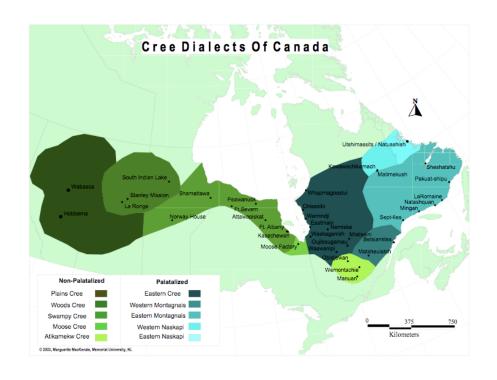


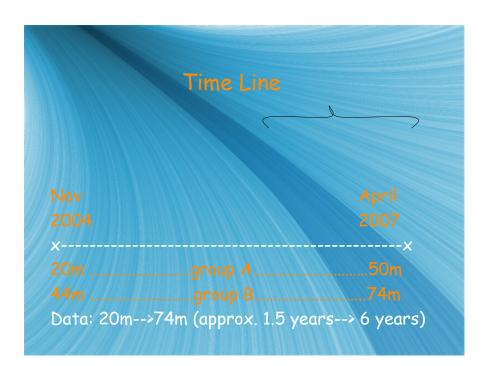
A naturalistic L1 acquisition study, over 30 months, filming at 2-3 week intervals; 6 participants, 3 in each age-cohort.



Community partners

- Cree School Board (esp. Chisasibi): support for project idea; financial support; human resources; office facilities for CCLAS onsite project manager.
- Anjabowa Childcare Centre, Chisasibi: assistance in recruiting participants; allow us to film some of the children at one of their facilities.

(Band Council, Cree Nation of Chisasibi)



PRIVACY

- No shots / video clips of children in the study appear here, or anywhere else. Children referred to by number only.
- Principle funding is from SSHRC; to date (after 2.5 years), the project has cost approximately \$125,000.
 - Labour project manager (filming, translation, data management); students (data processing)
 - Travel site visits to Chisasibi, project manager training in St John's

Talk organization

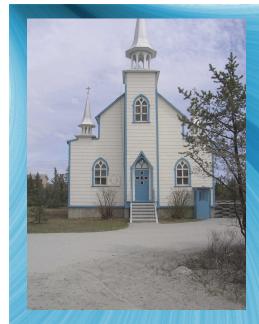
- 1. Project goals
- 2. Why Chisasibi?
- 3. Procedures
- 4. Progress report

1. Goals

- A. Contribute to the literature on L1 acquisition generalizations about L1 acquisition largely based on languages typologically unlike Algonquian.
- B. Contribute to documentation of (East)
 Cree, with literature aimed at community
 and academic audience.
- C. Establish workable protocols for L1 research at a distance.



E. Take first steps toward providing speech community with benchmark data on L1 acquisition process for Cree, for use in domains of Education and Health.



2. Why Chisasibi?

Essential components

- Working relationship already extant in community
- Infrastructure: Cree School Board; Cree curriculum language consultants
- Predominantly Cree-speaking community, (all ages; crucially, still acquired as L1)

- 4,000 population -- large enough that privacy is not difficult to protect.
- Cree as a Language of Instruction Program (CLIP), K to Grade 3. Anjabowa Childcare Centre
- On-site technical support (Cree School Board).

And talking of skilled personnel ...

Darlene Bearskin

- · Video-recording (data-collection).
- · Data compression and transfer to MUN.
- · Family liaison.
- Initial translation of data into English and identification of target forms, where child forms differ (audio files).

3. PROCEDURES

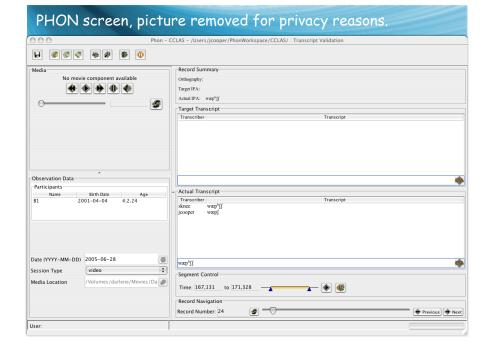
In Chisasibi

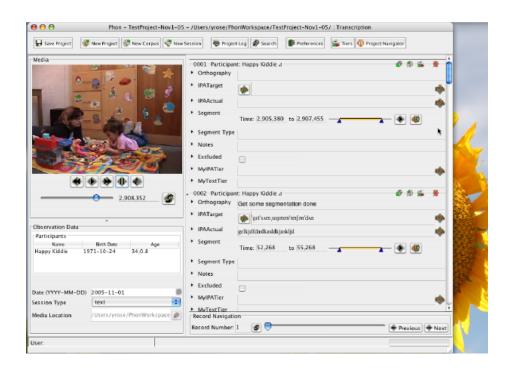
- 1, 60 minute video-recordings are made at 2 week intervals (SONY Camcorder).
- 2. Each movie is compressed, and stored on the project computer (Mac G5).
- Electronic transfer of movies to M.U.N. computer (FTP).

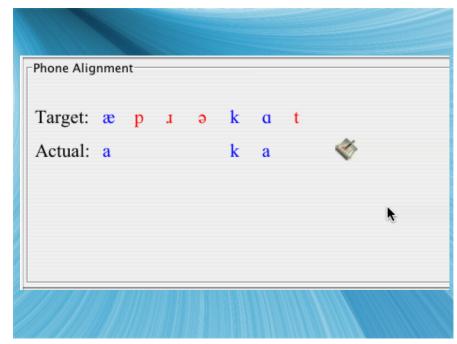
At Memorial ...

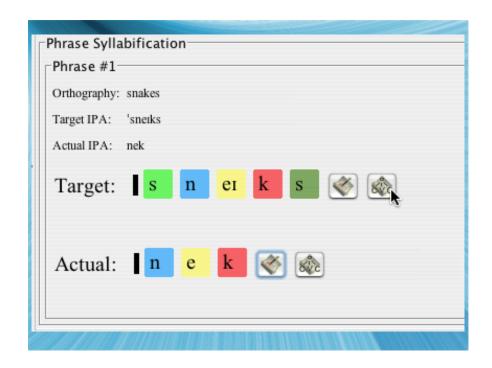
Currently, 2 u/g & 1 MA students are part of our research team

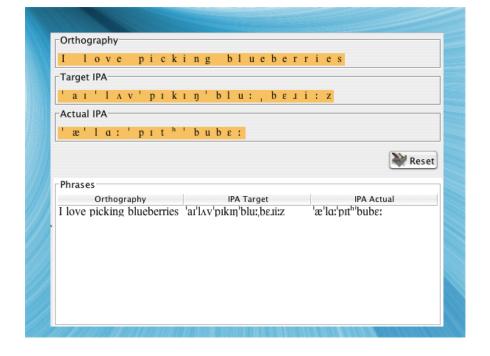
- 4. Import movie files into Phon in order to:
- Segment videos into child utterance segments. Adult interactions are always accessible.
- 8. Double blind (narrow) IPA transcription (supported, where appropriate, by acoustic analysis).













Phon's alignment module will facilitate (probably non-automated) actual and target morpheme alignment

Hypothetical morphemic sequence

Adult: mor mor mor mor

Child: mor **** mor mor ***
 Gloss: gl1 gl2 gl3 gl4 gl5

 We will investigate the possibility of IPA / orthography matching being automated within Phon.

 If feasible: allows CCLAS to contribute to on-line East Cree dictionary (at the Interactive East Cree Language Website: Cree school Board / Marie-Odile Junker, Carleton University). Fields we currently use:

Orthography:

wâpush

IPA target:

 $[wap^h]]$

IPA actual:

[wæp]]

Translation:

"rabbit"

In Chisasibi again ...

- Darlene accesses segmented data in Phon (on-line), listens to segments and provides spoken commentary on each chunk (using Amadeus):
- "B1 said 'mæwmindethakanabæn?a:' which means 'I will hold this, OK?' I said ..." (Where required, Darlene provides adult interaction.)

And then back at MUN ...

- Darlene's sound files are received in our lab: (1) IPA of target (adult) forms
 (allowing comparison with IPA actual) and
 (2) transcription of English translation, entered into a field in Phon
- This info is passed to MM for orthography reconstruction and morphological breakdown.

So, for each movie, we minimally require the following information.

- -- IPA transcriptions (and alignment) of actual (child) forms with target (adult) forms, focus here is on phonology, but also we are interested in alignment of actual and target forms in the domains of morphology and syntax ...
- -- Orthographic transcription
- -- English translation
- -- Morphological analysis of complex words

Some examples from our database: 44 months

[kæmʃætʃ?pmpkomæn]

Kaa mishaach uu muuhkumaan

Kaa+mishaa+ch uu muuhkumaar

Rel be.big CIN.0 this knife

"this is the big knife"

CIN = Conjunct Indicative Neutral

0 = inanimate subject

[bədætsæjægɪnɒtʃ]
pitaatis aay + aakiniwi + ch
potato have + passive + CIN.3
"potatoes ... having to do with"
(talking about potato peeler -- child has
toy potato peeler)

4. What we've done

- Approximately 120 movies (of A1, A2, A3, B1, B2, B3) -- priority is currently on processing A1 and B1 all the way through the stages outlined here.
- Analysis of adult Northern East Cree stress system (Dyck et al. 2006)
- Lay version of Dyck et al. 2006 in preparation for submission to community publication

- Erin Swain, MA student, thesis = comparison of child data with adult data (investigation of phonetic and phonological acquisition of the stress parameters of NE Cree).
- Community information dissemination (public lectures & media)

References

Dyck, C., J. Brittain, and M. MacKenzie. 2006. Northern East Cree Accent. To appear in Proceedings of the 2006 Annual Conference of the Canadian Linguistic Association.

Rose, Y., B. MacWhinney, R. Byrne, G. Hedlund, K. Maddocks, P. O'Brien, and T. Wareham. 2006.
Introducing Phon: a software solution for the study of phonological acquisition. *Proceedings of the 30th Boston University Conference on Language Development*, D. Bamman, T. Magnitskaia and C. Zaller (eds.). Somerville, MA: Cascadilla Press. 489-500.

2005, Nov 16, *The Chisasibi Child Language Acquisition Study*. Cree School Board Education Symposium 2005 (*Languages: Paths to Student Success*), Val d'Or.

2005, April 25. First language acquisition and the Chisasibi Child Language Acquisition Study (CCLAS), (Presentation to Board of Directors of Anjabowa Childcare/Headstart Centre).

Research team presentations to members of Community.

2006, May 24, The Chisasibi Child Language Acquisition Study (CCLAS), (Presentation to members of general public in Chisasibi, Quebec (The Inuit Centre).

2006, May 20, First Language Acquisition and the Chisasibi Child Language Acquisition Study (CCLAS), (Presentation to members of the Cree School Board and Cree-medium trainee teachers, Chisasibi, Quebec (Cree School Board).