



Goal: Make recordings searchable for phonetic analysis

Two Hocank corpora

The Miner Corpus (1974-1975)

- ~28 hours of elicitation sessions with linguist Kenneth Miner
- ~7800 utterances
- Mostly words in isolation
- ~120 verb paradigms (often partial)
- Most speech by Lavina Thorud (Maaxiánažiwíga)
- ~400 utterances by Robinson Johnson (Xíigugá)
- Miner's handwritten field notebooks
- Wisconsin Native American Languages Project, digitized by University of Wisconsin-Milwaukee Libraries
- Annotation project: summer 2017-present

The Fraenkel Corpus (1959)

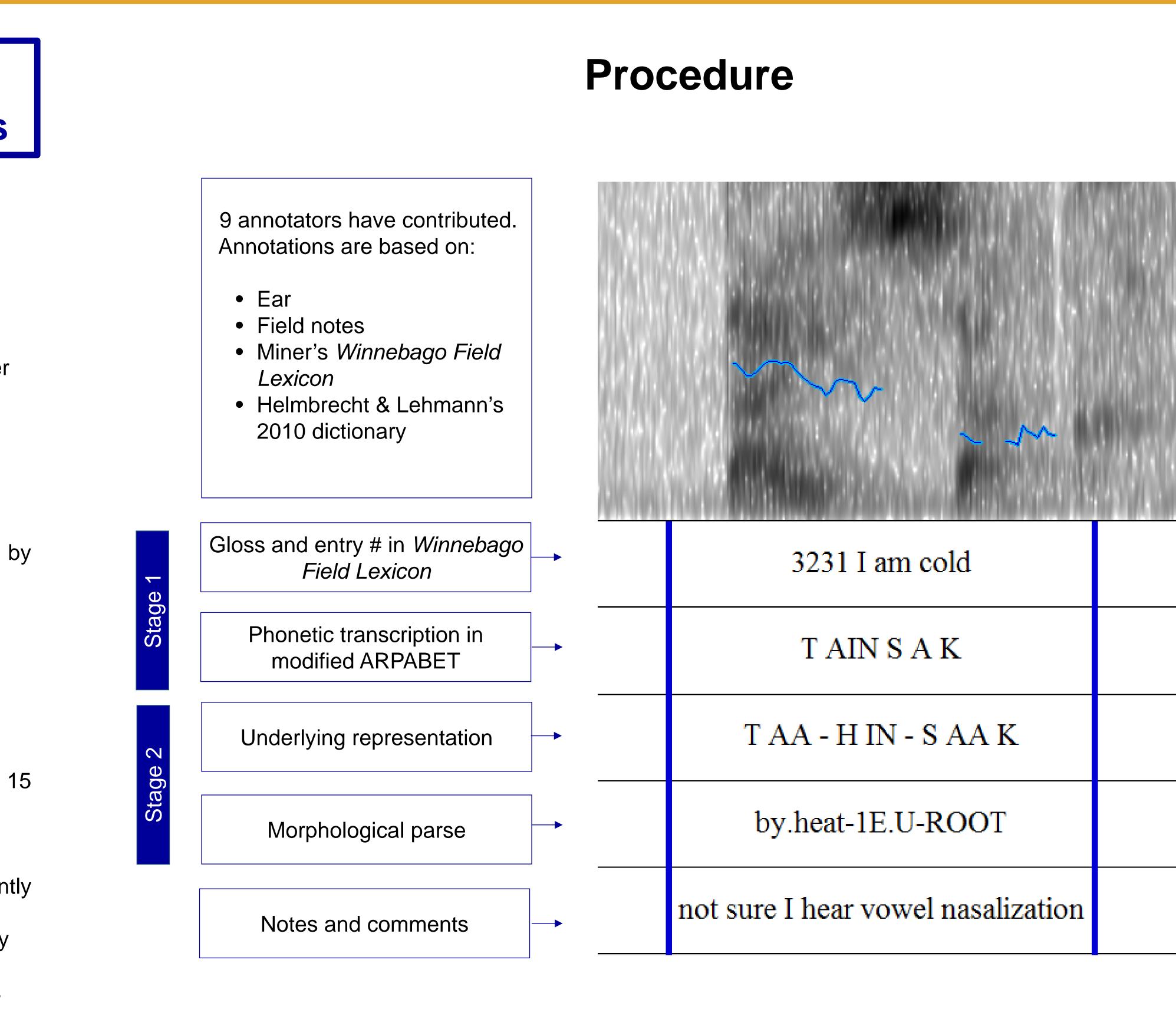
- 24 tapes ~30 minutes each; archived at Indiana U; 15 available digitally
- Recorded in Wisconsin
- Some (not all) accompanied by handwritten field notes
- Little known about linguist Gerd Fraenkel, who apparently never published on Hocank
- Speakers: Chief Daybreak Elias James Smoke, Stella Stacy
- Varied material
- Retelling of stories previously recorded on wax cylinders
- Words and phrases
- Much is apparently a re-elicitation of data from Amelia Susman, Hans Wolff, and Paul Radin
- Annotation project is in early stages

1 lot mant 85-575-F et 1694 lape 20 Livanaka žegeca worux a pa manere that a what he was teller

Sample of Fraenkel's field notes

Annotating archival recordings of Hocank (Winnebago)

Nancy Hall, Elica Sue & Irene Orellana



Issues in Annotation

Uncertain transcriptions

Field notes and references may disagree on:

- Vowel length
- Vowel nasalization
- Location of accent

Morphological parsing is leading us to revise some transcriptions (like adding nasalization in the example above).

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References [1] Helmbrecht, J., & Lehmann, C. (Eds.). (2010). Hocak Teaching Materials, Volume 1: Elements of Grammar/Learner's Dictionary (Vol. 1). SUNY Press. [2] Miner, K. (1979). Dorsey's law in Winnebago-Chiwere and Winnebago accent. IJAL 45(1), 25-33. [3] Susman, A. (1943). The accentual system of Winnebago. Columbia University.

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Why ARPABET?

This makes it easy to search by phonological characteristics, e.g.:

- Syllable weight (relevant to accent)
- Nasalized vowels

ARPABET can be automatically transliterated to IPA.

Ongoing phonetic studies

Phenomenon

Miner 1979 and Susman 1943 report impressionistically that CVCV sequences where V_1 is epenthetic are shorter than other disyllables.

Preliminary findings

This seems to be correct. Lexical VCV sequences (top) tend to be longer than VCV sequences where V_1 is epenthetic (bottom), when matched for context.

Secondary accent on epenthetic Vs?

Phenomenon

Disyllables have final accent. Miner 1979 also transcribes secondary accent on initial epenthetic vowels: /kre/ \rightarrow kèré 'depart returning'.

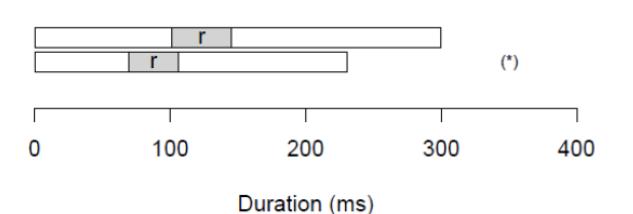
He expresses uncertainty about the secondary accent in a footnote, and omits it in later work.

Preliminary findings

Epenthetic and non-epenthetic initial vowels have similar pitch contours when normalized for duration; we have not found evidence of secondary accent.



Epenthetic V durations



Mean durations of 10 lexical and 5 epenthetic VrV sequences, 2nd and 3rd position in words of 3 light syllables with final stress.

