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Functions of the prefix wa- in Umonhon*

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Abstract: The verbal prefix *wa*- is well attested in all branches of the Siouan languages. It has several functions, especially in Umoⁿhoⁿ, and this creates difficulties in analyzing it, and in teaching how it works in a clear way. I propose an analysis dividing wa- into 3 different functions: 3rd person plural object marker; antipassive marker; and nominalizer. Most importantly, I identify two types of antipassive constructions with *wa*-, according to its referentiality. While antipassives with generic objects are ambiguous with 3rd person plural object marker, antipassive with referring objects do not lend themselves to such ambiguity, and are rather close to the nominalizing function. This creates difficulties in analyzing wa- synchronically, and also casts doubt on the possible diachronic origin of the antipassive.

Keywords: antipassive, object marking, object referentiality, nominalizer

1. Introduction

The prefix wa- is attested with similar functions in all branches of Siouan languages and has already been the subject of studies in a comparative perspective (Boyle 2009a,b). It has been reconstructed in Proto-Siouan as an absolutive marker *wa- or *waa- (Carter et al. 2006:928). In descriptive grammars or sketches of particular Siouan languages, wa- and its cognates is often attributed an object-removing function, differently called "valency-decreasing" (Boyle 2009a), "detransitivizing" (Hartmann 2015:1270), "absolutive" (Carter et al. 2006:928), "indefinite object marker" (Ullrich 2008:735) or "unspecified argument" (Kasak 2019:231). It is also commonly attested on nouns for objects or agents, with the authors either integrating the examples of nouns as instances of object demotion, or treating it as a distinct function of nominalizer. Some examples of these functions are presented in (1) to (4). In all this paper, I underline the objects of transitive verbs, both in the Siouan language version (when they are expressed by NPs) and in the corresponding English translation. The \underline{x} stands for the object position in unmarked forms (the object position \underline{x} is not generally explicitly mentioned by the authors cited here, but it is understood from their descriptions that the verbs are transitive).

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(1) Crow

a. ikaa 'to see <u>x</u>'

baaikaa 'to see things, to have a vision' (Graczyk 1991:233)

b. dichiichi 'to boil <u>x</u>'

baalichiituu 'boiled meat (with plural marker -uu)' (Graczyk 2007:48)
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(Boyle 2009b:5)
(2) Hidatsa
                 'to string x'
      háca
      maabáca
                 'to string something', 'beads'
(3) Osage
                                                                       (Quintero 2004:§4.1)
      čséðe
                 'to doctor x'
                 'to doctor folks'
      wačséðe
(4) Ho-Chunk
                                                                (Hartmann 2015:1270-1271)
      ruuk
               'to eat x'
              'to eat something'
      warúc
```

Wa- is commonly translated into English as 'things' or 'something' or 'people', or not translated at all. In some cases, wa- refers specifically to one kind of object, as in examples (1b) and (2).

Additionally, in the Dhegiha languages and Hochunk-Chiwere languages (Mississipi Valley Siouan), *wa*- serves as a marker of 3rd person plural objects (O.3PL). To the best of my knowledge, the historical source of this function and its possible link with the valency-decreasing *wa*- is unknown.¹

The purpose of this paper is to explore the distinct functions of the prefix wa- in Umoⁿhoⁿ, a Siouan language of the Dhegiha group (Mississipi Valley Siouan), in order ultimately to better understand its historical source. I will particularly focus on its antipassive functions.

This study is based, on the one hand, on the analysis of more than 200 dictionary word entries containing the prefix wa-, and on the other hand, on the exhaustive review of 14 texts. Those texts contain 177 forms with wa-, including conjugated verbs. However, in almost half of the dictionary entries, wa- appears on bound roots or old formations where it has no function in synchrony, like $wak^h\acute{e}ga$ 'to be sick'. Such forms were left out of the study.

The different functions recognized synchronically in Umonhon are:

- 3rd person plural object marker (gloss: 0.3PL)
- antipassive marker
 - with a generic object or no object
 - with a referential object
- nominalizer

Whatever its function, the sequence *wa*-undergoes some frequent morphophological changes in combination with other derivational prefixes, as will be seen in the subsequent examples:

```
/*wa-í/ \rightarrow wí /*wa-á/ \rightarrow wá /*wa-u/ \rightarrow ú
```

¹See discussions on the Siouan list in 2002, originated from the paper by Helmbrecht (2002) in IJAL: http://listserv.linguistlist.org/pipermail/siouan/2002-July/subject.html#2158

²The bound root of this verb is $*k^h ega$, not attested alone. The conjugated forms of $wak^h \acute{e}ga$ show unambiguously that wa- is a prefix apart from this root. It is the same with all the verbs beginning with wa- surveyed.

2. Main/basic functions of wa- in Umoⁿhoⁿ

2.1. Third person plural object marker

In examples (5) and (6), the prefix wa- serves as an indexation marker for the 3rd person plural object of the verb. In each case, the plural object is definite. Note that wa- appears independently of the expression of the object as a noun phrase: in (5) the object "the Dakotas" is expressed in the clause, and in (6) the object is not expressed.

- (5) ónba théthu sháon amá wa-tónbe ha, (...).
 day here Dakotas the.PL 0.3PL-A1.sG.see DECL.M
 'On this day, I have seen the Dakotas (...)' (Dorsey 1890:707.1 / Unázhin-ska)
- (6) *ithae-b-azhi-xti-oⁿ shtewóⁿ wa-'ú-bi-ama*. talk-PX-NEG-INTENS-AUX even so 0.3PL-wound-PX-NARR 'Without speaking at all, he wounded them.' (Dorsey 1890:361.9 / Joseph LaFlesche)

In Umónhon, wa- can also express the 1st person plural object (0.1PL), as in the form wadónba 'she sees us' (Saunsoci & Eschenberg 2016 / Alice Saunsoci). However, 0.1PL can also be marked by an additional a- along with wa-. This is the case in example (7), where 0.1PL is marked by awa-. According to Carter et al. (2006:6), the 0.1PL marker takes the form a-wa- each time a preverbal form occurs before it, that is, whenever wa- and the other indexation markers are not verb initial.

(7) *égithe uthéwiⁿ-awá-tha-i*. finally assembled-0.1PL-CAUS-PX 'At length they assembled us' (Dorsey 1890:435.3 / Pathiⁿ-Noⁿpázhi)

2.2. Unspecified argument marker with generic reading: Antipassive

Example (8) shows the common transitive verb that ' \acute{e} 'to eat it', with \acute{e} 'piece' as an object.

```
(8) hébe thathá ga!
piece eat IMP.M
'Eat a piece!' (Saunsoci & Eschenberg 2016:94 / Alice Saunsoci)
```

In Umoⁿhoⁿ, as in other Siouan languages, if no object is expressed on a transitive verb, it is understood as definite: $that^h\acute{e}$ means 'to eat it'. The prefix wa- saturates the object position and enables the verb to be used without referring to any specific object, like in example (9):

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(9) wa-btháthe in-udon.

ANTIP-Al.sG.eat DAT.lsG-good
'Eat a piece!' (Saunsoci & Eschenberg 2016:94 / Alice Saunsoci)
```

In such cases, it functions like an antipassive marker. Antipassive constructions can be defined as intransitive constructions derived from transitive ones with some overt morphological

encoding, where the agent is preserved and the patient either inexpressible or demoted to an oblique function (adapted from Heaton 2017:64).³

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Table 1.	Some a	intina	CCIVE	verhs	1n	Umonhon
Table 1.	DOING a	ուսբա	331 V C	VCIUS	111	Cino no

Base verb	Antipassive verb
baxú 'to write <u>x</u> '	wabaxú 'to write', 'to write something'
'é 'to farm \underline{x} ', 'to hoe \underline{x}	wa'é 'to farm' ⁴
$gi'i$ 'to give \underline{x} to y to help him/her out'	wé i ⁵
-	1. 'to give \underline{x} to folks to help them out'
	2. 'to give stuff to y to help him/her out'
$d\acute{o}^n be$ 'to see \underline{x} ', 'to look at \underline{x} '	wadónbe 'to scout'
<i>uhó</i> ⁿ 'to cook <u>x</u>	<i>úho</i> ⁿ 'to cook' (/wa-u/ \rightarrow [ú-])
that 'é 'to eat \underline{x} '	watháthe 'to eat', 'to eat something'

Table 1 shows some antipassive verbs in Umóⁿhoⁿ and their corresponding transitive bases (all forms are common, except when specified in footnotes). Note that the antipassive verb can take a specific, culturally relevant meaning, like in $wadó^nbe$ 'to scout' (widely attested in Dorsey 1890). Wa- can also remove any of the objects of a ditransitive verb, as can be seen for $w\acute{e}$ ' i and its two possible meanings (UNPS 2015:8).

2.3. Nominalizer

Wa- is attested on deverbal nouns corresponding to intransitive stative verbs, transitive verbs and ditransitive verbs, as can be seen in Table 2. In most cases, the noun corresponds to the patientive argument of the verb, although in some cases, it can correspond to the agent (see last two lines).

Table 2: Deverbal nouns formed with the prefix wa-

	Verb	Noun
Intransitive Stative	shin '(to be) fat'	washi ⁿ 'fat', 'bacon'
	<i>zhiⁿga</i> '(to be) small'	wazhi ⁿ ga 'bird'
	zhíde '(to be) red'	wazhide 'tomato'
	baxté 'to tie <u>it</u> '	wabáxte 'bundle'
	thathé 'to eat <u>it</u>	watháthe 'foot'
Transitive	áthaha 'to put <u>it</u> on'	wáthaha 'clothes'
	$t\acute{o}^n$ 'to have (many of) it'	<i>wató</i> ⁿ 'goods'
	baxú 'to write <u>it</u> '	wabáxu 'letter', 'writer' ⁶
	<i>dóⁿbe</i> 'to see <u>it</u> '	wadónbe 'scout'

³The antipassive was first described by Silverstein (1972:395) in the description of an ergative language. Since then, many scholars restrict this notion to the description of ergative languages, while others use it for describing object-demoting constructions without considering the alignment features. Here, I follow the second tradition. The Umónhon antipassive construction described here corresonds to the "functionally determined" antipassive of Cooreman (1994).

⁵Wa'é 'to farm' is attested a few times in Dorsey (1890).

⁵Gi'i and its antipassive counterpart wé'i are attested only in UNPS (2015:8).

Other nouns combine wa- with an applicative prefix: the instrumental i- 'with', the locative (superessive) a- 'on', and the locative (inessive) u- 'in' (see morphophonological changes at the end of section 1). Here again, they can be considered as deverbal nouns because the corresponding verb without wa- can easily be retrieved. Such verbs are not attested in the corpora available to me, however.

Table 3: Deverbal nouns of instruments and location

Putative Verb	Noun
*áthethe 'to eat \underline{x} on y '	wáthathe 'table'
* <i>ibaxu</i> 'to write \underline{x} with y '	wébaxu 'pencil'
* <i>imagixe</i> 'to carve \underline{x} with y '	wémagixe 'saw'
* \acute{u} 'e 'to farm in \underline{x} '	ú'e 'field'

It is not always clear if wa- should be considered as a nominalizer, especially when the corresponding verb is transitive: in those cases, it could be considered as a conversion from a transitive verb with antipassive wa-. For lack of space I will not cover this issue. I consider that wa- has a nominalizing function at least when it derives nouns from intransitive stative verbs. Intransitive stative verbs cannot take an antipassive marker, nor do they take the 3rd person plural object marker when their subject is plural (Marsault 2016:81).

2.4. Temporary conclusion: $0.3PL \leftrightarrow ANTIP$

From the examples in the previous sections, and leaving aside the nominalizing function, we see possible ambiguities between wa- as a 3rd person plural object marker and as an antipassive marker: the antipassive marker could be interpreted as a third person plural maker having acquired a generic reference. Thus, the form $wamo^ntho^n$ in (10b) can be interpreted in two different ways, and the context does not always clarify which function wa- is taking.

- (10) a. $mo^n th \acute{o}^n$ 'he steals \underline{x} '
 - b. wamónthón 'he steals (things)', 'thief', 'he steals them'

Example (11) typifies this ambiguity. Here, the form *wéthai*, from the base verb *ithe* 'to find \underline{x} ', means 'discovered the presence of enemies', as can be seen in the translation. This example is from the second sentence of a tale, and 'the enemies' have not been previously introduced. Nonetheless, Dorsey glossed the verb 'discovered them', favoring an interpretation of wa- as a marker of 0.3PL.

```
(11) Táxti-zhi<sup>n</sup>ga ak<sup>h</sup>á wétha-i t<sup>h</sup>e. (< ithe: 'to find <u>x</u>')

Fawn the discovered them (Dorsey's gloss)

deer-small the.sg?.find-px PAST

'The Fawn discovered the presence of enemies' (Dorsey 1890:358.1 / Joseph LaFlesche)
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⁶Wabáxu is very frequently used for 'letter'. I have found one instance where it refers to the writer, in Dorsey (1890:509.3).

⁷As will be seen in section 3, wa- as an underspecified argument marker can also correspond to a referring, singular object which is left indefinite by the speaker. This use of wa- could account for nouns such as wabáxu 'letter'.

This analysis according to which the antipassive could arise from 0.3PL with a generic interpretation works in most cases in Umoⁿhoⁿ. However, a few corpus examples contradict this analysis, as will be seen in section 3. Moreover, while most Siouan languages have a cognate of wa- as an absolutive, only a few of them have the prefix wa- as a 0.3PL marker.

3. Antipassive with referring object

In example (12), we see the prefix wa- on the transitive verb 'to write \underline{x} ', where it stands for an inanimate singular referring object. It cannot be interpreted as a 0.3PL marker. The gloss provided by Dorsey, "you wrote something", identifies wa- as an instance of the function of "underspecified argument marker". In this case, however, it cannot be interpreted as an antipassive marker either. The sequence $washp\acute{a}xu$ $t^h\acute{t}thathe$ tho^n forms a relative clause translated 'what you wrote and sent hither' by Dorsey. Wa- stands for a specific object which has the syntactic status of a verb argument: whatever wa- refers to is the object of the second verb, $t^h\acute{t}the$ 'to send \underline{x} ', and it is the head of the relative clause, not expressed as a NP here. Note that the verb is conjugated with A2 personal marker (initial shp- instead of b-), which unambiguously distinguishes it from a noun. For such cases, wa- is considered as an "indefinite object" (glossed INDEF), which does not reduce the verb valency.

(12) wa-shpáxu thí-tha-the thon a-nón'on (...).
you wrote something you sent it here the ob. I heard it (...) (Dorsey's glss)
ANTIP-A2.write arrive-A2-CAUs the A1.sG-hear
'I have heard what you wrote and sent hither (...)' (Dorsey 1891:64.1 / Gahige)

Example (12) is contradictory with the temporary conclusion presented in §2.4: here no ambiguity is possible with wa- as a 0.3PL marker, and it suggests that the "underspecified argument marker" is disconnected from the 0.3PL marker, despite the fact that they are homonyms.

Furthermore, wa- is sometimes attested in clauses where an inanimate or singular object is expressed as an NP, like in (13). To the best of my knowledge, such constructions in Umóⁿhoⁿ have never been explicitly described, and the translations that come with such constructions do not suggest any interpretation of wa-. It is possible that wa- has developed a partitive semantics or continuative aspect value. This could account for the presence of wa- in (13). With this interpretation, we could propose as literal translations of example (13) as 'He went home after telling us to work some of the land with our hands', or 'He went home after telling us to do some work on the land with our hands'.

(13) Noⁿbé tóⁿ moⁿzhóⁿ wa-thítoⁿ wagázhi agtha-í.
hand have land ANTIP-work 0.1PL-ask go.home-PX
'He went home after telling us to work the land with our hands' (Dorsey 1890:507.7 / Te-úkoⁿha)

⁸ If the verb were not conjugated, the sequence *wabáxu thí-tha-the thon* could be interpreted as 'the letter which you sent here', due to the fact that *wabáxu* can be a verb and a noun (compare Table 1 and Table 2).

⁹This interpretation of *wa*- was suggested to me by B. Gordon (p.c.), with the verb *watháthe*. They reckons that it needs to be checked with speakers, and I try here to apply this interpretation to example (13).

Considering the previous examples, the precise reference of wa- in examples such as (14) is ambiguous: it could be analyzed either as a generic wa-, translated as 'I write to you', or as a referring wa-, which is the interpretation favored by Dorsey here: 'I write something to you', with the speaker having something specific in mind that will be made explicit in the following sentences (example (14) corresponds to the first sentence of a letter).

```
(14) Khagé-ha, wa-wi-paxu friend-VOC.M ANTIP-A1.SG/P2-A1.SG.write 'O friend, I write to you about something' (Dorsey 1890:55.1 / Nonzadazhi)
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4. Conclusion

This paper identifies at least 4 functions for the prefix wa-, with possible ambiguities between them: third person animate plural object marker (0.3PL, §2.1); antipassive marker (generic reading, ANTIP, §2.2); indefinite object marker (specific reading, INDEF, §3); and nominalizer (NMLZ, §2.3). Few descriptions of Siouan languages address the issue of the referentiality of the patientive participant in constructions with wa-, and it cannot be easily deduced from the English translation. It seems that the generic referentiality is attested in most Siouan languages, at least on a few verbs each time (see Marsault forthcoming).

In Umóⁿhoⁿ, while wa- as a generic antipassive can be linked to 0.3PL marker, suggesting at first sight some historical link between them, there is no link between the 0.3PL marker and the INDEF marker, which often stands for non plural and/or inanimate objects.

Ambiguities are possible between 0.3PL and generic antipassive (examples 10 and 11), and between generic and referring antipassive (example 14). In turn, the functions of referring antipassive (*verb* something) and nominalizer (something that is *verb*) are close, especially considering the pervasiveness of relative clauses in Umoⁿhoⁿ, and its structure (see Rudin 1991).

Figure 1: Ordered functions for wa- in Umonhon

O3PL
$$\leftarrow$$
 ANTIP \leftarrow INDEF \leftarrow NMLZ (5, 6) (10, 11) (9), T. 1 (14) (12) T. 2, 3

Figure 1 captures the distinct functions of *wa*- described in this paper, and the possible ambiguities between them. The reference of the illustrating example(s) or Table(s) of each function are indicated underneath. The arrows between each function illustrate possible ambiguities between two functions, and the examples illustrating these ambiguities are referred to underneath the arrows. This figure explains why it is difficult to establish a diachronic source for the antipassive in Umónhon: the data show ambiguities in two opposite ways. In Marsault (forthcoming), I suggest that the antipassive reading can come from both 0.3PL and INDEF, building evidence on formal distinctions which are found in some contexts.

More research is needed on this subject in order, on the one hand, to better understand which are the values of wa- synchronically (especially the possible "partitive" value), and on the other hand, to investigate the possible diachronic pathways of evolution, and confirm or infirm the hypothesis of two sources for the antipassive.

Abbreviations

1, 2, 3	1st, 2nd and 3rd person	INTENS	intensive
A	agentive	NARR	narrative
ANTIP	antipassive	NEG	negation
AUX	auxiliary	NMLZ	nominalizer
CAUS	causative	O	object
DAT	dative	PAST	past
DECL	declarative	PL	plural
EVID	evidential	PX	proximate
IMP	imperative	SG	singular
INDEF	indefinite	VOC	vocative

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