The Scope of Negation and Modals in Blackfoot, Is it Ambiguous?



University of British Columbia - LING 432 Field Methods Valerie Marshall April 4th 2012

Research Question:

•What is the distribution of the negations *maat*- and *sa*- with circumstantial modals *ohkott* (*able*), *ohk* (should) and *sstsina*' (must)?

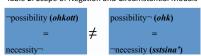
Table 1: Epistemic and Circumstantial Modal Strength

Strength	Epistemic	Circumstantial
Strong necessity	ááhk	sstsina'
Weak necessity	ááhkam	ohk
Possibility	áákama'p	ohkott
(Modified from Reis Silva, 2012 and Louie, unpublished)		

Hypothesis:

•That the scope of negation and circumstantial modals will be reflected in the surface order

Table 2: Scope of Negation and Circumstantial Modals



- •In the case of the possibility modal *ohkott* and the strong necessity modal *sstsino'*, where negation has scope over the modal, we would expect the negation to surface before the modal.
- For the weak necessity modal *ohk*, where the negation does not have scope over the modal, we would expect the negation to surface after the modal.

Predictions:

Table 3: Prediction of possible negation and modal surface order

a) maat-aak-modal-wanist-yi NEG-FUT-modal-do.that-? /ohkott *ohk /sstsina'	b) aak-sa-modal-wanist-yi FUT-NEG-modal-do.that-? / ohkott *ohk / sstsina'	c) maat-aak-sa-modal-wanist-yi NEG-FUT-NEG-modal-do.that-? /ohkott *ohk /sstsina'
d) sa-aak-modal-wanist-yi NEG-FUT-modal-do.that-? *ohkott *osk *sstsina'	e) aak-maat-modal-wanist-yi FUT-NEG-modal-do.that-? *ohkott *stsina'	f) sa-aak-maat-modal-wanist-yi NEG-FUT-NEG-modal-do.that-? *ohkott *ohk *sstsina'
g) aak-modal-maat-wanist-yi FUT-modal-NEG-do.that-? *ohkott https://doi.org/10.1007/j.jup/en/do.th/https://do.th/https://do.th/https://do.th/	h) aak-modal-sa-wanist-yi FUT-modal-NEG-do.that-? *ohkott /ohk *sstsina'	

References

Louie, Meagan. Email communication. March 31 2012 Louie, Meagan. The University of British Columbia. Mapping opposite truth-values: a semantics for Blackfoot noohk- [unpublished] Reis Silva, Amelia. LING 432 Guest Lecture. March 21 2012

Results:

Possibility - ohkott

Positive Form: aakohkottanistsi aak-ohkott-wanist-yi FUT-able-do.that-? "he can do it" Negative Context 1: A boy broke his leg, and when he tries to put any weight on it, it is really painful and he can't do it. He can't run or play outside with his friends. He can't do it

Table 4: Speaker judgments for negative context 1

a) /maataakohkottanistsiwaatsiks maat-aak-ohkott-wanist-yi-waatsiks NEG-FUT-able-do.that-?-NON.AFF 'he can't do it'	b) *aaksaohkottanistsi aaksaa-ohkott-wanist-yi PUT-NEG-able-do.that-? Comment: BB originally accepted, then later rejected it, after checking over a couple elicitations, she rejected it. —bit she thought about it longer than other rejected forms.	c) / maataaksoohkottanistsiwaatsiks maca-ak-sa-ohkott-wanist-yi-waatsiksi NBC-FUT-NBC-ohbe-dot.hat-7-NON.AFF 'he will not be able to do it'
d) *soaakohkottanistsi sa-aak-ohkott-wanist-yi NEG-FUT-able-do.that-?	e) *aakimaatohkottanistsi aak -maat-ohkott-wa nist-yi FUT-NEG-able-do.that-?	f) *soaakimaatohkottanistsi sa-aak-maat-ohkott-wanist-yi NEG-FUT-NEG-able-do.that-?
g) *aakohkottimaatanistsi aak-ohkott-maat-wanist-yi FUT-able-NEG-do.that-?	h) *aakohkottsaanistsi *aak-ohkott-sa-wanist-yi FUT-able-NEG-do.that-?	

•The results from Table 4 support the surface scope hypothesis because the negations in 1a and c precede the modal for which it has scope over

Weak Necessity - ohk

Positive Form: aakohkanistsi aak-ohk-wanist-yi FUT-should-do.that-? "he should do that"

Negative Context 2: Someone told you about a man who has been stealing from corner stores and vandalizing public property and breaking many other laws. You say "he shouldn't do that".

Table 5: Speaker judgments for negative context 2

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a)/ maataakohkanistsiwaatsiks maat-aak-ohk-wanist-yi-waatsiks NEG-FUT-should-do.that-?-NON.AFF 'he should not have done that'	b) / aaksoohkanistsi aak-sa-ohk-wanist-yi FUT-NEC-should-do.that-? 'he shouldn't do that' BB: maybe he's close to you and you feel bad or sympathize. Maybe you are his mother and you hear about it and you say 'l wish he hadn't done that'	c)/ maataaksoohkanistsiwaatsiks maat-aak-sa-ohk-wanist-yi-waatsiksi MEG-PUT-MEG-should-do that-?-NON. 'he should not have done that'
d) *soaakohkanistsi sa-aak-ohk-wanist-yi NEG-FUT-should-do.that-?	e) *aakimaatohkanistsi aak-maat-ohk-wanist-yi FUT-NEG-should-do.that-?	f) *soaakimaatohkanistsi sa-aak-maat-ohk-wanist-yi NEG-FUT-NEG-should-do.that-?
g) *aakohkimaatanistsi aak-ohk-maat-wanist-yi FUT-should-NEG-do.that-?	h) *aakohksaanistsi aak-ohk-sa-wanist-yi FUT-should-NEG-do.that-?	Volunteered: ✓aaksoohkowanistsi aak-sa-ohk-?-wanist-yi FUT-NEG-should-?-do.that-? 'he shouldn't do that' (polite, nice way to say it)

•The results in Table 5 do not support this hypothesis because the negation in a)-c) surfaces before the modal *ohk* when the negation does not have scope over the modal. Furthermore, the scope surface hypothesis might expect form h) to be acceptable in this context

Results (cont):

Strong Necessity - sstsina'

Positive Form: aaksstsina'anistsi aak-sstsina'-wanist-yi FUT-must-do.that-? "he must do that" Negative Context 3: Jenny has work early tomorrow morning so she has to wake up early. But Bill doesn't have any plans for the next day and can sleep in as long as he wants. Bill doesn't have to wake up early. He doesn't have to do it.

Table 6: Speaker judgments for negative context 3

a)/maataaksstsina'anistsi maat-aak-sstsina'-wanist-yi NEG-FUT-must-do.that-? 'he doesn't have to do it/that'	b) *aaksosstsina'anistsi aak-sa-sstsina'-wanist-yi FUT-NEG-must-do.that-?	c) *maataaksosstsina'anistsi maat-aak-sa-sstsina'-wanist-yi-waatsiksi NEG-FUT-NEG-must-do.that-?-NON.AFF 'he doesn't have to do it/that'
d) *soaaksstsina'anistsi sa-aak-sstsina'-wanist-yi NEG-FUT-must-do.that-?	e) *aakimaatsstsina'anistsi aak-maat-sstsina'-wanist-yi FUT-NEG-must-do.that-?	f) *soaakimaatsstsina'anistsi sa-aak-maat-sstsina'-wanist-yi NEG-FUT-NEG-must-do.that-?
g) *aaksstsina'imaatanistsi aak-sstsina'-maat-wanist-yi FUT-must-NEG-do.that-?	h)/aaksstsina'sawanistsi aak-sstsina'-sa-wanist-yi FUT-must-NEC-do.that-? 'he doesn't have to do it/that'	Follow up: i) *aakssostsina'sawanistsi aakssasstsina'sa-wanist-yi FUT-NEG-must -NEG-do.that-? j) *maataaksstsina'sawanistsi maat-aak-sstsina'sa-wanist-yi NEG-BUT-must-NEG-do.that-?

•Form a) in Table 6 supports the surface scope hypothesis, but form h) does not

Conclusion:

•The findings do not support the surface scope hypothesis. It appears that <code>ohkott</code> is following surface scope, <code>ohk</code> is following reverse surface scope, and <code>sstsina</code> surfaces as <code>hoth</code>

•Follow-up elicitations:

- →It would be interesting to see the distribution of a "must not" necessity¬ context, and whether it follows surface scope or reverse surface scope.
- →Get clearer context distinctions for when these forms are used
- → Re-elicited with storyboards
- →Elicit with different person number (ie. 1st, 2nd, 3rd, PL, SG) and various types of verbs (ie. transitive, intransitive, activity, state, accomplishment, etc).
- \rightarrow Elicit modal contexts that vary in their politeness and authority of the speaker.

•Future Research Questions:

- → Investigate the epistemic modals áákama'p (possibility), ááhkam (weak necessity), ááhk (strong necessity), and whether they have similar negation scope surface distribution as their circumstantial modal counterparts
- →Investigate negation stacking with modals. In what contexts is negation stacking permitted and with which modals?

Acknowledgments

•I would like to take this opportunity to thank Lisa Matthewson, Strang Burton, Meagan Louie, and Amelia Reis Silva for your guidance, feedback, and support with this research. And of course, a tremendous thank you to Beatrice Bullshields for sharing your beautiful language and stories with me. Nitsikoohtahsitaki! (Thank you!)