letter’, tapigih ‘dish’, tubal ‘bowl’, and ʔilun ‘rudder’. However, the classification is not predictable; similar, though fewer, man-made items are classified inanimate such as: boban ‘bamboo scaffolding’, boka ‘canoe’, ɸanua ‘village’, ʔutah ‘cooking pot’, yala ‘road’.

Olson (n.d.) also records that Kola classifies several landscape features as animate: mah ‘river’, tabah ‘rocky land’, yaŋ ‘hill’, lopuh ‘kind of hole in the ground’, and hafa ‘water spring’. The examples in (23) illustrate this.

(23) a. Mah nekin ral=nį.
river THAT.AN deep=3SG.AN
‘That river is deep.’ (Olson n.d.)

b. Hafa ne na alral meter dubam.
spring THAT.AN 3SG.POSS depth meter six
‘That spring’s depth is six meters.’ (Olson n.d.)

c. Tabah nekin fal hayi.
rocky.ground THAT.AN ko.shellfish much
‘That rocky ground (has) a lot of shellfish.’ (Olson n.d.)
De Winne (2013) finds that some nouns referring to units of time are classified animate, as with the nouns *yam* ‘hour’ and *menit* ‘minute’ in (24).

(24) a. ... ko kama tiniñit ma-h-ϕayal fil yaw
   because 1pl.excl last.night 1pl.excl-intr-talk until
   *yam* lasi.
   hour three.an
   ‘... because we were chatting last night until three o’clock.’
   (De Winne 2013: 13)

b. Ku-yamuh naayyaw *menit* fuh mo limi.
   1sg-walk distance minute ten plus five.an
   ‘I walked about fifteen minutes on foot.’ (De Winne 2013: 14)

De Winne (2013) also observes that some of these appear to have variable gender classifications. For instance, compare the agreement of *ϕulan* ‘month/moon’ in (25). In (25a) *ϕulan* is animate as seen by the agreement on the numeral ‘four’, whereas in (25b) it is inanimate as seen by the agreement (or rather lack of agreement) on ‘one’. The difference here appears to be that animate *ϕulan* denotes a time duration as in the examples with *yam* and *menit* above, whereas inanimate *ϕulan* denotes a specific calendar month, in this instance, November.

(25) a. *ϕulan* e a-min e *ϕulan* kafi.
   house that.inan 3sg-stay that.inan month four.an
   ‘That house has been there four months.’ (De Winne 2013: 13)

b. Takan a-yuf ban *ϕulan* fuh mo ot
   usually 3sg-blow from month ten plus one
   ‘The west wind usually starts in month eleven (that is, November).’
   (De Winne 2013: 14)

Plants and their parts have more labile gender classifications in Kola, with a part-whole distinction in reference determining whether the noun is treated as animate or inanimate. For instance, Olson (nd.) notes that ‘[a] mango tree is [animate] but a piece of mango is [inanimate]’. In (26) *wee* ‘mango’ is treated as animate where reference is to the tree (whole) being in a state of flowering (26a), it is inanimate where reference is to the fruit (part) being sour (26b).

(26) a. *wee* ne a-h-beba.
   mango that.an 3sg-intr-flower
   ‘That mango is flowering.’ (Olson n.d.)

b. *wee* aimayih *ekin* a-manolau
   mango young this.an 3sg-sour
   ‘This unripe mango is sour.’ (Olson n.d.)
Similarly, the noun kai ‘tree’ can have variable classification depending on whether reference is to the part or the whole. In (27a) kai refers to the tree as a whole living organism and is classified animate. In (27b) kai refers to a portion of the tree which has dried out and fallen off and is classified inanimate.

(27) a. Kai nekin ramau haf=ni
   tree THIS_AN already ailing=3SG_An
   ‘That tree is already dead.’ (Olson n.d.)

b. Kai bodil ekin ramau a-ɸan.
   tree dry THIS_AN already 3SG-fall
   ‘This dried (piece of) wood has already fallen.’ (Olson n.d.)

3.3 DOBEL

Dobel [ISO 639-3: kvo] is spoken in central-eastern Aru, occupying the entire east coast of Kobror Island, as well as having smaller numbers of settlements inland on Kobror, on both sides of the Barakai Straits, and on Wokam island (Lewis et al. 2014). The language is strong and increasing in numbers of speakers, being even learnt by outsiders who live in Dobel villages. The data used in this sketch come from both published and unpublished data of Jock Hughes, a linguist with the Wycliffe organization who has worked for several decades on language issues and bible translation with the Dobel.

3.3.1 LOCUS OF GENDER MARKING

Subject-verb agreement in Dobel involves active verb proclitics and stative verb enclitics. 3rd person forms are given in (28).

Dobel 3rd person verb agreement (Hughes 2000)

(28) a. Active verb proclitics
   3SG ʔa= ~ na= 3PL  da=

b. Stative verb enclitics
   3SG.An  =ni  3PL  =ye~=di
   (3SG,AN V/ _#-i)

Similar to the systems we have already seen in Ujir and Kola, Dobel differentially marks nouns of animate-inanimate gender distinction on stative verbs. For instance, on soba ‘good’, animate tamatu ‘person’ agrees with the verb (29a), but inanimate k solemn ‘house’ does not (29b).

Dobel 3rd singular stative agreement

(29) a. animate subject
   Tamatu ne s~soba=ni.
   person DEM red~good=3SG_An
   ‘That person is good.’ (Hughes 2000: 139)
b. **INANIMATE subject**

\[K^a\text{lar } ne s\text{-}soba.\]

house DEM RED~good

‘That house is good.’ (Hughes 2000: 139)

On a selection of disyllabic stative verbs, the second vowel (usually /a/) umlauts to /i/ with singular **INANIMATE** subjects. This is similar to the i-umlaut observed in Kola, but is distinct in picking out only **INANIMATE** nouns. Examples are presented in Table 4.

| 1SG   | loʔar ‘good’ | manjan ‘sharp’ |
|-------|-------------|----------------|
| 2SG   | loʔar=ʔa    | manjan=ʔa      |
| 3SG.INAN | loʔir     | manjin         |
| 3SG.An | loʔar=ni    | manjan=ni      |
| 1PL.INCL | loʔar=da   | manjan=da      |
| 1PL.EXCL | loʔar=ʔama  | manjan=ʔama    |
| 2PL   | loʔar=ʔami  | manjan=ʔami    |
| 3PL   | loʔar=ye    | manjan=ye      |

Table 4. Dobel stative verbs showing i-umlaut in the 3rd person singular.

Dobel numerals also inflect to agree with the head noun of the NP in which they occur. Numeral inflection shows a three-way division in the 3rd person: **HUMAN**, **ANIMATE**, and **INANIMATE**. The agreement forms appearing on numerals are given in (30).

Dobel 3rd person numeral inflection (Hughes 2000)

(30) **HUM** =ye **AN** ʔay=

When quantifying a noun with a human referent, the numeral is marked with the enclitic =ye, identical in form to the 3rd person plural agreement form appearing on stative verbs (31a). When quantifying an **ANIMATE** noun with a non-human referent, the numeral is marked with the proclitic ʔay= (31b). Finally, when quantifying an **INANIMATE** noun, the numeral is unmarked (31c).

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7 Jock Hughes (personal communication) notes that sometime instead of an i-umlaut he finds an u-umlaut in Dobel. For instance, sometimes one dialect has <i> and another has <u> thus: rakwar ‘bright, light’ inflects rakwar=ni in all dialects, but rakw<u>r in the Kojabi dialect and rakw<i>r in Warjukur.
Dobel numeral agreement (Hughes 2000: 139)

(31)  

a. **HUMAN**

\[ \text{tamatu} \; \text{ʔawa}=\text{ye} \]

person four=HUM

‘four people’

b. **ANIMATE (non-human)**

\[ \text{k}\text{øyar} \; \text{ʔay}=\text{ʔawa} \]

dog AN=four

‘four dogs’

c. **INANIMATE**

\[ \text{k}\text{ałar} \; \text{ʔawa} \]

house four

‘four houses’

Unlike other Aru languages, Dobel demonstratives are not marked for the **INANIMATE-ANIMATE** distinction (contra Hughes 2000), but marks a mass-count distinction (Jock Hughes personal communication).

### 3.3.2 Semantics of gender assignment

The various publications of Jock Hughes make it clear that, as in the other languages in Aru, gender agreement in Dobel is a matter of lexico-grammatical rather than semantic classification of animates and inanimates. The examples in (32) show ANIMATE nouns with inanimate referents indexed by the ANIMATE agreement marker =ni. The examples in (33) show nouns with inanimate referents and whose INANIMATE classification is apparent from the lack of an agreement marker on the verb.

**Examples of Dobel ANIMATE nouns with inanimate referents**

(32)  

a. **yiram** ‘axe’

\[ \text{Yiram} \; \text{ne} \; \text{ʔom}=\text{ni} \; \text{ʔa}=\text{♭}~\text{fan} \; \text{re} \]

axe REL 1SG:CAUS=3SG:AN 3SG=RED~fall LOC

\[ \text{koytul}=\text{ni} \; \text{ʔona’lay}. \]

sink=3SG:AN indeed

‘The axe, which I dropped the[re], did indeed sink.’ (Hughes 2000: 177)

b. **ʔadera** ‘chair’

\[ \text{ʔadera} \; \text{ne} \; \text{m}=\text{t}~\text{talar}=\text{ni} \; \text{mona}=\text{ni}. \]

chair REL 2SG=RED~sit=3SG:AN old=3SG:AN

‘The chair on which you are sitting is old.’ (Hughes 2000: 177)
Examples of Dobel inanimate nouns with inanimate referents

(33)  a.  ser’ tay ‘clothes’

ʔamu ser’ tay maray.

2SG.POSS clothes dry

‘Your clothes are dry.’ (Hughes 2000: 172)

b.  daba ‘canoe’

Daba ne sayi.

canoe DEM.REL long

‘That canoe is long.’ (Hughes 2000: 170)

Hughes (n.d.) contains a list of 142 animate nouns with inanimate referents, allowing for the most comprehensive treatment of the semantic patterns in the animate classification of inanimates for any Aru language. Hughes (n.d.) observes that semantics plays a significant role in the classification of plant and animal parts: “[A]ll whole animate objects (humans, animals, and plants) are in the [animate] class. Some parts of animate objects are [inanimate] class, for example, the names of tree species are animate, but their fruits are inanimate, so: nor (animate) ‘coconut tree’ and nor (inanimate) ‘coconut’”. In addition, what we see is that the assignment of nouns referring to inanimates to the animate gender is not entirely random; animate nouns with inanimate referents are not typically semantically isolated instances within the animate gender, but rather cluster into sets with semantically similar members.

Dobel classifies certain landscape features as animate. The Dobel animate landscape nouns can be classified into two broad sets of items: (i) bodies of water occurring in nature and their movements (Table 5) and (ii) rocks, rock formations, and formations of built up earth (Table 6).

| taw       | ‘pool formed by a river flooding’ |
| salin     | ‘channel in a river or estuary’   |
| soful     | ‘pool of sea-water which is entirely surrounded by land’ |
| k*atu     | ‘strait (sea channel between island)’ |
| bal       | ‘pool caused by rainwater’         |
| k=ar’ʔol | ‘swamp’                           |
| yeʔlay    | ‘gulf, bay’                        |
| ‘ʔoʔatu   | ‘bay’                              |

Table 5. Dobel animate nouns referring to natural bodies of water and their movements (data from Hughes n.d.).
Table 6. Dobel *animate* nouns referring to rocks, rock formations, and formations of built up earth (data from Hughes n.d.).

A small number of nouns referring to naturally occurring objects situated in the sky or air are *animate*. These are *keway* *φφρ* ‘Venus (the planet)’, *takewn* ‘star’, *tubuwa* ‘rainbow’ and the semantically similar *rakwar* ‘brightness, light’, as well as *taphal* ‘black cloud, tornado’, *balowan* ‘storm cloud’, and *sabun* ‘steam’.

Many aspects of material culture receive *animate* classification. A large number of common items used in the garden and house are included in this set. Table 7 sets the *animate* nouns of this type from Hughes (n.d.).

Table 7. Dobel *animate* nouns referring to gardening and domestic items (data from Hughes n.d.).
Prominent semantic subsets of animate nouns are boat parts and items used in hunting and fishing. Table 8 sets out the 21 animate boat part nouns and Table 9 the 15 animate hunting/fishing nouns from Hughes (n.d.).

| Dobel Nouns | English Description |
|-------------|---------------------|
| bbuwar | ‘wheel in a pulley’ |
| ddow | ‘stopper or plug (used to plug a hole in a boat used for letting water out)’ |
| φasan | ‘oar (used for rowing a boat, not paddling it)’ |
| φeri | ‘paddle (used for paddling a boat)’ |
| kʷulun | ‘rudder (of boat)’ |
| liyan | ‘mast (of a boat)’ |
| loba’tay | ‘outrigger of canoe’ |
| lolin | ‘pulley, block’ |
| ‘malatu | ‘adze; main sheet on boat (= the rope that pulls the mainsail)’ |
| mona’nay | ‘front pole of tripod mast’ |
| seliφur | ‘sago thatch roof for a canoe’ |

Table 8. Dobel animate nouns referring to parts of boat, canoe (data from Hughes n.d.).

| English Nouns | English Description |
|---------------|---------------------|
| padasa | ‘arrow or spear made of bamboo with barbs’ |
| butal | ‘spear’ |
| dafal | ‘spear’ |
| ‘minaʔu | ‘gun’ |
| yina | ‘small arrow made from dried sago leaf’ |
| wurfedi | ‘sign left to indicate an animal taken from a trap’ |

Table 9. Dobel animate hunting/fishing nouns (data from Hughes n.d.).
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 分类：词汇

| 詞語 | 意義 | 詞語 | 意義 |
|------|------|------|------|
| ṣuli | ‘hide wall for hunting pigs’ | wusar | ‘fish spear’ |
| taman | ‘tree house/hide (used for shooting birds from)’ |

† Also means for ‘spoon’
‡ Also means for ‘earthquake’

Table 9. Dobel ANIMATE nouns referring to items used in hunting, fishing (data from Hughes n.d.).

Smaller subsets of animate nouns given in Hughes (n.d.) are musical instruments (Table 10) and house parts (Table 11).

| Dobel | Meaning |
|-------|---------|
| bboŋu | kind of gong |
| ddala | kind of gong |
| ṣili | bell |
| ṣyula | flute |
| saramina | kind of gong |
| sitar | kind of skin drum |

| Dobel | Meaning |
|-------|---------|
| llajan | beam (for example in a house) |
| ribil | door bolt (large wooden pole across door) |
| ṭtuʔa | wooden upright (in house construction) |
| yay’tan | crosspiece in house construction |
| yana | house stilt |

Table 10. Dobel ANIMATE nouns referring to instruments (data from Hughes n.d.).

Table 11. Dobel ANIMATE nouns referring to house parts (data from Hughes n.d.).

4. Discussion: Neuter Gender in Proto-Aru

The three Aru languages discussed in this paper show easily discernable similarities in their agreement systems and in their assignment of nouns to genders. These can be seen to point back to grammaticalized neuter-gender distinction being present in their common ancestor, proto-Aru. In this section, I consider what the details presented from Ujir, Kola, and Dobel tell us about the proto-system of gender marking.

The agreement system of proto-Aru appears to have marked an ANIMATE-INANIMATE gender distinction on stative verbs, but not on active verbs as is the case in all three modern languages considered here. In the singular, nouns of INANIMATE gender were unmarked on the verb, while ANIMATE ones were. Already in proto-Aru, there was a stative enclitic *n(i,a) marking 3rd person ANIMATE singular. The 3rd person INANIMATE singular appears to be have originally not been entirely unmarked, but on some nouns was indexed in proto-Aru by means of an infix *<i>, such as is found fossilised in many roots in Dobel for INANIMATE 3rd person singular and in Kola for 3rd person singular of both genders. In the plural, nouns of INANIMATE gender were unmarked on the verb with *s(i,e) and ANIMATE ones with *di. This distinction is maintained in Ujir, but lost in Kola and Dobel. The different stative agreement forms in
the 3rd person plural in Kola and Dobel, however, represent the remnants of the earlier \textit{animate-inanimate} gender distinction in the plural.

On numerals, proto-Aru also marked gender. Numerals agreeing with \textit{inanimate} nouns were unmarked, while those agreeing with \textit{animate} gender were marked. The form of the marking is not entirely clear: Ujir and Dobel indicate that it had the form */s(i,e)*, while Kola suggests a form */i<i>/. Dobel is unique in the Aru languages in having elaborated gender marking on numerals by innovating the morpheme */ay=*, marking non-human \textit{animate} nouns and restricting its reflex of */s(i,e)*, */ye*, to nouns with human referents.

Proto-Aru demonstratives were marked for gender. A comparative analysis of the forms indicate that */n-* was used to mark \textit{animate} gender on demonstratives, whilst its lack indicated \textit{inanimate} gender. Again, Dobel is innovative having reinvented the \textit{animate-inanimate} distinction as a mass-count distinction in which originally \textit{animate} forms mark count nouns and \textit{inanimate} forms mass nouns.

Comparison of the three modern languages discussed here also gives some clues as to patterns of assignment to genders in the proto-language. Whilst many of the details of gender classifications vary from language to language, already in proto-Aru it appears that the \textit{animate} gender included nouns referring to inanimates. This is suggested by the observation that certain inherited nouns referring to inanimates are consistently classed as \textit{animate} across the modern languages. These include nouns such as reflexes of Proto-Austronesian */batu* ‘stone’ and */ma-qalun* ‘wave, billow’. Variable assignment of nouns with plant referents to \textit{animate} or \textit{inanimate} depending on whether reference is to the part or the whole is also shared across the Aru languages and presumably goes back to proto-Aru. For other nouns, the modern varience in gender assignment reflects different classificatory tendencies in operation in individual languages post-dating the breakup of proto-Aru. For instance, Rick Nivens (personal communication) observes changes to classifications in the \textit{animate} gender in West Taragan: “A lot of Malay loans are (or were) in the [\textit{animate}] class, irrespective of their actual animacy. (It seems, though, that younger speakers have made a lot of the ‘actually inanimate’ ones grammatically [\textit{inanimate}] too).”

In short, Aru languages have systems of gender comparable to that uncovered by Hein Steinhauer in his pioneering work on Biak. This paper goes a small way to bringing to light some of the characteristics of Aru gender systems.
ABBREVIATIONS USED

1 : first person
2 : second person
3 : third person
AN : animate
C : consonant
CAUS : causative
CLF : classifier
CMP : Central Malayo-Polynesian
DEM : demonstrative
EXCL : exclusive
FUT : future
HUM : human
INAN : inanimate
INCL : inclusive
INDEF : indefinite
INTR : intransitive
LOC : locative
NP : noun phrase
NUM : numeral
POSS : possessive
PL : plural
RED : reduplication
REL : relative
SG : singular
V : vowel

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