A View from the Sierra: the Highland Puebla Area in Nahua Dialectology*

Mitsuya SASAKI

mitchara@gmail.com

Keywords: Nahuatl, Uto-Aztecan, Sierra Norte de Puebla, dialectology, dialect contact

Abstract

Sierra Norte de Puebla (Puebla, Mexico) is a dense area where three dialectologically distant Nahua variants are spoken in contact with one another. This paper outlines the distribution and the characteristics of each dialect and discusses the status of Western Sierra Nahuatl, one of the three dialectal groups of Nahua which has a few marginal features, within the dialectological study of the language.

1. Introduction

From the dawn of Nahua¹ dialectology, the macro-dialectal division between the Eastern Periphery and other variants has been of particular significance. The pioneers of this field (Lehmann, 1920; Whorf, 1946; etc.) regarded this distinction as the primary split within Nahua. Even in the rapid progress of modern Nahua dialectology, the East–West division has always been the major axis of classification (Hasler, 2011 [1994]; Canger, 1988a,b; Dakin, 2000; Kaufman, 2001; Hasler, 2011; Pharao Hansen, 2014; etc.).

In this respect, Sierra Norte de Puebla is an area of great importance for Nahua dialectology, since it is one of a few regions (besides the Huasteca area) where Eastern and non-Eastern dialects are spoken in contact with each other. Several well-established isoglosses cut through this highland, as will be mentioned in Section 4 below.

This paper provides a survey on this small dialectological salad bowl, based both on published data such as word lists from Lastra de Suárez (1986) and the data collected by the author. Western Sierra Nahuatl, which is one of the three major dialectal groups spoken in the Sierra, exhibits marginal characteristics with regard to the recently proposed East–West dichotomy (Pharao Hansen, 2014).

^{*}This study is supported by the JSPS Research Project 25-8682. I am thankful to the people in the municipalities of Zacatlán and Ahuacatlán for their hospitality and cooperation.

¹In this paper, the term *Nahua* refers to any variants of the Nahuan subgroup of the Uto-Aztecan language family, including Pipil and Pochutec. This paper adopts this broader term since the more commonly used term *Nahuatl* is sometimes limited to the dialects which have the consonant λ .

2. Three dialects of the Sierra

Sierra Norte de Puebla (Sierra de Puebla, Highland Puebla) is located in the northern part of the state of Puebla, Eastern Mexico, roughly corresponding to the northern third of the state. It constitutes the southern end of the *Sierra Madre Oriental*, and is also a part of the Trans-Mexican Volcanic Belt (*Eje Neovolcánico*).

Being a part of the historical area called *Totonacapan*, it is now inhabited by four indigenous ethnic groups: Totonacs, Nahuas, Otomis, and Tepehuas. At least the former three groups preserve the languages of their ancestors.

The Nahua dialects spoken in this region can be divided into three major groups: Sierra Nahuat ("Highland Puebla Nahuatl"; ISO 639-3: *azz*), Western Sierra Nahuatl ("Zacatlán–Ahuacatlán–Tepetzintla Nahuatl"; ISO 639-3: *nhi*), and Northern Puebla Nahuatl (ISO 639-3: *ncj*). All of these three groups have Totonac speakers as their neighbors, and Northern Puebla Nahuatl is also in contact with Otomi. The location of each dialect is shown in Figure 1. ²



Figure 1: Relative locations of the Sierra and the Nahua dialects spoken in Puebla

According to the common classification (Lastra de Suárez, 1986; Canger, 1988b), Sierra Nahuat belongs to the Eastern Periphery and the other two groups belong to so-called Central Nahuatl, as shown in Figure 2 below. The three dialectal groups spoken in the Sierra are emphasized by bold-face type.³

²The map in Figure 1 is based on the work of Yavidaxiu (http://commons.wikimedia.org/wiki/File:Mexico_blank.svg).

³There is no agreement on the genetic subgrouping of Nahua. Figure 2 is based on the classification by Lastra de Suárez (1986), with slight modifications based on Canger (1988a,b) and Kaufman (2001). It should be noted that Lastra de Suárez (1986) does not speak of genetic subgrouping; her classification is a synchronic one based on a lexical survey.

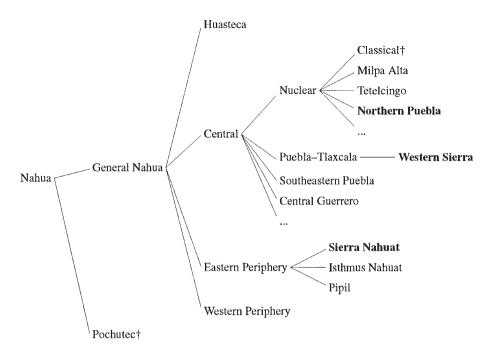


Figure 2: Dialectological heteogeneity of the Nahua dialects in the Sierra

2.1. Sierra Nahuat

Sierra Nahuat (ISO 639-3: azz), which is often called misleadingly Sierra Puebla Nahuatl or Highland Puebla Nahuatl, is distributed in the southeastern part of the Sierra. It belongs to Eastern Periphery of the Nahua group (along with Isthmus Nahuat and Pipil) and constitutes a dialect continuum with the neighboring dialects in the state of Veracruz (Lastra de Suárez, 1986).

It is the best documented group among the three; the major linguistic materials include dictionaries (e.g. Key and de Key, 1953; de Pury-Toumi, 1984), grammars (e.g. Robinson, 1966), texts (e.g. Aramoni Burguete, 1990; Secretaría de Cultura, 1994), and sociolinguistic studies (e.g. Castillo Hernández, 2007). Also many anthropological works have been published, such as Beaucage and Taller de Tradición Oral (2009).

2.2. Western Sierra Nahuatl

In using the tentative term Western Sierra Nahuatl, I refer to the dialects sometimes called Zacatlán–Ahuacatlán–Tepetzintla Nahuatl (ISO 639-3: nhi), which are spoken in the southwestern part of the Sierra. According to the classification by Lastra de Suárez (1986), this group is a part of the Puebla–Tlaxcala Subarea of Central Nahuatl, though its actual affiliation is an open question. Whereas Ethnologue⁴ limits the term Zacatlán–Ahuacatlán–Tepetzintla Nahuatl to the variants spoken in these three municipalities, the

⁴https://www.ethnologue.com/language/nhi.

word list from Santa María Atexcac (Lastra de Suárez, 1986, 474; the municipality of Aquixtla) shows all the major features in common with this group.

Although Western Sierra Nahuatl is much less studied than the other two groups, a grammar is recently published on the variant spoken in San Miguel Tenango, the municipality of Zacatlán (Schroeder, 2014).

2.3. Northern Puebla Nahuatl

Northern Puebla Nahuatl or North Puebla Nahuatl refers to the dialects spoken in the municipalities of Naupan and Huauchinango, which are located north of the Sierra. Lastra de Suárez (1986) classifies two dialects from the municipality of Huauchinango (and the dialect of San Agustín Atlihuacan in the municipality of Xicotepec as well) as belonging to the Nuclear Subarea,⁵ though she notes that the notion of the "Nuclear Subarea" is by no means substantial.

Linguistic resources on this group include a grammar (Brockway, 1979) and a dictionary (Brockway and de Brockway, 2000) among others. A well-known paper on Nahuatl honorifics (Bartholomew and Brockway, 1988) also deals with this dialect.

3. Sources of the data

The distribution of the three dialects are illustrated in Figure 3.6



Figure 3: Distribution of three dialectal groups of the Sierra

In order to outline the dialectological situation of the Sierra, this paper compares the basic vocabulary of 17 dialects (13 from around the Sierra, 4 from other areas). The

⁵The Nuclear Subarea is a region which includes the well-documented dialects of Milpa Alta, Tetelcingo, Tepoztlán, etc., along with Classical Nahuatl. It is usually defined by the presence of the "-lwiā metathesis" (Canger, 1988b). Although Lastra de Suárez (1986) does not mention this diagnostic, Northern Puebla Nahuatl have this feature in common with other dialects classified as Nuclear.

⁶The map in Figure 3 is based on the work of Yavidaxiu (https://commons.wikimedia.org/wiki/File:Blank_map_of_Puebla.svg).

data come both from published sources such as Lastra de Suárez (1986) and from the data collected by the author. The latter are on the dialects of San Francisco Ixquihuacan (municipality of Ahuacatlán) and San Miguel Tenango (municipality of Zacatlán), both of which this paper classifies as Western Sierra Nahuatl.

The selection of basic vocabulary is based on the Leipzig-Jakarta List (Tadmor, 2009) with a few additional diagnostic words such as 'bean,' 'nail,' and 'berry' (for each diagnostic, see Section 4 below). The dialects consulted are listed in Table 1; the classification of each dialect is based on Lastra de Suárez (1986) and the numbers in the parenthesis correspond to the labels given in Lastra de Suárez (1986).

Location	State	Area	Subarea	Primary source
Cuatenahuatl	Hidalgo (2)	Huasteca		Lastra de Suárez (1986)
Acaxochitlán	Hidalgo (8)	Central	Nuclear (?)	Lastra de Suárez (1986)
Naupan	Puebla	Central	Nuclear	Brockway and de Brockway (2000)
Cuacuila	Puebla (4)	Central	Nuclear	Lastra de Suárez (1986)
Xilocuautla	Puebla (3)	Central	Nuclear	Lastra de Suárez (1986)
Tlalcuapan	Tlaxcala	Central	Puebla-Tlaxcala	Lastra de Suárez (1986)
Jilotzingo	Puebla (8)	Central	Puebla-Tlaxcala	Lastra de Suárez (1986)
Ixquihuacan	Puebla	Central	Puebla-Tlaxcala	Fieldwork
Tenango	Puebla	Central	Puebla-Tlaxcala	Fieldwork
Atexcac	Puebla (11)	Central	Puebla-Tlaxcala	Lastra de Suárez (1986)
Zacapoaxtla	Puebla	Eastern	Sierra Nahuat	Key and de Key (1953)
Tzinacapan	Puebla	Eastern	Sierra Nahuat	de Pury-Toumi (1984)
San Nicolás	Puebla (12)	Eastern	Sierra Nahuat	Lastra de Suárez (1986)
Tetelcingo	Morelos (2)	Central	Nuclear	Brewer and Brewer (1979)
Milpa Alta	D.F. (2)	Central	Nuclear	Lastra de Suárez (1986)
Amanalco	Mexico (2)	Central	Nuclear	Lastra de Suárez (1986)
Mecayapan	Veracruz	Eastern	Isthmus Nahuat	Wolgemuth et al. (2000)

Table 1: Dialects consulted in this paper

The data on 10 out of 17 dialects come from the word lists in Lastra de Suárez (1986). It should be noted that Lastra de Suárez's (1986) questionnaire lacks 27 out of 100 words contained in the Leipzig-Jakarta List, and some of the word lists are incomplete.

4. Isoglosses

This section summarizes the following four major phonological isoglosses relevant to this area. All of them except (ii) are well known and are discussed in detail in the works cited below. See Canger (1980, 1988a,b) for lexical/grammatical isoglosses.

- (i) λ vs. t: e.g. tetl vs. tet 'stone' (Canger, 1988b, among many others)
- (ii) Raising of *e: e.g. tepētl vs. tipētl 'hill' (Sasaki, 2014)
- (iii) #e- vs. #ye-: e.g. etl vs. yetl 'bean' (Canger, 1980; Dakin, 2000)
- (iv) e vs. i < **u: e.g. sentli vs. sintli 'dried maize cob' (Canger and Dakin, 1985)

In the following sections, Nahua forms are presented in the simplified spelling (Sasaki, 2014) regardless of which system their sources adopt; vowel length is omitted in some sources such as Brockway and de Brockway (2000).

4.1. λ vs. t

Considerable research has been dedicated to the correspondence between the Central λ [ff] vs. Eastern t. It is well known that Proto-Nahua $*\lambda$ has merged to t in the Eastern Periphery (Campbell and Langacker, 1978); all Sierra Nahuat variants unanimously show this feature, hence the term *Nahuat*. Other dialects of the Sierra preserve the original $*\lambda$.

Table 2: λ vs. t

Taule 2. A vs. t					
	Classical	Northern Puebla	Western Sierra	Sierra Nahuat	
		(Naupan)	(Ixquihuacan)	(Tzinacapan)	
'fire'	tletl	tletl	tlītl	tit	
'ground, soil'	tlālli	tlali	tlāli	tāl	
'smoke'	pōktli	poktli	pōktli	pokti	

4.2. Raising of *e

In Ixquihuacan, Tenango, Jilotzingo, Atexcac, and Xilocuautla, the vowel which realizes as short e in other dialects is raised to i in most environments regardless of its historical source (Sasaki, 2014). The isogloss should be drawn between Cuacuila and Xilocuautla. I shall tentatively consider this feature as the diagnostic of Western Sierra Nahuatl, though the status of Xilocuautla is still unclear.

Table 3: Raising of *e

	Classical Northern Puebla		West	Sierra Nahuat	
		(Naupan)	(Tenango)	(Ixquihuacan)	(Tzinacapan)
'stone'	tetl	tetl	titl	tītl	tet
'hill'	tepētl	tepetl	tipētl	tipētl.	tepēt
'he wants it'	kineki	kineki	ikniki	kiniki	kineki

4.3. #e- vs. #ye-

Canger (1980) notes that some Classical Nahuatl words which begin with e- have the modern Central counterparts with #ye-. While Canger (1980) considers the latter forms as innovative, Dakin (2000) argues that this #ye- reflects the Proto-Uto-Aztecan **#pV-, which was lost before other vowels. Pharao Hansen (2014) suggests that this isogloss #e-/#ye- characterizes two macrodialects of Nahua: Eastern and Western.

⁷Lastra de Suárez (1986) classifies Xilocuautla as Nuclear.

In the Sierra, this isogloss realizes in a slightly problematic way. While Sierra Nahuat (#e-) and Northern Puebla Nahuatl (#ye-) systematically show the Eastern–Central division, Western Sierra dialects show idiosyncratic patterns.

	1αυις 4. πε- νδ. πγε-					
	Classical	Classical Northern Puebla Western Sierra		Sierra Nahuat		
		(Naupan)	(Tenango)	(Ixquihuacan)	(Tzinacapan)	
'three'	ēyi	yiyi	yēyi	yēyi	eyi	
'X's liver'	$-ar{e}l$	-yeltapach	-yēl	-yēl	-eltapax	
'wind'	e'ēkatl	yehyekatl	ehyekatl	ehekatl	ehekat	
'elote'	ēlōtl	yelotl	ēlōtl	ēlōtl	elot	
'X's blood'	-es(yō), -essō	-yes	-eso	-eso	<i>-esyo</i> (?)	
'X's chest'	-ēlpan	-yelpa	-ēlpan	-ēlpã	-el	
'he arrives'	e'ko	_	ehko	ehko	ehko	
'bean'	etl	yetl	itl	ītl	et	
'blood'	estli	yestli	istli	īstli	esti	
'heavy'	etik	yetik	itik	itik	etik	
'shadow'	e'kawyōtl	(sewali)	ēkawil	tlayēkawīl	ekawil, yekawil	

Table 4: #e- vs. #ye-

Western Sierra Nahuatl has $\#y\bar{e}$ - for the words of the first group ('three,' 'X's liver') as many other modern Central dialects, which conforms to Pharao Hansen's (2014) hypothesis that the #ye- form is the feature of the Western macrodialect.

The second group, however, behaves contrastively; in Tenango and Ixquihuacan, these words lack the initial y as in Classical Nahuatl and Eastern Periphery. Interestingly, the situation is the same in other two variants which this paper classifies as Western Sierra Nahuatl, Atexcac and Jilotzingo; Atexcac has e'yakatl 'wind,' and Jilotzingo has exakatok 'it is windy.' It should also be noted that the words 'X's liver' (Ixquihuacan: $-y\bar{e}l$) and 'X's chest' (Ixquihuacan: $-\bar{e}lp\tilde{a}$) behave differently despite the etymological relation between them. The irregular possessive form -eso 'X's blood' will be discussed in Section 5 below.

The third group ('bean,' 'blood,' 'heavy') is problematic, since the raising of *e which is particular to Western Sierra Nahuatl obscures the status of these forms. These words are to be discussed in Section 5.

The words for 'shadow' are trickiest of all; in addition to the regular *ekawil*, Tzinacapan has the variant *yekawil*. Correspondingly, Key and de Key (1953) report a possessive form *iyekawil* with a glide y for Zacapoaxtla, in addition to the absolutive *ekawil*.

4.4. e vs. i < **u

Canger and Dakin (1985) point out that the variation $e \sim i$ observed in some Classical

⁸It should be noted that *ehyekatl* 'wind' in Ixquihuacan has y in the second syllable.

⁹The map presented in Dakin (2000) correctly differentiates Western Sierra Nahuatl from the neighboring Central dialects.

Nahuatl words (e.g. sentli~sintli 'dried maize cob,' istetl~istitl 'nail') reflects a major dialectal division within Nahua. They reveal that the variation comes from the different development of Proto-Uto-Aztecan **u in a certain environment and suggested that the e < **u characterizes the language of the newcomers: the Mexicas. The table below shows the realization of some of the diagnostic words presented by Canger and Dakin (1985).

With regard to this criterion, Sierra Nahuat belongs to the i-dialects and Northern Puebla Nahuatl is part of the e-dialects. The status of Western Sierra is hard to decide, since the short *e has been raised to i in this group.

	,	Table 5: e vs. i <	**u			
	Classical	Classical Northern Puebla Western Sierra Sierra Nahuat				
		(Naupan)	(Ixquihuacan)	(Tzinacapan)		
'dried maize cob'	sentli~sintli	sentli	sintli	sinti		
'nail'	istetl~istitl	iisten (his nail)	istitl	istit		
'berry'	ihtetl~ihtitl	iihte (his berry)	-ihtik (inside)	noihtik (my berry)		

4.5. Summary of isoglosses

Figure 4 illustrates the isoglosses presented in the previous sections. 10



Figure 4: Summary of isoglosses in the Sierra

The Eastern–Central isogloss (λ vs. t, raised *e, #e- vs. ye-) cuts through the Sierra, dividing Sierra Nahuat from Central dialects; another isogloss (the northern limit of the raising of *e) crosses the municipality of Huauchinango, between Cuacuila and Xilocuautla. The characteristics of each dialect are summarized in Table 6.

¹⁰The map in Figure 1 is based on the work of Yavidaxiu (https://commons.wikimedia.org/wiki/File:Blank_map_of_Puebla.svg).

Table 6: Summary of the three Nahua dialects of the Sierra
--

	Classification	*λ	Raising of *e	#ye-/#e-	PUA **u
Sierra Nahuat	Eastern	t	Yes	#e-	i
Western Sierra Nahuatl	Central	λ	Yes	#ye- (?)	?
Northern Puebla Nahuatl	Central	λ	No	#ye-	i

5. Position of Western Sierra dialects

In Section 4.3, it was pointed out that Western Sierra Nahuatl shows an idiosyncratic pattern with regard to the #e-/#ye- distinction. While some words ('three,' 'X's liver') have the regular initial #ye-, other words ('wind,' 'elote,' etc.) lack y in more than one Western Sierra dialect. The table presented in Section 4.3 is repeated below.

Table 7: #e- vs. #ye-

			•			
	Classical	Northern Puebla	West	ern Sierra	Sierra Nahuat	
		(Naupan)	(Tenango)	(Ixquihuacan)	(Tzinacapan)	
'three'	ēyi	yiyi	yēyi	yēyi	eyi	
'X's liver'	$-ar{e}l$	-yeltapach	-y $ar{e}l$	-yēl	-eltapax	
'wind'	e'ēkatl	yehyekatl	ehyekatl	ehekatl	ehekat	
'elote'	ēlōtl	yelotl	ēlōtl	ēlōtl	elot	
'X's blood'	-es(yō), -essō	-yes	-eso	-eso	-esyo(?)	
'X's chest'	-ēlpan	-yelpa	-ēlpan	-ēlpã	-el	
'he arrives'	e'ko	_	ehko	ehko	ehko	
'bean'	etl	yetl	itl	ītl	et	
'blood'	estli	yestli	istli	īstli	esti	
'heavy'	etik	yetik	itik	itik	etik	
'shadow'	e'kawyōtl	(sewali)	ēkawil	tlayēkawīl	ekawil, yekawi	

A straightforward way to account for this irregularity is to attribute the second group to the dialectal borrowing from Sierra Nahuat, which belongs to the #e- dialect.

This explanation is not as plausible as it appears, however. Firstly, many of the "irregular" forms have the consonant λ , which suggests that these forms cannot be accounted for at least by canonical borrowing from a t-dialect. Secondly, it should be noted that they include extremely basic words such as 'wind' and 'to arrive'; furthermore, in the e-/ye-pairs $-y\bar{e}l$ 'X's liver' vs. $-\bar{e}lpan$ 'X's chest' and $istli/\bar{t}stli$ 'blood' vs. -eso 'X's blood,' the more commonly used forms appear without y. ¹¹

Also the words deformed by the raising of *e (Section 4.2) such as $itl/\bar{\imath}tl$ 'bean,' $istli/\bar{\imath}stli$ 'blood,' and itik 'heavy' suggest another scenario. Although the merger of *e

¹¹As in many other Mesoamerican languages, body-part terms are usually used in the possessive forms in Nahua.

and $*i^{12}$ obscures the original forms of these words, other words suggest that the 'bean'-type words did not have initial y in these dialects.

In Ixquihuacan, the irrealis stem of the copula has the form $\bar{\imath}$, as in $ni-\bar{\imath}-ski$ 'I will be.' Since this form corresponds to ye in Classical Nahuatl, it can be assumed that former *#ye- has developed into # $\bar{\imath}$ - in Ixquihuacan. 'Bean'-type words, on the other hand, have short i, as in itik 'heavy' and $iy\bar{a}y\bar{o}tl$ 'bean soup.' The long $\bar{\imath}$'s found in $\bar{\imath}tl$ 'bean' and $\bar{\imath}stli$ 'blood' are irrelevant here, since it is the result of regular lengthening particular to the Ixquihuacan dialect (Sasaki, 2014; cf. Ixquihuacan $t\bar{\imath}tl$ 'stone,' $tl\bar{\imath}tl$ 'fire'); these words consistently have short i in Tenango (e.g. itl).

Table 8: #e- vs. #ye-

	Classical	Ixquihuacan
'to be' (future)	yes	īski
'to be' (optative past)	(ō)yeni	ōīni
'heavy'	etik	itik

Thus, it is possible to assume alternatively that the original form of the 'bean'-type words of Western Sierra Nahuatl was #e-. The following development can therefore be assumed for Ixquihuacan: #etl > #itl (as in Tenango) $> \bar{\imath}tl$ 'bean.' It is therefore more natural to consider that Western Sierra Nahuatl genetically belongs to the #e- dialect, though it is necessary, in turn, to account for a few "regular" forms such as $y\bar{e}yi$ 'three' and $-y\bar{e}l$ 'X's liver.' In this respect, Western Sierra Nahuatl has marginal characteristics with regard to the Eastern–Central dichotomy.

6. Conclusion

Through an areal survey, this paper illustrated the distribution of three major dialectal groups of Nahua spoken in the Sierra, and summarized how the widely proven isoglosses work in this area. The last section discussed the "irregular" #e- forms found in Western Sierra dialects and suggested the possibility that Western Sierra dialects belong to the #e-dialect, which suggests the marginal characteristics of Western Sierra Nahuatl within the Eastern–Central division commonly accepted in Nahua dialectology.

Two overlapping axes of classification have been proposed in recent Nahua dialectology: New vs. Old Nahua (Canger and Dakin, 1985; Hasler, 2011) and Western vs. Eastern Nahua (Dakin, 2000; Pharao Hansen, 2014). In this view, the microscopic linguistic-geographic situation of Highland Puebla is worth further investigation, since it is an area where these two interlocked macro-isoglosses tangle with less degree of overlap.

¹²Alternatively, the "raising" of *e might have taken place before the merger of Proto-Nahua *i to *i; this paper cannot discuss this matter in detail.

References

- Aramoni Burguete, María Elena. 1990. Talokan tata, talokan nana: Nuestras raíces: Hierofanías y testimonios de un mundo indígena. Mexico City: Conaculta.
- Bartholomew, Doris and Earl Brockway. 1988. Honorific morphology in North Puebla Aztec. In Josserand and Dakin (1988), pages 449–460.
- Beaucage, Pierre and Taller de Tradición Oral. 2009. *Corps, cosmos et environnement chez les Nahuas de la Sierra Norte de Puebla : Une aventure en anthropologie*. Montreal: Lux Éditeur.
- Brewer, Forrest and Jean G. Brewer. 1979. *Vocabulario mexicano de Tetelcingo, Morelos*. Instituto Lingüístico de Verano.
- Brockway, Earl. 1979. North Puebla Nahuatl. In R. W. Langacker, ed., *Studies in Uto-Aztecan Grammar, Volume 2: Modern Aztec Grammatical Sketches*, pages 141–198. Dallas, Texas: Summer Institute of Linguistics, University of Texas.
- Brockway, Earl and Trudy Harshey de Brockway. 2000. *Diccionario náhuatl del norte del estado de Puebla*. Mexico City: Instituto Lingüístico de Verano, Universidad Madero.
- Campbell, Lyle and Ronald W. Langacker. 1978. Proto-Aztecan vowels: Part II. *International Journal of American Linguistics* 44:197–210.
- Canger, Una. 1980. The formation of the perfect, with historical and dialectal perspectives. In *Five Studies Inspired by Nahuatl Verbs in -oa*, pages 46–99. Copenhagen: Linguistic Circle of Copenhagen.
- Canger, Una. 1988a. Nahuatl dialectology: a survey and some suggestions. *International Journal of American Linguistics* 54:28–72.
- Canger, Una. 1988b. Subgrupos de los dialectos nahuas. In Josserand and Dakin (1988), pages 473–498.
- Canger, Una and Karen Dakin. 1985. An inconspicuous basic split in Nahuatl. *International Journal of American Linguistics* 51:358–361.
- Castillo Hernández, Mario Alberto. 2007. Mismo mexicano pero diferente idioma: Identidades y actitudes lingüísticas en los maseualmej de Cuetzalan. Mexico City: INAH, UNAM.
- Dakin, Karen. 2000. Proto-Uto-Aztecan *p and the e-/ye- isogloss. In E. H. Casad and T. L. Willett, eds., *Uto-Aztecan: Structural, Temporal, and Geographic Perspectives: Papers in Memory of Wick R. Miller*, pages 213–219. Hermosillo, Sonora: Universidad de Sonora.
- de Pury-Toumi, Sybille. 1984. Vocabulario mexicano de Tzinacapan: Sierra Norte de Puebla. Paris: A. E. A.
- Hasler, Andrés. 2011. El nahua de la Huasteca y el primer mestizaje: Treinta siglos de historia nahua a la luz de la dialectología. Mexico City: CIESAS.
- Hasler, Juan A. 2011 [1994]. Las divisiones del idioma nahua (en torno de un modelo teórico). In *Estudios nahuas*, pages 147–181. Xalapa, Veracruz: Universidad Veracruzana.

- Josserand, J. Kathryn and Karen Dakin, eds. 1988. Smoke and Mist: Mesoamerican Studies in Memory of Thelma D. Sullivan, Part ii. Oxford: B.A.R.
- Kaufman, Terrence. 2001. The history of the Nawa language group from the earliest times to the sixteenth century: Some initial results. A paper for Mesoamerican Languages Documentation Project (MALDP).
- Key, Harold and Mary Richie de Key. 1953. *Vocabulario mejicano de la Sierra de Zacapoaxtla, Puebla*. Mexico City: Instituto Lingüístico de Verano.
- Lastra de Suárez, Yolanda. 1986. *Las áreas dialectales del náhuatl moderno*. Mexico City: UNAM.
- Lehmann, Walter. 1920. Zentral-Amerika, Teil I: Die Sprachen Zentral-Amerikas in ihren Beziehungen zueinander sowie zu Süd-Amerika und Mexiko. Berlin: Dietrich Reimer.
- Pharao Hansen, Magnus. 2014. The East-West split in Nahuan dialectology: Reviewing the evidence and consolidating the grouping. Paper presented at the Friends of Uto-Aztecan Workshop, Universidad Autónoma de Nayarit.
- Robinson, Dow F. 1966. *Sierra Nahuat Word Structure*. Ph.D. thesis, Hartford Seminary Foundation.
- Sasaki, Mitsuya. 2014. A dialectological sketch of Ixquihuacan Nahuatl. *Tokyo University Linguistic Papers* 35:e139–170. http://repository.dl.itc.u-tokyo.ac.jp/dspace/bitstream/ 2261/56397/1/ggr_e35004.pdf.
- Schroeder, Petra. 2014. Gramática del náhuatl de San Miguel Tenango, Zacatlán, Puebla. http://www-01.sil.org/acpub/repository/nhi_Tenango_Grammar.pdf.
- Secretaría de Cultura, ed. 1994. *Antrogía del cuento náhuatl: Trabajos premiados 1983–1993*. Mexico City: Secretaría de Cultura del Gobierno del Estado de Puebla.
- Tadmor, Uri. 2009. Loanwords in the world's languages: Findings and results. In M. Haspelmath and U. Tadmor, eds., *Loanwords in the World's Languages: A Comprehensive Handbook*, pages 55–75. Berlin: Walter de Gruyter.
- Whorf, Benjamin Lee. 1946. The Milpa Alta dialect of Aztec: with notes on the Classical and the Tepoztlán dialects. In H. Hoijer and C. Osgood, eds., *Linguistic Structures of Native America*, pages 367–397. New York: Viking Fund.
- Wolgemuth, Joseph Carl, Walters, Marilyn Minter de Wolgemuth, Plácido Hernández Pérez, Esteban Pérez Ramírez, and Christopher Hurst Upton. 2000. *Diccionario náhuatl de los municipios de Mecayapan y Tatahuicapan de Juárez, Veracruz*. Mexico City: Instituto Lingüístico de Verano.

北プエブラ高地におけるナワトル語の東西方言接触

佐々木 充文

キーワード: ナワトル語 ユート・アステカ語族 北プエブラ山脈 方言学 方言接触

要旨

北プエブラ山脈(メキシコ、プエブラ州)では、方言学的に大きく異なる3つのナワ語方言が話されている。本稿では、各方言の分布と特徴を概観したのち、3方言のひとつであり境界的な特徴をもつ西山岳プエブラ方言のナワ語方言学における位置づけについて論じる。

(ささき・みつや 東京大学大学院)