Carrier Monosyllabic Noun Stems

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Athabaskan languages have extremely complex and productive morphology based overwhelmingly on verbal roots. There are very few unanalyzable nouns. Monosyllabic noun stems are either unanalyzable, and therefore presumptively old, or, where analyzable, reflect very old derivational processes. For this reason, the idea that they they can provide a window into the deeper layers of culture history has floated around the Athabaskanist community for some time. One of the few explicit statements on this topic is by Young & Morgan (1987; 3):

Although comprising only a small proportion of the noun corpus, the stem nouns represent one of the oldest strata in the language, many having close cognates in other Athapaskan languages far removed in time and space from the American Southwest.

The reasoning underlying this approach was laid out by Sapir (1916;434-435):

If we have any method of determining the relative age of a word that has cultural significance, it is clear that we have at the same time a means of ascertaining something as to the relative age of the associated culture element itself. One of the most useful principles for the determination of the age of a word is a consideration of its form; that is, whether it can be analysed into simpler elements, its significance being made up of the sum of these, or is a simple irreducible term. In the former case, we suspect, generally speaking, a secondary or relatively late formation, in the latter considerable antiquity. ... We know, for instance, that the objects and offices denoted in English by the words bow, arrow, spear, wheel, plough, king and knight belong to a far more remote past than those indicated by such words as railroad, insulator,

battleship, submarine, percolator, capitalist and attorney-general, but we might have guessed this from the fact that the latter set, unlike the former, are clearly secondary formations, descriptive terms that seem to have been created out of older linguistic material to meet new cultural needs.

In the same vein, it is not surprising that in Carrier it is "canoe" that is ts i and "helicopter" that is $n_{\Delta}k$ in ta in ta

Although this idea is widespread, to my knowledge no one has actually carried out a detailed study of the monosyllabic noun stems of an Athabaskan language. In this paper, I present a first attempt at this, focusing on the Nak'alban/Dzin γ aban (Stuart/Trembleur Lake) dialect of Carrier.¹

The following lists contain the well documented monosyllabic noun stems of Carrier, classified as to type. This list is probably almost exhaustive, as I have extensive lexical material for this dialect. I have, however, omitted a few obscure words known only from old missionary sources, and have not listed every conceivable abstract noun. It is likely that quite a few other verbal roots can, in appropriate circumstances, function as nouns. There are a total of 315. These represent about 8% of the phonotactically possible monosyllables.

Although monosyllables are likely to be old, they can still be borrowed. There are eight clear cases of monosyllabic loans into Carrier.²

Loans

$7 \mathrm{uts}$	oats	English
bel	Father (priest)	French
bus	cat	English
$_{ m mai}$	berry	$\operatorname{Gitksan}$
sto	stove	English
stor	store	English
tuk	tuque	French via English
${ m ts'ak}$	ceremonial dish	Babine

Here are the remaining monosyllabic noun-stems, grouped by semantic field.

Body Parts

¹ Carrier examples are in the North American variant of the International Phonetic Alphabet. Underscores on /s/, /z/, /ts/, /dz/, and /ts'/ indicate lamino-dentals, which in conservative speech contrast with apico-alveolars. Other examples are in the practical orthography for that language, except for Tahltan, which is in IPA. A leading hyphen indicates that the noun is inalienably possessed.

² One of the forms cited below as native arguably belongs among the loans. γΛts "cartilage" may be a loan from Babine. In general, coda /ts/ is retained in Babine but became /z/ in Carrier. Two of the four attested cases of coda /ts/ are clearly loans. These are balats "potlatch", which is ultimately from Nuuchanulth, and ?uts "oats", a loan from English. The origin of the remaining case, ?Λtast'ots "fascia" is unclear, but it is not implausible that it is also a loan from Babine or Sekani as this word is attested only in the Stuart/Trembleur Lake dialect of Carrier.

- -?az groin
- $-b \Lambda t$ stomach, belly
- -ča ribs
- -čan womb, vagina
- -če tail
- č'oh porcupine quill
- -č'uz vein
- $-\check{c}\,{}^{,}\Lambda t$ gristle
- -da lip, beak, brim of container
- horn, antler -de
- $-d \Lambda s$ lungs
- -dzatshinbone
- -dzehear (canal)
- -dzoear (conch)
- -dzi heart
- arm, foreleg of animal -gan
- scales of fish gos
- hair, fur $-\gamma a$
- fin, bone of fish $-\gamma ai$
- tooth -γu
- bone not connected to the spine $-\gamma \Lambda k$
- $-\gamma \Lambda ts$ cartilage
- shoulder $-\gamma w \Lambda \underline{s}$
- thigh $-\gamma w \Lambda z$
- $-g^{w}\Lambda t$ knee
- foot, hind paw -ke
- egg, testicle xez
- -k'alfemale genitalia
- -k'i hip
- -k'o -k'un $_{\rm fish\ roe}^{\rm fat}$
- gill, side of throat $-k'\Lambda s$
- -la hand, forepaw
- -len ovary
- mekrabbit kidney
- eye -na
- nostril-ni
- -nin face
- -tai inside of skin
- -t'a back

- -t'a wing
- $-t'\Lambda k$ shoulder blade
- -tl'a ${\it buttocks}$
- -tl'et groin
- $-tl'\Lambda z$ gall
- $-ts{\scriptstyle\Lambda}k^{\rm w}$ penis
- -ts'i intestine
- $-ts'\Lambda z$ kidney
- head
- $-\underline{\mathbf{t}}\mathbf{s}\mathbf{i}$ anus $-ts\Lambda l$
- flesh -<u>ts</u>∧ŋ
- $-\underline{\mathbf{t}}\underline{\mathbf{s}}^{\prime}\mathbf{e}$ vein
- -tseh tendon
- -<u>ts</u>'il elbow
- $-\underline{\mathbf{t}}\underline{\mathbf{s}}'\mathbf{u}$ breast
- $\text{-}\underline{\mathbf{t}}\underline{\mathbf{s}}\text{'}\boldsymbol{\Lambda}\mathbf{n}$ bone
- $\underline{\mathbf{t}}\underline{\mathbf{s}}, \mathbf{\Lambda}\underline{\mathbf{z}}$ down
- ${\rm flesh}$ -yat
- -ye marrow
- larynx, gullet, dewlap, trachea -yih
- -yoh chest
- -yan spine
- chest-ynt
- exterior of throat -zul
- mouth-<u>z</u>e
- tonsils, glands $\textbf{-}\underline{z}\Lambda m$
- skin, hide, case $-\underline{\mathbf{z}}\boldsymbol{\Lambda}\underline{\mathbf{s}}$
- liver $-\mathbf{z}\mathbf{\Lambda}\mathbf{t}$

Bodily Fluids

- synovial fluid $-\gamma \Lambda z$
- $X\Lambda Z$ pus
- vomit ku
- $k^{\rm w} \Lambda s$ mucous
- $l_{\Lambda Z}$ urine, spray of skunk
- \mathbf{so} saliva
- tsanfeces

Quasi-Anatomical

čaz wart, mark from ringworm łut scab šis wart šat scar ts'az boil -<u>z</u>i corpse

Parts of Plants

7 λ l needle of coniferous tree - γ az root of a fallen tree now above ground - γ ih root xi root of spruce tree -k'i pod, mollusc shell -la? bark of tree (inner and outer together) -t'an leaf -t'uz inner bark of tree, peel of potato

Kinship Terms

?at wife -ba father -biz mother-in-law -čai grandchild younger brother -č∧l -disyounger sister $-d\Lambda \underline{s}$ parent nephew $-g^waz$ ki husband spouse's sibling -xe spouse's sibling's spouse -loh -lu mother FaBr/MoSiHu -tai grandmother, great-aunt -tsu man's daughter -tse?man's sister's child $-\underline{t}\underline{s}u$ -yat older sister woman's child -yaz -ye? man's son father-in-law -zaz -zit female cross-cousin

Geographical Terms

?an cave, hole in ground

bin middle of lake

bas high-water line of body of water

-da surface of water

dzAł mountain
keh pond
-koh river
łu glacier
nu island
šAs hill, knoll

tl'oh bay

Natural Substances

bis obsidian, flint

dnz drift-wood

dzan silt, slime

dzeh pitch

 $k^w \Lambda n$ fire

łez dust, dirt, ashes

łam piece of ice

łat smoke

 \underline{s} ai sand

tu water, liquid

tan ice over a surface

tsnł soot

tsan dirt (not soil)

tsaz firewood

 $\underline{t}\underline{s}e \qquad rock$

 \underline{ts} ih ochre

t'es charcoal, coal

tl'as verdigris

tl'At musk

Natural Environment

?a fog

70 whirlpool, eddy

čan rain

 $\check{c} \Lambda z \qquad snow flake$

 $\gamma w \Lambda s$ foam

ken den of animal

xaz windfall

 $k'^w \Lambda \underline{s} \quad \text{ cloud } \quad$

 sa sun

so frost

 star $\underline{\mathbf{s}}\mathbf{\Lambda}\mathbf{m}$ šΛł snow drift $_{
m ti}$ road, trail lair of bear tut tsil blowing snow the thin layer of floating ice at freeze-up $ts\Lambda l$ t'o ts'oh brushdry underbrush $ts \lq \Lambda l$ ya(t) sky $y \Lambda \underline{s}$ snow on ground

Water-Related Artifacts

 $2 \Lambda s$ fish or muskrat trap canoe paddle čΛS gasfish spear fish hook j∧s salmon opened with vertebrae cut out k'ai beaver net buckle mas gaff sohweir $S\Lambda S$ t'azdried, thin-sliced salmon -tl'i barb of fish-hook or harpoon thwart of canoe ts'ats'i canoe blade of canoe paddle -ts'ai kind of fish trap we mesh of net yaz

Other Artifacts

?aih snowshoes bat mittens bił snare, net roof, shingle $b_{\Lambda}n$ -čan handle dzutcoatguh deadfall trap $g^w \Lambda z$ runner of sleigh, sleigh $k \Lambda s$ shank of arrow, shaft, handle

- k'a blade (arrow, bullet, blade of knife)
- k'a
s bullet pouch, quiver
- k'en plaited bark rope
- k'an wattle of high-bush cranberry
- xaz ceremonial apron
- xe grease, lard
- xes grease container
- x_Ał club
- ${\bf x}{\bf A}{\bf s} \qquad {\bf h}{\bf a}{\bf n}{\bf d}{\bf l}{\bf e},\,{\bf s}{\bf h}{\bf a}{\bf n}{\bf k}$
- les flour, bread
- łas chunk of wood
- naih clothes
- $\underline{\mathbf{s}}\mathbf{e}$ belt
- $\underline{\mathbf{s}}$ ih wall
- tel bed of spruce boughs
- teł small basket
- tes bed, bedding
- ti handle (as of axe or knife)
- tas blunt-headed arrow
- $t_{\Lambda \underline{z}}$ walking stick
- tus fish-skin water container
- t'oh pocket
- t'oh hunting blind
- tlak double-edged knife
- tle oil, ointment
- tluk drawstring of sack
- tl'ul rope
- <u>ts</u>an breechcloth
- tsan trap trip
- <u>ts</u>e fringe
- $\underline{t}\underline{s}\Lambda l \qquad awl$
- $\underline{\mathbf{t}}\underline{\mathbf{s}}$ 'oh hat
- ts'at blanket
- yił splitting wedge
- yił marmot trap
- yoh house
- yu medicine

Mammals

- goh rabbit
- łi dog
- sas black bear
- šas grizzly bear
- tsa beaver
- tsis otter
- yas wolf

Aquatic Organisms

bit char

čil old male salmon

ges steelhead

łbai dentalium shell

ło fish

łoh Lake Whitefish

łuz perch

Birds

del crane

xoh Canada Goose soh American Robin ts'Al Red-necked Grebe

Invertebrates

 $\begin{array}{ll} gu? & bug, \, worm \\ ya & louse \\ \underline{ts}\text{'ih} & mosquito \end{array}$

Plants

7ah fiddlehead fern

č'ok Sitka Mountain Ash

dlat water weed

gus Cow parsnip

k'en Saskatoon bush

k'i Paper Birch tree

 $k' \underline{\mathsf{n}}\underline{\mathsf{s}} \qquad \text{Green Alder}$

xas Fireweed

xuł water lily roots

taz leafless waterweed at bottom of streams

tl'o grass

ts'al Common Red Sphagnum Moss

ts'oh Mountain Balsam

 $\underline{t}\underline{s}$ 'u spruce tree

x^wAs wild rose, thorns

Abstract Verbal

 $b \Lambda l$ sleep, dream -če sleep dli cold dliz stewing dlo laughter galrunning jan age $k\Lambda$ slipping shouting $s \Lambda l$ heat, steam $s \Lambda l$ $_{
m ti}$ freezing $t\Lambda \mathbf{l}$ kicking

I suspect that further investigation of the rather specialized constructions in which abstract verbal nouns are used will reveal that quite a few verb roots can also function as abstract verbal nouns. In some cases, as with dliz above, the nominal form is not the bare verbal root but has the d-valence prefix attached.

People

čił young man k'o? hunchback t'et young woman

Miscellaneous

7Ał damba edgeban edge, sideboh war

-da words of song

dai famine, starvation, hunger

daŋ summer dzin day

 $\begin{array}{ll} \text{gul} & \text{dear, sweetie} \\ \gamma \text{An} & \text{concupiscence} \\ \text{jeh} & \text{witchcraft} \\ \text{ka} & \text{harm} \end{array}$

ka harm xeł load, pack xit winter

k'oh footprint, track

me taboo

mak sudden and complete darkness

ni mind

ših breath, energy šin early summer

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\check{s} \Lambda n
          song
\operatorname{sun}
          dull pain
_{\mathrm{teh}}
          bottom of water
          night (with reference to time and computation)
t_{\Lambda Z}
t'ez
          second soul, shadow
-tsin
_{
m tsis}
          crumb
ts'\Lambda s
          hair of a fur
Λł
          poison
          breath, voice
yiz
yΛn
          ground, floor
          second soul after death
-zul
zul
          ghost, empty cartridge casing
-\underline{z}\Lambda l
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There are a few morphologically complex monosyllables. tl'ul "rope" consists of the verb root tl'u "tie" plus the old instrumental suffix -l. Such formations are no longer productive. $xe\underline{s}$ "fish-skin grease container", $tu\underline{s}$ "fish-skin water container", and $k'a\underline{s}$ "quiver, bullet pouch" represent the nouns xe "grease", tu "water", and k'a "blade, arrow, bullet" to which the suffix \underline{s} , a reduced form of "skin", has been added. This is not productive, but is apparently an old process in Athabaskan. White Mountain Apache has an exact cognate to Carrier $tu\underline{s}$ in tus "water container", derived from tu "water".

The distribution of the monosyllables over semantic fields is as follows:

anatomical		89 (28%)
body parts	68~(22%)	
bodily fluids	7 (2%)	
${ m quasi-anatomical}$	6 (2%)	
parts of plants	8 (3%)	
artifacts		60 (19%)
${\it water-related}$	15 (5%)	
other	45 (14%)	
biological		36 (11%)
$\operatorname{mammals}$	7 (2%)	
fish	$7\ (\ 2\%)$	
birds	4 (1%)	
invertebrates	3 (1%)	
plants	15 (5%)	
${ m miscellaneous}$		34 (11%)
kinship		21 (7%)
natural environment		21 (7%)
natural substances		19 (6%)
abstract verbal		12 (4%)
${\it geographical}$		11 (4%)
loans		8 (3%)
people		3 (1%)

In general, the monosyllables do reflect what are probably very old aspects of the culture. By far the most heavily represented semantic field is anatomical terms. Other than the rather diffuse field of artifacts, the next most heavily represented field consists of kinship terms; most of the basic terms in these areas are monosyllables. Similarly, much of the terminology for describing the natural world is monosyllabic. The monosyllabic technological terms are suggestive of a cultural emphasis on water and on trapping; in general they reflect a very old layer of technology.

One artifact in particular calls for comment. This is *?aih* "snowshoes", which in the anthropological literature, have been claimed to have been unknown to Carrier people prior to European contact. This claim is surprising on cultural grounds; surely Carrier people had a use for snowshoes and the technology to make them. Moreover, they cannot have been unaware of their construction and use by neighbouring peoples. The point that I would like to make here is that it is unlikely on linguistic grounds that snowshoes are a recent innovation.

The noun 7aih is an unanalyzable monosyllable and therefore presumptively old. It appears to be cognate to equivalent terms in other Athabaskan languages, e.g. Sekani $7\bar{a}h$, Beaver aah, Kaska ah, Mountain Slavey ah, and Dogrib ah.

What is especially striking is that *?aih* is morphologically irregular. In Carrier there are several sets of possessive prefixes, the choice of which is determined, with only a few exceptions, by the initial segment of the noun stem. In general, nouns beginning with glottal stop behave differently from nouns beginning with other consonants; they take a set of prefixes ending in the vowel /e/. The four sets of prefixes for the Stuart/Trembleur Lake dialect are illustrated below:

1ss-dayi 1p ne-dayi 2s2pn-dayi noh-dayi 3s3pu-davi b₁-dayi da-dayi Ref Obv ya-dayi l-dayi Rec **PlObv** hi-dayi Areal х^wл-dayi Ind ?л-dayi

Class 1 — dayi "chief"

Class 2 — ?usa? "pail"

1s	se-?usa?	1p	neye-?usa?
2s	nye-?usa?	2p	nohye-?usa?
3s	be-?usa?	3p	bлbe-?usa?
Ref	dade-?usa?	Obv	ye-?usa?
Rec	łe-?usa?	PlObv	hiye-?usa?
Areal	x ^w e-?usa?	Ind	?e-?usa?

Class 3 — uzi? "name"

1s	s-uzi?	1p	ney-uzi?
2s	ny-uzi?	2p	noh-uzi?
3s	b-uzi?	3p	bлb-uzi?
Ref	dʌd-uzi?	Obv	y-uzi?
Rec	ł-uzi?	PlObv	hiy-uzi?
Areal	xwnh-uzi?	Ind	?-uzi?

Class 4 — Altas "sister"

1s	s-altas	1p	ney-лłtлs
2s	ny-Ałtas	2p	nohy-ΛłtΛs
3s	b-Ałtas	3p	bab-altas
Ref	$d(\Lambda d)$ - $\Lambda lt\Lambda s$	Obv	y-Altas
Rec	l-nltas	PlObv	hiy-AltAs
Areal	xw-nłtas	Ind	7-Altas

Class 1 consists of the nouns beginning with a consonant other than glottal stop; Class 2 consists of the nouns beginning with glottal stop; Class 3 consists of the vowel-initial nouns. Class 4 contains a handful of irregular nouns slightly different from Class 3. In some dialects there is no distinction between Class 3 and Class 4.

There are two exceptions to the generalization that nouns beginning with glottal stop take Class 2 prefixes, both of which take Class 1 prefixes. One is lat "wife". The other is laih. Thus, we have for example slail "my snowshoes", not *selail. For this reason, it is very unlikely that laih is a recent loan.³

Perhaps surprising is the relatively small amount of monosyllabic biological terminology. Names of organisms and types of organisms make up only 11% of the monosyllables; most names of organisms are polysyllabic and morphologically complex. Even items for which Athabaskan speakers have surely had words for a very long time sometimes are often complex. This can be seen in the Carrier terms for the mammals listed below.

The Mammals

There is another aspect of the possessed forms that seems at first glance to offer an argument for antiquity. This is the fact that the possessed stem is not laih as in the unpossessed form, but lail, with the final /h/ replaced by a glottal stop. This alternation is found in other Carrier nouns, e.g. soh "goose", possessed stem sol and laztih "knife", possessed stem laztil, but has ceased to be productive, probably due to the introduction of numerous non-alternating final /h/s as a result of the sound change by which /x/ in most environments became /h/ around the turn of the 20th century. The fact that "snowshoes" undergoes this now archaic alternation is not, however, clear evidence of the use of the term prior to contact, as it apparently persisted productively post-contact. Not only does it seem to have been rendered opaque only around 1900, but there is one mid-nineteenth century loanword that undergoes the alternation. This is sol mandah "canvas, tarpaulin", possessed stem sol mandal, which is a loan from Spanish sol manta introduced by Mexican pack-train men in the 1860s.

Bat	?nt'az	
Bear, Black	SAS	
Bear, Grizzly	$ ilde{ ext{sas}}$	
Beaver	tsa	
Cariboo	$\mathbf{x}^{ ext{w}}\mathbf{\Lambda} ext{dzih}$	"it scrapes ground"
Chipmunk	$\operatorname{solj}{}_{\Lambda \underline{\mathbf{s}}}$?
Coyote	čantali	"forest dog"
Deer	${ m yests'e}$?
Dog	łi	
Elk	yezih	?
Fisher	čanihčo	"big marten"
Fox	$\operatorname{nang}_{\Lambda Z}$	"it drags (tail)"?
$_{ m Lynx}$	$\mathrm{wa} \mathrm{\underline{s}} \mathrm{i}$	loan from Gitksan
Marmot	${ m d}{ m \Lambda}{ m tni}$	"it makes a sound"
Marten	čanih	?
Mink	${ m te}\check{ m c}{ m as}$?
Moose	${ m d}{ m ani}$?
Moose, Bull	jeyo	?
Moose, Calf	tsiye	"yellow thing" (probably from Sekani)
Moose, Dry Cow	${ m dets'it}$?
Mouse	?лłgлk	?
Muskrat	$\underline{\mathrm{ts}}\mathrm{ek'et}$	stone-?
Otter Packrat	tsis dlunčo	"big dlun"
Porcupine	$d \Lambda \check{c}' \Lambda k^w$	"it is quilled"
Rabbit	goh	-
Sheep	7nsbai	"it is white"
Shrew	${ m dats'}{ m uz}$	"it squeaks"
Skunk	hunliz	"it sprays"
Squirrel	$\operatorname{tsal}{}_{\Lambda}{}{}{}{}{}{}{}{}{}{}{}{}{}{}{}{}{$	"beaver dog"
Squirrel, Flying	${ m ts'}{ m \Lambda n \Lambda lb \Lambda z}$	"it stretches?"
Weasel	nohbai	"white noh "
Wolf	$y_{\Lambda S}$	
Wolverine	nustel	?
$\operatorname{Woodchuck}$	k'ani	?

Other dialects provide additional examples. In the Lhk'acho (Ulkatcho) dialect, "otter" is $n_A l dz u k$, literally "it slides around". Here a descriptive term has apparently replaced the old monosyllable tsis. A particularly striking example is the Lheidli dialect term for "bat" $liyab\ da\ t'ai$. This is literally "devil bird", where liyab "devil", is borrowed from French $le\ diable$. Here a clearly recent descriptive term has replaced the monosyllable used in all other dialects.

It is important to note that even terms for animals with which Carrier people have been familiar for thousands of years are often analyzable. Moreover, even where the terms are not analyzable, there is tremendous variation. It is not the case that culturally ancient organisms are necessarily named by unanalyzable monosyllables.

This point is nicely illustrated by the terms for "porcupine", whose range includes every area in which Athabaskan people have plausibly lived for millenia, from the Arctic to the American Southwest. The Carrier dialects show considerable diversity in the terms for "porcupine".⁴

Carrier Words for "porcupine"

	Nak'albun	Saik'u <u>z</u>	Nadleh	Stelakoh	Cheslatta	Lheidli	Lhk'acho
d∧č'∧k ^w	X	X	X				
dneza?	X	X	X	X			
jats'^n							X
yats'ın					X		
${ m ts'it}$						X	
?ujunih				X			
?лjunih				X			

There is a similar range of terminology when the full range of languages in the family is considered.

Some Athabaskan Words for "porcupine"

Language	Word	Etymology
Ahtna	neghadiye	?
	nuuni	creature
Apache (White Mountain)	dahszíné	it stands up?
Dena'ina (Inland)	nini	creature
(Cook Inlet)	qanchi	?
(Seldovia)	nk'eggi	?
Dogrib	ch'oh	quill
	ts'oh	quill
	ts'ih	quill?/cognate of Lheidli ts'it?
	diedah	?
Hupa	ky'oh	quill
Kaska	dech'ue	it is quilled
Navajo	dahsání	old dah
Sekani	duch'owe	it is quilled
Slavey (Mountain)	ch'ųę	it is quilled
Tahltan	dəč'uə	it is quilled
Witsuwit'en	dic'ikw	it is quilled
	'ugunï	?
	'agunï	?

In sum, the idea that the monosyllabic noun stems reflect an archaic cultural layer is generally borne out. However, the converse is clearly not true; Carrier (and

⁴ The word $d \land neza?$ properly refers to a noble in the clan system; it is applied to porcupines as an epithet since they are regarded as the chiefs of the small animals.

probably Athabaskan languages more generally) frequently uses morphologically complex terms, and not infrequently innovates complex terms, for items that have long been familiar. This tendancy seems to be especially pronounced in the area of biological terminology, perhaps reflecting the exploitation of the rich morphological resources of the language in service of an interest in the behaviour of animals.

References

- Alexis, Theresa, Sam Chingee, and Florence Prince (1996) Tsek'ehne Zaghe' Muk'eh Wujeh-i. Sekani Bilingual Elementary Dictionary. McLeod Lake: McLeod Lake Band.
- Bray, Dorothy (ed.) (1998) Western Apache-English Dictionary: A Communitygenerated Bilingual Dictionary. Tempe, Arizona: Bilingual Press.
- Hargus, Sharon L. (1999) Witsuwit'en Topical Dictionary: Witsuwit'en-English and English-Witsuwit'en. Unpublished draft.
- Kari, James (1990) Ahtna Dictionary. Fairbanks: University of Alaska Press.
- Kari, James (1994) Dictionary of the Dena'ina Athabaskan Language. Vol. I: Top-ical Vocabulary. Fairbanks: Alaska Native Language Center. Draft.
- Kaska Tribal Council (1997) Guzāgi K' 'ūgé' Our Language Book: Nouns. Kaska, Mountain Slavey and Sekani. Whitehorse: Kaska Tribal Council. Two volumes.
- Morice, Adrien-Gabriel (1932) The Carrier Language. Mödling bei Wien, St. Gabriel, Austria: Verlag der Internationalen Zeitschrift "Anthropos".
- Prunet, Jean-François (1990) "The Origin and Interpretation of French Loans in Carrier," *International Journal of American Linguistics* **56**.4.484-502.
- Sapir, Edward (1916) Time Perspective in Aboriginal American Culture: A Study in Method. Ottawa: Department of Mines, Geological Survey. (Anthropological Series, Number 13.) Reprinted in David G. Mandelbaum (ed.) Edward Sapir: Selected Writings in Language, Culture, and Personality. Berkeley: University of California Press. pp. 389-467.
- Saxon, Leslie and Mary Siemens (eds.) (1996) Thicho Yatii Enghth'e: A Dogrib Dictionary. Rae-Edzo, Northwest Territories: Dogrib Divisional Board of Education.
- Young, Robert W. and William Morgan, Sr. (1987) The Navajo Language: a Grammar and Colloquial Dictionary. Revised edition. Albuquerque: University of New Mexico Press.