An Innovated Possessor Suffix and Category in Central Choiseul

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Oceanic languages typically display possessor-indexing suffixes that distinguish the usual four Oceanic person categories, along with at least singular and plural. However, a group of languages of central Choiseul (Solomon Islands), including Ririo, Babatana, and Sisiqa, display only three possessor-indexing suffixes. Two reflect Proto-Oceanic forms and index 1SG and 2SG possessors. The third, an innovated form, indexes all other person number categories (that is, 3SG and all nonsingular categories). This paper investigates the formal and structural characteristics of this innovated non-1/2SG suffix. It examines the phenomenon in each of the three languages, including allomorphy of the suffix, and the manner in which person and number categories are expressed in the presence of the innovated suffix. In terms of the former, it finds each language displays different allomorphy patterns, with both -e and -a occurring, along with -i when following a high vowel. Various other factors are at play in one or more languages, including vowel harmony and presuffix vowel loss. In terms of the coding of non-1/2SG person and number categories, the paper finds that the innovated suffix licenses a possessor NP that may contain a lexical noun or dependent pronoun. However, in the absence of an overt possessor NP, the suffix prompts a default 3SG reading.

1. INTRODUCTION. 1 Oceanic languages typically display a direct possessive construction in which a set of suffixes attach to a possessum noun to index the person and number of the possessor, and an indirect construction in which the same set of suffixes attach to a possessive classifier. These suffixes typically distinguish the usual four Oceanic person categories 1st exclusive, 1st inclusive, 2nd, and 3rd, along with at least singular and plural (Lynch, Ross, and Crowley 2002:35–36). This means that they typically display separate suffixes distinguishing 3SG and each of the person categories in plural. This “standard average Oceanic” system is a direct reflex of the system reconstructed for Proto-Oceanic (POc) (Ross 1988:112; Lynch, Ross, and Crowley 2002:67–68,75–76). However, a group of languages spoken in central Choiseul in the Solomon Islands displays an innovated possessor category and suffix expressing it that indexes all possessors other than 1SG and 2SG in the direct construction. This innovated suffix expresses 3SG and all nonsingular categories, with a separate dependent pronoun or lexical NP further specify-

1. I am grateful to Stephen Logan, John Lynch, and Malcolm Ross for comments on this paper. Any errors remain mine.
The west Choiseul languages Varisi and Vaghua display a set of singular possessor-indexing suffixes that regularly reflect POC forms, as does the communalect Avasö, located at the southeastern tip of the island. As table 1 shows, these include a dedicated 3SG.PSSR form -na. The communalects of central and eastern Choiseul (excepting Avasö), however, display an innovated suffix appearing as -a or -e that occurs with 3SG possessors, but also occurs with possessors of all person/number combinations other than 1SG and 2SG. This will be referred to here as a non-1/2SG possessor suffix, or N1/2SG.PSSR. Data in Tryon and Hackman (1983:295) show this occurring in Babatana, Ririo, and communalects they identify as Tunöe and Lōmaumbi, and apparently also Katazi. Ross (2002:458) shows Sisiqa displaying the same innovated form. On the basis of their lexicostatistical comparison, Tryon and Hackman (1983:451) identify Babatana, Sisiqa (as Sengga), Tunöe, and Katazi as dialects of a single language they call Central-East Choiseul (1983:32). Ross (1988:216–17) also treats these as dialects of a language he calls East Choiseul, but he includes Avasö in this grouping, although he does not give an explanation for this revision of Tryon and Hackman’s classification. In subsequent work, Ross (2002:456) concludes that Sisiqa is sufficiently distinct from Babatana to warrant being regarded as a separate language.

The innovated N1/2SG.PSSR form under discussion here is, therefore, found in a grouping that will be referred to here as “central Choiseul,” an areal grouping comprising the languages Ririo, Babatana, and Sisiqa, along with the communalects Tunöe, Lōmaumbi, and Katazi. No claim about the internal phylogenetic structure of the Choiseul subgroup is intended by this, and no claims are made here about the dialect status of Tunöe, Lōmaumbi, and Katazi with respect to each other or the other varieties. No data are available for Tunöe, Lōmaumbi, and Katazi other than what is presented by Tryon and Hackman, so the discussion here is confined to an investigation of the N1/2SG.PSSR suffix in Babatana, Sisiqa, and Ririo.

2. THE INNOVATED SUFFIX IN INDIRECT POSSESSION. Oceanic languages typically display an indirect possessive construction in which a separate form referring to the possessor precedes the noun. In the “standard average Oceanic” system,

<table>
<thead>
<tr>
<th>POC</th>
<th>1</th>
<th>2</th>
<th>3</th>
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<tbody>
<tr>
<td>Varisi</td>
<td>-gu</td>
<td>-mu</td>
<td>-ña</td>
</tr>
<tr>
<td>Vaghua</td>
<td>-gə</td>
<td>-mu</td>
<td>-na</td>
</tr>
<tr>
<td>Avasō</td>
<td>-gu</td>
<td>-mʊ</td>
<td>-na</td>
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the indirect possessive form is a relational classifier (Lichtenberk 1983) that distinguishes at least consumed (CONSPOSS) and general (GENPOSS) alienable possession, and carries the same suffixes found in the direct construction, distinguishing the same four person categories and at least two number categories (Lynch, Ross, and Crowley 2002:77–79). This construction occurs in all three languages under discussion here. However, only Babatana has retained a distinction between general and consumed possession. In Sisiqa and Ririo, that distinction has been neutralized and a single paradigm of indirect possessor forms occurs in each language. In all three languages, possessor-indexing forms specific to the indirect construction occur only with singular possessors, shown in table 2. Plural possessors are expressed by dependent pronouns, following the pattern described for Babatana in section 3 below. Of the three languages, the innovated suffix occurs in indirect possession only in Babatana. The Sisiqa 3SG form displays the only relic of the POC 3SG.PSSR suffix attested in any of the three languages (with the possible exception of the 3SG reflexive form in Ririo; see note 12 below). The Ririo 3SG form displays neither a reflex of the POC suffix nor the innovated suffix. Details of the innovated suffix in the Babatana indirect construction are discussed further in section 3.

3. **Babatana.** Possession in Babatana employs a set of suffixes that index the person and number of the possessor. However, only three categories of person and number are distinguished: 1SG (-qu), 2SG (-mu), and all other categories (-e), as in (1). These occur in both the direct and indirect possessive construction. In the direct construction, for non-1/2SG categories, dual and plural possessors are expressed by a dependent pronoun (2) or NP possessor (5)–(6) licensed by the non-1/2SG suffix. In the absence of a dependent pronoun or NP possessor, the non-1/2SG suffix has a default 3SG reading, as in (1c), (3b), (7b), (9), and various other examples below.

| TABLE 2. CENTRAL CHOISEUL SINGULAR INDIRECT POSSESSOR-INDEXING FORMS |
|-----------------|-----------------|-----------------|
| Babatana GENPOSS | 1SG  | 2SG  | 3SG  |
| Babatana CONSPOSS | a-qu | a-mu | a-e  |
| Sisiqa           | qo   | mo   | ona  |
| Ririo†           | nōq  | nōm  | nèm  |

† The parenthesized Ririo forms are underlying forms inferred from the surface forms, on the basis of the principles of vowel coalescences discussed in section 5.

3. Babatana data are from Money (2002) and McClatchey (2007), both largely representing Babatana as spoken in the area around Sasamuqa village.

4. Henceforth, forms are represented in the orthography used by the sources, with comment where necessary.

5. Babatana orthographic vowels have the corresponding IPA values, except /a/ = ə, /i/ = ʊ, and /æ/ = a. (Whaley 1962:62 described the low vowel as being low back unrounded, that is, /ɑ/, although he himself uses IPA /a/ as the symbol. Stephen Logan in a personal communication suggests it may, in fact, be a low central vowel.) Orthographic j is a voiced alveopalatal affricate (roughly /ʤ/). (Whaley 1962:61). As elsewhere in the Western Solomon Islands, q = /ɡ/ and g = /ŋ/. Money (2002) uses ɣ for /ŋ/, but ɣ is used here following McClatchey (2007).
Dependent pronoun possessors such as those in (2) are referred to by Money (2002:30) as suffixes attaching to the 3SG suffix. However, they are treated here as prosodically separate syntactically dependent pronouns—syntactic clitics in Anderson’s (2005) terms—because they occur elsewhere with various other functions, such as preposed indirect possessor forms and postverbal subject forms, and because they can be separated from the possessum noun by an adnominal modifier, as in (3c), or modify conjoined Ns, as in (4).

The N1/2SG suffix has the underlying form /e/, which occurs following nonhigh vowels other than /e/, as in (2) and (5).

Following high vowels, the suffix retains its front feature, but undergoes height assimilation to /i/, as in (6). Where the root-final vowel is also /i/, one of the resulting sequence of identical vowels then deletes, as in (7b) and (8). Following /e/, the suffix appears as the allomorph -a, as in (9).
(9) kekere-\text{-a}

tooth-N1/2SG.PSSR
‘his/her tooth’

The overwhelming majority of attested forms follow the regular pattern outlined above, in which the suffix simply concatenates with the final vowel of the root with no changes to the root. However, about a dozen attested roots follow this pattern but display an additional dimension: loss of the root-final vowel accompanied by vowel harmony of the vowel of the preceding syllable if that vowel is unstressed. In (10), the final vowel has been replaced by the suffix -e. However, loss of the final vowel occurs after height assimilation of the suffix, as the suffix surfaces as /i/ when the elided final vowel is high, as in (12). As the roots in (10) are disyllabic, the syllable preceding the suffix after root-final vowel elision is stressed and, therefore, does not undergo assimilation (with the two exceptions in [14]‒[16] discussed below). However, with trisyllabic roots, the syllable preceding the suffix after root-final vowel elision is unstressed. The vowel of that syllable undergoes total assimilation to the vowel of the suffix, as in (11) and (12). This occurs following suffix height assimilation and root-final vowel elision, as the assimilated vowel shares the height feature of the suffix, as in (12). If root-final vowel elision occurred before suffix height assimilation, the suffix in (12) would not undergo height assimilation to /i/, and the surface form would be *nölken-e. In other words, with this small group of roots: (a) the suffix concatenates, then undergoes height assimilation in the usual way; then (b) the root-final vowel deletes; then (c) the preceding unstressed vowel undergoes total assimilation, as in (13).

(10) a. zit-o-qu

nose-1SG.PSSR
‘my nose’

b. zit-e

nose-N1/2SG.PSSR
‘his/her nose’

c. mata-qu

eye-1SG.PSSR
‘my eye’

d. mat-e

eye-N1/2SG.PSSR
‘his/her eye’

e. nöl-e-qu

chin-1SG.PSSR
‘my chin’

f. nöl-e

chin-N1/2SG.PSSR
‘his/her chin’

(11) a. zitŋo-qu

name-1SG.PSSR
‘my name’

b. zitŋ-e

name-N1/2SG.PSSR
‘his/her name’

6. No semantic or phonological pattern has been detected that distinguishes these roots from roots displaying the regular pattern. For example, roots referring to body parts and kin terms occur with both patterns.

7. Stress in Babatana appears to involve left-aligned trochaic feet. That is, the initial syllable carries stress (for example, /ˈvutini/ ‘know’), unless a subsequent syllable has a long vowel and is, therefore, heavy (/ˈtuna/ ‘nod head’ vs. /tuˈnaa/ ‘be true’). (Note that vowel length is not represented in the orthography and is, therefore, not represented elsewhere in this paper.) Reduplicants and the causative marker do not participate in stress: /vaˈkula/ ‘make happy’, /qiˈqisu/ ‘burden, load’ (‘RD~carry’). Vowel harmony of an unstressed vowel here means in effect that the penultimate vowel of roots of more than one syllable undergoes harmony.
c. talanja-qu  d. talen-e
ear-1SG.PSSR ear-N1/2SG.PSSR
‘my ear’ ‘his/her ear’

(12) a. kukunu-qu  b. kuki-n-i
neck-1SG.PSSR neck-N1/2SG.PSSR
‘my neck’ ‘his/her neck’

kukunu-e → kukunu-i → kuki-n-i → kuki-i

A further process of assimilation is attested with two disyllabic roots where a stressed vowel preceding the suffix is /u/. In this context, the high back vowel assimilates on the feature BACK to the value \([-\text{BACK}\)], without also assimilating to the feature FRONT, resulting in the high central vowel /ɨ/, as in (14) and (15). While this process is attested with only two roots, butu ‘head’ as in (14) and the otherwise slightly irregular tu(t) ‘child’ (16), these do constitute 100 percent of the relevant context: attested roots in which a stressed vowel /u/ is in the syllable adjacent to the suffix. However, this process applies only to the high back vowel and not all back vowels, as it does not apply to the mid back vowel /o/, which occurs in several examples without losing the feature \([+\text{back}\]), as in (17).

(14) a. butu-qu b. butu-mu c. büt-i
head-1SG.PSSR head-2SG.PSSR head-N1/2SG.PSSR
‘my head’ ‘your head’ ‘his/her head’

(15) butu-e → butu-i → büt-i

(16) a. tu-qu b. tu-mu c. tüt-i
child-1SG.PSSR child-2SG.PSSR child-N1/2SG.PSSR
‘my child’ ‘your child’ ‘his/her child’

(17) a. jopa-qu b. jop-e
mouth-1SG.PSSR head-N1/2SG.PSSR
‘my mouth’ ‘his/her mouth’

The allomorph -i may be readily explained as well-motivated height assimilation. However, the relationship between the allomorphs -e and -a is less immediately obvious. Two hypotheses are possible. In the first, the suffix is underlyingly /a/, but undergoes height assimilation in all contexts except following /e/, where the underlying form is retained to disambiguate the presence of the suffix. However, there are two problems with this hypothesis. First, there is no explanation for why the vowel always raises to a front vowel, rather than a mid or back vowel. Whaley (1962:62) analyzes Babatana a as a low back vowel, in which case it would be expected to raise to /o/ and /u/. However, even if it is actually a low central vowel, which may, in fact, be the case (Stephen Logan, pers. comm.), the language has mid and high central vowels /ə/ and /ɨ/ to which the vowel could raise. More fatally for this hypothesis, there is no explanation for why the suffix surfaces as /e/ following root-final /i/. The allomorph would be motivated by disambiguation of the suffix from the final vowel of the root, although this is not sufficient to motivate a disambiguating allomorph with root-final /i/, as in (7). However, there is no synchronic explanation for why the disambiguating allomorph is /e/ rather than some other vowel: clearly assimilation is not at play, so the allomorph must
be lexical. A possible diachronic explanation would require the suffix to have origi-
nally had the form /e/, later shifting to /a/, with the original /e/ retained as a lexical allo-
morph after /a/, alongside the separately motivated height-assimilating allomorph /e/.
This hypothesis would be consistent with (but not in itself evidence for) an originating
form *e.

The alternative hypothesis is that the suffix is synchronically underlingly /e/,
accounting for raising to front /i/. In this hypothesis, the allomorph /a/ is a disambiguating
allomorph following root-final /e/. This again must be a lexical allomorph, as /a/ is not
directly motivated. However, disambiguating vowel-lowering from /e/ would necessarily
result in /a/, as this is the only low vowel in the language (Whaley 1962:62), while disam-
biguating raising from /a/ under hypothesis 1 would not necessarily result in /e/. An alter-
native historical explanation would involve an original form /a/, which subsequently
raised to /e/, with the original underlying form retained as an allomorph in the disambigu-
ating environment following /e/.

Both hypotheses appear to involve a lexical allomorph with a disambiguating func-
tion, although phonological lowering in the second hypothesis would result in the
observed vowel, while phonological raising in the first hypotheses would not (lowering
from /e/ would necessarily result in /a/, while raising from /a/ would not necessarily result
in /e/). However, the first hypothesis does not account for why the underlying /a/ would
raise to front vowels, while the second hypothesis does account for why /e/ would raise to
/i/. For this reason the second hypothesis is assumed here: the underlying form of the
suffix is /e/. This, in turn, is consistent with an originating form *a, or an originating form
*e if disambiguating lowering occurred.

The Babatana indirect construction involves a somewhat different pattern. As is typi-
cal for Oceanic, the indirect construction involves a form that precedes the noun and
refers to the possessor. In the “standard average Oceanic” system, the indirect possessive
form is a relational classifier (Lichtenberk 1983) that distinguishes at least consumed and
general alienable possession, and carries the same suffixes found in the direct construc-
tion, distinguishing the same four person categories and at least two number categories
(Lynch, Ross, and Crowley 2002:77–79). Alone among the three languages under dis-

cussion here, Babatana formally distinguishes consumed and general possession in this
construction. However, Babatana indirect possession differs from the typical Oceanic
pattern in that the general possessive classifier na- occurs only with singular possessors,
as in (18a–d). Nonsingular possessors are expressed by a dependent pronoun in prenomi-
nal position in place of the classifier, as in (18e).8

(18) a. na-qu pade  b. na-mu pade
genposs-1sg.pssr house  genposs-2sg.pssr house
‘my house’ ‘your house’
c. na-e pade  d. na-e pade balava
genposs-n1/2sg.pssr house genposs-n1/2sg.pssr house old.woman
‘his house’ ‘the old woman’s house’

8. The presence of dependent pronouns in this construction is consistent with Palmer and
Brown’s (2007) hypothesis that, in the indirect construction in some Oceanic languages, the
classifier position is a syntactic head. However, further discussion of that is beyond the scope
of the present work.
The Babatana consumed possessive classifier $\alpha$- also occurs with singular suffixes, as in (19a–c), but in this case does also occur with the nonsingular dependent pronoun to express the consumed possessive relation, as in (19d).

(19)  

a. a-\textit{qu}siku  
\textsc{consposs-1sg.pssr} banana  
`my banana’

b. a-\textit{mu}bi  
\textsc{consposs-2sg.pssr} water  
`your water’

c. a-\textit{e}peta ni gaki  
\textsc{consposs-n1/2sg.pssr} thing \textsc{assoc} eat  
`his food’

d. a-\textit{dira} kuate  
\textsc{consposs-3pl} fish  
`their (DU) fish’

For the purposes of the present discussion, the significant fact is that the suffix -\textit{e} occurs in indirect possession but is confined to indexing 3SG possessors. Two hypotheses may account for its restriction to 3SG. In one hypothesis, the Babatana suffix -\textit{e} always expresses non-1/2SG, and has the default 3SG interpretation seen in the direct construction. The place of the dependent pronouns for nonsingular possessors in the indirect construction means that the suffix does not occur in that construction with categories other than 3SG, so the default interpretation is always invoked in this construction. This hypothesis has the advantage that the suffix has a consistent meaning across all occurrences, with other aspects of one of the constructions in which it occurs accounting for the restriction of meaning in the construction. The second hypothesis is that the suffix indexes 3SG in one construction, and N1/2SG in another. This hypothesis has the disadvantage that it involves unmotivated polysemy in the suffix, in contrast with a motivated restricted interpretation of a semantically unitary suffix of the first hypothesis. For this reason, the first hypothesis is assumed here. The fact that Babatana alone displays the innovated suffix in the indirect construction, while Sisiqa retains a relic of the original 3SG.PSSR suffix, together suggest that the use of the innovated suffix in the indirect construction in Babatana is an extension of its use in the direct construction, that extension occurring after the separation of Babatana from Sisiqa and Ririo.

In summary, regular possessor-indexing in Babatana involves a suffix -\textit{e}, which indexes non-1/2SG possessors. In the indirect construction, the presence of nonsingular dependent pronouns in the classifier position prompts a default 3SG interpretation. The suffix undergoes raising assimilation following high vowels, with one vowel of a resulting sequence /ii/ deleting, and with the disambiguating lexical allomorph -\textit{a} following /e/. A limited pattern exists in which the root-final vowel deletes before the suffix after raising assimilation, leading to total assimilation of the vowel of the preceding syllable if unstressed.
4. SISIQA. Sisiqa also displays N1/2SG.PSSR allomorphs -e and -a. However, here the underlyng form is /a/, with /e/ a lexical allomorph confined to the single environment of following /a/ (Ross 2002:458).

As with Babatana, Sisiqa direct possession distinguishes the possessor categories 1SG, 2SG, and non-1/2SG, with person/number categories other than 1/2SG specified by means of a dependent pronoun or NP licensed by the suffix, as in (20). As in Babatana, the N1/2SG.PSSR suffix without an overt possessor pronoun or NP has a default 3SG reading, as in (21)–(25).10

(20) a. mata-\(e\) döra
   b. tama-\(e\) so göti
      eye-N1/2SG.PSSR 3PL  father-N1/2SG.PSSR child DEM
   ‘their eyes’; cf. (10d) ‘this child’s father’ (Ross 2002:460)

In Sisiqa, the underlying form of the suffix is -a, as demonstrated by the fact that this form surfaces following all vowels other than /a/, including /i/ (21), /u/ (22), /e/ (23), and /o/ (24). Following /a/, however, the lexical allomorph -e occurs to disambiguate the presence of the suffix, as in (20) and (25). The Sisiqa system is considerably less complex than that in Babatana. The suffix undergoes no height assimilation (21)–(24); there is no class of roots that undergo final-vowel loss before the suffix (22b,c), (23b), (24), (25b); and no root vowel assimilation takes place (22b,c), (24b), (25b). Sisiqa can, therefore, be regarded in this respect as more conservative than Babatana.

(21) körisci-\(a\)
   arm-N1/2SG.PSSR
   ‘his/her arm’; cf. (7)

(22) a. bötu-qu
   b. bötu-\(a\)
      head-1SG.PSSR head-N1/2SG.PSSR
   ‘my head’; cf. (14a) ‘his/her head’; cf. (14c)

c. kokunu-\(a\)
   neck-N1/2SG.PSSR
   ‘his/her neck’; cf. (12b)

(23) a. kökere-\(a\)
   b. ŋôle-\(a\)
      tooth-N1/2SG.PSSR chin-N1/2SG.PSSR
   ‘his/her tooth’; cf. (9) ‘his/her chin’; cf. (10f)

(24) a. zeņo-\(a\)
   b. taritoņo-\(a\)
      nose-N1/2SG.PSSR name-N1/2SG.PSSR
   ‘his/her nose’; cf. (10b) ‘his/her name’; cf. (11b)

(25) a. pōda-\(e\)
   b. talaņa-\(e\)
      bone-N1/2SG.PSSR ear-N1/2SG.PSSR
   ‘his/her bone’; cf. (1c) ‘his/her ear’; cf. (11d)

With a synchronic underlying form /a/, there is no phonological motivation for disambiguating raising to /e/ after /a/, rather than to any other vowel. This, then, is consistent

9. Sisiqa data are from Ross (n.d.) unless otherwise stated.
10. Sisiqa orthography resembles that for Babatana, except that no ŋ occurs. Ross (2002:456) treats ŋ as a mid central vowel surfacing variably as [ɔ], [i], and [a]. In Ross (n.d.), he transcribes it as /i/.
with an originating form *e, retained as an allomorph with a disambiguating function when the suffix as a whole shifted to /a/.

In summary, the Sisiqa N1/2SG.PSSR suffix involves straightforward concatenation of the suffix to the root, with the underlying suffix form -a alternating with -e following /a/.

5. RIRIO. As with Babatana and Sisiqa, Ririo displays a N1/2SG.PSSR suffix -e. An allomorph -a occurs in one specific context.

Ririo poses problems for analysis arising from its highly moribund status. At the time fieldwork was carried out on the language by Don Laycock in 1978, he reported 18 speakers, all of whom used Babatana as their normal daily language, and whose children and other family members spoke only Babatana. More recent fieldwork carried out in 2011 by Stephen Logan found only one native speaker and several rememberers. The language has also undergone borrowing from Babatana. Together, these facts make some of the Ririo data somewhat difficult to interpret. However, the basic facts are apparent from the available material.11

Ririo contains one possible relic of the original 3SG.PSSR suffix *-ña, in the 3SG reflexive pronoun tiò-n.12 Aside from this single possible relic, direct possession in Ririo resembles Babatana and Sisiqa in distinguishing 1SG, 2SG, and non-1/2SG, with person/number categories other than 1/2SG specified by a dependent pronoun or NP licensed by the suffix-e, as in (26). Again, the absence of an NP or dependent pronoun prompts a default 3SG.PSSR reading, as in (28c) and (29c), although occurrence with the 3SG independent pronoun is also possible, as in (26c).13

11. The Ririo data here are from Hackman (1967), Craven (1977), Laycock (1978, 1982), and Logan (fieldnotes). I am grateful to Stephen Logan for providing his field materials.

12. The Ririo reflexive paradigm contains dedicated reflexive forms for the singular categories: tiò-q 1SG, tiò-m 2SG, tiò-n 3SG. Nonsingular reflexives are formed using the general oblique preposition ta followed by the relevant dependent pronoun, for example, ta dór loc 1incl.du ‘our(two)kelves’. The reflexive pronouns in Babatana do not also show a relic of *-ña. Instead, they are formed regularly in all person/number categories except 3SG with direct possessor suffixes on the reflexive pronoun or preposition tana-; for example, tana-qu ‘myself’, tana=duru ‘our(two)kelves’, etc. In 3SG, an irregular form is used in which a suffix -i replaces the final vowel of the reflexive base, as tan-i or tan-ito. The reflexive paradigm for Sisiqa is not known.

An alternative explanation for Ririo tiò-n is possible, in which the final /n/ does not reflect the suffix *-ña. Instead, a reflexive root *tiana (resembling Babatana tana) undergoes metathesis, with subsequent raising of the metathesized /a/ to /ɔ/ (ò), independently attested when /ava/ metathesizes (see note 15 below). This would give a derivation of the root as follows: *tiana → *tiaan → *tian → *tiòn. However, this explanation may be rejected, as /a/ to /ɔ/ in the attested context /ava/ presumably involves rounding arising from the labial feature of the /v/, a situation not applying to /n/, and because the expected resulting possessor-indexed forms would be *tiòn-uq and *tiòn-e.

13. Ririo orthography closely resembles that of Sisiqa. Again, ȯ represents a mid central vowel; except for Ririo it has been analyzed as representing variably /ø/ and /œ/ (Laycock 1982:273). Laycock represents /ŋ/ orthographically as ñ. However, as this conventionally represents a palatal nasal, not a velar, ɳ has been used here for clarity. Ririo also has a glottal stop, represented here, as conventionally, by an apostrophe. The glottal is a root-final allophone of /k/ where that consonant has been brought into final position through metathesis (Laycock 1982:275). Unlike Babatana and Sisiqa, Ririo has front and back low mid vowels /ɛ/ and /ɔ/. These are variably represented orthographically as ê or è, and ô or ò, respectively. Because they are lower than the vowels represented by the symbols without the diacritic, the forms ê and ò are adopted here.
(26) a. Ade [zitiŋ-e jar]? who? name-N1/2SG.PSSR 3PL 'What are their names?' b. Ade [zitiŋ-e vur zèt]? who? name-N1/2SG.PSSR river DEM 'What is the name of this river?'

c. tam-e za father-N1/2SG.PSSR 3SG 'his father'

With the lexical item tam ‘father’, the N1/2SG.PSSR suffix is attested as omitted in non-3SG contexts in two of the 12 recorded tokens, one of which is the only attested token in natural speech as opposed to elicitation (27b). This is optional deletion, and not an issue relating to the size of the possessor NP in (27b), as the other token of deletion, (27c), occurs in the same elicitation session as (27a) in a context structurally identical to (27a). It is perhaps significant that this deletion is attested only with the root tam ‘father’, as the 1SG form is suppletive and lacks any suffix, as in (27d).\textsuperscript{14}

(27) a. tam-e jar zar b. tam jar zar sua-ro father-N1/2SG.PSSR 3PL 3PL father 3PL 3PL child-PL ‘their father’ ‘the children’s father’

c. tam dòr zituru father 1INCL.DU 1INCL.DU ‘our (dual incl.) father’

d. mam ra e. tama-m father.1SG.PSSR 1SG father.2SG.PSSR ‘my father’ ‘your father’

Ririo is perhaps best known for its pervasive metathesis in which the final CVs of most roots have been transposed (Laycock 1982). This process also applies to pronouns, and to the 1SG.PSSR and 2SG.PSSR suffixes. Instead of the suffixes -qu and -mu found elsewhere in Choiseul, the Ririo forms reflect POC*-gu and *-mu with the CV metathesized, as in (28a,b).

(28) a. körös-uq b. körös-um c. körös-e arm-1SG.PSSR arm-2SG.PSSR arm-N1/2SG.PSSR ‘my arm’ ‘your arm’ ‘his/her arm’

The full details of Ririo metathesis (see Laycock 1982) are not relevant to the present discussion, and are reviewed in more detail by Palmer and Logan (n.d.). In summary, the operation of metathesis is conditioned by the vowel of the preceding syllable. Where the penultimate and final vowels form a falling sequence of high to nonhigh, metathesis has not occurred. In all other contexts, metathesis has occurred, bringing the penultimate and final vowels into adjacency and making the root consonant final (that is, *Vi C Vj → ViVj C). Where the two resulting adjacent vowels have the same melody, one deletes, leaving a single vowel with that melody. Where they form a raising sequence from low (that is, /a/) to nonlow, they coalesce to form a single vowel intermediate between /a/ and the mid-high or high final vowel. That intermediate vowel is the low mid vowel sharing the same front/
back feature as the original second vowel (thus /au/ → /ɔ/, /æ/ → /ɛ/, and so on). A number of other more fine-grained changes are also evident, including raising of mid high vowels in the penult, and loss of /v/ and /ɣ/ in final position after metathesis, among others. For the purposes of the present discussion, the crucial fact is that as a result of metathesis most, but not all, roots are consonant-final.

Following consonant-final roots, the 1SG and 2SG suffixes appear with their CV sequence reversed (-qu → -uq, -mu → -um), as in (28). The motivation for this is clearly to keep the consonant of the suffix separate from that of the root, and prevent the formation of word-internal codas. The situation is made superficially more complex by the occasional appearance of /u/ following the consonant in this context, as in (29). However, here the final /u/ is an echo vowel, not a reflex of the original final vowel. In Ririo, all words ending in a consonant take an optional echo vowel (Laycock 1982:274). In natural text, this is extensively attested with unsuffixed roots of various types, such as the dependent pronoun in (30), where there can be no question of the vowel being underlying (it derives through final CV metathesis from *ziru). Trivially, the echo vowel phenomenon also occurs with nouns displaying the suffixes -uq and -um. A number of other complications exist that are not relevant to the issues at stake here. For a fuller analysis of the 1SG and 2SG suffixes, see Palmer and Logan (n.d.).

15. Final /v/ is regularly lost after metathesis in Ririo. However, if the preceding vowel is /a/, it is raised to /ɔ/ before /v/ is lost (Laycock 1982:275). For example, só ‘feather’ is regularly derived as follows: *sava → *saav → *sav → *sòv → só.
No data exist in which a root with final /e/ carries direct possessor-indexing. On the basis of the apparently robust Ririo principle in which a sequence of two identical underlying vowels results in loss of one of those vowels (Laycock 1982:274–76), it is predicted that concatenation of the suffix -e to a root with final /e/ would result in loss of the root-final /e/, resembling Babatana, as in (10f). However, the absence of data makes testing that hypothesis impossible. It is also impossible to rule out the presence following /e/ of a disambiguating suffix allomorph -a, resembling Sisiqa in (23), as an allomorph -a is attested in Ririo with only one root, as in (35c).

When following the vowel /o/ or /ɔ/, the suffix concatenates without modification of either the suffix or the root, as in (31).

(31) a. mamno-e
to’ papad
end-N1/2SG.PSSR LMT story
‘the end of the story’

When concatenated to a root ending in /a/, the root-final vowel deletes, leaving the suffix, as in (32). In (32a), metathesis of the suffix CV brings the initial /u/ of the suffix into adjacency with the root-final /a/, resulting in the sequence /au/, which undergoes regular coalescence as /ɔ/ (ɔ), as shown in (33). This does not happen with the 2SG form in (32b) and (27e) above, because a separate process deletes the final /u/ of the 2SG suffix prior to metathesis in certain contexts, of which this is one. In this context, the suffix is reduced to /m/ prior to concatenation with the root, with the root-final /a/ intact.

(32) a. sopòq
belly.1SG.PSSR
‘my belly’

Only two roots with high vowels are attested with direct possessor-indexing. These are the monosyllabic roots kü- ‘younger same sex sibling’ and ci- ‘child of’. With kü-, the N1/2SG.PSSR suffix occurs as /i/, as in (34), demonstrating the same raising height harmony seen in Babatana. With ci-, the vowel /i/ occurs in the root, and here the suffix occurs with the only attested instance of the allomorph -a in Ririo, as in (35); compare this with the differently irregular cognate in Babatana in (16). The fact that this suffix form represents N1/2SG as with -e, and is not an irregular use of a 3SG form, is demonstrated in (35d). This root is the only attested instance of a N1/2SG.PSSR allomorph -a in Ririo. However, given that height harmony of the suffix occurs in (34), similar harmony with ci- would result in a sequence /i/. The -a may, therefore, be a disambiguating lexical allomorph -a following /i/, resembling -a following /e/ in Babatana. However, the Babatana allomorph -a does not also occur following /i/, and the situation with roots ending in /e/ in Ririo is unknown.

(33) *sopa-qu → *sopa-uq → sopòq

(34) kü-i
younger.same.sex.sib-N1/2SG.PSSR
‘his/her younger same sex sibling’

16. Further details are presented in Palmer and Logan (n.d.).
(35) a. ci-uq  
   child-1SG.PSSR  
   ‘my child’  

b. ci-um  
   child-2SG.PSSR  
   ‘your child’  

c. ci-a  
   child-N1/2SG.PSSR  
   ‘his/her child’  

d. ci-a  
   child-N1/2SG.PSSR  
   dòr  
   1INCL.DU  
   ‘our (two) child’

In summary, the underlying form of the suffix in Ririo is /e/, with height assimilating raising to /i/ after high vowels, and with the disambiguating allomorph /a/ following /i/. Lack of data means it is not known whether the disambiguating allomorph /a/ also occurs following /e/. The synchronic Ririo situation is consistent with an originating form *a retained only in the disambiguating context following /i/, or with an originating form *e with disambiguating lowering to /a/ (as with Babatana, /a/ is the only low vowel, so disambiguating lowering would necessarily result in /a/).

6. CONCLUSION. All three languages discussed here display an innovated possessor-indexing category non-1/2SG, with an innovated suffix encoding it. This suffix licenses a separate dependent pronoun or lexical NP expressing the possessor. In the absence of an overt possessor NP (lexical or pronominal), the suffix has a default 3SG reading.

The suffix itself displays the allomorphs /e/ or /a/, with an allomorph /i/ following high vowels in Babatana and Ririo. The suffix may have as its source the POC personal article *i, with some Western Oceanic languages displaying reflexes of a protoform *e in some contexts (Lynch, Ross, and Crowley 2002:71). Given that the suffix occurs frequently with dependent pronouns, this would be consistent with the presence of reflexes of *e before pronouns in some other Northwest Solomonic languages. Alternative possible sources for the suffix may be the POC article *a (Crowley 1985; Lynch, Ross, and Crowley 2002:71), or the POC 3SG pronoun *ia (Malcolm Ross, pers. comm.) The synchronic situation in Babatana and Sisiqa is most consistent with an originating form *e, while the situation in Ririo is consistent with either originating *e or *a. Beyond these observations, no conclusions are drawn here about the historical origin of the suffix.

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