

Towards an adequate description of the tonal systems of Southern Ryukyuan

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Background and the aim

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- Aim
 - To discuss methods that facilitate an adequate description of the tonal systems of Southern Ryukyuan.
- Background
 - Most of the studies that reconstruct the proto-Ryukyuan tonal system are based on a single data source.
 - The data source turned out to be **incorrect** with respect to Southern Ryukyuan tonal systems.
 - Therefore, any reconstruction of the Proto-Ryukyuan tonal system should be regarded as **unreliable**!
 - We need to describe Southern Ryukyuan tonal systems by means of an appropriate method.

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Tonal classes in Proto-Ryukyuan

- Proto-Ryukyuan Three tonal classes (Hattori 1959; Matsumori 1998; Igarashi 2016)
 - Class A **pana* 'nose', **usi* 'cow', **ofo* 'sound', **gama* 'cave'
 - Class B **pana* 'flower', **kata* 'shoulder', **ita* 'board', **wata* 'belly'
 - Class C **pana* 'beach', **pune* 'boat', **woke* 'bucket', **kobu* 'spider'

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Tonal classes in Proto-Ryukyuan

- Reflexes of the tonal classes in contemporary dialects
 - Class A **pana* 'nose': Asama *hánáá*, Yoron *pana*, Nakijin *phanáá*, Ikema *hána*
 - Class B **pana* 'flower': Asama *hanaá*, Yoron *paná*, Nakijin *phanaá*, Ikema *hána*
 - Class C **pana* 'beach': Asama *haamá*, Yoron *pámá*, Nakijin *phámaa*, Ikema *hamá*

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Reconstruction of the Proto-Ryukyuan tonal system

- No consensus has emerged. (Hattori 1959; Matsumori 1998; Shimabukuro 2007; Vovin 2008)
- The controversy arises, in my view, because of the absence of reliable Southern Ryukyuan data.
- Standard data source (Hirayama et al. 1967) is incorrect in many respects, even with respect to the number of tonal contrasts.

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Two tones -> three tones

Dialect	Original Tones (Hirayama et al. 1967)	Revised Tones (Matsumori 2015, 2016, 2010, etc.)
Taroma	2 tones (Hirayama et al. 1960)	⇒ 3 tones (Matsumori 2001, 2010)
Ikema	2 tones (Hirayama et al. 1960)	⇒ 3 tones (Igarashi et al. 2011)
Komi	2 tones (Hirayama et al. 1967)	⇒ 3 tones (Matsumori 2015)
Kohama	2 tones (Hirayama et al. 1967)	⇒ 3 tones (Matsumori 2015)
Kuroshima	2 tones (Hirayama et al. 1967)	⇒ 3 tones (Matsumori 2015, 2016)
Yonaha	2 tones (Hirayama et al. 1960)	⇒ 3 tones (Matsumori 2013)
Karimata	2 tones (Hirayama et al. 1960)	⇒ 3 tones (Matsumori 2015)

Recent findings about S. Ryukyuan

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- Characteristics of Southern Ryukyuan tones (Matsumori 2010; Igarashi et al. 2011, 2012, Igarashi 2015; Igarashi 2016)
 - Tonal contrasts are neutralized in a wide range of prosodic contexts
 - A single tonal class can exhibit several allophonic variations.
 - The distinctive feature of a lexical tone may be observed outside the word having that tone.

Ikema (e.g. Igarashi et al. 2017)

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(1) X (isolation)	bútu husband	máju cat	nabi pan
(2) X=nú (X=NOM)	bútu=nú husband=NOM	máju=nú cat=NOM	nabi=nú pan=NOM
(3) X=mai (X=also)	bútu=mai husband=also	máju=mai cat=also	nabi=mái pan=also
(4) X=nú miin./njaan. (X=NOM not.exist)	bútu=nú miin. husband=NOM not.exist	máju=nú miin. cat=NOM not.exist	nabi=nú njáán. pan=ACC not.exist
(5) X=u tumi-n. (X=ACC search.NEG)	bútu=u tumi-n. husband=ACC search.NEG	máju=u tumi-n. cat=ACC search.NEG	nabi=u tumi-n. pan=ACC search.NEG
(6) X=mai njaan.	bútu=mai njaan. husband=also not.exist	máju=mai njáán. cat=also not.exist	nabi=mái njaan. pan=also not.exist

Tarama (Matsumori 2010; Igarashi 2015, 2016b; Aoi 2016)

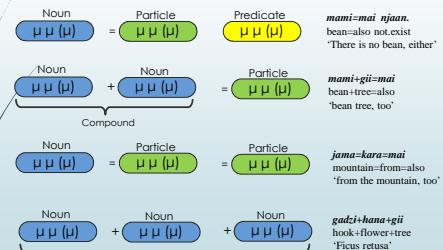
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(1) X (isolation)	mídzí water	mámi bean	wáa pig
(2) X=nú (X=NOM)	mídzí=nú water=NOM	mámi=nú bean=NOM	wáa=nú pig=NOM
(3) X=mai (X=also)	mídzí=mái water=also	mámi=mái bean=also	wáa=mai pig=also
(4) X=mai neen. (X=also not.exist)	mídzí=mái néén. water=also not.exist	mámi=mái neen. bean=also not.exist	wáa=mai neen. pig=also not.exist
(5) X+kami (X+jar), X+kii (X+tree), X+mu/u (X+miso)	mídzí=gámi water+jar	mámi+gíi bean+jar	wáa+mu/u pig+miso
(6) X+kami=mai (X+jar=also), X+kii=mai (X+tree=also), X+mu/u=mai (X+miso=also)	mídzí=gámi=mái water+jar=also	mámi+gíi=mai bean+jar=also	wáa+mu/u=mai pig+miso=also

New methods for elicitation

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- A sequence of **poly-moraic morphemes** is necessary for full realization of tonal contrasts in Southern Ryukyuan.



New methods for elicitation

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- New frame sentences are required!
 - The "noun-plus-particle frame" is no longer useful for Southern Ryukyuan.
- New frame sentences recommended
 - X=kara/karadu frame
 - "X+field frame"
 - "X+people frame"
 - "X+language frame"

Compounds (developed by Matsumori (2013-))

X kara/karadu frame [“カラ・カラドウ”フレーム]

(adopted from Matsumori 2016)

Examples:

- Class A: **óbo=hárá=dú** (muduri kee.) '(Come back) form the cave'
 - Class A: **jámá=hárá=du** (muduri kee.) '(Come back) form the mountain'
 - Class A: **fune=hera=du** (muduri kee.) '(Come back) form the boat'
- The Kuroshima dialect (Matsumori 2016: 65)

Noun + polymoraic particle & predicate

- Polymoraic particle
- =kara 'from', =mai 'also', =nkai=/nkée 'ALL'
- Ikema, Tarama (e.g. Igarashi 2015)
- =mee=du 'also=FOC', =nkée=du 'ALL=FOC'
- Yonaha (Matsumori 2013)
- =hara, 'from', =hara=du 'from=FOC', =kin=a 'than, TOP'
- e.g. Kuroshima (Matsumori 2016)

<p>Compounding I X+field frame [OO畠フレーム]</p> <p>(adopted from Matsumori 2015)</p> <ul style="list-style-type: none"> Examples: <ul style="list-style-type: none"> Class A: kúusú + bári = kárá = du... 'from the pepper field' Class B: mámí + bári = kara = du... 'from the bean filed' Class C: búúgi + bári = kara = du... 'from the bean filed' The Karimata dialect (Matsumori 2015: 59) First element <ul style="list-style-type: none"> Class A: *piru 'onion', (*kooso? 'pepper') Class B: *mogi 'wheat', *mame 'bean', *ori 'gourd' Class C: *gaora 'bitter gourd', *nabeare? 'sponge gourd', *tamana 'cabbage', (*woogl 'sugar cane') Second element <ul style="list-style-type: none"> *paru 'field' (Class B) / *patake 'field' (Class C) 	<p>Compounding II X+people frame [OO人フレーム]</p> <p>(adopted from Matsumori 2015)</p> <ul style="list-style-type: none"> Examples: <ul style="list-style-type: none"> Class A: míááku + pítu = nu = du... 'the Miyako people' <small>NOM.NOC.</small> Class B: jámdu + pítu = nü = du... 'the Japanese people' <small>NOM.NOC.</small> Class C: tárámá + pítu + nu = du... 'the Miyako people' <small>NOM.NOC.</small> The Komi dialect (Matsumori 2015: 76-77) First element <ul style="list-style-type: none"> Class A: *jaama 'Yaeyama', *pirara 'Hirara', (*mijako 'Miyako') Class B: *jamato 'Japan', *okinawa 'Okinawa', *ikema 'Ikema' Class C: *taroma 'Tarama', (*patoma 'Hatoma') Second element <ul style="list-style-type: none"> *pítu 'person' (Class A)
<p>Compounding III X+language frame [OO語フレーム]</p> <p>(adopted from Matsumori 2015)</p> <ul style="list-style-type: none"> Examples: <ul style="list-style-type: none"> Class A: jáómá + múní# = mói = du... 'the Yaeyama language, too' Class B: jámáhú + múní# = mai = du... 'the Japanese language, too' Class C: táráma + muní# = mai = du... 'the Tarama language, too' The Karimata dialect (Matsumori 2015: 63) First element <ul style="list-style-type: none"> Class A: *jaama 'Yaeyama', *pirara 'Hirara', (*mijako 'Miyako') Class B: *jamato 'Japan', *okinawa 'Okinawa', *ikema 'Ikema' Class C: *taroma 'Tarama', (*patoma 'Hatoma') Second element <ul style="list-style-type: none"> *monoil 'speech' (Class B), *kuti 'mouth/language' (Class A) 	<p>Vocabulary list</p> <ul style="list-style-type: none"> Matsumori's Keiretsubetsugoi (Matsumori 2000, 2012) <ul style="list-style-type: none"> Standard list 253 Ryukyuan cognates "J-R COGNATES" (Igarashi 2016a; 2018b) <ul style="list-style-type: none"> Large-scale list 1441 Ryukyuan cognates (1290 Japanese-Ryukyuan cognates) "Ryukyuan accent 160" <ul style="list-style-type: none"> 琉球語アクセント調査票160 Small list 160 Ryukyuan cognates widely attested both in Northern and Southern Ryukyuan.
<p>Conclusion</p> <ul style="list-style-type: none"> Twentieth-century descriptions of Southern Ryukyuan turns out to be incorrect with respect to the tonal systems. They even underestimated the number of tonal contrasts because they overlooked wide-spread tonal neutralization. Any reconstruction of the Proto-Ryukyuan tonal system proposed so far should be regarded unreliable. We need to start afresh with a clean slate! In this talk I discussed methods that facilitate an adequate description of the tonal systems of Southern Ryukyuan. 	<p>References</p> <ul style="list-style-type: none"> Aoi (2016) = 青井隼人 (2016) 「南琉球宮古多良間方言の三型アクセント—その特徴と中和—」『音声研究』20(3), 66-80. Hattori (1979) = 脇部四郎 (1979) 「日本祖語について21-22」『言語』8(1): 97-107; 8(2): 504-516. Hirayama et al. (1967) = 平山輝男, 大島一郎, 中本正智 (1967) 『琉球先島方言の総合的研究』東京: 桜楓社. Igarashi, Yosuke, Yukinori Takubo, Yuka Hayashi, and Tomoyuki Kubo (2011) "How many tonal contrasts in Ikema Ryukyuan?", <i>Proceedings of the 17th International Congress of Phonetic Sciences</i>, 930-933. Igarashi et al. (2012) = 五十嵐陽介, 田窪行則, 林由華, ベラール・トマジ, 久保智之 (2012) 「琉球宮古語池間方言のアクセント体系は三型であつて二型ではない」『音声研究』16(1), 134-148. Igarashi, Yosuke, Yukinori Takubo, Yuka Hayashi, and Tomoyuki Kubo (2018) "Tonal neutralization in the Ikema dialect of Miyako Ryukyuan," To be published in: H. Kubozono and M. Girka (eds.) <i>Tonal Change and Neutralization</i>, pp. 83-128, Berlin: Mouton. Igarashi (2015) = 五十嵐陽介 (2015) 「南琉球宮古多良間方言のアクセント型の記述」『比較日本文化研究』8, 1-43. Igarashi (2016a) = 五十嵐陽介 (2016a) 「アクセント型の対応に基づいて日琉祖語を再建するための語彙リスト「日琉語類別語彙」」『日本語学会2016年度春季大会予稿集』, 233-238.

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