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Saisiyat Reduplication Revisited*

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The present paper aims at complementing Yeh's (2000a-b, 2003) earlier studies on reduplication in Saisiyat by (i) providing a reassessment of her analyses, (ii) making data available in a more exhaustive manner and (iii) reporting new patterns and meanings. Three patterns of reduplication are examined, Ca-reduplication, partial reduplication – which further includes the following subpatterns: CV-, CVC-, CVV- and -CV- reduplication with overlaps in their semantic functions – and full reduplication. Other issues are also touched on, in particular, the reduplication of certain affixes, and the occurrence of doublet forms. Residual problems regarding the absence of criterion to account for the mapping between a prosodic copying unit and the semantic meaning associated with it are also discussed.

Key words: reduplication, Saisiyat, Formosan languages, reassessment

1. Introduction

1.1 Background information

Saisiyat, an Austronesian language, is spoken in northwest Taiwan. It consists of two dialects, Taai known as the "Northern dialect" and Tungho referred to as the "Southern dialect". The Taai dialect is spoken in Wufeng township, Hsinchu county and the Tungho dialect is spoken in Nanchuang township, Miaoli county. Li (1978) mentions that the difference between the two Saisiyat dialects lies mostly in their phonologies, in that the voiced flap /r/ is preserved in Taai but lost in Tungho.

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1.2 Saisiyat phonology

The Saisiyat phonemic system includes 16 consonants, among which 2 glides, and 6 vowels. In table (1) and (2), phonemes are presented with their corresponding IPA symbols.

(1) Saisiyat Consonants¹

	BILA	BIAL	ALVE	OLAR	PALA	ATAL	VEI	LAR	GLO	ΓTAL
PLOSIVE	p		t				k		?	
FRICATIVE		β	θ	ð	S				h	
NASAL		m		n				ŋ		
LATERAL				l						
TRILL						r				
GLIDE		w				y				

(2) Saisiyat Vowels

	FRONT	CENTRAL	Васк
High	i		
Mid		ə, œ ²	0
Low		æ	a

Several scholars have studied the Saisiyat phonological system (Ogawa and Asai 1935, Chao 1954, Tsuchida 1964, Li 1978, Yeh 1991, 2000a) and their phonemic descriptions vary slightly (see Li 1978 for a short discussion on this matter).

The basic syllable structure of Saisiyat consists of three types: CV $\underline{ta}.lo.\betao\eta$ 'bamboo cup', CVC $\underline{no?}.no?$ 'drum' and CVV $tal.\underline{kaa}$ 'table'. There is no word-initial consonant cluster *#CCV, as in Maga Rukai and Tsou, for instance. We treat words with #CCVC structure, e.g. [$\int \beta \sigma t$] 'hit, beat'; [$\theta \beta \sigma \eta$] 'meet' as being CVCVC underlyingly, cf. $\int \sigma \beta \sigma t$ and $\theta \sigma \beta \sigma \eta$, the surface form resulting from the deletion of the unstressed vowel. Li (1978:138) has shown that vowel length is phonemic only in Tungho. Conventionally, long vowels are indicated by a colon ':'. While both Li (1978) and Yeh (2000a) are aware that the loss of the voiced flap /r/

Sounds in the shading cells are voiced and sounds in the blank area are voiceless.

² Saisiyat includes six vowels, two more than the four vowels that the Formosan languages generally preserve from PAN. According to the research carried out by the second author, the vowel /æ/ is a low central back vowel, much closer to /a/ that what has been primarily reported (e.g. Tsuchida 1964), while /æ/ is a slightly rounded, mid central vowel, very close to /o/. A merger between a/æ on the one hand and o/æ on the other is in progress in Saisiyat (cf. Wu 2004).

results in the occurrence of "zero [consonant, our addition], y and w in different environments" in this particular dialect (Li 1978:136, Yeh 2000:54), this annotation has led to some confusion. Li (1978:193) records /sæ?o:az/ [θ æ?o:að] 'really' while this word is actually pronounced [θ æ?owað]. In the same vein, Yeh (2000) transcribes certain words incorrectly, e.g. /ba:iw/ [β a:iw] (Yeh 2000:173) instead of /baiw/ [β aiw] (Li 1978:173). In this paper, we will consistently indicate two identical vowels as: aa, oo, ii. Identical vowels might either represent long vowels (C)V₁V₁, as in $talk\acute{a}a$ 'table' or belong to two different syllables (C)V₁.V₁ as in $ra.\acute{a}m$ 'know'. To differentiate these, we will indicate the syllable boundary with a dot '.' whenever necessary. Note that stress usually falls on the final syllable.

1.3 Earlier works on Saisiyat reduplication and goals of this paper

Yeh (2000a-b and 2003) describes several types of reduplication in Saisiyat: (i) fossilized reduplication; (ii) Ca-reduplication; (iii) reduplication with affixes, e.g. locative focus marker³ -an, conveying the meaning "a place full of"; and (vi) first syllable reduplication: CV-, CVC-. Among these patterns, CVC-reduplication is said to be the most productive in Saisiyat. Yeh (2000b) mentions that in this pattern, either the whole first syllable of CVC.CVC or the onset of the second syllable along with the first syllable of CV.CVC can be duplicated. Theoretically, Yeh argues that CVC-reduplication supports the hypotheses developed by Moravcsik (1978) and Marantz (1982:439-40) in that "the shape of the copied material in reduplication is fixed for the reduplication process; the shape is independent of the hierarchical structure of the morpheme being copied." This is illustrated in (3).

(3) Saisiyat reduplication (Yeh 2000b)



In her Ph.D. dissertation, Yeh (2003) provides an overview of the mapping between forms and meanings carried out by different reduplicated patterns and summarizes her findings in a table we reproduce in (4).

(4) Forms and Meanings of Reduplication in Saisiyat (Yeh 2003:142)

Reduplication patterns	Meaning	Root
reduplication patterns	Micannig	Noot

³ It is not in co-occurrence with the locative LF marker, but rather with the nominalizer -an that reduplication is used to convey the meaning of "a place full of". This is a widely productive process in the Formosan languages (cf. Zeitoun and Wu forthcoming).

		Future	Verb roots	
Ca-		Instrumental nouns	Verb roots	
		Reciprocal	Verb roots	
CV-		Progressive	AF verbs	
		Collectivity	Nouns, stative verbs	
	Increase	Intensification	Stative verbs	
		Continuation	Action verbs	
CVC-		Repetition	Action verbs [+bound]	
		Distributivity	Stative verbs, achievement verbs	
		Diminution	Nouns	
	Decrease	Attenuation	Stative verbs	
		Tentative	Action verbs	

Yeh (2003) has given a very insightful account of the semantic webs which relate the meanings carried out by various reduplication patterns. Therefore we will not focus that much on this topic (see Zeitoun and Wu forthcoming for more ample discussion on this matter). The goal of this paper is actually two-fold: (i) provide an exhaustive inventory of all (productively used) reduplicative patterns and report new patterns (and new meanings) of reduplication (section 2) to complement Yeh's earlier analyses; (ii) explore in more detail problems that were left unanswered in Yeh's work (section 3). We will, in particular, focus on the following issues: Is there a reduplicative domain in Saisiyat reduplication? Both CV- and CVC- patterns (contra Yeh 2000a-b and 2003) actually carry out quite the same semantic functions. Are there any criteria that may help us to determine which stems should have their CV- or their CVC-template copied? Do reduplicative patterns really have respective correspondent grammatical functions in Saisiyat, as assumed in Yeh (2003)? Concluding remarks are presented in section 4.

This paper does not draw on a particular phonological theory and but rather, provides descriptive generalizations about Saisiyat reduplication which might be useful, if adopting a more formal framework. Our study concerns specifically the Tungho dialect, which is still actively spoken although most Saisiyat people also speak Hakka, Southern Min, Mandarin and Atayal in their daily lives as Saisiyat villages are inhabited with Hakka and Atayal population. Data for this research was

collected by the authors on several field trips⁴ to the Tungho village, Nanchuang township, Miaoli County⁵ from October 2003 to May 2004.

2. More data on Saisiyat reduplication

Several patterns of reduplication in Saisiyat are attested: (i) Ca-reduplication; (ii) partial reduplication, including CV-, CVC-, CVV- and -CV- reduplication; (iii) full reduplication. Lexicalized reduplication is also commonly found, but won't be dealt with in this paper.

2.1 Ca-reduplication

Ca-reduplication refers to the copy of the first consonant of the base and the addition of a fixed vowel /a/. If the vowel of the first syllable is /æ/ (in the base form) – it is usually preceded by the two consonants /h/ or /?/ – the vowel that follows the reduplicated C is /æ/. In other words, Cæ- can be treated as an allomorph of Ca-.

(5)

Root	Gloss	Reduplication	Gloss
hæðæ eta^6	'stab'	hæ-hæðæβ	'knife'
?æріθ	'clip'	?æ-?æріθ	'clipper'

Ca-reduplication usually applies to verbs, a distinction being made between "dynamic" and "stative" verbs. Ca-reduplication carries one of the four following semantic functions, some of which being able to overlap in certain words, as will be shown below. It serves to form:

- (i) instrument nouns, usually derived from dynamic verbs (6)-(6') and less commonly from nouns (7)
- (ii) reciprocal⁷ verbs (8)-(8')
- (iii) future tense of (dynamic) verbs marked as B/IF (9)-(9')⁸

⁴ Unless mentioned otherwise, the data presented here is drawn from our own fieldnotes, carried out conjointly by the two authors.

⁵ Our two main informants (Chu A-liang and Lalu' Kaibaibaw) grew up in the Tungho village. Lalu' Kaibaibaw moved to Penglai village after she got married. The Tungho dialect is spoken in both villages.

⁶ Yeh (2000b) analyzes Cæ-reduplication as CV-reduplication.

⁷ The notion of "reciprocity" covers that of "collectivity".

⁸ The three first functions have been reported in Yeh (2003), but not the fourth one.

(iv) intensification together with distributivity (cf. 'all very') of stative verbs (10)-(10')⁹

(6)

Root	Gloss	Stem ¹⁰	Ca-reduplication	Gloss
βαθο?	'set a fire'	βαθο?	βα-βαθο?	'inst. used to set a fire'
ði.ið	'sieve'	ð <om>iið</om>	ða-ðiið	'sieve'
hiyop	'puff'	h <om>iyop</om>	ha-hiyop	'puffing pipe'
ka.at	'write'	k <om>aat</om>	ka-kaat	'pencil'
lotor	'link'	l <om>otor</om>	la-lotor	'inst. to link'
pama?	'carry on back'	pama?	pa-pama?	'bag'
ræhkal	'boil'	r <om>æhkal</om>	ræ-ræhkal	'firewood, fuel'
∫o.aw	'chase'	∫ <om>oaw</om>	∫a-∫oaw	'stick, instrument used to
				chase'
∫apəl	'lay a mat'	∫ <om>apəl</om>	∫a-∫apəl	'mat'
ti.i∫	'wipe'	t <om>ii∫</om>	ta-tii∫	'cloth'
θapœh	'sweep'	θ <om>apœh</om>	θα-θαρœh	'broom'
?alop	'hunt'	? <om>alop</om>	?a-?alop	'inst. used to hunt'

(6') a. ma?an $\underline{\int a \int oaw}$ hayno? ila. 11 1S.Gen stick where Asp

'Where is my stick?'

b. ?iθaa? ka ?ano? <u>hahiyop.</u> then what puffing pipe

'(Actually), it looked like a puffing pipe.' (extracted from Formosan Language Archive)

(7)

Root	Gloss	Reduplication	Gloss
haŋaw	'stairs, ladder'	ha-haŋaw	'inst. (e.g. planks) to make stairs or ladders'

⁹ We checked 33 stative verbs. Among these, eleven -- that is about one third -- were found not to be able to undergo Ca-reduplication. Reasons that would permit to account for their ungrammaticality still need to be worked out. They include: βain 'lazy', $\beta anjih$ 'salty', $\beta osoh$ 'drunk', tikot 'afraid', $\beta oldsymbol{olds$

¹⁰ Stems are indicated whenever necessary, since in certain types of reduplication focus affixes (e.g. < om > /m- etc.) can occur, while in other types they can not.

¹¹ 1, 2, 3: first, second and third person, Acc: Accusative, AF: Agent Focus, Asp: Aspect, Gen: Genitive, IF: Instrumental focus, Lig: Ligature, Neg: Negation, Nom: Nominative, S: Singular, P: Plural, Poss: Possessive.

(8)

Root	Gloss	Stem	Ca-reduplication	Gloss
ðiŋaθ	'stick'	ð <om>iŋaθ</om>	ða-ðiŋaθ	'stick to each other'
haŋih	'cry'	h <om>aŋih</om>	ha-haŋih	'cry for each other'
kita?	'see'	k <om>ita?</om>	ka-kita?	'see each other'
ləŋə∫	'wave'	l <om>əŋə∫</om>	la-ləŋə∫	'wave at each other'
rakəp	'catch'	r <om>akəp</om>	ra-rakəp	'catch each other'
∫awi?	'tear'	∫ <om>awi?</om>	∫a-∫awi?	'tear on both sides,
				tear each other ('s clothes)'
takoo	'kick'	t <om>akoo</om>	ta-takoo	'kick each other'
θβοη	'meet'	θβοη	θα-θβοη	'meet each other'

(8') a. ?okay ?ya <u>fafβət</u> hi ?amoy.

Okay want to beat each other Acc Amoy

'Okay wants to fight with Amoy.'

b. ?iθaa? ?oka ila... ?oka? ila ?i papanæ? ila.
 then Neg Asp Neg Asp Lig shoot at each other Asp 'Then, there were no more fights' (extracted from the Formosan Language Archive)

(9)

Root	Gloss	Stem	Ca-reduplication	Gloss
βa.iw	'buy'	βaiw	βa-βaiw	'will be used to buy'
ßætæ?	'tie'	ßætæ?	βa-βœtœ?	'will be used to tie'
həlal	'dance'	h <om>lal</om>	ha-həlal	'will be used to dance'
ŋo.ip	'forget'	та-ŋоір	ŋа-ŋоір	'will be forgotten'

(9') hini? ∫inœ?is βαβœtœ? ka kakraŋi?an.
this rope will be used to tie (IF) Acc thing
'This rope will be used to tie things.'

(10)

Root/Stem	Gloss	Reduplication	Gloss
hopay	'tired'	ha-hopay	'all very tired'
kərpəə	'fat'	ka-kərpəə	'all very fat'
liaβo?	'rich'	la-liaβo?	'all very rich'
∫arara?	'like'	∫a-∫arara?	'all want/like very much'
θοβαœh	'big'	θa-θoβaœh	'all very big'

(10')laθia <u>kakərpəə</u>.

3P.Nom all very fat 'They are all very fat.'

Roots that can have two or more meanings include the following¹²:

(11)

Root	Gloss	Stem	Ca-reduplication	Gloss
βiliθ	'touch, lift'	βiliθ	βa-βiliθ	1. 'basket arch, handle'
				2. 'touch each other'
ßœtœ?	'tie'	ßætæ?	βa-βœtœ?	1. 'string'
				2. 'tie each other'
				3. 'will be used to tie'
hæðaβ	'prick, stab'	h <om>æðaβ</om>	hæ-hæðaβ	1. 'needle'
				2. 'prick each other'
pama?	'carry on	pama?	pa-pama?	1. 'bag/car'
	back'			2. 'carry each other'
panæ?	'shoot'	manæ?	pa-panæ?	1. 'bullet'
				2. 'shoot at each other'
ra?œœ	'drink'	r <om>a?œœ</om>	ra-ra?œœ	1. banquet
				2. 'drink together'
∫o.aw	'chase'	∫ <om>oaw</om>	∫a-∫oaw	1. 'stick'
				2. 'chase each other'
?aŋaŋ	'scold'	? <om>aŋaŋ</om>	?a-?aŋaŋ	1. 'quarrel' (N)
				2. 'quarrel with each
				other' (V)

¹² This list is certainly not extensive.

2.2 Partial reduplication

Partial reduplication can be divided into four subpatterns: CV-, CVC-, CVV- and -CV- reduplication. The meanings carried by these patterns overlap to some extent, as we will show below.

While Yeh (2000a-b, 2003) gives an account of CV- and CVC-reduplication, CVV- and -CV- reduplication have never been reported in Saisiyat before. CVC- is by far the most productive pattern, -CV- reduplication the least productive.

2.2.1 CV-reduplication

Yeh (2003:127) reports that the function of CV-reduplication is to indicate the progressive aspect of AF verbs. She provides the following examples to support her analysis¹³ but our informants rejected (12a) and gave a different meaning for (12c) (continuation instead of progressive). Sentences (12b) and (12d) were both accepted by our informants, but we did not get a progressive interpretation for any other verb undergoing CV-reduplication we asked for. Reasons for such a discrepancy might lie in the fact that we strictly worked only with one dialect, Tungho, while Yeh (2003) drew her data from the two Saisiyat dialects, Taai and Tungho.

(12) a. yako k<om>ita? hiza? ŋyaw so-s<om>i?æl
1S.Nom see<AF>see that cat CV-eat<AF>eat
ka ?alaw.

Acc fish

'I saw that cat eating fish.' (ungrammatical according to our informants)

b. sia kahia:i? m-wa:i? hini? yako
3S.Nom yesterday AF-come this 1S.Nom

to-t<om>alek.

CV-cook<AF>cook

'When he came yesterday, I was cooking.'

c. korkorin hita? <u>ho-h<om>ænih</u>. child there CV-cry<AF>cry

'The child is crying over there.' (Translated as: 'The child keeps crying over there.')

 $^{^{13}}$ We have kept the original transcriptions, except that to match our own orthography, we have replaced romanized letters by their IPA equivalents. We have also preserved Yeh's (2003) original glosses. Note that in her transcriptions, /s/ and /z/ correspond to / θ / and / δ / in the dialect investigated here.

d. lasia <u>so-s<om>ahœl</u>ka kakraŋi?an
 3P.Nom CV-burn<AF>burn Acc thing
 'They are burning things.'

In the data we collected, CV- reduplication applies to both nouns and verbs and carries different functions:

(i) nouns usually suffixed with the locative nominalization marker -an may either indicate increase (cf. "a place full of") as shown in (13)-(13') or diminution (including meanings like "fake", "small" etc...), as shown in (14)-(14'):

(13) CV-reduplication on nouns: Increase

Root	Gloss	Reduplication	Gloss
raromæh	'bamboo'	ra-raromæh-an	'a place full of bamboo'
tawmo?	'banana'	ta-tawmo?-an	'a place full of bananas'
?i.ok	'orange'	?i-?iok-an	'a place full of oranges (orange garden)'

(13')yako Somil?æl ray <u>rararomæhan</u>.

1S.Nom live at place full of bamboo

(14) CV-reduplication on nouns: Diminution

Root	Gloss	Reduplication	Gloss
βoay	'fruit'	βо-βоау	'small fruit which has just blossomed'
taw?an	'house'	ta-taw?an	'small house for children to play'

(14')?inoka=korkoring=?a <u>tataw?an</u>...

Poss=child=Poss doll house

'the doll house of the child...'

(ii) reduplication of stative verbs in co-occurrence with the suffix -an yields an attenuation meaning, as shown in (15)-(15'):

^{&#}x27;I live in a place full of bamboo.'

(15) CV-reduplication on stative verbs: Attenuation¹⁴

Root/Stem	Gloss	Reduplication	Gloss
βa.in	'lazy'	βa-βain-an	'a little lazy'
ma.iθ	'hard'	ma-maiθ-an	'a little hard'
∫i.æ?	'happy'	∫i-∫iæ?-an	'a little happy'

(15')korkorin <u>βaβainan</u>, kayni? k<om>aat.

child a little lazy Neg write<AF>write

'The child is a little lazy, he does not want to write.'

(iii) dynamic verbs might either be given a continuous or repetitive interpretation, as shown in (16)-(16') and (17)-(17') respectively:

(16) CV-reduplication on dynamic verbs: Continuation

Root	Gloss	Stem	Reduplication	Gloss
hiyop	'blow'	h <om>iyop</om>	h(<om>)i-hiyop</om>	'keep on blowing'
ko.ih	'dig'	k <om>oih</om>	k(<om>)o-koih</om>	'keep on digging'
?yalatar	'chat'	myalatar	mi-myalatar	'keep on chatting'
∫atər	'see off'	∫ <om>atər</om>	∫(<om>)a-∫atər</om>	'keep on seeing off'
∫o.a∫	'rub'	∫ <om>o.a∫</om>	∫(<om>)o-∫oa∫</om>	'keep on rubbing'
tilhæhæl	'help'	t <om>ilhæhæl</om>	t(<om>)i-tilhæhæl</om>	'keep on helping'

(16')?iði? ?i <u>hihiyop</u>

NegImp Lig keep on blowing

'Do not keep on blowing.'

(17) CV-reduplication on dynamic verbs: Repetition

Root	Gloss	Stem	Reduplication	Gloss
hayap	'fly'	h <om>ayap</om>	ha-hayap	'fly here and there'
tay?itol	'climb'	t <om>ay?itol</om>	ta-tay?itol	'climb here and there'

(17')hiða? kaßkaßæhææ homahayap

that bird fly here and there:AF

'That bird flies here and there.'

The meanings of CV-reduplication can be summarized as follows:

¹⁴ Out of 40 stative verbs, only three were found to have a CV- syllable reduplicated.

(18) Meanings of CV- reduplication

Reduplication patterns	Meaning		Root
		Collective/locative (+ -an) ¹⁵	Nouns
	Increase	Continuation	Dynamic verbs
CV-		Repetition	Dynamic verbs
		Diminution (+ -an)	Nouns
	Decrease	Attenuation (+ -an)	Stative verbs

2.2.2 CVC-reduplication

Forms and meanings of CVC-reduplication are adopted from Yeh (2003) with some modifications, cf. (19). Since our data collection draws on a different dialect, we illustrate these with examples taken from our own corpus (ex. (20)-(26)).

A comparison between tables (18) and (19) shows an overlap of semantic functions between CVC-reduplication and CV-reduplication.

(19) Meanings of CVC-reduplication

Reduplication patterns	Meaning		Root
		Collective/locative (+ -an)	Nouns
	Increase	Continuation	Dynamic verbs
CVC-		Repetition	Dynamic verbs
	Decrease	Diminution (+ -an)	Nouns
		Attenuation (+ -an)	Stative verbs

(20) CVC- reduplication on nouns: Collective/locative

Root	Gloss	Reduplication	Gloss
?œmæh	'ground'	?œm-?œmæh	'(dried) field'
		?œm-?œmæh-an	'mountain'
βato?	'stone'	βat-βato?-an	'a place full of stones'
kahœy	'tree'	kah-kahœy-an	'a place full of woods, forest'
paŋraŋ	'pineapple'	paŋ-paŋraŋ-an	'a place full of pineapples'
rokol	'taro'	rok-rokol-an	'a place full of taros'
?æwpir	'sweet	?æw-?æwpir-an	'a place full of sweet potatoes'
	potato'		

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¹⁵ In two instances, we found Ca-...-an with this meaning, cf. timæ? 'cook dishes' > ta-timæ?-an, 'vegetable garden' and romif > ra-romif-an 'a face full with a beard'.

(20')yako θ <om>i?æl ka <u>walwalo?</u>.

1S.Nom eat<AF>eat Acc honey

'I ate honey.'

(21) CVC- reduplication on nouns: Diminuation

Root	Gloss	Reduplication	Gloss
lœhoŋ	'mortar'	lœh-lœhoŋ	'small mortar'
ma?iyæh	'person,	ma?-ma?iyæh	'doll'
	human being'		
∫iβai?	'snake'	∫iβ-∫iβai?	'worm'
waθal	'sea'	waθ-waθal	'lake'

(21')hini? <u>ma?ma?iyæh</u> ?awhay ila this doll bad Asp

'This doll is broken.'

(22) CVC- reduplication on stative verbs: Attenuation¹⁶

Root/Stem	Gloss	Reduplication	Gloss
harai?	'dirty'	har-harai?-an	'a little dirty'
kərpəə	'fat'	kər-kərpəə-an	'a little fat'
lihpihan	'thin'	lih-lihpihan(-an)	'a little thin'
ŋalpæ?	'broad'	ŋal-ŋalpæ?-an	'a little broad'
∫arara?	ʻlike'	∫ar-∫arara?-an	'like a little'
∫il?i?	'heavy'	∫il-∫il?i?-an	'a little heavy'
θopaloy	'big'	θop-θopaloy-an	'a little big'
?awhay	'bad'	?aw-?awhay-an	'a little bad'

.

(23) CVC- reduplication on dynamic verbs: Continuation

Root	Gloss	Stem	Reduplication	Gloss
βiliθ	'touch'	βiliθ	βil-βiliθ	'keep on
				touching'
halay	'hang'	h <om>alay</om>	h(<om>)al-halay</om>	'keep on hanging'
lotor	ʻlink'	l <om>otor</om>	l(<om>)ot-lotor</om>	'keep on linking'
pama?	'carry'	pama?	pam-pama?	'keep on
				carrying'
ra?œœ	'drink'	r <om>a?œœ</om>	r(<om)>a?-ra?œœ</om)>	'keep on
				drinking'
∫apəl	'lay a mat'	∫ <om>apəl</om>	∫(<om>)ap-∫apəl</om>	'keep on laying a
				mat'
toβa	'poison (fish,	t <om>oβa</om>	t(<om>)oβ-toβa</om>	'keep on
	insects, small			poisoning'
	animals)'			
θapœh	'sweep'	θ <om>apœh</om>	θ(<om>)ap-θapœh</om>	'keep on
				sweeping'
?æріθ	'clip'	? <om>æpiθ</om>	?(<om>)æp-?æpiθ</om>	'keep on
				clipping'

(24')yako <u>pampama?</u> ka korkorin 1S.Nom keep on carrying on back Acc child

'I keep on carrying a child on (the) back.'

(25) CVC- reduplication on dynamic verbs: Repetition

Root	Gloss	Stem	Reduplication	Gloss
ŋoip	'forget'	maŋoip	maŋ-maŋoip	'often forgets'
paθay	'die'	таθау	maθ-maθay ¹⁷	'die one after another'
panraan	'walk'	manraan	man-manraan	'take a walk, walk here and there'

(25')yako <u>maŋmaŋoip</u> ka raroo? niʃo? 1S.Nom often forget Acc name 2S.Gen

'I often forget your name.'

There are cases of doublets, as the following data illustrate:

¹⁷ We subsume the notion of "distributivity" (for the verb "die") and "tentative" (for the verb "walk") proposed by Yeh (2003) under the term "repetition".

(26)

Root	Gloss	Reduplication		Gloss
∫atər	'see off'	∫a-∫atər	∫at-∫atər	'keep on seeing off'
tilhæhæl	'help'	ti-tilhæhæl	til-tilhæhæl	'keep on helping'

(26')laθia <u>tiltilhæhæl</u> yakin. 3S.Nom keep on helping 1S.Acc

In one instance, we found a different meaning attributed for CV- vs. CVC-reduplication. Compare: lagoy 'immerse, soak in water' > l(*<om>)a-lagoy 'swim' (continuous meaning) vs. l(<om>)ag-lagoy 'have a swim, swim here and there' (repetitive meaning).

2.2.3 CVV-reduplication

CVV-reduplication generally copies two identical vowels that occur in two distinct syllables and produces a CVV-CV.VC output, i.e., the reduplicant represents a long vowel while the root is disyllabic. It mainly applies to words with a CV.VC syllabic sequence. CVV-reduplication entails at least¹⁹ two meanings 'continuation' and 'attenuation', respectively illustrated in (27)-(27') and (28)-(28') and summarized in table (29).

(27) CVV-reduplication on dynamic verbs: Continuation

Root	Gloss	Stem	Reduplication	Gloss
ka.at	'write'	k <om>a.at</om>	k(<om>)aa-ka.at</om>	'keep on writing'
pa.atol	'sing'	ma.atol	paa-pa.atol/maa-ma.atol	'keep on singing'
ti.i∫	'wipe'	t <om>i.i∫</om>	t(<om>)ii-ti.i∫</om>	'keep on wiping'
θα.αβ	'burp'	θ <om>a.aβ</om>	θ(<om>)aa-θa.aβ</om>	'keep on burping'

^{&#}x27;They keep on helping me.'

¹⁸ Yeh (2003:125) mentions two forms for this verb. She points out that the first takes the *<om>* infix, and refers to the swimming of fish, as in. *l*<*om>aŋoy* (e.g. ?alaw kama <u>l</u><*om>aŋoy* ay ba:la? 'Fishes swim in the river'. The second form does not take the *<om>* infix, but gets reduplicated, cf. *la-laŋoy*, and refers to the swimming of human beings (e.g. hi ?obay ra:am a tomalan <u>la-laŋoy</u> ''Obay is very good at swimming.'). Her hypothesis regarding the second form as an instance of Ca-reduplication might be challenged. Except for the fact that *la-laŋoy* cannot be infixed with *<om>*, there is no way to decide whether this verb has undergone CV- or Ca- reduplication. The meaning given above tends to show that CV- reduplication is more likely.

¹⁹ We suspect that it might actually carry out the same semantic functions as CVC- and CV-reduplication, though we have been unable so far to uncover such data.

(27')so?o ?ampowa? <u>komaakaat</u>?

2S.Nom why keep on writing

'Why do you keep on writing?'

(28) CVV-reduplication on stative verbs: Attenuation

Root/Stem	Gloss	Reduplication	Gloss
βo.ok	'rotten'	βoo-βo.ok-an	'a little rotten'
ra.am	'know'	raa-ra.am-an	'know a little'
?i.iðo?	'deep'	?ii-?i.iðo?-an	'a little deep'

(28')yako <u>raaraaman</u> ila ka manosaisiyat

1S.Nom know a little Asp Acc Saisiyat language

(29) Meanings of CVV-reduplication

Reduplication patterns	Meaning		Root
CVV-	Increase	Continuation	Dynamic verbs
	Decrease	Attenuation (+ -an)	Stative verbs

There are, however, a few exceptions with our data. In (30), the vowel becomes a long vowel, once the syllable is reduplicated; in (31), two different vowels are reduplicated.

(30)

Root	Gloss	Stem	Reduplication	Gloss
∫a.il	'hide'	∫ <om>a.il</om>	∫(<om>)aa-∫a.il</om>	'keep on hiding'

(31)

Root	Gloss	Reduplication	Gloss
ko.ih	'dig'	ko-koih ~ koi-ko.ih	'keep on digging'
∫o.aw	'chase'	∫oa-∫o.aw	'keep on chasing'

(31')a. θia ?okay <u>kokoih/koikoih</u>.

3S.Nom Neg:Lig keep on digging

'He did not keep on digging.'

^{&#}x27;I know a little Saisiyat.'

2.2.4 -CV-reduplication

-CV- reduplication is a very unproductive pattern. We found it in only two instances (where two meanings "repetition" and "continuation" were obtained). They both exhibit doublet forms:

(32)

Stem	Gloss	Reduplication	Gloss
h <om>ayap</om>	'fly'	h(<om>)ayayap ~ h(<om>)a-hayap</om></om>	'fly here and there'
maariæ?	'swell'	maa <i>ri</i> riæ? ~ <i>maa</i> -maariæ?	'keep on swelling'

2.3. Full reduplication and serial reduplication

Yeh (2003:113) says that "full reduplication at morphological level such as ponæh-ponæh 'flowers everywhere' appears to be rare, though it is productive at syntactic level." (portion italicized by the authors). Our data shows that this is not entirely correct. Morphologically speaking, full reduplication is certainly not as productive as other patterns of reduplication, e.g. Ca- or CVC-reduplication, still exists.

To occur, though, it needs a trigger:20 one of these triggers consists of the suffixation of the base with -an (on nouns), as shown in (33).

(33) Full reduplication triggered by -an

Root	Gloss	Reduplication	Gloss
kahœy	'tree'	kahœy-kahœy-an	'forest'
poŋæh	'flower'	poŋæh-poŋæh-an	'garden'
walo?	'sugar'	walo?-walo?-an	'place full of sugar'

 $\theta < \infty$ i?æl (33')yako ka walwalo? ?i0aa? ma?an 1S.Nom eat<AF>eat Acc honey 1S.Gen then hima? walo?walo?an. hand place full of sugar

(i) a. yako kita?kita? ka korkorin. 1S.Nom have a look Acc child 'I had a look at a/the child'

b. *yako k<om>ita?kita? ka korkorin. have a look Acc child 1S.Nom

²⁰ The verb *kita?* 'see' was recorded as undergoing full reduplication, with no apparent trigger, though. cf. kita?-kita? 'have a look', as in (i). (ii) shows that the occurrence of the infix <om> is forbidden.

'I ate honey and my hands are full of sugar.'

The second trigger involves *Ca*- reduplication (on dynamic verbs), as in (34). In this latter case, *Ca*-reduplication occurs first on the base, cf. *haŋih* 'cry' > *ha-haŋih* 'cry for each other'. The stem then further undergoes CVCV-reduplication, cf. *ha-haŋih-haŋih*. As in other Formosan languages (cf. Rukai, Paiwan, Puyuma, see Zeitoun 2002), when *Ca*- appears along with full reduplication, it indicates a "plurality of participants" in reciprocals. The co-occurrence of *Ca*- + full reduplication yields a pattern of "serial" reduplication, defined by Blust (2001) as involving the reduplication of a segment that has already been reduplicated.²¹

(34) Full reduplication triggered by Ca-reduplication yielding serial reduplication

Root	Gloss	Reduplication	Gloss
haŋih	'cry'	ha-haŋih-haŋih	'cry for one another'
kotih	'pinch'	ka-kotih-kotih	'pinch one another'
roton	'gather'	ra-roton-roton	'gather all together'

(34')la θ ia <u>hahanihhanih</u>.

3P.Nom cry for one another

A few occurrences of Ca-followed by CVC-, CVV- and CV- were also found. These three patterns refer to a reciprocal action occurring repeatedly.

(35) Ca-reduplication with partial reduplication yielding serial reduplication

Root	Gloss	Ca- + partial reduplication	Gloss	
koßææh	'call for help'	ka-koβ-koβææh	'keep on calling each other for	
			help'	
tilhæhæl	'help'	ta-til-tilhæhæl	'keep on helping each other'	
kaaθ	'bite'	ka-kaa-ka.aθ	'keep on biting each other'	
kiim	'seek'	ka-kii-ki.im	'keep on looking for each	
			other'	
∫oaw	'chase'	∫a-∫oa-∫oaw	'keep on chasing each other'	

2.4 Reduplication of affixes

_

^{&#}x27;They cry for one another.'

²¹ In opposition to "triplication" which consists of the reduplication of the same or the totality of the root twice in a unitary process.

As shown in Yeh (2003:132), the infix $\langle om \rangle$ can be reduplicated, this leads to doublet forms²², as in (37). Other prefixes can also be reduplicated, the AF prefixes m- and ma- and a number of verbalizers²³.

(36) Reduplication of the AF affix <om>

Root	Gloss	Stem	Reduplication	Gloss
kpəə	'squeeze'	k <om>pəə</om>	kom-kompəə~k <om>əp-kpəə</om>	'keep on
				squeezing'
∫iβœh	'pour'	∫ <om>iβœh</om>	ſom-ſomiβœh~ʃ <om>iβ-ʃiβœh</om>	'keep on
				pouring'
∫βət	'hit, beat'	∫ <om>βət</om>	∫om-∫omβət~∫ <om>əβ-∫βət</om>	'keep on
				beating'
tβoŋ	'bark'	t <om>oβoŋ</om>	tom-tomβoŋ~t <om>oβ-toβoŋ</om>	'keep on
				barking'
tokaw	'jump'	t <om>okaw</om>	tom-tomkaw~t <om>ok-tokaw</om>	'keep on
				jumping'

(36')a. so?o somsomset yakin.

2S.Nom keep on beating 1S.Acc

'You keep on beating me.'

b. $\int \circ \circ \circ \int \frac{-\sin -3\beta \int \beta \circ t}{\cos -3\beta \int \beta \circ t}$ yakin.

2S.Nom keep on beating<AF> 1S.Acc

'You keep on beating me.'

(37) Reduplication of the prefix m-

Root	Gloss	Stem	Reduplication	Gloss
karma?	'steal'	marma?	mar-marma?	'keep on stealing'
paatol	'sing'	ma.atol	maa-maatol	'keep on singing'
panæ?	'shoot'	manæ?	man-manæ?	'keep on shooting'
panraan	'walk'	manraan	man-manraan	'take a walk'
paθay	'die'	maθay	maθ-maθay	'die one after another'
pæ?rəm	'sleep'	mæ?rəm	mæ?-mæ?rəm	'keep on sleeping'
?ara∫	'bring'	mara∫	mar-mara∫	'bring often'

(38) Reduplication of the prefix ma-

-

²² In one instance, we even got triplet forms: $\theta ?ok$ 'belch' > $\theta om ?ok \sim \theta < om > ?ok ?ok \sim \theta < om > ?ob ?ok$ 'keep on belching'.

²³ For reasons still not understood, other prefixes can not undergo reduplication, cf. *ti-kakaw* > *ti-kak-kakaw*, but not * *tik-tikakaw*.

Zeitoun & Wu: Saisiyat Reduplication Revisited

Root	Gloss	Stem	Reduplication	Gloss
ŋoip	'forget'	ma-ŋoip	maŋ-maŋoip	'forget often'
∫aəŋ	'sit'	ma-∫aəŋ	ma∫-ma∫aəŋ	'keep on
				sitting'
?aðəm	'fontanel'	ma-?að?aðəm	ma?-ma?að?aðəm	'keep on
				thinking'

(39) Reduplication of other verbalizers

Root	Gloss	Stem	Gloss	Reduplication	Gloss
hæ?ti∫ ²⁴	sneeze	min-hæ?ti∫	'sneeze'	min-minhæ?ti∫	'keep on sneezing'
ŋəθəl	nasal	hin-ŋວθວl	'clear one's	hin-hingəθəl	'keep on clearing
	mucus		nose'		one's nose'
romi∫	beard	paw-romi∫	'shave'	paw-paw-romi∫	'keep on shaving'

(39')θia minminhæ?tiʃ.

3S.Nom keep on sneezing

'He keeps on sneezing.'

3. Residual problems

3.1 The /a/ vowel in Ca-reduplication

In Ca- reduplication, the vowel occurring in the base is replaced by the vowel /a/. The occurrence of /æ/ (yielding Cæ-) results from the vocalic assimilation to a glottal sound in the base form (see also section 2.1).

3.2 "Breaking" of syllable boundaries and implications

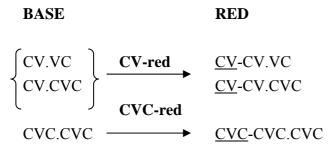
One theoretical assumption when dealing with reduplication is that the reduplicant form is a prosodic unit. It has been tested in many languages that prosodic units, such as the mora or the syllable, play an important role in the reduplicative domain (e.g. McCarthy and Prince 1990).

Saisiyat exhibits various syllabic sequences: CV.CVC, CVC.CVC, CV.VC, CV.VC, CV.VC(VC), C.CVC²⁵. One may suggest that the copying domain of CVC-, CV- is the first syllable of the base as illustrated as follows:

²⁴ This is a bound root, which cannot occur independently.

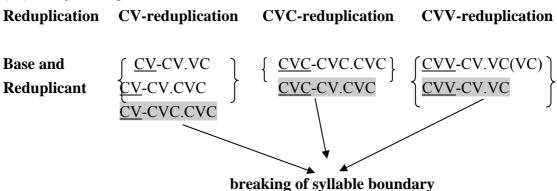
²⁵As mentioned above, the CCVC structure, e.g. [$\int \beta \delta t$] 'hit, beat'; [$\theta \beta \delta \eta$] 'meet', is treated underlyingly as CV.CVC, the surface form resulting from the deletion of the unstressed vowel.

(40) Partial reduplication



However, this is not true. CV-reduplication might duplicate the first syllable of a base CVC.CVC without copying the coda. CVC-reduplication might also copy segments across the syllable boundary from the base in CV. CVC structure, in which the onset of the second syllable can be reduplicated and become the final coda of the reduplicant (this has been reported also by Yeh 2000b). CVV-reduplication copies the initial vowel of the second syllable in CV.VC. This is summarized in the following table, with examples afterwards (we refer to such a phenomenon as "breaking" of a syllable boundary, for use of a better term).

(41) Saisiyat reduplication



(42) "Breaking" of syllable boundary in CV-reduplication

Root	Gloss	Reduplication	Gloss
ti∫koβaœh	'answer'	ti-ti∫koβaœh	'keep on answering'
tilhæhæl	'help'	ti-tilhæhæl	'keep on helping'
taw?an	'house'	ta-taw?an	'small house for children to play'
tawmo?	'banana'	ta-tawmo?-an	'a place full a bananas'

(43) "Breaking" of syllable boundary in CVC-reduplication

		1	<u> </u>
Root	Gloss	Reduplication	Gloss
ðiŋaθ	'stick'	δίη-δίηαθ	'keep on sticking'
haßai?	'blow'	haβ-haβai?	'keep on blowing'
lœhoŋ	'mortar'	lœh-lœhoŋ	'small mortar'
βato?	'stone'	βat-βato?-an	'a place full of stones'

(44) "Breaking" of syllable boundary in CVV-reduplication

Root	Gloss	Reduplication	Gloss
ka.aθ	'bite'	kaa-ka.aθ	'keep on biting'
кә.әβ	'cut'	кээ-кэ.эβ	'keep on cutting'
ra.am	'know'	raa-ra.am-an	'know a little'

From the perspective of moraic phonology, one may suggest that the reduplication processes in Saisiyat involves "light syllable reduplication" and "heavy syllable reduplication", requiring one mora or two moras respectively. Yeh (2000b) argues that CVC-reduplication is the most productive pattern in Saisiyat and our own corpus confirms her analysis: out of 217 lexical items, only 23 were found to have CV-reduplication. It might thus be so because in Saisiyat, the CVC syllable structure is predominant. However, referring to Saisiyat syllable structure in order to account for its dominant reduplication pattern is not really satisfying and altogether rather quite circular, as it raises the following question: which copying unit yields which meaning? In Saisiyat we cannot specify the prosodic unit of a reduplicant since semantic meanings carried out by CVC-/CVV-/-CVV- reduplication overlap partially/totally.

4. Conclusion

This paper has attempted to present further clarification with regards to the different aspects of Saisiyat reduplication.

We have provided an extensive inventory of Saisiyat reduplication patterns and reported new data, cf. (45) with additional evidence that affixes can be reduplicated in Saisiyat given and several series of doublets found.

(45) Forms and Meanings of Reduplication in Saisiyat: a reassessment

Reduplication patterns	Meaning		Root
Ca-	Instrumental nouns		Dynamic verb roots
	Reciprocal		Dynamic verb roots
	Future (I/B	F)	Dynamic verb roots
	Intensification & collectivity		Stative verb roots
CVC- & CV-	Increase	Continuation	Dynamic verb roots
		Repetition	Dynammic verb roots
		Collective/locative	Nouns
		(+- <i>an</i>)	
	Decrease	Diminution (+ -an)	Nouns
		Attenuation (+ -an)	Stative verbs
CVV-	Decrease	Attenuation (+ -an)	Stative verbs roots
	Increase	Continuation	Dynamic verb roots
-CV-	Increase	Continuation	Dynamic verb roots
		Repetition	Dynamic verb roots
Full Reduplication + -an	Collective/locative		Nouns

(46) Serial reduplication in Saisiyat: Forms and Meanings

Reduplication patterns	Meaning	Root
Ca- + full reduplication	Reciprocal + plurality	Dynamic verb roots
Ca- + CVC-/CVV-/CV- reduplication	Reciprocal + repetitive	Dynamic verb roots

However, one question remains unanswered: the meanings carried out by the different subpatterns included in partial reduplication overlap and there is no criterion to decide when the copying unit, whether a light or a heavy syllable, applies to the base, i.e., there is no criterion to help us account for the mapping between a certain prosodic copying unit and the semantic meaning associated to it. There is also a tendency in Saisiyat to reduplicate heavy syllables, but this is only a tentative conclusion.

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賽夏語重疊再論

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本文試著補充葉美利教授(2000a-b, 2003)對賽夏語重疊詞的研究, 並重新檢視葉美利教授的分析以及提供更加豐富的語料和新的重疊 形式及語意。重疊形式有三類,分別為 Ca-重疊、部分重疊以及全 部重疊。部分重疊包含 CV-, CVC-, CVV- 以及 -CV-, 然而這些 部分重疊形式的語意功能並沒有明顯的區分。本文亦特別探討疊形 式與特定詞綴的互動關係,以及同義不同音詞的呈現。最後本文提 出在賽夏語中,缺乏如何判定音韻重疊單位及其對應之語意功用的 準則問題。

關鍵詞:重疊詞賽夏語、台灣南島語、重新檢討