# Why it is important to study the Ryukyuan languages

— The example of Ōgami Ryukyuan —

#### Thomas Pellard

thomas.pellard@gmail.com

Oxford University — 2009, January 19th



- Introduction
- Ogami Ryukyuan
  - Vowels
  - Consonants
  - Syllables
- Classification
- Reconstruction
  - Vowels
  - Tone
  - Lexicon & morphology
- Conclusions

# The Ryukyuan language family

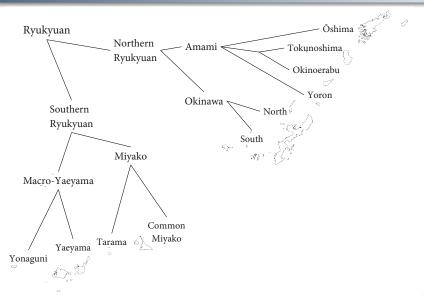
Ryukyuan = a group of 5 languages (at least) spoken in the Ryūkyū 琉球 islands

- North: Amami, Okinawan
- South (Sakishima 先島): Miyako, Yaeyama, Yonaguni

# What is Ryukyuan?



# The Ryukyuan language family



# The Ryukyuan languages today

#### All Ryukyuan languages are highly endangered:

- no children acquiring Ryukyuan as their first language
- all speakers are bilingual in Japanese
- the younger generations are Japanese monolinguals
- the youngest fluent speakers usually are in their 60s
- still no serious conservation or revitalization program

# Ryukyuan linguistics today

- lack of reference grammars (except Miyako Ryukyuan)
- few good dictionaries
- few accurately transcribed texts published
- most studies are based on limited data elicited through translation of Japanese and not on natural speech
- descriptions of phonetics are impressionistic
- framework of Japanese traditional grammar and phonology
  - researchers expect to find the same features and categories as in Japanese

# Why study Ryukyuan?

- The Ryukyuan languages exhibit some typologically uncommon features
- They also can make important contributions to the historical study of the Japanese language

# Ōgami Ryukyuan

A dialect of Miyako Ryukyuan, spoken on the Ōgami island 大神島 (±30 inhabitants)

# Ōgami Ryukyuan

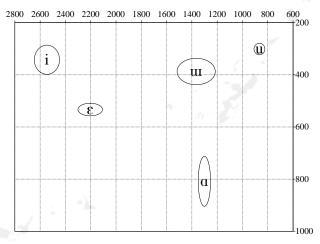
- highly endangered dialect
- important religious taboos that can impede fieldwork
- 'aberrant' dialect that overturns many of our preconceptions of what a Japonic language looks like
- data based on my own fieldwork

#### Ōgami: uncommon 5-vowel system

	Front	Back	
High	i	w u	
Mid	ε		
Open		α	

Intro Ōgami Classification Reconstruction Conclusions Refere Vowels Consonants Syllables

# Vowels (female speaker)



#### Vowels

/w/: high back unrounded, pronounced with the lips spread

≠ Japanese high back vowel



## Consonants

#### Ōgami: 9 consonants

	Bilabial	Labiodental	Alveolar	Velar
Stop Nasal	p		t	k
Tap	m	6	n ſ	
Fricative Approximant		t v	S	

#### Consonants

Only dialect with no voicing distinction

Smallest consonant inventory

Any sonorant except /r/ can be syllabic

```
/mta/ [mta] 'earth'
/nta/ [nta] 'where?'
/vta/ [nta] 'thick'
/mm/ [mta] 'yam'
/vv/ [vta] 'sell'
```

Voiceless fricatives can also be syllabic

```
/sta/ [sta] 'below"
/pstu/ [pstu] 'person'
/ftai/ [ftai] 'forehead'
/pssma/ [ps:ma] 'daytime'
```

Whole words can be constituted of voiceless consonants only

## Vowel-less, voiceless words

```
/ss/
      'dust, nest, scrub'
/kss/ 'breast, milk, fish hook, come, to fish'
/pss/ 'day, vulva'
/ff/ 'comb, bite, fall (rain), close'
/kff/ 'make'
/fks/ 'build, mouth'
/ksks/ 'month, listen, poke, arrive, Earth'
/sks/ 'cut'
/psks/ 'pull'
```

Previous researchers (Kajiku 1977, Ōno et al. 1998):

syllabic voiceless fricatives have in fact a devoiced vowel /u/ or /u/ as their nucleus

```
[ftai] > [futai] 'forehead'
[pṣːma] > [pɰːma] 'daytime'
[kfː] > [kɰfɰ] 'make'
[kṣː] > [kɰ] 'breast'
```

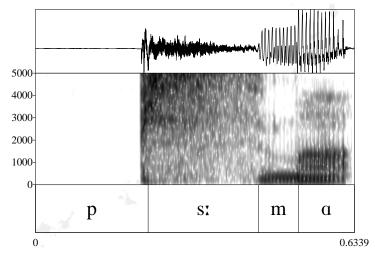
This view can be refuted on the basis of:

- acoustical
- phonological
- morphophonological evidence

Intro Ōgami Classification Reconstruction Conclusions Refere Vowels Consonants Syllables

## No acoustic trace of a vowel

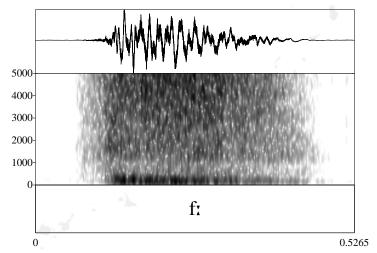
#### /pssma/ 'daytime'



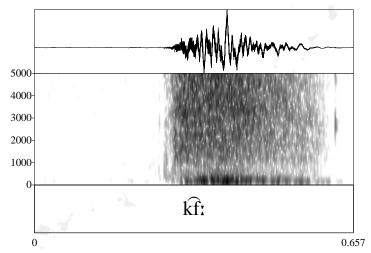
Intro Ōgami Classification Reconstruction Conclusions Refere Vowels Consonants Syllables

## No acoustic trace of a vowel

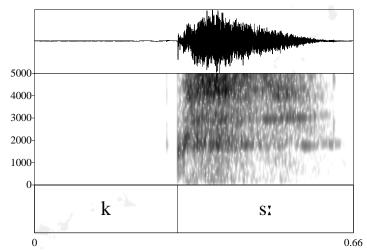
#### /ff/ 'comb'



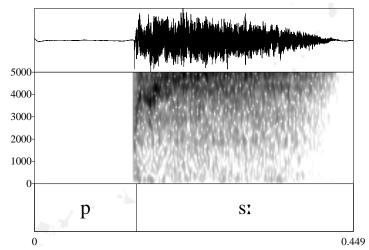
#### /kff/ 'make'



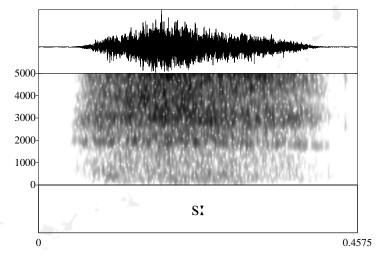
#### /kss/ 'breast'



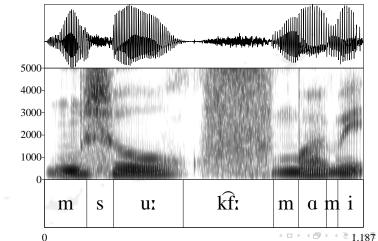
### /pss/ 'day'



/ss/ 'dust'



/msuu kff mami/ 'the beans from which we make *miso*'

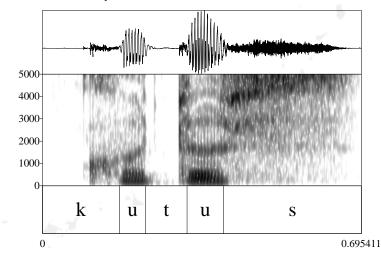


# No vowel devoicing

Intro Ōgami Classification Reconstruction Conclusions Refere Vowels Consonants Syllables

# No vowel devoicing

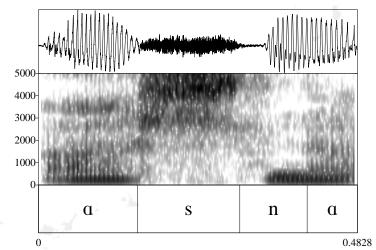
#### /kutus/ 'this year'



# No vowel even in environments that should block vowel devoicing

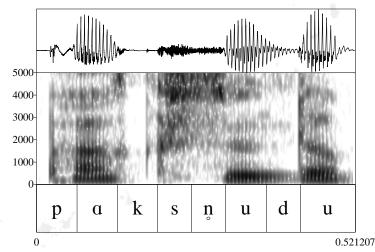
# No vowel anywhere

#### /as=na/ 'do not!'



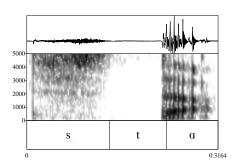
# No vowel anywhere

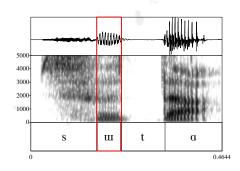
#### /paks=nu=tu/ 'bee=NOM=FOC'



# Existence of minimal pairs

syllabic fricative vs fricative + high vowel





/sta/ 'below' /swta/ 'tongue'

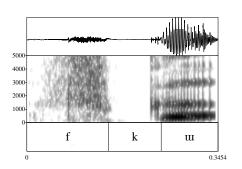


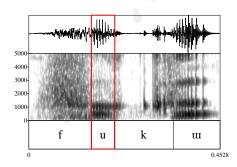






/swta/ 'tongue'





/fkw/
'mouth'

/fukw/ 'lapel'





/fkɯ/



/f<mark>u</mark>kw/

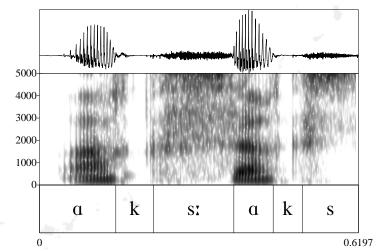
# Syllabic fricatives pattern like consonants and not like vowels in the morphology

Gloss	Bare stem	Accusative form
'water'	mikw	mikwu
'person'	pstu	pstuu
'sea'	im	immu
'dog'	in	innu
'smoke'	kif	kiffu
'stone'	is	issu

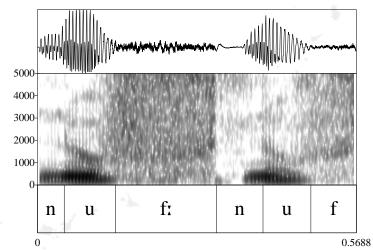
#### Lengthening in reduplicated adjectives

```
'fresh"
                 > pukuru:pukuru
        pukuru
              > taka:taka
'high' taka
'heavy'
                 > ingin
'thin'
        pis
                 > pis:pis (*pisu:pis)
                 > aks:-aks (*aksw:aks)
'hot'
        aks
                 > nuf:-nuf (*nufu:nuf ~ nufv:nuf)
'warm'
        nuf
```

#### /akss-aks/ 'hot'



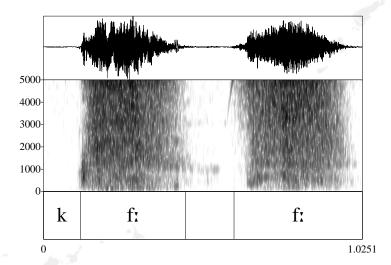
#### /nuff-nuf/ 'warm'



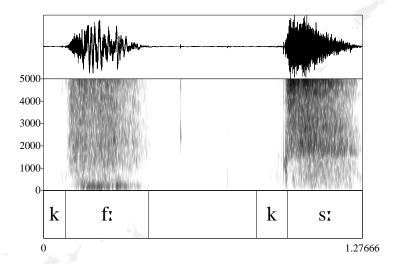
#### Vowel-less, voiceless words

# Sequences of voiceless words are possible

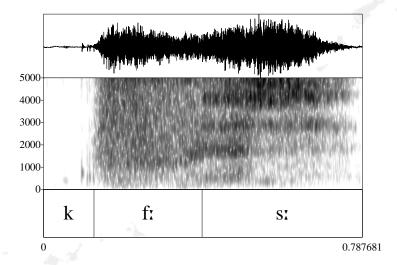
#### /kff ff/ 'the combs that I make'



#### /kff kss/ 'the fish hooks that I make'



#### /kff ss/ 'the nest that [the bird] makes'



Voiceless fricatives can be syllabic (and moraic)

- ™ but not /r/!
- > violation of the 'universal' hierarchy of syllable peaks and of mora sonority (Zec 2007)

#### Hierarchy of syllable peaks

Vowels ≫ \*! Liquids ≫ Nasals ≫ Obstruents

# Syllabic consonants

Languages that allow words to be constituted of voiceless consonants only are very rare:

- Nuxálk/Bella coola (Salishan, Canada; Bagemihl 1991): [xtp'xwttpt:skwhts'] 'Then he had had in his possession a bunchberry plant'
- Tashlhiyt Berber (Afro-Asiatic, Morocco; Ridouane 2008):
   [tssk[ftstt tftxtstt] 'you dried it and rolled it'

# Importance of phonetics for the reconstruction

```
"reef" is often transcribed as [pisi]
```

- ➤ PR \*pese
- data from other Ryukyuan languages suggest
- \*pise instead (cf. Shuri hwisi)
- in my analysis, "reef" is /pssi/ [psci]
- ➤ PR \*pise

#### Classification

Ryukyuan is generally considered to be a sister branch of Japanese

- several people have expressed doubts since no serious evidence has been presented
- > the burden of proof lies with the proponents of a single Proto-Ryukyuan language

#### Classification

#### Shared innovations in Ryukyuan (not in Japanese):

- \*teda for "sun"
- "intestines" > "belly" for \*wata
- \*penar- for "decrease"
- incorporated stative auxiliary in verb forms
- adversative marker \*suga ~ \*soga
- instrumental marker \*se
- "what?" pronoun \*nawo ~ \*nowo
- plural markers \*kja and \*ta
- reflexive pronoun \*duu
- "strength" \*taja



#### Classification

Japanese innovations (absent from Ryukyuan):

- \*i > u in the initial of "scale"
- \*otoko for "man"
- \*kami for "hair (of the head)"
- \*tabe for "eat" (< honorific)</li>

	"sun"	"decrease"	"belly"	"scale"	"man"	"hair"	"eat"
Hachijō Tokyo Kyoto Kagoshima	oçisama çi hi: oçisa:	tʃittoɲi narɯ herɯ heru het	hara hara hara hara	kokedza wroko uroko uroko	onokogo otoko otoko otoko	tsuburinoke kaminoke kami kannoke	kamw taberw taberu tamot
Naze Wadomari China Kametsu Yoron Iejima Sesoko Nakijin Shuri Ögami Hirara Ikema Nagahama	tïda tida tida tida tida tida tida tida ti	xïnarjuŋ çinajuŋ çinajuŋ dunaruı pinajuŋ pina:juŋ çinaiŋ phina:ruŋ dinajuŋ pinac- pinan pinai pinai pinai	wata wata: wata: wata wata wata wata: wata: wata: wata: wata: wata pata bata bata	7ikki 7i:tji 7i:ki 7ikki 7ikki 7itki 7itci: 7iri:ki 7iritg'i: 7iritci 1iuki 1iki 1iki 1iki	jiŋga jiŋga: jiŋga: jiŋga huiga jikiga jiki'ga jiki'ga: wikiga pikitum bikidum bikidum bikidum	kamatsinki haradzi haradzi karadzi hurazinufi: harazi hara:dzi hara:dzi karazi: karaku karadzi aka	kamjun kamin kamin kamin kurjun kein kein kein kanun fou foi fau fau
Tarama	tida tida	pinal	bata bada	iľki	bikidum	aka aka	fu:
Ishigaki Hatoma Taketomi Hateruma	tida tida tida sina	pinaruŋ pinaruŋ pinaruŋ pinaruŋ	bata bata bata	?iragï ?iraki ?iru ?irigi	bigiduŋ bikidumu bi:dõ: bidumu		opoin ffun hoin hon
Yonaguni	tidaŋ	çinnaruŋ	bata	?ittu	biŋga	karaŋ	fuŋ

# Phylogeny of Ryukyuan

> Ryukyuan is a valid subgroup, a sister branch to Japanese

#### Reconstruction

The Ryukyuan languages are crucial for the reconstruction of Proto-Japonic

# The place of Ryukyuan within Japanese historical linguistics

- The Ryukyuan languages are often thought to be simply Japanese dialects derived from Old or Middle Japanese
- A closer look at the Ryukyuan data and a strict application of the comparative method reveal a different picture
- The Ryukyuan languages preserve many archaic features, and features that had already disappeared in OJ

#### Vowels

The Ryukyuan languages preserve some vowel distinctions older than OJ (Hattori 1978–1979, Thorpe 1983, Pellard 2008)

Previous studies have often not given many clear examples, and most of them come from Northern Ryukyuan

#### Vowels

#### Miyako Ryukyuan:

- PJ \*i, \*ui and \*u tend to undergo syncope, assimilation or fricativization
- PI \*e, \*əi and \*o raise to /i/ and /u/

#### Vowels

#### Kōrui and otsurui

Miyako Ryukyuan: PJ \*əi ≠ \*ui

OJ: >  $i_2$ 

	OJ	Ōgami	Proto-Miyako	PJ
"moon"	tuki <sub>2</sub> ~ tuku-	ksks	*ts1k1	*tukui
"god"	kami <sub>2</sub> ~ kamu-	kam	*kam	*kamui
"rise"	$oki_2 \sim oko_2$ - $ki_2 \sim ko_2$ -	uki	*uki	*əkəi
"tree"		kii	*kii	*kəi

Miyako Ryukyuan: PJ \*i ≠ \*e

OJ: >  $i_1$ 

	OJ	Ōgami	PM	PJ
"seashell"	$mi_1na$	mmna	*mna	*mina
"day(time)"	$pi_1ru$	pssma	*pırı-ma	*piru
"put in"	ire	uri	*1ri	*ire
"water"	$mi_1du$	mikw	*midz1	*meNtu
"garlic"	$pi_1ru$	piw	*pir1	*peru
"color"	$iro_2$	iru	*iru	*erə

#### Midvowels

Miyako Ryukyuan: PJ \*u ≠ \*o

OJ: >  $u(o_1)$ 

	OJ	Ōgami	PM	PJ
"mortar"	usu	us	*us1	*usu
"sell"	ur-i	บบ	* <sub>VV</sub>	*ur-i
"to face"	mukap-	nkai	*nkai	*mukap-
"medicine"	kusuri	ffuu	*fusur1	*kusori
"melon"	uri	uш	*urı	*ori1
"wheat"	$mugi_1$	mukw	*mug1	*moNki

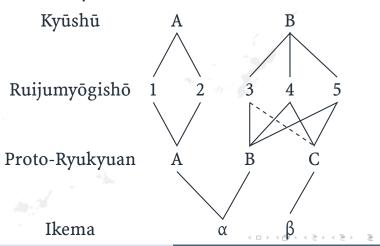
<sup>&</sup>lt;sup>1</sup> see Middle Korean "woy



# Ryukyuan has two different reflexes for some Japanese tone categories

#### Tone

Disyllabic nouns (Hattori 1958, Matsumori 1998, 2001, Hayashi et al. 2009):



	Myōgishō	Ōita	Kag.	Ikema	Tarama
2.4	平上	}HL		α HH-LL β HH-HH	
2.5	平東		211	α HH-LL β HH-HH	

#### No clear conditioning environment

- > We must reconstruct more categories
- Dialect mixing could be a possible explanation, but there is no real evidence for this

# Lexicon & morphology

Ryukyuan also preserves some archaic words ans morphological markers

#### Pronouns

na is both a first and second pronoun in OJ

- (1) a. 奈 何 名 能良佐禰

  na ga NA no<sub>2</sub>r-as-ane

  you NOM name name-HON-DES

  "I wish you tell me your name!" (MYS V: 800)
  - b. 名 兄 乃 君
    na SE no<sub>2</sub> KI<sub>1</sub>MI<sub>1</sub>
    I beloved COP lord
    "My beloved lord" (MYS XVI: 3885)

#### Pronouns

Whitman (1999) proposed that it was originally a reflexive pronoun

#### Pronouns

This hypothesis is supported by Miyako (Ōgami) Ryukyuan:

```
kanu pstaa naa-ta ik-a-tɛɛn=ti aur-i=w
DIST person.TOP LOG-PL go-IRR-ACOM=QT say-CVB=IPF
"They; are saying they; won't go" (Pellard 2009)
```

### Pronouns

EOJ has a form  $wano_1$  和奴, unkwown in WOJ, for the first person pronoun

\*wano can be reconstructed for PR

EOJ wano<sub>1</sub>
Kametsu waŋ
Iejima waŋ
Yonaha banu
Ishigaki banu
Yonaguni banu (plur.)





### Focus marker

WOJ has a focus marker  $so_2 \sim zo_2$ Ryukyuan and EOJ:  $t \sim d$ , not z

> WOI  $so_2$ **EOI**  $to_2$ du Kametsu **Iejima** du Ōgami tu du Ishigaki Yonaguni du



## One

#### Vowel alternation in the root of the numeral one:

OJ	$pi_1to_2$	$pi_1to_2$ -tu
Hachijō	hito	te-tsu
Naze	te²u	t <sup>?</sup> iː-tsi
Kametsu	te <sup>2</sup> u	t <sup>?</sup> iː-tsi
Iejima	ts²u	t²iː-tɕi
Shuri	tsu	tiː-tsi
Ōgami	pstu	pstiː-ks
Ishigaki	pıtu	pıti:-dzı

> PJ \*pitə ~ \*pite-tu



Hachijō tsuburi Serikaku tsuburu Iejima siburu Ishigaki tsıburı

Cf. also MJ *tumuri* ~ *tuburi*, an uncommon word for "head"

### Head

#### ™ Kojiki:

- Susanowo kills the serpent Yamata no Oroti by cutting its 8 heads
- he finds a sword called *tumu-gari no tati* in the monster's tail
- ➤ this mysterious name could be interpreted as "the head-cutting sword", with the root tumu "head"

#### Vovin (2009):

- any item compared to Korean has to be reconstructible for Proto-Japonic in order for the comparison to be valid
- this means that it must be attested in Ryukyuan
- items not attested in Ryukyuan should be regarded as borrowings from Korean
- ➤ the Ryukyuan data becomes crucial



A closer look at the Ryukyuan data enables us to rescue some comparisons rejected by Vovin (2009)

"morning" OJ asa :: MK achom

#### Miyako:

- asa-munu "breakfast"
- asa-tida "morning sun"

"origin, base" OJ mo2to2 :: MK mith

#### Miyako:

- mutu "origin"
- mutu-ni: "main root"
- ja:-mutu "main lineage"

"pot, hearth" OJ kama :: MK kama

## ு Ōgami:

- ukama "hearth"
- pakama "rice cooking pot"

"darkness" OJ yami2:: MK cyemul-

™ Ōgami: ffa-jam "id."

"algae, seaweed" OJ mo ~ me₂:: MK mol

™ Miyako mu: "id."

"body" OJ mu- ~  $mi_2$ :: MK mwom

© Ōgami miw < PM \*m11 "flesh"

"mountain" OJ *mure* :: MK *mwoyh / mwolwo*, Paekche *mure* 武禮

🖙 ? Ōgami mmi

"leek" J nira :: MK myel

© Ōgami miwa < PM \*mาrına

"crowd, gathering" OJ mure :: MK mwul

□ Ōgami -nummi "plural suffix"

"all" J tada :: MK ta

© Ōgami -ta "plural suffix"

■ I do not argue for or against the validity of the above comparisons with Korean, but they cannot be rejected on the sole basis that there is no Ryukyuan cognate

## Conclusions

- The Ryukyuan languages exhibit some very interesting features for both linguistic typology and Japanese historical linguistics
- We still need more data, and more accurate data
- This can only be done through fieldwork
- Unfortunately all Ryukyuan languages are slowly disappearing

# The description of the different Ryukyuan languages is a very urgent task

## References I

- BAGEMIHL, Bruce, 1991. Syllable structure in Bella Coola. Linguistic Inquiry 22: 589-646.
- HATTORI, Shirō, 1958. Amami guntō no shohōgen ni tsuite Okinawa/Sakishima shohōgen to no hikaku. *Jinrui kagaku* IX.
- Hattori, Shirō, 1978–1979. Nihon sogo ni tsuite 1–22. Gengo 7(1)-7(3), 7(6)-8(12).
- Hayashi, Yuka, Pellard, Thomas, Takubo, Yukinori, Kubo, Tomoyuki & Igarashi, Yōsuke, 2009. The Tone system of Ikema Ryukyuan. In *The History & Reconstruction of Japanese Accent*. Paris: Crlao-Cli. 3–4 septembre 2009.
- Kajiku, Shin'ichi, 1977. On'in. In Hōsei daigaku Окіnawa вилка келкұйjo (ed.) *Ryūkyū no hōgen: Miyako Ōgami-jima*, Tokyo: Hōsei daigaku shuppankyoku, 7–42.
- MATSUMORI, Akiko, 1998. Ryūkyū akusento no rekishiteki keisei katei ruibetsu goi 2-hakugo no tokui na gōryū no shikata o tegakari ni. *Gengo kenkyū* 114: 85–114.
- MATSUMORI, Akiko, 2001. Historical tonology of Japanese dialects. In Kaji, Shigeki (ed.) Cross-linguistic studies of tonal phenomena. ILCAA, Tokyo: ILCAA, 93–122.
- Ōno, Makio, Kuno, Makoto, Sugimura, Takao & Kuno, Mariko, 1998. Miyako Ōgami-jima hōgen no onsei: tango to bunpō (fu: Karimata hōgen). Morioka: Makio Ōno.
- Pellard, Thomas, 2008. Proto-Japonic \*e and \*o in Eastern Old Japanese. *Cahiers de linguistique Asie orientale* 37(2): 133–158.



## References II

- Pellard, Thomas, 2009. *Ögami Éléments de description d'un parler du Sud des Ryūkyū*. Ph.D. thesis. École des hautes études en sciences sociales.
- RIDOUANE, Rachid, 2008. Syllables without vowels: Phonetic and phonological evidence from Tashlhiyt Berber. *Phonology* 25(2): 321–359.
- THORPE, Maner L., 1983. *Ryūkyūan language history*. Ph.D. thesis, University of Southern California
- VOVIN, Alexander, 2009. Koreo-Japonica: A critical study in the proposed language relationship. University of Hawai'i Press.
- WHITMAN, John, 1999. Personal pronoun shift in Japanese: A case study in lexical change and point of view. In Kamio, Akio & Takami, Ken-ichi (eds.) Function and Structure, Amsterdam; Philadelphia: John Benjamins, 357–386.
- ZEC, Draga, 2007. The Syllable. In DE LACY, Paul (ed.) *The Cambridge handbook of phonology*, Cambridge; New York: Cambridge University Press, 161–194.