Mandan

**Mauricio Mixco** 

Mandan, sole member of one of the four branches of Siouan (within Catawba-Siouan), has under 10 speakers, among some 200 tribal members. Epidemics and inter-tribal warfare reduced these Missouri River village-dwelling horticulturists, from 5000 to under 200 members by 1837. With the Hidatsa (Siouan) and the Arikara (Caddoan), they constitute today's, Three Affiliated Tribes Nation (Ft. Berthold Indian Reservation; North Dakota). Mandan has vocalic epenthesis, is notable for only 10 consonants, 9 vowels (plus length) and no nasal stops, despite nasal spread from 3 nasal vowels. Mandan is a verb-final, headmarking language, with positional auxiliary verbs (sit, stand, lie) marking tense-aspect-modality (these auxiliaries also serve as classificatory NP determiners); other auxiliaries mark diminutives, benefactives and causatives, etc. Evidentiality, subject-number and other TAM distinctions are mostly suffixal. The verb has active/stative, subject-object split-transitive prefixation and distinguishes addressee gender in its illocutionary suffixation. Coordinate and subordinate clauses suffix a three-way distinction of realis vs. irrealis subjectcontinuity/switch-reference.

MAURICIO J. MIXCO, Professor of Linguistics and Languages at the *University of Utah*, began publishing on three Cochimæi-Yuman languages of northwestern Mexico in the 1970s and has worked on Mandan since 1993.

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M. Mixco: Mandan

# Mandan

# Mauricio Mixco

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## General Historical and Cultural Background:

Mandan is an endangered Siouan language spoken fluently by a rapidly dwindling population of fewer than eight elderly people on the Ft. Berthold Indian Reservation, which straddles a dammed section of the Middle Missouri River in North Dakota. In addition, there is a smaller number of semi-speakers. For the most part, modern Mandan have multiple ethnicity, as the result of intermarriage with members of other native, as well as non-native groups. All told, there are perhaps two hundred people, on and off the Reservation, who can claim some degree of Mandan ancestry; however, the great majority of these consists of non-speakers.

In recent times, the oldest Mandan speakers have tended to be trilingual, speaking Hidatsa as well as English. In some instances, though certainly not all, there is even evidence of interference from these languages in Mandan. Multilingual speakers report having acquired Hidatsa in childhood, either from relatives or as a result of contacts at local mission schools in which Hidatsa-speaking classmates predominated. As the language of instruction, they also acquired a working knowledge of English, perfected later in life through educational, military or work experiences. Moreover, some speakers recall a minor degree of Mandan-Arikara bilingualism, which has not persisted from former times. Instances of possible borrowing and other contact phenomena will be duly noted here.

The Mandan are considered to be one of the longest-settled, aboriginal peoples in the Middle Missouri River region. From a high point of wealth, power and cultural achievement at first European contact (by the Sire de Verendrye in 1738), these erstwhile bison hunters, horticulturalists and traders came to be decimated by European epidemics brought by riverboat to their palisaded earthlodge villages and by the depredations of mounted nomads from the surrounding plains. In 1837, a mere thirty-three years after the first visit of the Lewis and Clark expedition, the *Corps of Discovery*, dispatched by

<sup>1.</sup> I should like to thank the Mandan speakers who have collaborated with me: Clyde Baker, Jacob Bird, William Bell, Edwin Benson, Louella Benson Young Bear, Ernest Medicine Stone and Carl Whitman. I also thank those colleagues, whose comments on drafts of this monograph have enhanced its quality; all flaws that may persist in it continue to be entirely my responsibility, of course: Randolph Graczyk, Douglas Parks and Robert Rankin. I gratefully acknowledge the support of the The University of Utah College of Humanities Sabbatical Leave and Career Development and University Faculty Research Committees, The Whatcom Museum Foundation Melville and Elizabeth Jacobs Research Fund (for exploratory fieldwork in Mandan on the Ft. Berthold reservation in 1993) and of the National Science Foundation for research support since 1994.

mounted nomads from the surrounding plains. In 1837, a mere thirty-three years after the first visit of the Lewis and Clark expedition, the *Corps of Discovery*, dispatched by Thomas Jefferson to explore the newly-purchased Louisiana Territory, thousands of Mandans died of small pox, leaving under 200 survivors. The thirteen clans of the Mandan were reduced to two major divisions (the *Three-Clans* and the *Four-Clans*), which soon merged with analogous structures in the Hidatsa kinship system (Will and Spinden 1906; Parks 1991, Vol 3: pg. 11).

A remnant of the original Mandan population was thus forced to join with two other friendly tribes against the trauma of depopulation and the incursions of the marauding equestrian raiders. In 1845, they came to share a single, palisaded settlement with the Hidatsa at Like-A-Fishhook Village (named after a bend in the Missouri River north of the Knife River confluence). The Hidatsa were still relatively viable due to an opportune absence from the River during the latest of the epidemics. In 1856, the two Siouan tribes were joined by the Caddoan-speaking Arikara, nearly as devastated by disease and beleaguered by war. Originally, a vast territory, from North Dakota into Wyoming, was promised to the three tribes by the Ft. Laramie Treaty of 1851; however, this area had been drastically reduced by the time the Ft. Berthold Reservation was established by an executive order in 1891. For over a century and a half, these three small tribes have been socially, culturally and, to a degree, linguistically linked. Since the Indian Reorganization Act of 1934, their political relationship has been formalized before the United States government in the *Three Affiliated Tribes Nation* in an even smaller Ft. Berthold Indian Reservation.

#### 0.1 Genetic Affiliation:

While Arikara is most closely related to Pawnee in the Caddoan language family (previously of the Central and Southern Plains), Mandan, like Hidatsa, is a member of Siouan, a family the territory of which extended from the Lower Mississippi River Valley to the Northern Plains into Canada. Mandan is currently classified as the sole member of its own branch in the family, the Mandan branch. Despite having shared the same territory with the latter for some time, Hidatsa is closely related only to Crow of southeastern Montana in the Missouri River branch. There are two other branches of Siouan: the Ohio Valley (also known as Southeastern, given the distribution of its few, now-extinct members in that region: Tutelo, Saponi, Moniton, Biloxin and Ofo). The most populous grouping in Siouan is the Mississippi River branch, consisting of three sub-branches with a number of languages each, namely: the Dakotan sub-branch (Teton, Santee, Yankton, Yanktonais, Assiniboine and Stoney); the Dhegiha sub-branch (Omaha-Ponca, Osage-Kansa and Quapaw) and the Chiwere-Winnebago sub-branch (Winnebago and Iowa-Oto-Missouri). Though some of the latter languages are now extinct, several in the Dakotan branch are still spoken in the general vicinity of Mandan. Catawba (once spoken in what are now the Carolinas along with its sister language, Woccon) is counted as an extinct branch, collateral with the entire Siouan family in a superordinate, Catawba-Siouan family. More remote relationships have also been postulated on a tentative basis for Catawba-Siouan with such, otherwise unrelated, families as Caddoan and Iroquoian (Chafe 1976), not to mention Edward Sapir's earlier, more speculative Hokan-Siouan super-stock hypothesis (Sapir 1929).

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#### 0.2 Variation; Past and Present:

Mandan is often referred to by its speakers as, Rú?eta:(re) ([nú?eta:(re)], sometimes spelled, Nu-eta:(re) or Nuitade), after the dialect from which it arose. Considering the number of pre-contact villages, it is probable that there was some degree of dialect diversity in Mandan. A handful of lexical items are still referred to as of possible Rúpta:(re) origin ([núpta:(re)], spelled Nuptare or Nuptade); the latter dialect does not appear to have survived the earliest reservation period. Rúpta:(re) was also the name of one of the surviving villages in the early nineteenth century. What little is known about earlier varieties of Mandan comes from the writings of such celebrated travelers as Maximilian, Prinz zu Wied Neu-Wied (1839-41), George Catlin (1897) and a few others (see, Will and Spinden 1906.)

recently, publishing a phonological and philological study as well as an analysis of one of the Kennard texts (Carter 1991a; 1991b).

## 0.4 Present Fieldwork and Endangered Status of the Language

I began my own fieldwork with Mandan in the summer of 1993, continuing each summer since. I have worked with most of the fluent men and one woman in the Northern as well as the Southern Segments of the Reservation. The last three years have seen the demise of three male speakers and the incapacitation of another. Given the absence of fluent speakers under sixty years of age, Mandan may accurately be characterized as an endangered language.

Some language-preservation efforts are being made to provide formal instruction in Mandan both at the elementary-school, as well as at the adult level. The teacher for both educational levels is Mr. Edwin Benson of the Twin Buttes area, south of Lake Sakakawea. I have worked most intensely with Mr. Benson over the last few summers.

An immediate goal of my project is to produce a reference grammar and dictionary from which materials can be adapted for both community, scholarly as well as archival purposes. I am also currently editing for publication the collection of several hundred pages of texts collected by Edward Kennard between the late 1930's and the early 1960s. With these, I will include materials I have tape-recorded, transcribed and analyzed, consisting of many hours of narrative and conversation. As mentioned, a small number Kennard texts have been published by Robert C. Hollow (1977, 1978) and one by Richard T. Carter (1991b). The former are in a pedagogical orthography with no grammatical analysis; the latter, has a modern phonemic format with morphemic glosses. The text fragment presented here is from *No Tongue*, a 220-line text, one of those previously published by Hollow (Parks, Jones and Hollow 1978). I have provided the missing morphemic analysis for the longer version in a manuscript I have recently submitted for publication (Mixco forthcoming).

# 1. Phonology:

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Mandan has a relatively simple consonantal inventory, with a single series of four voiceless oral stops. Unlike some of the other Siouan languages, it lacks both aspirate and glottalized (or ejective) stop series. As is currently postulated for Proto-Siouan, Mandan lacks nasal stops; the latter are predictably nasal in the environment of phonemic nasal vowels, where /w, r/ are nasalized to [m, n] on the phonetic level, respectively. There are four fricatives, including a palatal fricative. Note that /h/ patterns as a resonant, not a fricative in the following rules.

The flooding of the Ft. Berthold Missouri River bottoms in 1951 by the US Army Corps of Engineers radically disrupted what dialect groupings may have survived the move to the Reservation, henceforth cut diagonally in two by Lake Sakakawea, leaving only two crossings, upstream and downstream.<sup>2</sup> The former is a bridge near New Town close to the western reservation boundary of the Northern Segment; the latter is outside the Reservation, at Pick City across the top of the Garrison Dam, some 20 miles east of the southern boundary of the Eastern Segment of the Reservation and about an hour north of the state capital, Bismarck. The name of its twin city, Mandan, on the opposite bank of the Missouri River, commemorates the location of early Mandan villages near the confluence of the Heart River, a western tributary of the Missouri (e.g. Huff, Slant Village, etc.).

Presently, the bulk of the Mandan on the Reservation lives near the Twin Buttes sub-agency in the Southern Segment; others are scattered throughout predominantly Hidatsa settlements situated around the lake: at Mandaree, Drags Wolf Village (near the Four Bears tribal administrative headquarters and casino), New Town (Shell Creek) and Parshall (Lucky Mound). Whatever linguistic diversity may have existed in the language prior to the earlier period of tribulations and the more recent population displacements is now virtually beyond recovery.<sup>3</sup>

## 0.3 Previous Scholarship:

There are few published sources on Mandan grammar. Aside from older, sketchy reports and wordlists, such as those recorded by Prince Maximilian, the first published modern description of the language is by Edward Kennard (1936), who also collected numerous unpublished, narrative texts. More recently, Robert C. Hollow has left us an unpublished University of California-Berkeley doctoral dissertation, *Mandan Dictionary* (1970) in an early generative phonology framework (Chomsky and Halle 1968). It is a great stride beyond the broad phonetic transcription and morphological analysis in Kennard and is liberally quoted from here. A Richard T. Carter has worked on the language most

The name Sakakawea is from the Hidatsa, saka:ka wi:a 'Bird Woman', the name of the captive Shoshoni
woman who accompanied the Lewis and Clark expedition on their way to the Pacific.

<sup>3.</sup> Prior to formation of Lake Sakakawea modern speakers recall at least three dialect zones, within Ru:?eta:re itself, along the Missouri River: the Short River or Red Butte area (near the present-day Twin Buttes subagency), the confluence of the Little Missouri and Missouri Rivers and, finally, the Independence "Territory" (near modern Mandaree and New Town.)

<sup>4.</sup> More recently Richard T. Carter has published a phonological paper based on philological dialect data from Maximilian as well as an analysis of one of the Kennard texts (Carter 1991a and 1991b). Mary Schramm Coberly has also published an analysis of a Kennard text, Trickster Challenges the Buffalo, Coberly (1979). Therefore, including Kennard (1936) and Carter (1991b), there have been three published text analyses.

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There are six oral vowel distinctions which also contrast through vocalic length.<sup>5</sup> The vowel /æ/ is an archiphoneme that captures a predictable ablaut alternation, between [a] and [e], as conditioned by grammatical environments in specific roots and suffixes.<sup>6</sup> The three nasal vowels may also occur as long.

#### 1.1 Consonants:

#### 1.2 Oral and Nasal Vowels; Long and Short:

i(:)	u(:)	į(:)	ų(:)
e(:)	o(:)		
æ(:)	a(:)	ą	(:)

#### 1.3 Minimal Pairs:

#### 1.3.1 Consonantal Minimal or Subminimal Pairs

## 1.3.1.1 Stops

po 'fish'; te: 'to die'; ko: 'squash'; xo: 'ice'; ho 'voice'
to:p 'four'; o:t 'to accompany'; xik 'bad'; ši 'foot'
a:re 'arm; ha:re 'sky; cloud'; kok 'antelope'; hók 'story'

#### 1.3.1.2 Fricatives

The best examples of fricative contrasts can be found in soundsymbolic ablaut series, such as the following:

> si:re 'buckskin'; ši:re 'yellow' xi:re 'brown'; šot 'white'; xot 'grey'; še? 'wind'; xe?h-o?š 'it's raining' 1.3.1.3 Glides

The following examples reveal the contrast between glides in nasal as opposed to non-nasal environments:

wa?h 'snow'; wah 'turnip'; wa:h 'arrow'; wut 'field'; wup 'cellar';
ra:-te-o?š 'you stand'; ra-tæ-o?š 'stood up' (vt; mutative prefix);
pa:re 'bitter'; pi?h 'smoke'; pih 'fart'; wi:h 'woman';
wa-i?h 'robe'; psi-o?š 'be black'; pši:r-o?š 'be flat'.

#### 1.3.2 Vocalic Minimal or Subminimal Pairs

These examples are arranged to show both qualitative and quantitative vowel contrasts, along with contrasts in nasalization:

pi? 'liver'; pe? 'nit'; po? 'fish'; pa? 'head'; pus 'striped';
wa-xtik okšuk 'peg'; wa:xtik 'rabbit'; wah 'turnip'; wa:h 'arrow';
ši-o?š 'be good'; ši:h-o?š 'be sharp'; sih-o?š 'be strong'; wi:h
'woman'; xtuxte 'chew'; xiru: 'tame'; šut 'tail'; šu:te 'bent'; hu-o?š
'be much'; hu: 'yes'; hi? 'teeth'; i-hi? 'hair'; i-hi: to drink';
ka-ških-o?š 'to slit'; ka-xkih-o?š 'to crack'; xke:?-o?š 'to dig';

<sup>5.</sup> Hollow 1970 does not recognize the phonemic distinction of vocalic length.

<sup>6.</sup> Hollow 1970 uses a capital letter /E/ for the arciphoneme /æ/, which is [a] in the following grammatical environments: 1) as the replicated vowel in a reduplicated root; 2) before the imperative, the second plural, same-subject and negative suffixes. Elsewhere it is [e].

<sup>7.</sup> The affricate /č/ occurs in one suffix only, -č 'intentive' (INT); see section 2.2.7.1 for examples.

# 1.4 Representative Phonological Rule Derivations:

In the interest of space, only one example is provided for each of the following rules.

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1.4.1 k/p Metathesis:  
 
$$k + p---> p + k$$

ki-pa-xkih-o?š 'he cracks something of his own' k-pa-xkih-o?š Readjustment Rule pka-xkih-o?š p/k Metathesis Rule [pkaxkiho?š]

## 1.4.2 i-Deletion:

áki-rir 'bridge' (lit. atop-walk) ák-rir i-Deletion Rule ák-rir-e Final Vowel Addition aknine Glide Nasalization [aknine]

1.4.3 Dental Stop Dissimilation:

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pa-wéš-rit-ta 'Cut it (pl)!' pa-wéš-ris-ta Dental Stop Dissimilation [pawéšnista]

1.4.4 Geminate Consonant Simplification:

wrók-kræ-eška 'rice' (lit. worms-like) wrók-kre-eška Readjustment Rule wró-kre-eška Geminate Consonant Simplification wró-kre?eška Glottal Stop Insertion werókere?eška Epenthesis [werókere?eška]

1.4.5 Final Vowel Addition (optional):

ĭ=sæk 'do; make' i=sek Readjustment rules i=seke Final Vowel Addition

[iseke]

1.4.6 Glottal Stop Metathesis:

wa-áki-rak 'I ride horseback' (lit. I-atop-sit) w?-ák-rak Readjustment Rules wá?k-rak Glottal Stop Metathesis wá?karak **Epenthesis** wá?kanak Glide Nasalization

[wá?kanak]

<sup>8.</sup> The latter has an irregular infixation of the negative suffix, -xi (NEG) within the root, ki-hæk 'to recall' (cf. hæk 'to know'; ki- 'middle voice' (MV)).

# 1.4 .7 Post-Consonantal /h/ Deletion:

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ki-hĭ-o?š

'he arrives back there'

k-hǐ-ʔš

Readjustment Rules

k-ĭ-?š

Post-Consonantal /h/ Deletion

[kiʔš]

## 1.4 .8 /rh/ Realization:

é=ra-hæ-rįt-o?š

'you (pl) say it'

é=r-ha-rįt-o?š

Readjustment Rules

é=ta-rįt-o?š

/rh/ Realization

étanito?š

Glide Nasalization

[étanįto?š]

#### 1.4.9 Final Resonant Deletion:

h

ptir 'buffalo'

ptį Final Resonant Deletion

[ptj]

# 1.4.10 Glottal Stop Deletion:

pĭ?

'liver'

рĭ

Glottal Stop Deletion

[pi]

# 1.4 .11 Pre-Consonantal /r/ Deletion:

ĭ-hjr-ka

'pipe'

í-hį-ka

Pre-Consonantal /r/ Deletion

[ihjka]

1.4.12 Pre-Consonantal /h/ Deletion (optional before stops):

pasáh-s

'the stream'

pasą́-s

Pre-Consonantal /h/ Deletion

[pasás]

# 1.4 .13 Glottal Stop Insertion:

wa-ru-úx-o?š

'I break it'

wa-ru-?úx-o?š

Glottal Stop Insertion

[waru?úxo?š]

# 1.4.14 Epenthesis:

wrį

'water'

wirį

Epenthesis Glide Nasalization

winį ~ monį Glide N

[inem ~ jniw]

ko-wrór

'her husband'

ko-wró

Final Resonant Deletion

ko-weró

**Epenthesis** 

[koweró]

wa-ki-ki-hú:r-o?š 'I came back again' wa-ki-kú:h-o?š Readjustment Rules wákiku:ho?š Stress [wákikú:hò?š]9

# 1.4 .16 Regressive Nasal Assimilation:

# 1.5 Syllable Structure and Phonotactics:

Mandan lexical morphemes may consist of one or two syllables.

Polysyllabic morphemes exceeding two syllables, are likely to be lexically complex, at least historically. Monosyllabic morphemes may begin with one or no consonant or a cluster of no more than two members, followed by at least one and no more than two vowels and one or no final consonant: ((C)C)V(C). Disyllabic morphemes may begin with a syllable with minimally no consonants and maximally two, followed by a single vowel. The first syllable vowel in turn can be followed by from one to two consonants followed by a vowel and either one or no final consonant. No morpheme may contain more than one two-consonant cluster: ((C)C)VC(C)V(C):

Shape	Example	Gloss
V:	é:	'be distant'
VC	áh; i:h	'be covered; mouth'
CV	šĭ	'be good'
CV(:)C	šáh; tị:h	'be half; to appear'
CCV(:)	pke; psĭ;	'turtle; be black'
CCV(:)C	skýh; ptį:re; pšąš	'be sweet'; bison; sweetgrass
V(:)CV(:)	á:ki; į:xa:	'be above; alone'
VCV(:)C	iŕąk;	'again'
VCCV	ápxa; oxka	'wing; wild'
VCCVC	ákreh; oxta:r	'be pitiful; cedar'
CVCV(:)	hika; kiwa:	'be last; six'
CVCVC	šówok	'be deep, hollow'
CCVCV	xtáte;	'thunderbird'
CCVCCV	kšikše	'lightning'
CCVCVC	pšįxar	'sage'
CVCCV	kipsą	'painted turtle'
CVCCVC	húprih	'soup'

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## 1.6 Phonotactics and Morpheme Structure Conditions:

1) A morpheme contains at most one consonant cluster. 2) There are no geminate consonants in a single morpheme. 3) There are no clusters of spirants with spirants. 4) /p/ never occurs as the second member of a consonant cluster. 5) Resonant consonants do not occur before obstruents. 6) /w/ may be preceded by velars only. 7) /t/ never occurs before spirants. 8) /h/ can be preceded only by /r/. 9) A morpheme contains no more than one nasal segment. 10) There are no vowel clusters. 11) /2/ may occur only between a vowel and a consonant. 12) There is only one primary stressed syllable per morpheme. 13) /w/ cannot occur as the final consonant of a morpheme.

# 2. Morphology:

Mandan generally fits the traditional definition of an agglutinative morphology; many, if not most, grammatical concepts are expressed by a rich system of affixes and clitics, particularly on the verb. Furthermore, there are very few syncretic (portmanteau, fusional) morphemes. What is more, with minor exceptions, affixes do not usually undergo drastic phonological restructuring from their phonemic to their phonetic

<sup>9.</sup> Primary stress alternates with secondary. A detailed analysis awaits further research.

representation. Periphrastic constructions are treated with the discussion of auxiliary verbs (see 3.2).

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## 2.1 Nominal Morphology:

The noun root can be an unanalyzable phonemic monosyllables like: wrį 'water', ha:(re) 'sky; cloud', wro:k 'male; buffalo bull', wį:h 'woman' (cf. wį:h-ka 'female') or polysyllables (among which disyllables prevail; with epenthesis, some of these are heard as polysyllabic): ruʔeta:(re) 'Mandan', rotki 'hit', xoprį 'holy; sacred' [xópini], wįʔ ti 'village' and ruwąʔk 'man'. Analyzable nouns are often the product of compounding or of derivation, discussed below: ruwąʔk ši 'chief' (lit. man good), suk ruwąʔk 'young man', wąʔk ti 'earthlodge' (lit. earth house), wą:-xoprį wį:h 'holy woman' (lit. somethingholy woman).

Singular number is unmarked on nominals and verbs; plural often remains unmarked on the noun, being reflected most often on the verb as subject-number agreement. When plurality is expressed on the noun, it takes the shape of the suffix, -kræ 'plural', which also occurs as the third person plural marker on the verb: suk ruwa?k-kræ-s 'the young men; the youths', suk wį:h-kræ-s 'the young women', wrį-xtæ-kræ-s 'the ocean waters' (lit. 'the big waters').

# 2.2 Verbal Morphology

The phonological description of the noun root will also serve for the verb root. There is abundant affixation on the verb, with a few more suffix than prefix positions. The latter mark mostly pronominal agreement (subject and object), valency (middle voice, reflexive, reciprocal, mutative, vertative), a set of instrumentals, a marker for unspecified argument (referred to as the 'absolutive' in previous writings: Carter 1991b, Hollow 1970, Kennard 1936) and prefixes to mark agreement with other under-specified arguments. There is also the prefixal component of a circumfixal negative. There is only one tense-marker before the root; this is the future prefix. Mandan also shows a typically Siouan set of "separable" prefixes which serve to mark agreement with certain arguments on the verb stem; in the lexicon, these must be considered to be stem-building morphemes associated discontinuously with the root. I refer to them as separable because other prefix positions can intervene between them and the root and yet they are a discontinuous unit with the root. Suffixes are listed below by position and are further described for function and content in the appropriate sections that follow. Note that the ordering and affixal or clitic status of some of these morphemes remain a matter for further research.

The order of the prefixes (numbered on the left) can be tentatively represented in the following schema: (10) Negative-(9) Unspecified Argument-(8) Future-(7) Pre-Stem Vowel-(6) Pronominal Agreement-(5) Pronominal Agreement-(4) Reciprocal-(3) Reflexive-(2) Instrumentals-(1) Iterative-(0) Root.

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In the pronominal prefixes, first person precedes second in transitive stems. Since third person remains unmarked, it is not relevant to this requirement. These combinations require some special phonological rules (readjustment rules) seen in what follows. Note also the distinction between Stative and Active pronominal agreement reminiscent of ergativity and of unaccusatives; some intransitive verbs share agreement pattern for transitive subjects, while some bear the prefixes for transitive-object agreement.

Suffixes (numbered on the right) are aligned roughly in the following tentative order following the root: Root (0)-Stem Vowel (1)-Negative (2)-Similitive (3)-Attitudinal (4)-Evidential (5)-Aktionsart (6)-Subject Number (7)-Aktionsart/Aspect (8)-Emphatic (9)-Aspect (10)-Aspect (11)
Conjunctive/Modal/Past/Intentive/Quotative/Illocutionary (12). Note the variety of semantic categories occurring in final suffix position.

Illocutionary suffixes occur only on the last predicate of the clause; predicates not in clause-final position bear other affixation such as switch-reference, etc. This suffix sequence must be considered tentative, given the difficulty of actually generating complex forms involving several position classes.

The two suppletive forms of the Negative suffix (position 2) are phonologically predictable, taking the suffix, -xi- after vowel-final roots and -rix-, otherwise. The Similitive is, -eška:-, which has the basic meaning 'be like; resemble' (SMT; position 3). The discussion and examples below are organized by semantic category; I refer to the above suffix schema to locate the specific examples. References to the text examples are also given before the ones listed in each section.

# 2.2.1 Pronominal Agreement Marking

Pronominal prefixes occupy positions 4 and 5. As stated above, Mandan shares with other Siouan languages a distinction between Active and Stative pronominal agreement (also known as, *split intransitive* agreement). Active agreement marks the (agent) subject of transitive verbs and of some intransitives; while Stative marks transitive object agreement and the sole patient or theme argument of certain intransitive predicates, including the predicate nominals and possessive predicates. This subcategorization is not strictly semantic, however; it appears to be on its way to developing into a lexical determination. The following are examples of Active agreement on transitive verbs (also see Text lines: 10, 12, 26):

wa-pa:?x-o?š 'I set it upright; established it.' (A1sg-set:up-INDma)

ra-ru-u:x-o?š 'you snapped it with your hand(s).' (A2-IPh-break-INDma)

a:-ø-xwæ:-o?š 'he hid it.' (OBJ-A3-hide-INDma)

In the following, we see a third person subject (unmarked) with a set of Stative or object-agreement prefixes:

> wa-ø-kira-o?š 'he tells me (S1sg-A3-tell-INDma)

ri-ø-hæ-o?š 'he sees you' (S2-A3-see-INDma)

ro:-ø-hæ-o?š 'he sees us' (S1pl-A3-see-INDma)

'he tells him' ø-ø-kira-o?š (\$3-A3-tell-INDma)

The following are intransitives with Stative agreement:

wi-wa:-xwæ:-o?š 'I'm hiding' 10 (\$1sg-UNSP-hide-INDma)

ri-ši?-rit-o?š 'you (pl) are good' (S2-good-2PL-INDma)

ø-si:-0?š 'it's yellow' (\$3-yellow-INDma)

ro:-ha:?-o?š 'we're sour' (S1pl-sour-INDma)

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The following are intransitives with Active agreement:

wa-ptæ:h-o?š 'I'm running' (A1sg-run-INDma)

i=ru-hæk-o?š 'we know it' (PV=A1pl-know-INDma)

ra-ki?ka:r-rit-o?š 'you (pl) are flying' (A2-fly-2PL-INDma)

As was mentioned above, the order of the overt transitive pronominal prefixes is determined by the rank of their grammatical person; with first person outranking second. Morphophonemic rules tend to disguise the phonemic representation of certain pronominal prefix sequences. This is due, in part, to the interaction of rules of vocalic syncope with those of epenthesis. It also entails a degree of vowel harmony by which the epenthetic vowels reflect the quality of the nearest stressed vowel. Along with the aforementioned vocalic phenomena, goes the process of nasalization which can render a phonemic /w/ or /r/ as phonetic [m] and [n], respectively, thus blurring the distinction between some of the forms of the Active and Stative prefixes.

Recall that First Person Singular is /wa-/ as an Active but /wa-/ as a Stative, thus glide-nasalization can neutralize the difference. Second Person is /ra-/ as an Active and /ri-/ as a Stative, but if the vowel of the former is dropped and the subsequent epenthetic vowel harmonizes to [i], followed by nasal assimilation of /r/ to [n], the resulting [ni-] makes the Active phonetically indistinguishable from the Stative. Through such rule interactions, the sequence First singular Subject with Second Stative /wa-rj-/ phonemically, is rendered as [mini-] phonetically. Likewise, Second Active with First Singular Stative is /wa-ra-/ but is realized as [mana-]. Further examples follow (also see Text lines: 10, 12, 26):

> 'we will tell you' [nunukinákto?š] ru-ri-kira-kt-o?š (A1pl-S2-tell-POT-INDma)

<sup>10.</sup> The wi- 'first person stative' (S1sg) may be a contraction of wa- and i-; rather than a special use of the typically possessive, wj- 'first person' (cf. Hollow 1971; Kennard 1936)

```
wa-ri-pe-s-o?š 'I spoke to you' [minipéso?š]<sup>11</sup> (A1pl-S2-speak-PST-INDma)
```

ro:-ra-hæ-kt-o?ra 'will you see us?' [ro:rahékto?na] (S1pl-A2-see-POT-INTfa)

With the exception of the first-person plural, the separable stem prefixes (PV; position 6) precede the pronominal prefixes; Kennard (1936) refers to these as "infixed" pronominals, a term not in keeping with modern usage:

i=r\(mu\)-hek-o?\(\text{s}\) 'we know it'

(PV=A1\(mu\)-know-INDma)

i=\(mu\)-s\(\pi\)-o?\(\text{s}\) 'I make it'

(PV=A1\(\text{sg}\)-make-INDma)

i=ø-rukap-o?š

> wa:-ro:-i=wa:xwæ-xi-o?š >

In the case of the First Person Plural Stative prefix however, there is an obligatory rule of metathesis by which the latter exchanges positions with the stem prefix; in the case of certain prefixes there is also vowel deletion, resulting in a rather distinct phonetic realization:

```
(PV=S3-unable-INDma)

i=ro:=rukap-o?š 'we're unable'
(PV=S1pl=unable-INDma)
> ro:-i=rukap-o?š > r-i:=kap-o?š > [ri:kapo?š]

i=a:-ø-xwæ-o?š 'he covered it (with something)'
(PV=TR-A3-cover-INDma)

wa:-i=a:-ro:-waxwæ-xi-o?š 'he didn't cover us up (with it)'
(NEG-PV-TR-S1pl-UNSP-cover-NEG-INDma)
```

'be unable; incapable'

[wa:ri:waxwa:xi?š]

There are a few morphophonemically complex realizations of certain verbs, which seem to be the product of lexically-determined, now "irregular", historical developments. Thus the verb, 'to say' has the following paradigm; note also the aforementioned metathesis of the First Person Plural:

/e:= <b>wa</b> -hær-o?š/	'I say'	/e= <b>ra</b> -hær-o?š/	'you say'
e:=w-hæ-o?š		e:=r-hæ-o?š	
e:=pæ-?š		e:=tæ-?š	
[é:peʔš]		[é:teʔš]	
/e= <b>r</b> µ-hær-o?š/	'we say'	/e= <b>ra-</b> hær-rįt-o?š/	'you (pl) say
e=r-he-o?š		e:=r-hæ-rįt-o?š	
r-e=her-o?š		e:-tæ-nit-o?š	
[ré:hero?š]		[e:tánįto?š]	
/e=ø-hær-o?š/	'he says'	/e=ø-hær-kræ-o?š/	'they say'
e=her-o?š		e=her-kre-o?š	
		e=here-kere-?š	
[é:hero?š]		[e:hérekere?š]	

In addition to the above agreement patterns, there is another involving the same type of prefixation as can be found on alienably possessed nouns, yet lacking the possessive meaning; these will be referred to as "pseudo-possessives". The few predicates bearing this type of affixation are derived from adjectival statives with special, idiomatically transitive meanings. Note that, in addition to the "pseudo-possessive" prefixes, transitives involving first and second person agreement, also bear the usual transitive agreement patterns. The First Person Pseudo-Possessive has an Active pattern, the Second Person is Stative: 12

wa-ta-ši-o?š	'I like it'	[ptaší?š]
(A1sg-AL-good	-INDma)	
rµ-ta-ši-o?š	'we like it'	[nutašíííš]
(A1pl-AL-good-	INDma)	

<sup>12.</sup> The structure of the verb, 'like' in Crow is remarkably similar: bas-itchi-w-aa (IPOS-good-1-CAUS); both may have resulted from the elision of an incorporated noun like 'heart' as would be typical for idioms referring to emotions (Randolph Graczyk, personal communication).

<sup>11.</sup> Note that A1sg is marked twice. Once next to the root, yielding [pe:]; the second prior to the object prefix (see 'say' paradigm below)

rį-ta-ši-o?š 'you like it' [nįtašī?š] (S2-AL-good-INDma)

rį-ta-ši-rįt-o?š 'you (pl) like it' [nįtašínįto?š] (S2-AL-good-INDma)

ø-ta-ši-o?š 'he likes it' [taší?š] (S3-AL-good-INDma)

ø-ta-ši-kræ-o?š 'they like it' [tašikere?š] (\$3-AL-good-PL-INDma)

wa-ta-wa-rį-ši-o?š 'I like you' [ptaminiįši?š] (A1sg-AL-A1sg-S2-good-INDma)

rį-ta-wa-ra-ši-o?š 'you like me' [nįtamanaši?š] (A2-AL-S1sg-A2-good-INDma)

# 2.2.2 Agreement for Plural Subject Number

There are two plural-agreement suffixes (position 7); one for a third-person plural subject, -kræ 'plural' (PL), the other for second-person plural, -rit 'second plural' (2PL). In addition to the two below, further examples are available in the paradigms throughout this paper (also see Text lines: 10, 11, 12, 16, 17, 18, 21, 22, 25, 27, 29, 30, 31, 32, 33, 34, 35, 39):

ø-ta-ši-kræ-o?š 'they like it' [tašīkere?š] (S3-AL-good-PL-INDma)

rį-ta-wa-ra-ši-rįt-o?š 'you (pl) like me' [nįtamanašinįto?š] (A2-AL-S1sg-A2-good-2PL-INDma)

# 2.2.3 Adjectival Predicates

Adjectives do not constitute a distinct formal category and are best dealt with as stative verbs. Some adjectival idioms referring to attributes of the body in English, take the body as their subject; the possessor of the body, the equivalent of the English

subject has no agreement on the verb. The Mandan construction is, 'my body is long/tall' rather than 'I am tall' (also see Text lines: 1, 3, 5, 18, 25, 27, 29, 35):

The house is big.

tí xtæ-o?š

That house is not big.

ti á?t e: wa:-xtæ-rix-o?š

The houses are small.

tí xwah-kræ-o?š

That house is (still) new.

tí a?t e: (rá:ku) rá:ka-o?š

That house is (really) old/ancient. tí áît e: ú:sta:-o?š; wa-wa-ú:t-ta:-o?š

I'm tall.

wį-wą́:r[e] háška-o?š

(lit. 'my body long')13

The dog is short.

wrjswé:rut a?t i-wá:r[e] srak-o?š

I'm fat.

wa-rép-o?š

My house is big.

ó=wa-ti xtæ-o?š

Our house is big.

ró:=ti-s xtæ-o?š

In the Noun Phrase, adjectives follow the noun and may optionally take the relativizing or adjectival prefix, ko- 'relativizer' (WH), which does not appear on numerals:  $^{14}$ 

'Five, big, round, heavy, old drums'
wra wa--i=rex-e, ko-µst, ko-tke, ko-kawix, ko-xte-s kixu:
(wood kettle, WH-old, WH-heavy, WH-round, WH-big-DEF five)

Adjectival comparative and superlative predications are marked by the aforementioned relativizing prefix: ko- the most' (WH); the prefix can either be seen as

<sup>13.</sup> Note the first person singular possessive, wi- in 'my body'. In 'I am fat', the prefix is a stative marker.

<sup>14.</sup> The relativizer also appears as, ka-; this seems to be lexically determined.

polysemous or as a type of nominalization akin to others bearing the prefix. The latter might be interpreted as a type of nominalization akin to the use of this suffix as a relativizer: ko-xwah-s 'the small one (of the comparison)'. Note the use of the prefix as the marker of third-person possession on certain kinship terms. Examples follow:

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He is taller than me (cf. kahú?h-o?š 'to exceed; be beyond') a?t é: i-wa:re haška-o?š wá:-ø-kàhú?h-ò?š (that DEM 3P-body tall-INDma S1sg-S3-exceed-INDma)

He is as tall as me (cf. o:=ka?škà-o?š 'be the same; identical') i:-wa:re haška-o?š wi-o:=ka?škà-o?š (3P-body tall-INDma P1sg-S3-PV=same-INDma)

He is as tall as me. (lit. 'his body height the same to mine') i:-wa:re o-haška wi-o=ka?ška-o?š (3P-body NOM-tall S1sg-S3-PV=same-INDma)

We're both the same height. (lit. 'our height is the same')
o=r\(\pi\):-h\(\text{a}\)sk\(\text{a}\) o:=ka\(\text{b}\)ska-r\(\text{a}\)s-o\(\text{s}\)s
(NOM-A1PL-tall PV=same-ATT-INDma)

He's the tallest. (lit. 'the tall one in the comparison') at é: i-wa:re ko-haška-o?š (that DEM 3P-body WH-tall-INDma)

2.2.4 Reflexives, Reciprocals and other Valency Morphemes

## 2.2.4.1 Polysemous ki-:

Reflexives and reciprocals occupy positions 2 and 3. They are not pronominals *per se*. Rather they are related to valency-change markers and are identical to such polysemous prefixes as the middle voice (MV), the vertative (VRT; 'back to a starting point'), inceptive (INC), etc. These concepts are typically marked by prefixes on the verb; no separate, specifically reflexive or reciprocal morphemes outside the verb have been recorded. The prefix, *ki*- 'reflexive' when concatenated to *ki-ki*- has a 'reciprocal' interpretation. Not surprisingly, the former also occurs as a marker for the medio-passive. In addition to the former, there is also a prefix, *i*- for reflexivization which occurs in some semantically complex periphrastic contexts, particularly as prefixed to the verb, *hræ* 'cause;

make': viz. *i-hræ* 'do to self'. The same form occurs with the meanings, 'to pretend' (lit. make self) and even, 'do diminutively; be diminutive', with extended affective meanings such as, 'pitifully' or 'lovingly', etc (also see Text lines: 9, 17, 18, 22, 33).<sup>15</sup>

'I see myself'		'we see ourselves'
<b>wą-ki-</b> hæ-o?š	[mikihé?š]	rų-ki-hæ-0?š

 $({\color{red}S1sg-RFX-see-INDma}) \\ ({\color{red}S1pl-RFX-see-INDma})$ 

'you see yourself' 'you (pl) see yourselves'

rį-ki-hæ-o?š rį-ki-hæ-rįt-o?š

(S2-RFX-see-INDma) (S2-RFX-see-2PL-INDma)

'the men see each other.'

ruwa?k ki-ki-hæ-kræ-o?š

(man RCP-see-PL-INDma)

(RCP-A2-warm

RFX-cause-INDma)

'pretend to cut it off....'

rá-pa-weš-rį **[-hræ-**rį ... 'he cracks **his own**' (2A-IPh-cut-SS RF**X-cause**-SS ...) **ki**-pa-xkih-o?š

(MV-IPh-crack-INDma)

...he was saying his name lovingly.

...é=he-rį ka-rát į-hræ-ro:wak-o?š.

(...PV=say-SS IPf-call:name RFX-cause-NAR-INDma.)

his sister made some pitiful little arrows há-ki kó-ta-wįh-æ ta-wą́h į-hræ í=sæk-a: (PROV-IF P3-AL-sister-SV AL-arrow RFX-cause PV=make-SMT

for him. kự̂ʔ-ki,

give-IF)

<sup>15.</sup> Note that the reflexive occurs with stative, not active markers as in Lakhota; Crow shows both subject and object pronominal marking. When Crow diminutive (kaáta) is suffixed to an active verb, it is obligatorily followed by a causative. Perhaps a similar pattern occurred in pre-Mandan, but Mandan lost the diminutive and kept the causative with diminutive semantics (Randolph Graczyk, personal communication)

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while they were devouring the ribs, the man went back to the village. pi-kræ rut-a: wá:k-æ-ha:, ruwá?k-s i-wi?=ti-t (devour-PL eat-SIM abide:lie-SIM, man-DEF DIR-village-LOC

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ki-ræ:h-o:wak-o?š. VRT-go-NAR-INDma)

## 2.2.4.2 Mutattve ra-:

The function of the rare mutative morpheme is akin to the above middle voice prefix with an inchoative meaning. It seems to indicate a state resultant from some change or alteration with no agency specified. It frequently occurs in adjectival predicates that reflect a gradient semantic relation to another, more central or typical meaning. This can be seen in terms distinguishing among shades of color:

> ra-šot 'grey; whitish; pale' (MUT-white)

ra-se: 'pink; reddish' (MUT-red)

#### 2.2.5 Instrumental Prefixes

The instrumental prefixes occupy the second position from the root. They represent a form of agreement with arguments of instrumentality or with the means involved in accomplishing the action described by the transitive root (e.g. ru- 'by hand'; pa-'by pushing'; ra-'by heat'; ra-'with the mouth; ra-'with the foot'; ka-'by force'; wa-'with a sharp object'). The instrumentals are a type of causative or transitivizer. In many instances these prefix-root complexes have become lexicalized stems, functioning as idioms whose meaning has distanced themselves from their original literal sense (also see Text lines: 2, 3, 6, 8, 9, 10, 15, 24, 25, 29, 30, 31, 33, 39):

ru-šæ	'to grasp (with the hand)'	ra-šæ 'to bite'		
	(IPh-grasp)	(IPm-grasp)		
ra-xu:(re)	'to scorch (with heat)'	wa-itkæ	'to flesh a hide	
	(IPt-scorch)	(IPs-remove)	(sharp inst)'	

'to knock; tap' ka-tax pa-kra 'to butcher' (IPf-knock) (IPh-butcher)

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## 2.2.6 Other Nominal Agreement Prefixes

The wa- 'unspecified-argument' prefix (UNSP) of position 9 and the stem-forming, "separable" or "pre-verb" prefixes (PV) of position 7, represent a type of nominal agreement in the verb stem whose function is to reflect a relationship with an overt or covert ((un)specified) argument of the predication (i- '(unspecified) instrument'; o-'(unspecified) location' and 'nominalizer'; a:-'transitivizer; (unspecified) theme or patient '(TR); . The former may occur with transitive and intransitive predicate. With the former, it usually represents a covert object; with the latter, it represents the sole argument (semantic patient or theme) of the predicate. In the latter function, it may occur in stems glossed as nouns (also see Text lines: 1, 3, 5, 8, 9, 10, 11, 12, 14, 15, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 30, 31, 32, 33, 34, 35, 37, 38, 39):

> wra wa-ra-xu:(re) 'coffee' (lit. scorched wood) (wood UNSP-IPt-scorch)

wa-i=sæk-o?š 'work' (lit. do/make something; cf. i=sæk (UNSP-PV=do-INDma) 'do/make')

wri i-o=su hræ 'bucket' (lit. what causes water to pour into (water PV-PV=pour cause) a space)

pax i-pa-kis-e 'dishcloth' (lit. what one pushes (on) dishes) (dish PV-IPh-wipe-SV)

# 2.2.7 Tense and Aspect

# 2.2.7.1 Future Tenses and Irrealis Aspects

Most tense and aspect markers relate to past time; however, there are three affixes with a future or future and irrealis dimension; these are, o- 'future' (FUT; in prefix position 7), the suffix, -kt 'potential' (POT; in position 11) and -č 'intentive' (INT; position 13) the latter, usually accompanied by the irrealis auxiliary verb, ehe 'say; want; intend'. The former is more strictly a future tense marker, while the latter has a

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future/irrealis reading, also rendered with English modal glosses (with both deontic and epistemic meanings), such as may, might, should, must, etc. (also see Text lines: 25, 26):

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wra a?t e: o-ka-ho:-o?š 'that (there) tree is going to topple.' (tree that that FUT-IPf-fall-INDma)

wa-o-rį-ru-pax-rįx-rįt-o?š 'you (pl) won't burst it.' (NEG-FUT-IPh-burst-NEG-2PL-INDma)

a:-ræ:h-kræ-ka-kt-o?re 'they must take it back' (TR-go-PL-IMPF-POT-INDfa)

ta-ška wik-č e=wa-ræ:h-o?š 'I think it won't be so.' (INDF-how not-INT PV=A1sg-think-INDma)

## 2.2.7.2 Narrative Past Aspectuals

#### 2.2.7.2.1 Narrative Past:

Perhaps the most common of the past tense aspectuals in the Kennard texts is, -ro:wak 'Narrative Past' (position 11). It signals that the narrator is transmitting received lore and not making an assertion on his or her own initiative; this stylistic formula is suspended in the free English translation (also see Text lines: 2, 3, 8, 9, 14, 16, 17, 18, 21, 22, 30, 32, 34, 37, 39):

he made a fire and roasted the ribs. wa-ra o-rák-rį rút-kræ-s ra-sit (UNSP-fire NOM-kindle-SS rib-PL-DEF IPt-roast

hræ-ro:wak-o?š. cause-NAR-INDma.)

those (scouts) pushing ahead came in first.
ró: ka-kǐ-ut-ka ka-pá-ta:-ka-kræ-s e-ra ut-æ
hǐ-kræ-ro:wak-o?š.
(there WH-MV-first-NOM WH-IPh-push-PL-DEF
DEM-TOP before-SV come-PL-NAR-INDma)

#### 2.2.7.2.2 Quotative Past:

A less frequent narrative formula which has approximately the same semantic function as the Narrative Past above, is a periphrastic complex of a position-13 suffix, -ka, attached to the last element of the quote, followed by the verb, ehe 'to say', typically without illocutionary suffixes. The choice may be stylistic in that the Narrative Past is found outside of literary narratives, such as personal accounts. However, the Quotative (QT) seems to be restricted to tales (also see Text line: 15):

'it is small, they say.' xwah-kræ-ka ehe (small-PL-QT say)

'he went, it is said.'
ræ:h-ka ehe
(go-QT say)

## 2.2.7.3 Habitual Aspect

Predications descriptive of a usual or habitual activity or situation take the suffix, -ka 'habitual' (HAB; position 8). This is a true aspectual and can occur with any tense. Note that the auxiliary verb, sih- 'be strong' also has a habitual or usitative function and can thus occur redundantly in combination with the suffix in question:

'I used to have a horse.'
wrįs wa-kæ?-ka-s=hį
(horse A1sg-have-HAB-PST=AUX)

'you are **always** laughing.' i=ra-kxa ra-sih-rit-ka-o?š (PV=A2-laugh A2-strong-2PL-HAB-INDma)

'whenever they soften them (in the future).'
wa-pa:pi i=sæk-raš-kræ-ka-kt-o?š
(UNSP-soft PV=make-ATT-PL-HAB-POT-INDma)

# 2.2.7.4 Anterior Aspect

To mark a predicate as perfective and anterior with respect to a subsequent one, the polysemous suffix, -ro:te 'Anterior' (ANT; position 11) is used; this is particularly evident when the suffix occurs in the Conditional mood (-ki IF/WHEN). A homophonous suffix has modal and evidential meanings which are discussed in the appropriate section (2.2.11):

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"if you go there and cry and the spirits take pity on us, ářt e: ro: ó: o=hræ-ri ra-ki-rátax-a: (DEM DEM DEM PV=cause-SS A2-MV-cry-SMT

they might (then) help us." ró-ki-kutæ ra-ræ:h-ro:te-ki wa-xópri-ra S1pl-MV-help A2-go-ANT-IF UNSP-sacred-TOP

ru-rátka xik-kræ-ki P1PL-heart bad-PL-IF

e=he-rjk=o?-kræ-kt-o?š. PV=say-MOD=be-PL-POT-INDma.)

"my son, I will help you when you have given me your tongue!" há-ki wǐ-rik-æ ra-i=résik-æ (PROS-IF P1-son-VOC P2-PV-tongue-SV

wá-ra-ku?-ro:te-ki S1-A2-give-ANT-IF)

#### 2.2.7.5 Past Tense

There are two forms of the Past Tense marker, depending on an apparently optional auxiliary element in position 12: -s=(hi). The latter may be an archaic predicate; however, its closest synchronic analog functions as a type of coordinating conjunction: -hi 'and'. The presence of this auxiliary obviates the use of the illocutionary markers. The aspectual seems to have a perfective meaning. Examples follow:

'they think they killed him' te hræ-iši-s-o?š (die cause-EVD-PST-INDma)

they kind of called him, "Shobe". "Shobe" ehe-raš-kræ-ka-s-o?š ("S" say-ATT-PL-HAB-PST-INDma)

'he never said, "Okipe". "Okipe" wa:-ehe-rix-raš-ka-s=hi: ("Okipe" NEG-say-NEG-ATT-HAB-PST=AUX)

'I didn't think you needed to be defended' wa:-o-i=ri-ki-ru:xre-o?š wjk-č (NEG-FUT-PV=S2-MV-defend-INDma NOT-INT

e=wa-ræ:h-s=hi: PV=A1sg-think-PST=AUX)

## 2.2.7.6 Iterative Aspectuals

The position-7 suffix, -ske 'iterative' (ITR) marks iterations; note that this is also one of the functions of the prefix, ki-'iterative' (position 3), which may occur redundantly with the suffix as well as the adverb, irak 'again; also', all bearing the same meaning. In addition there is also the verb-final (position 13) suffix, -rik 'iterative' (ITR) which describes repeated or habitual acts (also see Text lines: 23, 24):

> 'again he became a child' irák ki-súk j-hræ-ske-ro:wak-o?š. (again ITR-exit RFX-cause-ITR-NAR-INDma)

'he asked her again' wá-ki-waxe-ske-ro:wak-o?š. (UNSP-ITR-ask-ITR-NAR-INDma)

..it was these they would drink (from). ... é: o?-ak ki-hj-rjk (...DEM be-DS MV-drink-ITR)

#### 2.2.8 Aktionsarten

Some of the suffixes provide meanings somewhere between that of an adverbial and that of an aspectual; these are dealt with here as, Aktionsarten; the following are two examples:

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#### 2.2.8.1 Celerative Aktionsart

The suffix (position 7), -rj:te-'celerative' marks actions done quickly or states arising suddenly:

> 'they can eat it quickly' o-rut-ri:te ahka-kræ-o?š (FUT-eat-CEL ABLE-PL-INDma)

'having farted, his heels suddenly lifted up' pih-ak ši rote ru-xok-ri:te-o:wak-o?š (fart-DS foot heel IPh-lift-CEL-NAR-INDma)

#### 2.2.8.2 'Almost' Aktionsart

The suffix, -ra:te-'almost', designates states or actions nearly, but not actually, achieved (position 5):

> 'they were almost not the same' wa:-o=ki-ki-kaška-xi-raš-ra:te-kræ-o?š (NEG-PV=RCP-same-NEG-ATT-ALMOST-PL-INDma)

'it almost reached up to his nose' pa:xu-ra:s-t hi hræ-ra:te-ro:wak-o?š (nose-ATT-LOC arrive cause-ALMOST-NAR-INDma)

## 2.2.8.3 Aktionsart of Intensity

The suffix, -xtæ-'big', designates intensively experienced states or actions vigorously executed; i.e. intensively (INTS; position 3):

> though he hardly had any teeth; he was really chewing... hí o?-ška i=wik-ša ra-xtú-xtæ-ri (tooth be-DSJ PV=not-COLL IPm-chew-INTS-SS

when he gave it (to him), (Sun) was very pleased ú?š wá:k-æ... kú?-ki rátka-s thus abide:lie give-IF heart-DEF

ši xtæ-ro:wak-o?š. good-INTS-NAR-INDma)

## 2.2.9 Reduplication and Sound Symbolism in the Root

## 2.2.9.1 Aspectual Reduplication

The semantic force expressed by reduplication is typically aspectual, involving continuous, repetitive or intensive actions, states or configurations. Formally, reduplication may involve the copying of an entire monosyllabic root or of the final syllable of a disyllabic root. In the latter case, syllable-final consonants are not copied. I enclose these deleted consonants in parentheses (also see Text lines: 5, 27):

> he was going and going along, ... ræ:h-ha: wj wj e:-s ... (go-SIM CONT:R ...)

well, they kept going; they filled the paunches with water.... hí, rúrih-a: rúrih-a: wri o-sú hræ ké-ka-ri (well, exist:pl:R-SIM water PV-pour cause cause-HAB-SS...)

he took (his wife) farther into the middle of the dense brush. ku-t wra-rok ó-si(p)=sip-ta á-ræ:h-ri. (farther-LOC wood-interior PV-thick:R-LOC TR-go-SS)

...the chief ordered all the active young men....
...wj?=ti ruwá?k=ši=re-ra wá-ki-si-ki suk ruwá?k

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o-xka=xka-raš-æ...

(village man=good-ANF-TOP UNSP-MV-order-IF boy man NOM-active:R-ATT-SV....)

he...gave the boy great power and went, that Moon. 16 i=šák wá-o-ši kú?ra=kú?ra kú?ri hị ... (PV=PRO UNSP-NOM-good power: R give-SS...)

...he carried the dangling tongue ...
..ro: résik-s wá-ru-šæ=šæ-rį á-ræ:h-rį ...
(...give PV-say-SS here tongue-DEF UNSP-IPh-dangle:R-SS ...)

...his sister would skin them, cook them, and divide them up. ... ...kó-ta-wį:h-s e-rą ru-xáp-rįk rokirį-rį (...P3-AL-sister-DEF DEM-TOP IPh-skin-ITR, cook-SS

ĭ=ki-ša(h)=šah-æ rut-rįk.... PV=ITR-halve:R-SV eat-ITR...)

he came sort of staggering in.
ra-xrá(t)=rat-eška hí į-hræ-ro:wak-o?š.
(IPf-stagger:R-SMT thus RFX-cause-NAR-INDma)

# 2.2.9.2 Sound Symbolic Fricative Ablaut

As in other Native American languages, the Siouan languages show a type of consonantal ablaut to express a semantic spectrum or gradience of intensity in a series of related stative predicates. This type of relationship is referred to as sound-symbolism, and usually involves the pairwise alternation between root-edge fricatives; in Mandan, these fricatives are:  $s > \check{s} > x$ . The arrows indicate the usually decreasing intensity or of diminutivization, though there are some reversals in semantic direction:

s ~ x

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ru-sap 'to pull; tug on'
sero: 'to jingle'
sa(p)=sap 'be rough'
pus 'be striped'

ru-xap 'to tear off'
xero: 'to rattle'
xa(p)=xap 'rougher'
pux 'be speckled'

š ~ x

pušak 'coarse-grained' puxak 'fine-grained' sot 'white' xot 'grey' ra-reš 'hot' ra-rex 'lukewarm'

s ~ š

sąsi 'slick' šąši 'smooth'

(cf. wį? šąši 'sandstone')

# 2.2.10 Modality

Most of the modals occupy position 13; this is also the position for the illocutionary suffixes. Predicates of non-final clauses bear other types of affixation such as switch-reference, etc (also see Text line: 26).

2.2.10.1 The suffix, -kt- 'potential; irrealis':

'I might be able to go' o-wa-ræ:h ahka-kt-o?š (FUT-A1sg-go able-POT-INDma)

'he must have been formidable'
wa:-o=krah-raš-kt-o?š
(UNSP-PV=formidable-ATT-POT-INDma)

<sup>16.</sup> The word for power seems to derive from the root, ku? \*give.'

2.2.10.2 The suffix, -aška 'may; might', 'perhaps',

'possibly', or 'maybe':

'perhaps the enemy chased them' wirata:re o?-ra xkah hræ-raš-kræ-aška (enemy be-TOP flee cause-ATT-PL-MOD)

'maybe they fixed it' i=sæk-raš-kræ-aška (PV=make-ATT-PL-MOD)

2.2.10.3 The suffix, -o?xre 'surprise/negative expectation' reflects incredulity or surprise on the part of the speaker. When used in a question, its use reflects the expectation of a negative answer:

'they might **possibly** devour it' pi-kræ-**o?xre**-eška-aška (devour-PL-**MOD**-SMT-MOD)

'where would there possibly be any?' ta-we-t tu-o?xre-o?\( \)a (INDF-LOC exist-MOD-INTma)

'and so it was, the shelter couldn't **possibly** be too large' u?š-ka-ak é: xtæ-xtæ-o?xre (thus-ADV-DS DEM big:R-MOD

wa-tĭ=šoh-eška-ahka-o?š UNSP-house=taper-SMT-EXT-INDma)

2.2.10.4 The suffix or complex clitic consists of a modal suffix followed by the copular verb, 'be', with the potential modal, -rik=0?-kt' 'may; might' (also see Text line: 26):

'I might be able to go'
o-wa-ræ:h ahka-rįk=o?-kt-o?š
(FUT-A1sg-go able-MOD=be-POT-INDma)

'they might (then) help us.'
ró:-ki-kutæ e=he-rik=o?-kræ-kt-o?š.
(S1pl-MV-help PV=say-MOD=be-PL-POT-INDma.)

"they might eat us all up!" he said.

"á:we ro:-ki-pi e=he-rik=o?-kt-o?8"

("all S1pl-MV-devour

PV=say-MOD=be-POT-INDma")

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The modal clitic, -rįk-u-ak 'must' (MOD) seems to be a variant of the above; note that, unlike the former, it occurs without further illocutionary affixation in final position (also see Text line: 20):

all those many people **must** have been afraid. há-ki ó: o-hræ-rį wá-rųwą?k-aki (PROV-IF there PV-cause-SS ABS-man-COLL

hú-ru-s wa-karahka-kræ-**rik-u-ak**. many-ANF-DEF ABS-fear-PL-**MOD-DS**)

#### 2.2.11 Evidentials

Evidentials make explicit the source of the speaker's information. These include the cliticized auxiliary, -eška-'similitive' (SMT), which, in its evidential function, reflects the tentative or subjective nature of the speaker's assertion. Similarly the suffix, -raš'attitudinal' (ATT; position 3), reflects the attenuated force of the speaker's statements as merely speculative opinions. In position 4, we find the suffix, -iši 'visual evidence' (EVD), for assertions usually based on visual evidence. The suffix, -a?ško:-'emphatic' (EMPH: position 10) gives special emphasis to a speaker's assertions. In position 11, along with a variety of aspectuals, we find the suffix, -ro:te-'hearsay evidence' (EVD) or 'surmise'; the latter reflects a speculative meaning (also see Text line: 37):

'they may sort of devour it' pi-kræ-o?xre-eška-aška (devour-PL-MOD-SMT-MOD) 'I never really knew that'
i=wa-ha:-xi=k-eška-raš-ka-s
(PV=A1sg-know-NEG-SC-SMT-ATT-HAB-PST)

'there must have been some' rµ:rį-iši-kræ-o?š (exist:pl-EVD-PL-INDma)

'it's apparently become just a story.' ki-hok-raš-iši-a?t (MV-story-ATT-EVD-DEM)

'indeed, they always called it "West Segment".
"WS" ehe-raš-kræ-ka-aʔško:-s
("WS" say-ATT-PL-HAB-EMPH-PST)

Sun said, "Yes, so apparently that's the way it is."

"háu." é=he-ro:wak-s. "u?š-ka-ro:te-o?š."

("Yes," PV=say-NAR-PST. "thus-ADV-EVD-INDma.")

#### 2.2.12 Indicatives and Addressee Gender

Given the variety of examples of the Indicative (IND) throughout this paper, no further examples need be included in this section. It is important to indicate, however, that, like the other two illocutionary suffixes below, the choice of Indicative reflects the gender of the hearer. Thus an indicative addressed to a male shows the now familiar, -0?s (INDma); one addressed to a female must bear, -0?re (INDfa).

## 2.2.13 Interrogatives and Addressee Gender

As with the Indicative and Imperative, there are two interrogative suffixes; one for male (INTma) and one for female addressee (INTfa):

'did they really always called it "West Segment?'
"WS" ehe-raš-kræ-ka-a?ško:-s-o?ša
("WS" say-ATT-PL-HAB-EMPH-PST-INTma)

'do I understand that I've met you?'
wa-kakše-ro:te-o?ra
(A1sg-meet-EVD-INTfa)

#### 2.2.14 Imperatives and Addressee Gender

As with the Indicative and Interrogative, there are two imperative suffixes; one for male addressee (IMPma) and one for female (IMPfa). The negative imperatives require a preverbal negative particle. There is also a mild or polite imperative formed by adding the suffix, -hak 'request' (RQ) (also see Text line: 11):

'(you pl) go! '(you pl) go!
ræ:h-rįt-ta ræ:h-rįt-rą
(go-2PL-IMPma) (go-2PL-IMPfa)

'don't (you pl) go! 'don't (you pl) go! ka:re ræ:h-rįt-**ta** ka:re ræ:h-rįt-**ra** 

(NEG go-2PL-IMPma) (NEG go-2PL-IMPfa)

'please don't (you pl) go! 'please don't (you pl) go! ka:re ræ:h-rįt-ta-hak ka:re ræ:h-rįt-rą-hak (NEG go-2PL-IMPma-RQ) (NEG go-2PL-IMPfa-RQ)

## 2.2.15 Negation

Negation is typically circumfixal in the stem: wa:- ... rįx/-xi. The prefixal element occupies position 10, the farthest from the root. The suffixal elements are in the first position, immediately contiguous to the root; a short root vowel is lengthened in the environment of -xi. Both trigger [a]-ablaut in /æ/-roots. Recall that the choice of suffixal component is phonologically determined; it is nasal-initial when attached to consonant-final root. It is the other when not. An alternative to the aforementioned pattern is the existential negative which obviates the suffixal element, using, wik-o?š' there is not' (NEG) as a type of negative auxiliary verb. This construction lends an emphatic meaning to the negative; emphasis may also be added by the prefixation to the verb or the negative particle, the prefix, wa- 'unspecified' (UNSP). The individual prefixal and suffixal elements are only weakly obligatory; there are sporadic instances of their absence (also see Text lines: 4, 22, 28, 39):

'he didn't come by way of the road' ra:ku-ha: wa:-i=ø-si:-xi-o?š (road-LOC NEG-PV=A3-follow-NEG-INDma)

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'he didn't come by way of the road at all' ra:ku-ha: wa:-i=ø-si: wik-o?š (road-LOC NEG-PV=A3-follow NEG-INDma)

'you didn't work.' wa:-wa:-i=ra-sæk-rjx-o?š (NEG-UNSP-PV=A2-do-NEG-INDma)

when there was no one at all in the village, the children cried and cried. wj=ti reš o: wa-wjk-ki ó=hræ-rj suk-kŕæ-s rátax-rjk. (village thus there UNSP-NEG-IF PV=cause-SS child-PL-DEF cry-ITR)

# 3. Syntax:

#### 3.1 Noun Phrases

The noun phrase is head-initial. Other constituents follow the noun (or noun compound) as represented by the following schema: NOUN (NOUN)\*-PL-ART QUANTIFIER DEMONSTRATIVE-TOP/POSTPOSITION17

## 3.1.1 The Definite Article

The noun (or a relative clause) may be followed by a definite article formed by the suffix, -s 'definite article' (DEF): suk ruwa?k-s 'the young man', wa?k ti-s 'the earthlodge', with-s 'the woman', with xopri-s 'the holy woman'. An indefinite suffix /-re/ is described by Kennard (1936), however, this may be the epenthetic excrescence predicted by Carter's rule of r-insertion after a long vowel, particularly one followed by a glottal stop (1991a). Indefiniteness remains unmarked in the language (also see Text lines: 6, 9, 14, 15, 16, 17, 18, 20, 22, 23, 24, 27, 32, 37, 38, 39).

## 3.1.2 Postpositions and Surface Case

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There are two case suffixes appended directly to the noun; these are: -ta 'locative', -ha: 'with', 'locative' and 'while' (when attached to a predicate): wrį-ta 'in/at the water', wi?-ta 'on/at the rock', wra-ta 'in/at the woods'. There are also some locative potpositional clitics such as ro: 'here' and o: 'there'; when the latter occur as clitics they seem to have the more generic meaning, 'locative'. All other case-like relations are expressed by postpositions: -ku?š-ta 'in(side), -rok 'interior of', aki-ta 'on top/ atop, wa:pe-ha: 'under, (pa)-μ?-ta 'next to, alongside', μpa 'with,' o:ta 'accompanying', o=hræ-rį 'from', o=hræ 'through', -a;ska: 'near', -teha: 'far from', and so forth. Frequently the locative postpositions concatenate with the locative suffix or the demonstratives (-ta'locative'; -ha: 'locative', o: 'there'; ro: 'here'). Directionality, especially that involving verbs of motion, require a directional prefix /i-/ on the noun, along with a locative suffix: i-wrj-ta 'into/toward the water', i-wi-ta 'toward the rock', i-wra-ta 'into/toward the woods'. The presence of middle voice affixation as well as subject-object agreement on some postpositions indicates that they are essentially predicates. Some representative examples follow (also see Text lines: 1, 3, 5, 9, 14, 18, 22, 23, 24, 25, 27, 30, 33, 36, 37, 38, 39):

the school in near (from) here. wá:-kapus óti-s ro: o-hræ-rj aská-o?š (paper=house-DEF here from be:near-INDma)

who is your father with? (Who is it he is with?) ra-a?-s ko-téwe (ó:?-ak) u:pa rá:ke-o?ša (2A-father 3-INDF (be-DS) with abide:sit-INTma)

the knife is next to the cup. wáhi wri i-hi:-s ra-u?-ta: (knife water IP-drink-DEF next-LOC)

the dog is outside. wris wérut watih-ta: há:k-æ-o?š (dog outside-LOC abide:stand-INDma)

the school is in front of that house. (lit, the house yonder) wá:-ka-pus ó-ti-s tǐ é:-ta pexti ro: ó?-o?š/te-o?š (paper=house-DEF house yonder-LOC front LOC be-INDma/stand-INDma)

<sup>17.</sup> The asterisk marks a recursive element.

the dogs encircled the house.

wrįs wa-e rut-kræ-s ti i-ki-są:p-ha: ræ:h-kræ-o?š
(dogs house DIR-MP-around-LOC go-PL-INDma)

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'the man went **behind** the house.' (lit. to the rear) ruwa?k ti **i-raši-ta** ræ:h-o?š (man house DIR-behind-LOC go-INDma)

'the man is across the road.'
ruwa?k raku šah-ta: wak-o?š
(man house across-LOC sit-INDma)

## 3.1.5 Nominal Compounds

As can be seen from the following examples, taken entirely from the No Tongue text, there are several patterns for nominal compounds. In endocentric compounds, the head noun can precede the modifying noun (e.g. chief, travois, bison) or follow it (e.g. fruit, sun, moon, wooden bowl). Derived nouns can either be head or modifying (cf. village leader, river versus holy woman). Note also the presence of exocentric compounds (e.g. dog, drinking vessel, No Tongue, lit. 'not having a tongue; without a tongue'; also see Text lines: 3, 8, 15, 17, 18, 22, 24, 25, 27, 30, 35):

wrį i=hį:-s 'drinking vessel'	wį ti 'village'	
(water PV=drink-DEF)	(?=house)	
ruwa?k ši 'chief'	wrą ap 'leaf; foliage'	
(man=good)	(wood=foliage)	
wį? ti ko-wreh-ka 'village leader'	wa:tah j-xti-t 'headwaters'	
(village=WH-door-HAB)	(river=PV=tip-LOC)	
wą:ptæ i=wokah 'shore'	wris wa-e: rut 'dog' 18	
(bank PV=edge)	(horse=UNSP-defecate eat)	
wrą haška 'travois'	wį? xtuk-æ 'mortar'	
(wood=long)	(stone=grind-SV)	

<sup>18.</sup> Literally: 'horse manure eats'; recall that the dog was the first beast of burden on the Great Plains.

wra ro 'fruit'	ti xoka 'shelter' 19
(wood=flesh)	(house=?)
hạp wiraki 'sun'	įstuh wįrąki 'moon' <sup>20</sup>
(day=orb)	(night=orb)
resike wik 'No Tongue'	o=ti wreh 'doorway'
(tongue=NEG)	(PV=house door)
suk ruwa?k 'young man'	suk wį:h 'young woman'
(young=man)	(young=woman)
ptį:r tkuš 'bison'	wa?ak o=ti 'earth lodge'
(cattle=true)	(earth=house)
wa:-xopri wi:h 'holy woman'	wra pax-æ 'wooden bowl'
(UNSP-holy=woman)	(wood=bowl)

#### 3.1.5 Pronominals

#### 3.1.5.1 Personal

The personal pronouns are wi 'first person singular', ri 'second person' (singular or plural). The third person prefix is i; it only occurs as a proclitic on one of two particles. The first- and second-person pronouns rarely occur as bare stems either. Usually they are cliticized in a clefted form to the copular verb, o:2 'be', which in turn bears a topicalizing postclitic, -ra: wi-o?-ra 'I; myself' (lit. 'it being me'), ri-o?-ra 'you; yourself' (lit. 'it being you'), i-o?-ra 'it; he; she' (lit. 'it being third person'). The alternative forms are built on the pronominal stem, -šak: wi-šak 'ti', ru-šak 'we', ri-šak 'you', i-šak 'third person' (also see Text line: 19).

<sup>19.</sup> Edwin Benson does not acknowledge this as a word.

<sup>20.</sup> The word, wiraki 'orb' is also used for 'bullboat' (or 'coracle'), and by extension to all modern vehicles.

#### 3.1.5.2 Deixis

At least three deictic positions are distinguished; namely, re 'here; speaker's position', o: 'there; hearer's position and, a third position, e: 'far from speaker's and hearer's positions'. A more remote variant of the latter is, wa-e:-ta 'far off/away; in the far distance' (recall the negative intensifier, wa-). The less remote form frequently combines with the demonstrative, at 'that' (e.g. ti at e: 'that there house' or ti a?t e: ro: 'that there house there').

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The form ro: 'here' or 'there' may be a contraction of re and o.; as stated above, both o: and ro: may have a more generic interpretation ('there') indicating the location of an event as informed by discourse context. Note that, res' 'thus' appears to be derived from, re. The proximal and distal demonstratives are often followed by the positional auxiliaries, which take on a deictic value in this context, at e: wak 'that (lying) there'; the latter has an irregular plural, wa:kahe 'these'; a?t e: wa:kahe 'those there'; a?t e: hak 'that (standing) there', re rak 'this (sitting), re wak 'this (lying)'. There is evidence that finer distinctions for distance of the third position exist, but the glosses yield no firm analysis.

The suffix, -ru 'aforementioned; the former' (ANF), allows reference back to a previously introduced noun in discourse, e.g. ruwa?k-ru-s 'the aforementioned man'. Another discourse deictic is,  $\mu i$  'thus' from which  $\mu i$ ' then' and  $\mu i$ ' then; thus' and u?š-ka hræ 'doing thus' can be derived (also see Text lines: 14, 24, 27, 32, 35, 37, 38, 39):

> he took them there to where the wife had been scraping the hide. ko-ú?h-s o-watk-a: wá:k-æ:-s e:-t (P3-wife-DEF NOM-scrape-SIM AUX:DUR-SV-DEF DEM-LOC

á-ræ:h-o:wak-o?š. TR-go-NAR-INDma)

(yet) everyone there had believed what their father had said before and the poor children were suffering (for it.) ré-t ruwá?k kó-at-s e-ra wá-ehe-s (DEM-LOC man, P3-father-DEF DEM-TOP UNSP-say-DEF

út-a: á:we, wika hræ-kræ-ri suk-kræ-s, ahkræ, wá-hiku before-SIM all real cause-PL-SS child-PL-DEF, pitiful, UNSP-difficult

ĭ=sæk-kræ-ro:wak-o?š. PV=do-PL-NAR-INDma) those many people must have surely been afraid. há-ki ó: o=hræ-ri wá-ruwá?k-aki hú-ru-s (PROV-IF there PV=cause-SS UNSP-man-COLL many-ANF-DEF

wa-karahka-kræ-rik-u-ak, UNSP-fear-PL-MOD-DS)

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having done that, he took half the rib cage.<sup>21</sup> ú?š-ka hræ-ri, rút-æ ráte-ška ru-šæ-ri. (DEM-ADV do-SS, rib-SV side-COLL IPh-take-SS)

then while the children were there crying, the village chief said, ú?š, wá:k-æ-ha: wí?=ti ruwá?k=ši-s e-ra, (Thus, abide:lie-SIM village man=good-DEF DEM-TOP,

"go and grab those children and tie their wrists; "ræ:h-rį súk-kræ-re i=ru-šæ-rį úkite ka-skæ-rį irák ró: "go-SS child-PL-ANF PV=IPh-take-SS wrist IPf-tie-SS again there

tie them around the waist too!" rate ro:-ha: ka-skæ-ri!" waist there-LOC IPf-tie-SS!")

when there was thus no one in the village, the children cried and cried. wi?=ti reš o: wa-wik-ki ó=hræ-ri suk-kræ-s rátax-rik. (village thus there UNSP-not-IF PV=cause-SS child-PL-DEF cry-ITR)

(the dog) was howling this way there in the village. woh-a: rá:k-æ wi?=ti reš o:. (howl-SIM abide:sit village thus there)

since the children were crying here, há-ki ré-t suk-kræ-s rátax-a: wá:k-æ-so?rik (PROV-IF here-LOC child-PL-DEF cry-SIM abide:lie-SINCE

<sup>21.</sup> Note the SS suffix instead of, -ak, in this temporal sequence. This may be a reduced version of o?-hræ-rį 'from (there)', in which SS is idiomatic. No English influence of the SR mechanism is possible, however.

that dog must have heard them; æ-ró:te o: ratax-a:; hear-EVD NOM-cry-SIM;

he was going to **there** where the children were. hú:-a: a:wi wris-wa-e-rut-s hǐ-ro:wak-o?š, come-SIM CONT horse-UNSP-defecate-eat-DEF arrive-NAR-INDma,

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suk-kræ-s e:-ta. child-PL-DEF DEM-LOC)

# 3.1.5.3 Indefinites and Interrogatives

The indefinites and interrogatives are structurally and semantically related, being built on the sequence, ta-(we)- (phonetically, [tewe]) with a general indefinite meaning, which receives an interrogative reading in questions. The any forms differ from the preceding only in employing a slightly different disjunctive form of the copula, o? 'be'. The former are as follows: wa-te-we 'something', (ko)-ta-we (o?-ki) 'somebody', (ko)-ta-we o?-aška 'anybody', ta-we-t 'somewhere', ta-ahka-ras' 'some time' (cf. ahka 'extent'), ta-ska 'somehow; some reason', ta-we-ta 'somewhere'. The negative indefinites are identical to the preceding, except that they take the negative existential, wik-o?s' 'not' as their predicate: (ko)-ta-we o?-aška wik-o?s' 'nobody' (lit. 'anybody is not'; also see Text line: 3).

#### 3.1.5.4 Possessives

Mandan distinguishes between alienable (AL) and inalienable possession. The former usually requires the alienable prefix, ta- on the stem to which the prefixes for possessor agreement are then added. The latter place the possessor agreement prefixes directly on the stem. The prefix wi- marks first-person singular possessor agreement, to:-'first person plural', ti-'second person' and t- is for 'third person'. These coincide with stative verb agreement, making alienable possession a type of stative predication ("'X" relates as kin'). Several kinship terms are marked for third person possessor agreement with to-(also found as a relativizer). The examples below represent kinship possession exemplifying both stative and active agreement patterns on alienable and inalienable stems. Thus 'mother' shows stative prefixation on an inalienable stem; whereas, 'father' shows active. Inalienable possession is found only with active prefixation, as with, 'younger

sister'. Active prefixation can also be found on old nominalized forms of the verb, 'dwell': o=wa-ti 'my house', o=ra-ti 'your house', etc. Mandan has a Crow system of matrilineal kinship.. Note that vocative forms are occasionally suppletive (also see Text lines: 1, 2, 3, 6, 9, 13, 14, 18, 19, 32).

#### 3.1.5.5 Kinship Terminology

In the following list of Mandan kinship terms, vocatives are given first when available. Note that kinship terms may take the definite article:

1) mother ra?é(voc); wi-hu:s; ru-hu:-s; ko-hu:-s; 2) father taté(voc); wa-a?t-s; ko-a?t-s; ko-a?t-e; 3) older brother (ms) wi-úká: (voc); wi-úka; ko-µ?k; 4) younger brother (ms) wj-sú:ka(:) (voc); ko-su:ka; 5) o. sister (ws) wj-rúké:; wj-rúks; ko-rúke-s; 6) younger sister (ws) ko-tá:ká: (voc); ptá:ka (wa-ta-tka); ko-tá:ka; 7) sister (ms) wa-ta-wij.hé: (voc); wa-ta-wij.he; ko-ta-wij.he; rutawij.hekeres; ritawij.hirits; 8) parent's mother (ms/ws) rá: xǐ:hé: (voc); rá: xǐ:-s; kohú:; xi-s; ru-hú: xi-s; 9) parent's father (ms/ws) tatá xj:hé:; tatá xjs; wa-a?t xj-s; ko-a?t xj-s; á:t xj-kræ-s; 10) son (ms/ws) wi-rik-é:; ko-ri:ka-s-é: 'child!' (voc. of endearment); wi-riks; ko-ri:ka; 11) daughter (ms/ws) ko-rú:hak-s/e; wi-rú:haks; 12) child's child (ms/ws) wa-ta-wi:ha:ká? (voc); wa-ta-wi:ha:ka?; wa-ta-wi:ha:ka?kræ-s; 13) sister's child (ms) wa-ta-haka (?); 14) wife wi-ú?uhe; wi-ú?s; ko-ú?s; ko-ú?he; 15) husband wi-wro-s; ko-wro-s; 16) husband's brother wi-sike (?); 17) wife's brother wó:wahkis; kawó:wahkis; 18) father/son-in-law ró:haka; ró:ha:ka; (ptuts (?)); 19) husband's siblings ptus; ko-tus; 20) brother's wife wa-ta-ró:ha:kawis; ko-ta-ró:ha:kawis; (ro:ha:kawis (?)); 21) mother's brother (ms/ws) (p)ta-wa-rató:re; 22) father's sister (ms/ws) wihú:re (voc) 'my mother'; ptú:wiriks; 23) mother-in-law (ms) ptuhirike; kotuhiriks; 24) widow(er) ki?i:?ahka?š, widower ki?órukohs (also see Text lines: 2, 3, 6, 18, 32)

#### 3.1.5.6. Numerals

The cardinal numbers are: wxa(ra) 'one' (cf. wxa 'once'), rup 'two', ra:wri 'three', to:p 'four', kixu: 'five', kiwa: 'six', ku:pa 'seven', te:toki 'eight', waxpe 'nine', pirak 'ten', ak-wxra 'eleven', ak-rup 'twelve', etc.; rup-ha: pirak 'twenty', rup-ha: pirak-ri wxra 'twenty-one', hisuk wxra 'one hundred', hisuk ikakohi 'one thousand'.

The ordinal numbers are formed by the prefix, i-, e.g. i-rup 'second', i-ra:wri 'third', i-to:p 'fourth', etc.; the exception is ute 'first'.

There are other numerical expressions. The suffix, -ha:, attaches to the cardinal numbers to mark iterations, with the exception of wax-ha: 'once'; other examples are: nup-ha: 'twice', to:p-ha: four times'.

Serial expressions reduplicate the final syllable; with the exception of, 'one by one', which uses the form one might have expected for 'once', wxra-ha:. The other forms are: ru(p)rup 'by twos; two by two', ra:wriwri 'by threes', to(p)to:p 'by fours', kixu:xu: 'by fives', kiwa:wa: 'by sixes', etc.

Groups or sets involving a specified number, are formed by the addition of the suffix, -ša=ška: wį:h ko-hašk-kræ-s i-rup-ša=ška 'both the tall women' (cf. rup 'two'; also see Text lines: 1, 33).

#### 3.1.5.7. Quantifiers

Quantifiers are found at the end of the noun phrase:

'five, big, round, heavy, old drums' wra wa-i=rex-e, ko-ust, ko-tke, ko-kawix, ko-xte-s kixu: (wood kettle, WH-old, WH-heavy, WH-round, WH-big-DEF five)

'many, round, heavy, old drums' wra wa-i=rex-e, ko-ust, ko-tke, ko-kawix hu (wood kettle, WH-old, WH-heavy, WH-round many)

'a few, round, heavy, old drums'
wra wa-i=rex-e, ko-ust, ko-tke, ko-kawix sa:ka
(wood kettle, WH-old, WH-heavy, WH-round few)

# 3.2 The Simple Sentence

The simple sentence follows a verb-final (SOV) pattern with complements preceding the verb. While Mandan is a typical Pro-drop language, overt subjects are sentence-initial. The main verb may be followed by one or more auxiliary verbs. These are discussed in what follows.

#### 3.2.1 Have and Existential Constructions

Both possessive and existential predications share the same predicate, tu 'exist'; in fact, in the third person, there is an ambiguity between the

possessive and existential readings. In the negative, possessive and existential constructions both take the negative existential predicate, wik-'negative; not exist' (NEG). There is also a verb, kæ:- 'have' which in the habitual aspect, kæ:- ka 'have habitually' means, 'keep'. 22 This can be nominalized to, ka-kæ:- ka-ka 'keeper', with reference to the guardian or keeper of a sacred object. Constructions with BE are based on the copular verb, o:? 'be', which also seems to have evolved into the illocutionary suffixes for the indicative, -o?\$' indicative male addressed' (INDma) and -o:?re' indicative, female addressed' (INDfa) and the interrogative, -o?\$a' interrogative, male addressed' (INTma) and -o:?ra' interrogative, female addressed' (INTfa). The copular verb comes to the fore in cleft constructions and even the pronouns (also see Text lines: 1, 9, 13, 39):

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there is hair/he has hair all over his body. į-wą:re į-ku-hą: hį tu-o?š (3P-body PV-whole-LOC hair exist-INDma)

I have money.

wa-ta-wa:taše tu-o?š

(A1sg-AL-money exist-INDma)

I have money. wá:tà-šè wà-ká:-o?š (money A1sg-have-INDma)

I have/keep a cat.
pus wà-ké:-ka-o?š
(cat A1sg-have-HAB-INDma)

I have no money; I don't have any money. wa-ta-wa:taše wik-o?š (A1sg-AL-money NEG-INDma)

I have no cat; I don't have/keep a cat. pus wa:-wà-ké:-rįx--ka-o?š (cat NEG-A1sg-have-NEG-HAB-INDma)

<sup>22.</sup> One of the forms of, 'to give; give away' is the causative construction, kæ hræ 'cause to have.'

it is/was he .... i-o?-ra ... (PV=be-TOP ...)

..it is/was these ... ... é: o?-ak ... (...DEM be-DS ...)

he **is/was** the one ... **i=o?-**ra ... ("PV=be-TOP ...")

the school is in front of that house. (lit. the house yonder)
wá:-ka-pus ó-ti-s tǐ é:-ta pexti ro: ó?-o?š
(paper=house-DEF house yonder-LOC front LOC be-INDma)

#### 3.2.2 Auxiliary Verb Constructions

Many predications involve periphrastic constructions. Secondary predicates are referred to here as, "auxiliary verbs"; yet not all share the same structural characteristics. For example, some auxiliaries agree for subject, others do not. Some are clearly members of separate clauses from their main verb (with same-subject marking) others appear to belong to the same clause as the main verb. Furthermore, there may be a spectrum of boundedness for the auxiliaries that share a clause with the main predicate, from clitics to suffix on the main verb stem. The principal structural criterion for determining whether an morpheme is an auxiliary clitic rather than a suffix, is that the latter can be found in a specific position in the stem, while the former behave more like an independent verb, taking the first position with respect to other, truly suffixal positions.

The most salient of the auxiliaries are, hræ 'causative'; ku² 'benefactive; give' (BEN); to the positional and configurational auxiliaries, which mostly have an aspectual function: rak 'sit'; rak-æ 'abide:sit'; wak 'lie; wak-æ 'abide:lie'; hak 'stand'; hak-æ 'abide:stand'. The first members of the pairs in the latter series simply reflect a stative meaning, while the second have a durative or continuous meaning. The irregular auxiliary, rurih 'exist:pl', also has a durative meaning. Agreement for subject number in

the positional auxiliaries is expressed only through the LIE root, *wakah* 'lie/sit/stand pl' (also see Text lines: 1, 2, 3, 4, 10, 11, 14, 16, 17, 18, 19, 24, 25, 33, 36, 37, 38, 39)<sup>23</sup>

## 3.2.3 Causative Auxiliary Construction

The causative has its own subject agreement prefixation; however, it does not allow same-subject marking. Both, hræ 'cause' and kæ 'cause' serve this function. Unlike other Siouan languages, no semantic distinction occurs between these two forms. <sup>24</sup> Note that the idiom for 'kill' is 'cause to die'; similarly, the transitive of 'to roast' is 'cause to roast':

"come and eat! Fill yourselves up!"
hú:-rį wa-rút-ta! ra-éx o=hi
"A2imp-come-SS UNSP-A2imp-eat-IMPma P2-belly NOM=full

hræ-rįt-ta!"
cause-2PL-IMPma!"

as he took the children, he said, "I've killed a deer wa-á-hu:-rį, "wáwarahku-ra té wa-hræ-ak (UNSP-TR-come-SS, "deer-TOP die A1sg-cause-DS

and roasted the ribs for you."

rút rá-sit wa-hræ wa-rį-kµ?-rįt-o?š.

rib IPt-roast Alsg-cause Alsg-S2-give-2PL-INDma.")

he killed her without cause. wa-ĭ=hµt-æ wįk-a: te: kæ-rį. (NEG-PV=reason-SV NEG-SIM die cause-SS)

<sup>23.</sup> Crow uses the same plural kaáu for both the daachi\*sit' and baachi\*lie' auxiliaries (Randolph Graczyk, personal communication).

<sup>&</sup>lt;sup>24</sup>. While Mandan makes no apparent distinction, Crow shows two causatives with distinct meanings: ee 'direct causative' and *hche* 'indirect causative' (Randolph Graczyk, personal communication).

# 3.2.4 Benefactive and Applicative Auxiliary Verb Constructions

The verb,  $k\mu$ ? 'give' functions as a benefactive auxiliary verb which, like its full verb version, can take subject and object pronominal agreement. Thus in the first example below, the benefactive is literally, 'I give you (the action)':

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as he took the children, he said, "I've killed a deer wa-á-hu:-rį, "wáwarahku-ra té wa-hræ-ak (UNSP-TR-come-SS, "deer-TOP die A1sg-cause-DS

and roasted the ribs for you."

rút rá-sit wa-hræ wa-rį-ku?-rįt-o?š.

rib IPt-roast A1sg-cause A1sg-S2-give-2PL-INDma.")

"our father shouldn't have done what he did to us...
"ta-at-æ wá-i=sæk-rįx ró-kų? í=sæk-rį ræ:h-o?š.
("AL-father-SV NEG-PV=do-NEG S1pl-give ...")

## 3.2.5 Aspectual Auxiliary Verb Constructions

3.2.5.1 Positional and Configurational Auxiliaries

The auxiliaries, rak 'sit', wak 'lie', hak 'stand' tend to have a perfective meaning. In the following examples this is further rendered by the English temporal adverb:

when he'd gone, the boy stayed there; in a little while, Moon came. ræ:h-ki i=šák wak-rį įstuh wiraki-s štek éš-a:-ki (go-IF PV=PRO lie-SS night orb-DEF while farther-SIM-IF

hí-ro:wak-o?š. come-NAR-INDma)

by then, the boy had grown up, μ̃?-ahka súk-s ki-ráto:-a: wa-tá-wa:ra (DEM-EXT boy-DEF MV-grown-SIM UNSP-AL-year he might have been nine or ten wáxpe-raš-ri pirák-ri ta-wé **hak**-kræ ó?-kt-o?š. nine-ATT-SS ten-SS what **stand**-ANF be-POT-INDma.

(as) he was doing that. ψ?š-ka hræ-ro:mak-o?š. thus-ADV cause-NAR-INDma)

The auxiliaries, rak-æ 'abide:sit', wak-æ 'abide:lie', hak-æ 'abide:stand' have an imperfective or durative meaning. In some instances, the configurational dimension of the meaning is more literal than in others; as in the third example below:

they all scattered upstream (lit. they were scattering)..

á:we o=šrǐ-ha: wá:tah ř=xti-t rá:k-æ e:-t ...

(all PV=scatter-SIM river PV=tip-LOC abide:sit ...)

...a man had two (young) children... ...ruwą̃?k e-ra ta-súk-æ i=rúp-ak kæ̃?kæ-ri .. (...man DEM-TOPAL-boy-SV PV=two-DS have-SS

wá:k-æ-ak. abide:lie-DS...)

"yes," he said and went, poor thing, and he stood crying.
"Háu." é=he-rį ræ:h-rį; ák, rátax-a:
("yes." PV=say-SS go-SS; pitiful, cry-SIM

há:k-æ-ro:wak-s=hi:. abide:stand-NAR-PST=AUX)

# 3.2.5.2 Other Auxiliary Verbs

The auxiliary, rurih 'exist plural' functions as an imperfective also; especially when a predicate of motion is involved:

u?š rurih-a:... (thus exist:pl-SIM...) They went on that way...

"they know (all about what has happened).

"a:we wá-i=hek-rį rúrih-a?t, i=šák....

(all UNSP-PV=know-SS exist:pl-PRT, they...)

Another periphrastic construction with progressive or continuous meaning is, -a: awį 'continuous (motion)'. The construction usually involves the suffix, -ha: 'simultaneous' on the preceding verb. Note that the auxiliary verb itself may take a subject agreement prefix:<sup>25</sup>

...he was going to where the children were.
...hú:-a: awį wrįs-wa-e-rut-s hi-ro:wak-o?š, suk-kræ-s e:-ta.
(...come-SIM CONT horse-UNSP-defecate-eat-DEF arrive-NAR-INDma, child-PL-DEF DEM-LOC)

he was returning home.... ki-ræ:h-a: awį, ... (VRT-go-SIM CONT...)

As was mentioned above, there is an auxiliary, sih-o?š '(be/do) strong', which has the value of a usitative or habitual aspectual. Note subject agreement:

'you are always laughing.'
i=ra-kxa ra-sih-rit-ka-o?š
(PV=A2-laugh A2-strong-2PL-HAB-INDma)

The Inceptive aspectual consists of the auxiliary, *e=ræ:h* 'want; think', preceded by the suffix, -ha: 'simultaneous' (SIM) attached on the immediately preceding predicate. Its meaning is, 'about to VERB':

"your father's really miserable; he's just about to starve.
ra-art-s i=xik wika-ore. wa-rut-æ té:-a: e=ræ:h-ri ...
(P2-father-DEF PV=bad real-INDfa. UNSP-hungry-SV-SIM die-SIM PV=want-SS, rock-SV PV=say-PL-HAB-INDfa.")

The aspectual above, -ha: 'simultaneous' (SIM) occurs to indicate the simultaneity between the marked clause and the one immediately contiguous to it (/h/ is lost after consonants):

his wife was scraping a hide. ko-µí?h-e ropxĭ wá-itk-a: wak-o:wak-o?š. P3-wife-SV hide IPs-scrape-SIM lie-NAR-INDma.

as they broke camp, there was a really old dog; xkah-ri ræ:h-kræ-ki wris-wa-e-rut-e-ra xih-æ i=wika-ak; (decamp-SS go-PL-IF horse-UNSP-defecate-eat-DEM-TOP

they had abandoned him. µpræ-ha: ræ:h-kræ-ak. old-SV PV=real-DS abandon-SIM go-PL-DS)

all the while, (the children) didn't know (what was happening.) wá-i=hek-æ wįk-ha:.
(NEG-PV=know-SV not-SIM)

The auxiliary, wika 'real(ly)' occurs as an adverbial or adjectival intensifier, much as its English analog:

as they broke camp, there was a really old dog...

xkah-ri ræ:h-kræ-ki wris-wa-e-rut-e-ra xih-æ i=wika-ak...
(decamp-SS go-PL-IF dog-DEM-TOP old-SV PV=real-DS...)

<sup>25.</sup> Crow and Lakhota show similar distribution for possible cognates of the 'simultaneous' aspectual suffix (Randolph Graczyk, personal communication).

all the while, (the children) didn't know (what was happening.) wá-i=hek-æ wik-ha:. (NEG-PV=know-SV not-SIM)

"your father's really miserable... ra-á?t-s ĭ=xik wjka-o?re... (P2-father-DEF PV=bad real-INDfa...)

The auxiliary, -ahka 'able' is one which attaches as a clitic to the verb stem; it shows no subject agreement:

> ru-rut-ahka-ki... (A1PL-eat-able-IF...) as much as he could lift... o-ru-xok-ahka...

(NOM-IPh-lift-able...)

if we can eat...

There is another, homophonous auxiliary, -ahka 'extent' (EXT) which also attaches as a clitic to the verb stem; it has an aspectual function indicating that a following predicate is temporally simultaneous or physically coterminous with the verb bearing this auxiliary. When the extentive attaches to the deictic, µ?- 'that', it has the meaning, 'then':

> just as he said it... ehe-ahka... (say-EXT...) ...it was about as big around as a tipi... ... wa-ti=šoh-eška-ahka-o?š... (...UNSP-house=taper-SMT-EXT-INDma...) "... then when everything is quiet, ... ú?-ahka wá-u?-s hápo (...DEM-EXT UNSP-thus quiet PV=say-SMT-ANT-IF

then you can go out. ... ...ú?-ahka ra-súk-rit-kt-o?š DEM-EXT A2-exit-2PL-POT-INDma)

The auxiliary, -eška 'similitive' (SMT) which also attaches as a clitic to the verb stem; it has the adverbial meaning, 'like; similar to'. It also renders the meaning, 'approximately; about':

> ...it was about as big around as a tipi... ... wa-ti=šoh-eška-ahka-o?š... (...UNSP-house=taper-SMT-EXT-INDma...)

for about four days... háp-æ tópe-eška:-ak ... (day-SV four-SMT-DS...)

## 3.3 Complex Sentence Structure:

#### 3.3.1 Coordination and Realis Switch-Reference:

The morpho-syntactic patterns identified here as reflecting a switch-reference function (i.e. the tracking of subject-continuity in discourse, henceforth SR) have been previously misanalyzed as coordinating or aspectual/subordinating suffixes (Kennard 1936; Hollow 1970; Carter 1991b). Mandan SR is verbal suffixation responding to syntactic and discourse triggers, which marks the continuity or discontinuity of subjectreference, typically, between two clauses, regardless of their hierarchy (or even contiguity, in some cases.) With the exception of such auxiliaries as, hræ (and kæ) 'cause', SR suffixation may also intervene in the same clause between main verb and its aspectual auxiliary verbs (here, AUX or 'positional postverb' (PPV), in Carter 1991b.)26

In a verb-final (SOV) language like Mandan, SR takes the form of suffixation on the last verb of a non-final ( or "medial") clause; this includes the non-final main verb when followed by an auxiliary verb. The verb of a non-final clause in Mandan typically lacks affixation, such as the gender-sensitive illocutionary suffixation (indicative, interrogative, imperative) and other modals found only on final-clause verbs. The canonical, realis SR system envisioned here for Mandan involves the suffix, -ri 'same subject' (henceforth, 'SS'; phonetically: [ni], this suffix occurs in both realis- and irrealis-

<sup>26.</sup> A definitive analysis of auxiliary verbs must await further research.

SS environments) along with, -ak 'different subject' (henceforth, 'DS'; the suffix vowel is lost following a vowel). The following single sentence example should suffice. Note that the sentence begins with a complex of two positional auxiliaries to which the DS suffix attaches. The auxiliaries serve as a sentence connective and have the syntactic force of a separate predication, thus requiring a marking for change of subject. It is also usefully typical that there is an idiomatic use of SS marking as well. The form, o=hræ-rį 'from' has lexicalized the causative auxiliary into a temporal and discourse deictic with no causative force at all (also see Text lines: for SS: 1,3,4,5,7(2), 8,9(2),11, 12, 13,1518(3), 19(2), 20, 22, 23, 24(4), 25, 26, 27(2), 29(2), 30, 31, 32, 33, 34(3), 35, 38, 39(6); 2) for DS: 1(3), 9, 10, 20, 31, 35(2), 38):

soon (even here) [sic] autumn came, hak=tæ-ak ó: o=hræ-ri, ró: o?-ška ptára (stand=stand-DS there PV=cause-SS, there be-DSJ, autumn

and the elder said, ko-ráto:-e, "ró: o?-ška WH-mature-SV,"there be-DSJ,

"we'll make a brush shelter even here. tǐ=xoka wá-i=ro-sæk-rṭ house-pointed UNSP-PV=A1PL-make-**SS** 

my brother, this is where we'll live." wį-šų́k, rų́-hą?-kt-o?š." P1-brother, A1PL-exist-POT-INDma.")

#### 3.3.2 Coordination and Irrealis Switch-Reference

In addition to realis DS, -ak, as above, there is an, irrealis/conditional suffix (DSirr), presumably related to the polysemous suffix, -ki 'if/when' (IF; see below). The two ki-suffixes differ in that the latter (IF) occurs in coordinate-clause environments, whereas the former (DSirr) marks a subordinate object-complement clause when dominated by certain irrealis predicates to be exemplified below. It is, furthermore, notable that the SR system appears to be unaffected by the distinction between Active and Stative intransitive verbs. The text contains only two examples of the DSirr:

"we didn't see which trail they had taken at all." she said.
"téwe ráku ræ:h-kræ-ki wá-ru-hæ wik-o?š,"...
("what road go-PL-DSirr NEG-A1PL-see not-INDma,"...)

"when Moon [sic] arrives and says, há-ki įstú wiráki-s [sic] e-ra hí-kt-ki (stand-IF night-orb-DEF DEM-TOP arrive-POT-IF

'will you give me your tongue...my son?'"
ka-ró:te-**ki**, "é=wa=he-s-o?š wį-rįk-æ
PROS-ANT-**IF**, "PV=A1-say-PST-INDma P1-son-VOC

ra-i=résik-æ wą-rá-ku?-ki P2-PV=tongue-SV S1-A2-give-DSirr ...)

## 3.3.3 Clause Connectives and other Particles

Aside from the aforementioned switch-reference morphology, there are also clause-initial connective words or particles which serve to link clauses. In some instances, these are clitic complexes formed out of what may be fossilized syntactic debris, such as:  $\mu$ ?8' 'thus', the pro-verb, ha- (PROV), the pro-sentence, ka-. (PROS); the synchronic meaning of the latter is now difficult to ascertain. There is evidence that some of these particles may have been predicates in earlier stages of the language. Note, for example, ka-ro:te-ki, which takes the anterior aspectual suffix (ANT) along with the, -ki 'if/when' (IF), another verbal suffix. The switch-reference suffixes can be found at work with these elements also. The form,  $\mu$ ?8' 'thus', refers back to a previously uttered clause or sentence. It is often accompanied by the suffix, -ka 'adverbial' (ADV), which may, in fact, be related to the other anaphoric suffixes homophonous with it (also see Text lines: 7, 20, 24, 34, 37, 39):

thus, all the while, the village chief said,

µ?š wá:k-æ-ha: wt̃?=ti ruwá?k=ši-s e:-ra,

(Thus, abide:lie-SIM village man=good-DEF DEM-TOP,

<sup>&</sup>quot;go and grab those children and tie their wrists;

<sup>&</sup>quot;ræ:h-rį súk-kræ-re i=ru-šæ-rį ukite ka-skæ-rį

<sup>&</sup>quot;go-SS child-PL-ANF PV=IPh-take-SS wrist IPf-tie-SS

tie them around the waist too!"
irák ró: rate ro:-ha: ka-skæ-ri.
also there waist there-LOC IPf-tie-SS!")

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having done that, he took half the rib cage.<sup>27</sup> **u?8-ka** hræ-rį, rút-æ ráte-ška ru-šæ-rį. (DEM-ADV do-SS, rib-SV side-COLL IPh-take-SS)

There are two anaphors which have as their antecendent, either a prior verb, ha-(ki) 'pro-verb' (PROV) or a sentence, ka-(ri) 'pro-sentence' (PROS). Note that one or the other of the switch-reference markers (or if/when) frequently appear with these clause connectives. Most interesting is the third example, which, as was stated above, reveals an aspectual marking tagging the clause connectives more clearly as a type of minor predication:

so, since children were crying...
há-ki ré-t suk-kræ-s rátax-a: wá:k-æ-soʔrįk ;...
(PROV-IF here-LOC child-PL-DEF cry-SIM abide:lie-SINCE ...)

and then all the people broke camp ...

ká-rį o: o=hræ-rį á:we ruwá?k-aki-s xkah-rį...

(PROS-SS there PV=cause-SS all man-COLL-DEF decamp-SS)

"and so, (since) you are a man, you must behave as a man."
ka-ró:te-ki rį-ruwą́?k-o?š; ruwą́?k į=ksah-o?š.
(PROS-ANT-IF S2-man-INDma; man RFX-custom-INDma)

An interesting example of clause combination is the use of concatenated auxiliary verbs, marked for switch-reference; the positional auxiliary, hak 'stand' is followed by the verb, te 'stand', which in turn shows, -ak 'different subject' (DS). In the following examples other particles and suffixes such as, -ki 'if/when' and o: o=hræ-rį 'from there' may also be involved. The usual adverbial meaning may not be idiomatic in English and can thus be suppressed from the free translation:

so then, the girl, was evidently the elder.

hak=té-ak ó: o=hræ-ri ko-wih-æ
(stand=stand-DS there PV=cause-SS P3-sister-SV

ko-ráto:r-æ ó?-ro:te ... WH-mature-SV DEM be-EVD...)

then the girl said,
há(k)-ki ó: o=hræ-rį ko-wį-s e-ra,
(stand(?)-IF there PV=cause-SS P3-sister-DEF DEM-TOP,

"my brother, we're poor."

"wį-šuk-æ, wa-ró:-hekxik-raš-o?š."

"P1-brother-VOC, UNSP-S1pl-poor-ATT-INDma")

As stated above, the particles, (o:) o=hræ-rį 'from (there)' appears, either alone or in combination with other connectives. Note that the demonstrative element is optional in some contexts. Its semantic contribution is temporally deictic in discourse, indicating a transition to another event:

then they made a shelter...

o: o=hræ-rį ti=xoka i=sæk-kræ-ro:wąk-s ...

(there PV=cause-SS house-point PV=make-PL-NAR-PST ...)

The particle,  $h_i$ : may also occur as an 'auxiliary' (AUX), as a conjunction, 'and' or as a demonstrative, 'thus', as in the following example:

then that boy became

hť: ó: o=hræ-rť ró: ruwá?k-aki-kræ-s e-ra suk-e-rú-s (thus, there PV=cause-SS there man-COLL-PL-DEF DEM-TOP boy-DEM-ANF-DEF

their people's chief. ta-ruwa?k=ši-kræ-ro:wak-o?š. AL-man=good-PL-NAR-INDma)

<sup>27.</sup> Note the SS suffix instead of, -ak, in this temporal sequence. This may be a reduced version of o?-hræ-rį 'from (there)', in which SS is idiomatic. No English influence of the SR mechanism is possible, however.

#### 3.3.4 If and When

The preceding example conveniently contrasts the IF/WHEN morpheme (IF) with the much less frequent but homophonous irrealis suffix (DSirr) for change-of-subject marking. Note that the suffix can have either the 'if' or the 'when' reading. One further example should suffice (also see Text lines: 3(3), 12, 13, 15, 20, 22(2), 23, 25(3), 27, 35, 37, 38):

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When she was scraping in a timbered coulee; wá-itk-a: wá:k-æ-ki wra wa-o=krax ku?š-t (IPs-scrape-SIM abide:lie-IF wood UNSP-PV-concave in-LOC

while she was scraping, wá-itk-a: wá:k-æ-ki, IPs-scrape-SIM abide:lie-SV-IF,

when he was thinking who knows what...
tašká ĭ=pa-šrih-ki, ....28
PV=IPh-think-IF, ...)

# 3.3.5 Active Predicate Comparison and Temporal Sequencing

He works better than me (lit. he works well; I don't do so) wa-i=sæke ši: hræ-ka-o?š (UNSP-PV=make good cause-HAB-INDma

wi?=šak wa:-wa-u?š-ka:-xi-ka-o?š (1sg=PRO NEG-S1sg-thus-ADV-NEG-HAB-INDma)

He works as well as I do. (lit. he works well; I also work wa-i=sæke ši: hræ-ka-o?š well)
(UNSP-PV=make good cause-HAB-INDma

wį=šak inąk wa-i=wa-sæk (1sg=PRO also UNSP-PV=S1sg-make ši wa-hræ-ka-o?š good A1sg-cause-HAB-INDma)

Temporal anteriority involves a clause about the event followed by a clause in which another subject relates to the same verb in the negative. This clause can be in the form of a locative; the latter may be the result of English influence:

he came before me. (lit. he came at/when I hadn't come) ro: hi-o?š wą̃:-wà:-tĩ:-xì-tá: (here A3-come-INDma NEG-A1sg-come-NEG-LOC)

## 3.3.6 Conjunction and Disjunction

There are two very similar clitics for the expression of conjunction and disjunction, respectively: -ška?rįk 'but' and-o?-ška'or; (even) though' (both are glossed as, DSJ here); the latter seems to involve the copula, o? 'be' and can have a conjunctive interpretation as well. The following are examples (also see Text lines: 31, 39):

together they were trying to skin the deer but they didn't know kó-ta-wį:h-s ki-upa-rį wą́warahku-s ka-xíp i=ahka-raš o: í=ha-xi=k-ška?rįk

(P3-AL-sister-DEF MV-with-SS deer-DEF IPf-skin PV=just-ATT there PV=not:know-DSJ

just how to do it (but) they (finally) managed it.

ka-xı́p į́=hræ wá̞:k-æ-ha:. IPf-skin PV=do abide:lie-SIM)

though he hardly had any teeth; he was really chewing...
hí o?-ška í=wįk-ša ra-xtú-xtæ-rį ú?š wá:k-æ ra-xot-o:wak-o?š.
tooth be-DSJ PV=not-COLL IPm-chew-INTS-SS thus abide:lie...

she said to him, "If you kill even some cottontails, my brother, "waxtik-æ ó-ksuk-ras o?-ska wi-suk, "rabbit-SV PV=narrow-ATT be-DSJ P1-brother,

<sup>28.</sup> This form may be related to another verb for 'kill; murder' the root, ktE. More frequent, however, are the periphrastic constructions, te hræ or te kæ; both meaning, 'cause to die.'

I'll roast them for us to eat." (lit. though it be some cottontails...) wá-te ra-hræ-ro:te-ki rá-sit rú-hræ-rį
UNSP-die A2-cause-ANT-IF IPt-roast A1PL-cause-SS

rų-rut-kt-o?š" é=he-rį. A1PL-eat-POT-INDma," PV=say-SS)

## 3.3.7 Purpose and Reason Clauses

Reason clauses end in the following clitic,-so?rįk 'since; because' (SINCE); it is attached to the clause-final predicate. The usual gloss involves 'since' rather than 'because':

...since the children were crying, (that dog) must have heard them ...suk-kræ-s rátax-a: wá:k-æ-so?rik, æ-ró:te (...child-PL-DEF cry-SIM abide:lie-SINCE, hear-EVD)

since those children were poor, suk-kŕæ-s...wá-o-hikxik-rąš-rį wá:k-æ-so?rįk (child-PL-DEF...UNSP-PV=poor-ATT-SS abide:lie-SINCE

they made a house for them...

o=ti ĭ=sæk-a: kú?-kræ-ro:wak-o?š.

PV=house PV=make-SIM give-PL-NAR-INDma)

Purpose clauses typically involve the use of the deictic particle,  $\mu$ ?-ta:-ha: 'that way; for that purpose; that's why':

that's why they did it...

µ?-ta:-ha: wá-i=sæk-ri...

(DEM-LOC-LOC UNSP-PV=make...)

#### 3.3.8 Subordination

Subordination remains unmarked for the most part. This is truer for complement more than relative clauses, which may take the prefix, ko-'WH' and are also marked by the definite article suffix, -s'DEF' or a demonstrative such as, -a?t 'that'. The

unspecified argument prefix, wa- 'UNSP' may also mark a relative clause, as can, o- '(locative) nominalizer' (NOM; also see Text lines: 8, 11, 14, 25, 27).

#### 3.3.8.1 Nominalization and Relative Clauses:

The prefix, ko- 'relativizer' (occasionally, ka-) optionally marks relativization (WH). Nominalization for place or time is marked by the prefix, o- 'nominalizer' (NOM); that for generic instrument, 'what one verbs with', is marked by, i- 'instrument'; selected examples follow. Both nominalizations and relative clauses may take the definite article:

you will have everything that I have promised."
wá-i=wa-rį-rat-a?t á:we ó-ra-ka?-o?š.
UNSP-PV=A1sg-S2-promise-DEM all
FUT-A2-have-INDma)

his meanness made him want you to cut out your tongue!"

o=ratka wris-æ ó=t hræ-ri ra-i=résik-æ

(NOM=heart=horse-SV join cause-SS P2-PV=tongue-SV

pa-wéš-rį hræ-rį i=sæk-kt-o?š. IPh-cut-cut-SS cause-SS PV=do-POT-INDma.)

the **tracks where** the villagers had **walked** and **dragged** the travois showed...

...o-rį-kræ wrą=haška ó-ru-ta:-rį tį:h-a: wá:k-æ-ak ...
(...NOM-walk-PL wood=long NOM-IPh-drag-SS show-SIM abide:lie-DS...)

...when they got somewhere, they'd gone, those people (were not there)...

...tewe-ra ko-ræ:h-kræ-ki ro:, ruwá?k-aki-kræ... (...what-TOP WH-go-PL-IF there, man-COLL-ANF...)

(yet) everyone had believed what their father had said before ré-t τμwά?k kó-at-s e-τa wá-ehe-s (DEM-LOC man, P3-father-DEF DEM-TOP UNSP-say-DEF

út-æ: áwe, wǐka hræ-kræ-ri before-SIM all real cause-PL-SS...)<sup>29</sup>

# 3.3.8.2 Complement Clause Structures

Some verbs (like 'think') require a type of subjunctive (i.e. irrealis) modal marker on the complement , -aška 'may be' (MOD); otherwise marking is minimal. Recall the SOV placement of object complement clauses:

"he'll think that it's your tongue."
...ra-i=résik-a?ška ó-e=ø-reh-o?š,
(...P2-PV=tongue-MOD FUT-PV=A3-think-INDma)

#### 3.4 Discourse Phenomena

3.4.1 Topic

Topics are marked by the clitic, -ra 'topic' (TOP); the clitic may attach directly to the nominal (including pronouns) or to a demonstrative referring to the nominal in question, as in the following example (also see Text lines: 1, 3, 10, 24, 27, 32, 35, 38):

there was a large village at the bend in the river; wi=ti xtæ-ra tæ-ro:wak-o?š, wi=tah ó: wa-krax-t (village big-TOP stand-NAR-INDma, river there UNSP-bend-LOC

e:-ta; wi=ti xtæ-ra te-ak
DEM-LOC; village big-TOP stand-DS

a man had two children...
ruwá?k e-ra ta-súk-æ i=rúp-ak kæ-ka-ri wá:k-æ-ak...
man DEM-TOPAL-boy-SV PV=two-DS have-SS abide:lie-DS...)

# 3.4.2 Focus and Clefting Patterns

Focus structures typically involve a topic-marked cleft structure like those illustrated below. There is usually a demonstrative followed by the copula, 0? 'be', which,

in turn, bears the topic marker discussed above. Note that the prefix, *i*- serves as a reference to the null third person pronoun:

that was Moon; that was the way he helped them. i=šák, įstµ́h wr̃aki a?t e-ra ó-ki-kutæ há-ki (PV=PRO, night-orb that DEM-TOP PV=MV-help PROS-IF

ró: o?-s µ?š-ka-ro:wak-o?š
DEM be-DEF thus-ADV-NAR-INDma)

it was he who had killed his wife and had his children eat her.
i-o?-ra té hræ-ri ta-súk-kræ rut hŕæ-ri.
(PV=be-TOP die cause-SS AL-child-PL eat cause-SS)

..it was these they would drink (from). ... é: o?-ak ki-hǐ-rik (...DEM be-DS MV-drink-ITR)

"he is the one who killed mother and made (us) eat her."

"i=0?-ra ra-æ té hræ-ri ki-rút ó=hræ-ri."

("PV=be-TOP mother-SV die cause-SS MV-eat PV=cause-SS")

<sup>29.</sup> Note the idiom for, wika hræ 'believe' is literally, 'make real'.

- 4. Text: No Tongue (A Narrative Fragment)30
- 1. wį̃ti xtæ-ra tá-ro:wak-o/s, wã:tah ó: wa-krax-t e:-ta; wį̇ti xtæ-ra te-ak; ruwã/k e-ra ta-súk-æ i=rúp-ak ká-ka-rį wã:k-æ-ak...
- 1. village big-TOP stand-NAR-INDma, river there UNSP-bend-LOC DEM-LOC; village big-TOP stand-DS; man DEM-TOP AL-boy-SV PV=two-DS have-HAB-SS abide:lie-DS...
- 1. There was a large village at the bend in the river; a man had two (young) children...
- 2. ko-ú?h-e ropxí wá-itk-a: wak-o:wak-o?š.
- 2. P3-wife-SV hide IPs-scrape-SIM lie-NAR-INDma.
- 2. His wife was scraping a hide.
- 3. wá-itk-a: wá:k-æ-ki wra wa-o=krax ku?š-t wátk-a: wá:k-æ-ki, tašká ĭ=pa-šrih-ki, ruwá?k-re-ra, ræ:h-ri ko-ú?h-s te kæ-ro:wak-o?š.31
- 3. IPs-scrape-SIM abide:lie-IF wood UNSP-PV-concave in-LOC scrape-SIM abide:lie-SV-IF, how PV=IPh-think-IF, man-ANF-TOP, go-SS P3-wife-DEF die cause-NAR-INDma.
- 3. When she was scraping in a timbered coulee; while she was scraping, when he was thinking who knows what, the man went and killed his wife.
- 4. wa-i=hut-æ wik-a: te: kæ-ri.
- 4. NEG-PV=reason-SV NEG-SIM die cause-SS.
- 4. He killed her without cause.

- 5. ku-t wra-rok ó-si(p)=sip-ta á-ræ:h-rj.
- 5. farther-LOC wood-interior PV-thick:R-LOC TR-go-SS.
- 5. He took his wife farther into the middle of the dense brush.
- 6. ko-ú?h-s ka-xípa.

- 6. P3-wife-DEF IPf-skin.
- 6. He skinned his wife.
- ú?š-ka hræ-rį, rút-æ ráte-ška ru-šæ-rį.
- 7. DEM-ADV do-SS, rib-SV side-COLL IPh-take-SS.
- 7. Having done that, he took half the rib cage,
- 8. wa-ra o-rák-rį rút-kræ-s rá-sit hræ-ro:wak-o?š.
- 8. UNSP-fire NOM-kindle-SS rib-PL-DEF IPt-roast cause-NAR-INDma.
- 8. He made a fire and roasted the ribs.
- 9. rá-sit hræ ó: o=hræ-rį ká?-rįk rą́k-ha: rút-s rá-tak-ak ĭ-wį?=ti-t ki-ræ:h-rį ta-súk-kræ-s wa-á-hu:-ro:wak-o?š.
- 9. IPt-roast cause there PV=cause-SS have-ITR sit-SIM rib-DEF IPt-cook-DS DIR-village-LOC VRT-go-SS AL-child-PL-DEF UNSP-TR-come-NAR-INDma
- 9. When he had roasted the ribs, he had them; he went back to the village for his children.
- 10. wa-á-hu:-ri, "wáwarahku-ra té wa-hræ-ak, rút rá-sit wá-hræ wa-ri-ku?-rit-o?š.
- $10.\,$  UNSP-TR-come-SS, "deer-TOP die A1sg-cause-DS, rib IPt-roast A1sg-do A1sg-S2-give-2PL-INDma."
- 10. As he took the children, he said, "I've killed a deer and roasted the ribs for you." 32
- 11. hú:-rį wa-rút-ta! ra-éx o=hi hræ-rįt-ta!"
- 11. "come-SS UNSP-eat-IMPma P2-belly NOM=full cause-2PL-IMPma!"
- 11. "Come and eat! Fill yourselves up!"

<sup>30.</sup> Plot Summary: a boy and his older sister are deceived by their father into eating the cooked flesh of their mother, whom he secretly murdered and cooked. The father then accuses his children of matricide and cannibalism. As punishment, the duped tribesmen picket the children next to a crumbling riverbank to drown in the stream. The villagers flee out of fear of the children. However, through the intercession of an old dog, the pair are rescued. [Fragment Ends] They survive to prosper with the aid of the Holy Women of the woods. When the children have reached adulthood, Sun and Moon each offer to reinstate them in the tribe. While Moon seems altruistic, Sun first requires the boy to cut his tongue out for him. The old dog offers to deceive Sun, giving the young man the bloody tip of his own tongue to secure Sun's promises. The ruse succeeds. With Moon's help, the pair returns to the tribe. The murderer dies after a meal cooked by his innocent daughter. The young man becomes chief and the pair live happily ever after.

<sup>31.</sup> This form may be related to another verb for 'kill; murder' the root, ktw. More frequent, however, are the periphrastic constructions, te hrw or te kw; both meaning, 'cause to die.'

<sup>32.</sup> E. Benson also accepts the SS marking on 'kill.' However, SS before the benefactive makes it into two clauses, with the second being the verb 'give' rather than the benefactive.

- 12. "ruwá?k-aki ĭ=taha wá:k-æ i=hek-kræ-ki ĭ-ro:=ka-šrat-kræ-o?š," é=he-rį.
- 12. "man-COLL PV=other abide:lie PV=know-PL-IF

DIR-S1pl-IPf-heap-PL-INDma," PV=say-SS.

- 12. "Other people would mob us, if they knew," he said.<sup>33</sup>
- 13. ta-súk-kræ-s pušáh-kræ-ki kæ?-ka-rį.
- 13. AL-child-PL-DEF small-PL-IF have-HAB-SS.
- 13. His children were very small. (lit. his children he had when they were small)
- 14. ko-ý?h-s o-watk-a: wá:k-æ:-s e:-t á-ræ:h-o:wak-o?š.
- 14. P3-wife-DEF NOM-scrape-SIM abide:lie-DEF DEM-LOC TR-go-NAR-INDma.
- 14. He took them to where the wife had been scraping the hide.
- 15. á-ræ:h-a: á-hi-ki rut-kræ-s wrą-ap ř=pa-wrįš-æ μ?š-ka hræ-rį kæ hræ-ka e=he.
- 15. TR-go-SIM TR-come-IF rib-PL-DEF wood-leaf PV=IPh-wrap-SV thus-ADV do-SS have cause-QT PV=say.
- 15. When he got them there, he gave them the ribs wrapped in leaves, it is said.<sup>34</sup>
- 16. wa-rút-æ-kræ-ro:te irák rút-s rut-ha: wá:k-æ-ha: pí-kræ-ro:wak-o?š.
- 16. UNSP-hungry-SV-PL-EVD again rib-DEF eat-SIM abide:lie-SIM devour-PL-NAR-INDma.
- 16. The children must have been hungry; eating, they devoured the ribs.
- 17. pí-kræ rut-a: wá:k-æ-ha:, ruwá?k-s i-wi=ti-t ki-ræ:h-o:wak-o?š.
- 17. devour-PL eat-SIM abide:lie-SIM, man-DEF DIR-village-LOC VRT-go-NAR-INDma.
- 17. While they were devouring the ribs, the man went back to the village.
- 18. i-wi=ti-t ki-ræ:h-ri ruwá?k-aki ta-wi=ti kó-wreh-ka-ta ki?h-ri.
- 18. DIR-village-LOC VRT-go-SS man-COLL AL-village

WH-door-NOM-LOC VRT:arrive-SS.

18. He got back to the village and to people's leader and said,35

- "wa=ta-súk-kræ-s wá-xtæ i=sæk-kræ-o?š, ruwá?k-aki-rjt-æ!"
- "A1=AL-child-PL-DEF UNSP-big PV=do-PL-INDma, man-COLL-2PL-VOC!"
- "You people! My children have done something awful!"

ko-hú:-æ ki-rút-rį, wá:k-æ-kræ-o?š!" é=he-ro:wak-o?š.

P3-mother-SV MV-eat-SS, abide:lie-PL-INDma!" PV=say-NAR-INDma.

"They're eating their mother up !" he said.

- 19. i-o?-ra té hræ-ri ta-súk-kræ rut hŕæ-ri.
- 19. PV=be-TOP die cause-SS AL-child-PL eat cause-SS.
- 19. It was he (who) had killed his wife and had his children eat her.
- 20. há-ki ó: o=hræ-rj wá-ruwá?k-aki hú-ru-s wa-karahka-kræ-rjk-u-ak.
- 20. PROV-IF there PV=cause-SS UNSP-man-COLL many-ANF-DEF UNSP-fear-PL-MOD-DS.
- 20. Those many people must have surely been afraid.
- 21. á:we o=šrí-ha: ptæh-kræ-ro:wak-o?š.
- 21. all PV=scatter-SIM flee-PL-NAR-INDma.
- 21. Scattering, they all ran away.
- 22. á:we o=šrí-ha: wá:tah ř=xti-t rá:k-æ e:-t á:we o=šrí-ha: ræ:h-kræ-ki suk-kræ-s, ahkére, ki-ó-ru-kuh-rį wa-rút-æ wá:k-æ-ha: kį?k-ki ruwá?k-aki wá-wřk-o:wak-o?š.
- 22. all PV=scatter-SIM river PV=tip-LOC abide:sit DEM-LOC; all PV=scatter-SIM go-PL-IF child-PL-DEF, pitiful, MV-IPg-bereft-SS UNSP-eat-SIM abide:lie-SIM finish-IF man-COLL UNSP-not-NAR-INDma.
- 22. They all scattered upstream. As they were all scattering, those children, poor things, were eating all alone. When they finished, the people were all gone.
- 23. wį=ti reš o: wa-wįk-ki ó=hræ-rį suk-kræ-s rátax-rįk.
- 23. village thus there UNSP-not-IF PV=cause-SS child-PL-DEF cry-ITR.
- 23. When there was no one in the village, the children cried and cried.

<sup>33.</sup> A better translation might be: 'If other people found out, they'd mob (us); so don't tell!' Also recall, PV + S1P metathesis rule in phonology.

<sup>34.</sup> Note the GIVE benefactive auxiliary verb construction: '...he wrapped them in leaves for them.'

<sup>35.</sup> Note the root 'door'; the metaphor is the leader as the door of the community.

- 24. ú?š wá:k-æ-ha: wj=ti ruwá?k=ši-s e-ra, "ræ:h-ri súk-kræ-re i=ru-šæ-ri úkite ka-skæ-rį irák ró: rate ro:-ha: ka-skæ-rį.
- 24. Thus, abide:lie-SIM village man=good-DEF DEM-TOP, "go-SS child-PL-ANF PV=IPh-take-SS wrist IPf-tie-SS again there waist there-LOC IPf-tie-SS!"

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- 24. While the children were there crying, the village chief said, "Go and grab those children and tie their wrists; tie them around the waist too!"36
- 25. wápte í-wokah-ta wri i=rotki-ta; wápte ó=wako:-ta rá-ka-xrat-rit-ki ýls-ka-raš-a: rúrih-a: wápte-re o-hál-ro:te-ki, kšip-rí ræ:h-kræ-ki, ó-ši-olš.
- 25. river:bank DIR=edge-LOC water PV=fall-LOC; river:bank NOM-high-LOC A2-IPf-picket-2PL-IF thus-ADV-ATT-SIM exist:pl-SIM river:bank-ANF FUT-cave:in-ANT-IF, drown-SS go-PL-IF, FUT-good-INDma.
- 25. Take them to the edge of the riverbank. When you picket them close to the high bank where it's falling into the water, (thus) they'll be there when the bank caves in. It would be good if they drowned!"
- 26. "á:we ro:-kí-pi e=he-rik=o?-kt-o?š." é=he-ri.
- 26. "all S1pl-MV-devour PV=say-MOD=be-POT-INDma," PV=say-SS.
- 26. ("Otherwise) they might eat us all up!" he said.
- 27. wį̃=ti ruwą́?k=ši=re-ra wá-ki-si-ki suk ruwą́?k ο-xkæ=xkæ-raš-æ a:we, ruwą́?k o-xraka-răs-ri, ú?š-ka ræ:h-kræ-ri suk-kræ-s e:-t.
- 27. village man=good-ANF-TOP UNSP-MV-order-IF boy man NOM-active:R-ATT-SV all, man NOM-brave:R-ATT-SS, thus-ADV go-PL-SS child-PL-DEF DEM-LOC.
- 27. When the chief ordered the active young men, the brave young men, to do that to the children, those men went to the children.
- 28. wá-i=hek-æ wik-ha:.
- 28. NEG-PV=know-SV not-SIM.
- 28. All the while, (the children) didn't know (what was happening.)
- 29. ru-šæ-kræ-ri úk=it-SV ka-skæ ru-kás-æ-kræ-ri.
- 29. IPh-take-PL-SS wrist IPf-tie IPh-hard-SV-PL-SS.
- 29. They grabbed them and tied their wrists really tightly.
- 36 Note the absence of imperative morphemes here.

30. irák ší-ta šúpa-t irák µ?š-ka hræ-rį á-ræ:h-a: wrį í=rotki á:ki-ha: ka-xrat-kræ-ro:wak-o?š.

- 30. also foot-LOC ankle-LOC also thus-ADV do-SS TR-go-SIM water DIR-fall top-LOC IPf-picket-PL-NAR-INDma.
- 30. They tied them at the feet too, around the ankles too and took them to where the bank was caving into the water and picketed them up (there).
- 31. ka-xrat-kræ-ak, súk-s rátax-ri wá-hi:ku i=sæk-kræ-ška?rik
- 31. IPf-picket-PL-DS, boy-DEF cry-SS UNSP-difficult PV=do-PL-DSJ
- 31. When they had picketed them, the children were crying, (for) they were having a hard time.
- 32. ré-t ruwá?k kó-at-s e-ra wá-ehe-s út-a: á:we, wika hræ-kræ-ri suk-kræ-s, ahkræ, wá-hj:ku í=sæk-kræ-ro:wak-o?š.
- 32. DEM-LOC man, P3-father-DEF DEM-TOP UNSP-say-DEF before-SIM all real cause-PL-SS child-PL-DEF, pitiful, UNSP-difficult PV=do-PL-NAR-INDma.
- 32. (Yet) everyone had believed what their father had said before and the poor children were suffering (for it.)
- 33. ka-xrat-kræ-ri i=rúp-ša kí-ki-pa-hu-ta rúrih-a:.
- 33. IPf-picket-PL-SS PV=two-COLL RCP-next-LOC exist:pl-SIM.
- 33. Both of them were picketed side by side, next to each other.
- 34. ká-ri o: o=hræ-ri á:we ruwá?k-aki-s xkah-ri ræ:h-kræ-ro:wak-o?š.
- 34. PROS-SS there PV=cause-SS all man-COLL-DEF decamp-SS go-PL-NAR-INDma,
- 34. And then all the people broke camp and left.
- 35. xkah-ri ræ:h-kræ-ki wris-wa-e-rut-e-ra xjh-æ i=wjka-ak upræ-ha: ræ:h-kræ-ak.
- 35. decamp-SS go-PL-IF horse-UNSP-defecate-eat-DEM-TOP old-SV PV=real-DS abandon-SIM go-PL-DS.
- 35. When they broke camp, there was a really old dog; they had abandoned him.<sup>37</sup>
- 36. woh-a: rá:k-æ wj=ti reš o:.
- 36. howl-SIM abide:sit village thus there.
- 36. The dog was howling this way there in the village.

<sup>37.</sup> The verb 'abandon' also has the meaning 'relinquish; donate' in other contexts.

37. há-ki ré-t suk-kræ-s rátax-a: wá:k-æ-so?rįk æ:-ró:te o: ratax-a:; hú:-a: a:wį wrįs-wa-e-rut-s hǐ-ro:wak-o?š, suk-kræ-s e:-ta.

37. PROV-IF here-LOC child-PL-DEF cry-SIM abide:lie-SINCE hear-EVD NOM-cry-SIM; come-SIM CONT horse-UNSP-defecate-eat-DEF arrive-NAR-INDma, child-PL-DEF DEM-LOC.

- 37. Since children were crying, that dog must have heard them; he was going to where the children were.
- 38. xih-æ i=wika-ak hi-ri e-ra; ahk, suk-kræ-s ratax-a: wá:k-æ-ki i=hek-o:wak-o?š, wris-wa-e-rut e-ra.
- 38. old-SV PV=real-DS come-SS then; pitiful, child-PL-DEF cry-SIM abide:lie-IF PV=know-NAR-INDma, horse-UNSP-defecate-PV-eat DEM-TOP.
- 38. He was really old; he got there; poor things, when the children were crying, the dog knew.
- 39. ká-rį i=ka-skæ-s, ahkræ, ra-xtú-xtæ-rį. hǐ o?-ška i=wįk-ša ra-xtú-xtæ-rį ų̃?š wą́:k-æ ra-xot-o:wąk-o?š. ukit i=ka-skæ-kræ-s ra-xot-o:wąk-o?š. ká-rį ó: o=hræ-rį, ahkræ, ré-ta šupa i=ka-skæ-s irą́k i-ra-šæ-rį i-a:ki-t i-ka-htæ wą́:k-æ 39. PROV-SS PV=IPf-tie-DEF, pitiful, IPm-chew-big-SS. tooth be-DSJ PV=not-COLL (?) IPm-chew-big-SS thus abide:lie IPm-loose-NAR-INDma. wrist PV=IPf-tie-PL-DEF IPm-loose-NAR-INDma. PROS-SS there PV=cause-SS, pitiful, DEM-LOC ankle PV=IPf-tie-DEF again DIR-IPm-take-SS DIR-up-LOC DIR-IPf-pull abide:lie.
- 39. He got there and, poor thing, he chewed (on the cords.) Though he hardly had any teeth; he was really chewing on that rope, until the girl's bound wrists came untied and then, poor thing, her ankle (ropes) he chewed on too. He bit into (the cord) and tugged, dragging her (up the bank).

#### 5. Abbreviations:

ADV= Adverbial; AL= Alienable Possession; ANF=Anaphor; A1sg= 1st Pers. sg. Active (subject agreement); A1pl= 1st Pers. pl. Active; A2= 2nd Pers. Active (subject agreement); ANT= Anterior Aspect; Perfective; AUX= Auxiliary Verb; CAUS= Causative; CEL= Celerative; COLL= Collective; CONT = Continuous auxiliary; DEF= Definitive; DEM= General Demonstrative; DIR= Directional; DS= Different Subject; DSir= Different Subject Irrealis; DSJ= Conjunctive/Disjunctive; EVD= Evidential; EXT= Extent; Amount; FUT= Future; HAB= Habitual; IF= if/when; IMPma= Imperative; Male; IMPfa= Imperative; Female; INC= Inceptive Aspect; INDfa= Indicative, Female addressee;

INDma= Indicative, Male addressee; IP= Instrumental; IPh 'by hand'; IPm 'by mouth'; IPf= Instrumental: by force; IPh= Instrumental, by hand; IPt= Instrumental by heat; IPg= Generic instrumental; IPs 'sharp instrumental; INT= Intentive aspect; INTfa= Interrogative; Female; INTma= Interrogative; INTS= Intensive; ITR= Iterative; LOC= Locative; MOD= Modal; MUT= Mutative; MV= Middle Voice; NAR= Narrative Past; NEG= Negative; NOM= Nominalizer; 2PL= 2nd Pers. Plural Subject; PL= 3rd Pers. Plural Subject; POT= Potential; PRF= Perfective; PRO= Pronoun; PROS= Pro-Sentence; PROV= Pro-Verb; PRT= Participle; PST= Past Tense; PV= Preverb; P1= 1st Pers. Possessive; P2= 2nd Pers. Possessive; QT= 'Quotative; R= Reduplication; RCP= Reciprocal; RFX= Reflexive; RQ= Request; SC= Stem Consonant; SIM= Simultaneous Aspect; SMT= Similitive; SPC= Specifier; SV= Stem Vowel; S1sg= 1st Pers.g, Stative Case (and Object agreement); S1pl= 1st Pers. pl. Stative Case; S2= 2nd Pers, Stative Case (and Object agreement); SS= Same Subject; TMS= Repetitions; TOP= Topic, New or Reactivated; TR= Transitive; UNSP= 'Unspecified argument;' VOC= Vocative; VRT= Vertative; return to point of origin.'

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