

Approaches to Endangered Languages in Japan and Northeast Asia: Description, Documentation and Revitalization.

ACCENT SYSTEMS IN JAPANESE DIALECTS

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1 Overview of regional differences in accent

- Mainland Japanese dialects exhibit an astonishing range of variation in their accent systems, but they can be classified into the following 4 major typological categories:
- (1) Systems based on lexical kernel (lowering, ascending or raising) < e.g. Tokyō, Hirosaki, Narada>
- (2) Systems based on word tones (N-pattern accent system) <e.g. Kagoshima, Nagasaki >
- (3) Systems combining word tones with a lowering kernel <e.g. Kyōto>
- (4) Systems without any lexical accentual distinctions
 <e.g. Fukushima, Kumamoto >

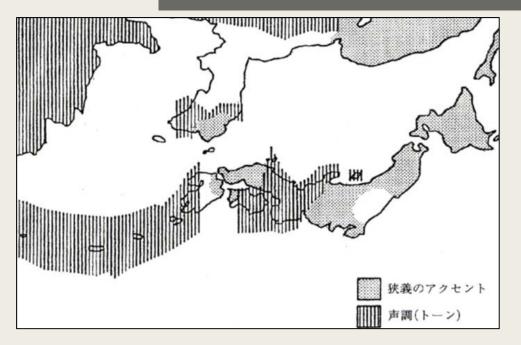


Figure 1 Distribution map of accent systems in Japan (Hayata 1999)

Figure 1 is a distribution map of accent systems of Japanese dialects created by Teruhiro Hayata;

(1) the dotted areas have the systems based on lexical kernel,

- (2) the areas with stripes have the systems based on word tones (Npattern accent system),
- (3) the areas with stripes and dots have the systems combining word tones with a lowering kernel, and
- (4) the plain areas have the systems with no lexical accentual distinctions.

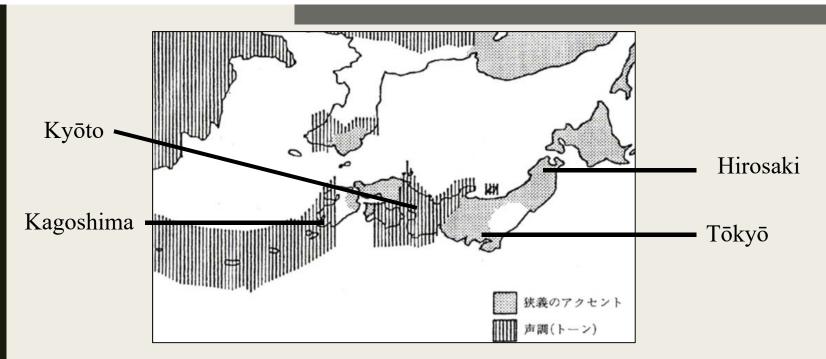


Figure 1 Distribution map of accent systems in Japan (Hayata 1999)

In this talk, I will discuss accent systems of 4 regions;

- Tokyō dialect (a lowering kernel),
- Kagoshima dialect (2-pattern accent system),
- Kyōto dialect (word tones with a lowering kernel),
- Hirosaki dialect (an ascending kernel).



2 Accent system of Tōkyō dialect

- Tōkyō dialect has a system based on lowering kernel.
- In the dialect, each word normally has one lowering kernel, and the position of the lowering kernel is lexically determined.

Table T	Pitch patterns of Tokyo dialect				
pattern	1mora	2mora	3mora	4mora	
1	hal 'tooth'	<i>ha</i> ls <i>i</i> 'chopsticks'	<i>kalbuto</i> 'helmet'	<i>kalmakiri</i> 'praying mantis'	
2		hasi 1 'bridge'	kokolro 'mind'	irolgami 'colored paper'	
3			otoko <mark>1</mark> 'man'	<i>kamina</i> lri 'thunder'	
4				imootol 'sister'	

Table 1 Pitch patterns of Tōkyō dialect



Table 2 Pitch p	atterns of	noun phrases	in Tōkyō dialec	:t
pattern	1mora	2mora	3mora	4mora
1	hal	halsi	kalbuto	kalmakiri
	'tooth'	'chopsticks'	'helmet'	'praying mantis'
Noun =ga (NOM)	hal=ga	hal si=ga	kal buto=ga	kal makiri=ga
noun =o (ACC)	hal=o	hal si=o	kal buto=o	kal makiri=o
2		hasil	kokolro	iro <mark>l</mark> gami
		'bridge'	'mind'	'colored paper'
Noun =ga (NOM)		hasi <mark>1</mark> =ga	kokol ro=ga	irol gami=ga
noun =o (ACC)		hasi <mark>1</mark> =o	kokol ro=o	iro <mark>1</mark> gami=o
3			otokol	kamina <mark>1</mark> ri
			'man'	'thunder'
Noun =ga (NOM)			otoko] =ga	kamina <mark>1</mark> ri=ga
noun =o (ACC)			otoko] =o	kamina <mark>1</mark> ri=o
4				imooto]
				'sister'
Noun =ga (NOM)				imooto <mark>1</mark> =ga
a noun =o (ACC)				imooto] =o
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In addition to these four patterns, Tōkyō dialect has another pitch pattern where any morae of a word do not have a lowering kernel, which is called *heiban-kata*.

Table 3Pitch patterns of noun phrases in Tōkyō dialect (heiban-kata)

pattern	1mora	2mora	3mora	4mora
Ο	ha 'leaf'	hasi 'edge'	s <i>akura</i> 'cherry tree'	<i>tomodaci</i> 'friend'
Noun =ga (NOM)	ha=ga	hasi=ga	sakura=ga	tomodaci=ga
noun =o (ACC)	ha=o	hasi=o	sakura=o	tomodaci=o



Based on the observation, the accent system of Tokyo dialect can be summarized as in Table 4.

Table 4Accent system of Tōkyō dialect

pattern	1-mora	2-mora	3-mora	4-mora
0	0	00	000	0000
1	0	00	000	0000
2		00	000	00 00
3			000	0000
4				0000

N.B.: O = one mora



3 Accent system of Kagoshima dialect

- The accent system of Kagoshima dialect is quite different from that of Tokyo dialect.
- The most distinctive feature is that Kagoshima dialect has a twopattern accent system. Type-A is a paroxytone or falling-type tone, and Type-B is an oxytone or rising-type tone.
- In Kagoshima dialect, every word belongs to either Type-A or Type-B, and as shown in Table 5, the rhythmic unit of the dialect is syllabic rather than moraic.

Table 5Tonal patterns in Kagoshima dialect

type	1-syllable	2-syllable	3-syllable	4-syllable
A	ha 'leaf'	ha.na 'nose'	o.na.go 'woman'	a.ka.tom.bo 'dragonfly'
	F	ΗL	LHL	LL <mark>H</mark> L
В	ha 'tooth'	ha.na 'flower'	o.to.ko 'man'	kan.na re.don 'thunder'
	Н	LH	LLH	LLL <mark>H</mark>



- Particles do not form an independent tone unit in Kagoshima dialect, and therefore the tone of 'noun =particle' such as =ga (NOM), =o (ACC) and =kara (ABL) follows the tone of each word.
- In other words, as given in Table 6, a noun with Type-A tone also has Type-A tone for 'noun =particle', and the noun with Type-B tone has Type-B tone for 'noun =particle'.

type	bare form	noun=ga (NOM)	noun=o (ACC)	noun=kara (ABL)
Α	ha 'leaf'	ha =ga	ha =o	ha =ka.ra
	F	ΗL	H L	LHL
	ha.na 'nose'	ha,na =ga	ha.na =o	ha.na =ka.ra
	ΗL	L H L	LH L	LLHL
В	ha 'tooth'	ha =ga	ha =o	ha =kara
	Н	LH	LH	LLH
	ha.na 'flower'	ha.na =ga	ha.na =o	ha.na =ka.ra
	LH	LLH	LL H	LLLH

Table 6	Pitch patterns of	'noun =ga/=o/=kara'	in Kagoshima dialect
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Table 7 is a summary of the accent system of Kagoshima dialect

Table 7Accent system of Kagoshima dialect

type	1-syllable	2-syllable	3-syllable	4-syllable
Α	0	00	000	0000
	F	ΗL	LHL	LLHL
В	0	00	000	0000
	Н	LH	LLH	LLL <mark>H</mark>

N.B.: O = one syllable



4 Accent system of Kyōto dialect

- Kyōto dialect has a system based on word tones with a lowering kernel.
- There are two types of word tone: high-beginning and low-beginning tone. In addition, each word has one lowering kernel.
- The dialect also has words without a lowering kernel as the category heiban-kata.
- The pitch patterns of the dialect are given in Table 8.



Table 8Pitch patterns in Kyōto dialect

pattern	1-mora	2-mora	3-mora	4-mora
HO	haa 'leaf'	hana 'nose'	sakura 'cherry tree'	tomodaci 'friend'
	нн	нн	ннн	нннн
H1	hii 'sun'	hana'flower'	otoko 'man'	neesan 'sister'
	HL	HL	HLL	HLLL
H2			hutari 'two people'	mizuumi 'lake'
			HHL	HHLL
H3				kaminari 'thunder'
				HHHL
LO	haa 'tooth'	sora 'sky'	usagi 'rabbit'	ninzin 'carrot'
	LH	LH	LLH	LLLH
L2		ame 'rain'	kabuto 'helmet'	murasaki 'purple'
		LF	LHL	LHLL
L3			macci 'match'	irogami 'colored paper'
			LLF	LL <mark>H</mark> L
Reference in the second	Stitute for Japanese Language and Linguist		gh pitch mora L low pit	ch mora F falling pitch mor

- Based on the observation, it can be said that Kyōto dialect is similar to Kagoshima dialect in that it has two types of word tones and is also similar to Tōkyō dialect in that it has a lowering kernel.
- Table 9 is a summary of the accent system of Kyōto dialect.

Table 9Accent system of Kyōto dialect

pattern	1-mora	2-mora	3-mora	4-mora	
HO	١O	001	000	0000	
H1	٢O٦		000	0000	
H2			0 [،] 00	00 00	
H3				0000	
LO	JO			0000	
L2				0000	
L3					
N.B.:					

5 Accent system of Hirosaki dialect

- Hirosaki dialect has a system based on ascending kernel. Table 10 shows pitch patterns of nouns in this dialect, and Table 11 shows pitch patterns when the particle =mo (ADD) is attached to a noun.
- Comparing the two patterns in Table 10 and 11, a noun with the particle =*mo* in Table 11 has a high pitch spreading towards the right with the particle =*mo* as low at the end, but the position where a pitch rises stays the same as nouns without the particle in Table 10.
- Therefore, the distinctive features of pitch patterns in Hirosaki dialect is not lowering kernel but ascending kernel.



Table 10Pitch patterns of Hirosaki dialect

1-mora	2-mora	3-mora	4-mora
ha 'tooth'	saru 'monky'	kitune 'fox'	urukome 'non-glutinous rice'
Н	HL	HHL	HHHL
	hana 'flower'	usagi 'rabbit'	<u>tebukuro</u> 'glove'
	LF	LHL	LHHL
		otoko 'man'	kudamono 'fruit'
		LLF	LLHL
			kaminari 'thunder'
			LLL <mark>H</mark>

Table 11Pitch patterns of Hirosaki dialect (noun =mo)

1-mora	2-mora	3-mora	4-mora
ha=mo	saru=mo	kitune=mo	urukome=mo
ΗL	HH L	HHH L	HHHH L
	hana=mo	usagi =mo	<u>tebukuro</u> =mo
	LH L	LHH L	LHHH L
		otoko=mo	kudamono=mo
		LL <mark>H</mark> L	LLHH L
			kaminari=mo

- In addition, there is a pattern like Type-B in Kagoshima dialect, where a high pitch shifts to the right when a noun is followed by the particle =mo.
- As shown in Table 12, this indicates a pitch pattern that does not have an ascending kernel.

1-mora	2-mora	3-mora	4-mora
ha 'leaf'	hana 'nose'	sakura 'cherry tree'	tomodaci 'friend'
н	LH	LLH	LLLH
ha=mo	hana=mo	sakura=mo	tomodaci=mo
LH	LL H	LLL <mark>H</mark>	LLLL <mark>H</mark>
ha 'leaf'	hana 'nose'	sakura 'cherry tree'	tomodaci 'friend'

Table 12Pitch patterns of Hirosaki dialect (no ascending kernel pattern)



Based on the observation, the accent system of Hirosaki dialect can be summarized as Table 13.

Table 13Accent system of Hirosaki dialect

pattern	1-mora	2-mora	3-mora	4-mora
0	0	00	000	0000
1	١O	[O]	0001	0000
2		010	0010	0000
3			00100	00100
4				0000

N.B.: Γ = ascending kernel O = one mora



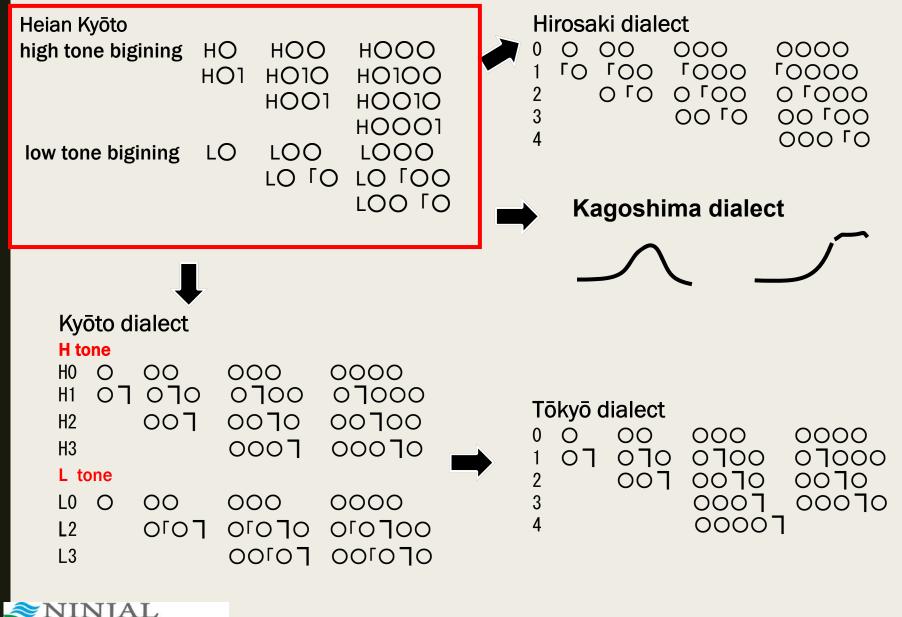
6 Development of regional difference in accent

- I have shown the accent systems in the four regions:
 - Tokyo dialect (lowering kernel)
 - Kagoshima dialect (2-patten accent system)
 - Kyōto dialect (word tones with a lowering kernel)
 - Hirosaki dialect (ascending kernel)
- Now, I'd like to discuss how this variation in accent has developed.
- For this purpose, let's compare the pitch patterns in the regions with the ones of Kyōto dialect in the *Heian* period, which is given in Table 14.



Table 14 Pitch patterns of nouns with two morae										
		Kagoshima	Hirosaki	Heian Kyōto	Kyōto	Tōkyō				
2-mora word		2-pattern	ascending kernel	tone, lowering and ascending kernel	tone, lowering kernel	lowering kernel				
1	edge, nose	Type-A (HL)	0 (LH)	H-LKO (HH)	HO (HH)	O (LH)				
2	bridge, sound			H-LK1 (HL)	H1 (HL)	2 (LH`)				
3	flower, mountain	Type-B (LH)	2 (LH)	L-AKO (LL)						
4	chopsticks, sky		2 (LH) 1 (HL)*	L-AK1 (LH)	LO (LH) 1 (H L2 (LF)	4 (111)				
5	rain, monkey			L-LK2 (LF)		1 (HL)				
	N.B.: LK = lowering kernel AK = ascending kernel * 2 for the second mora with a wide vowel, 1 for the one with a narrow vowel NINCAL STREAM ARE NOT AND									

Figure 2 A tentative account of the development of regional difference in accent



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- Before concluding this talk, I'd like to mention that studies on Ryukyuan dialects have recently been progressing to a great extent, and it is reported that many regions there have the 2-pattern accent or the 3-pattern accent.
- While investigating the Ryukyuan dialects further, I'm looking forward to having more comparative studies on accents in Ryukyuan dialects and mainland dialects.



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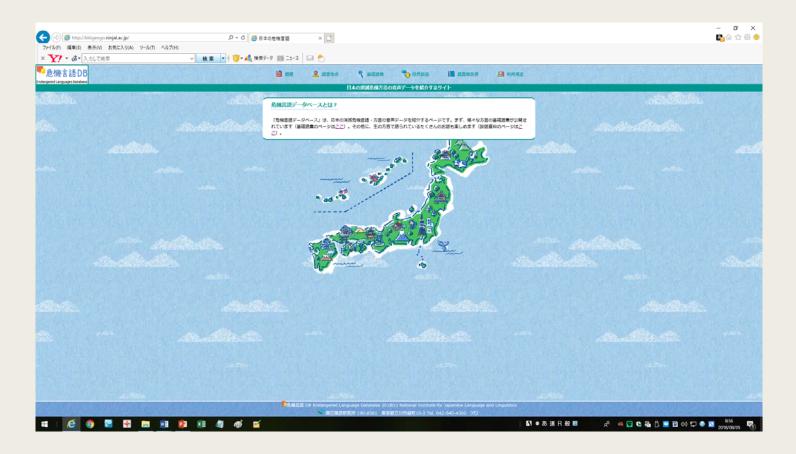
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Thank you very much!



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