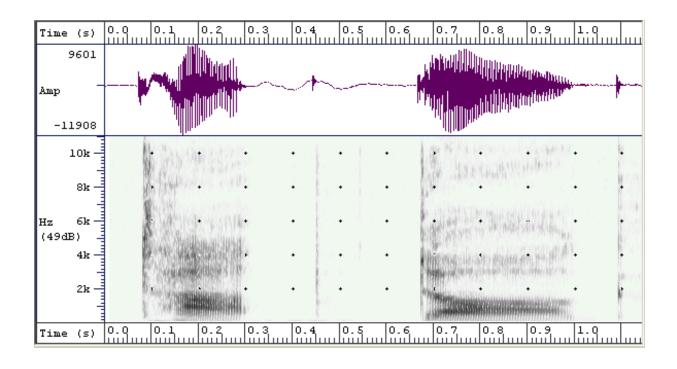
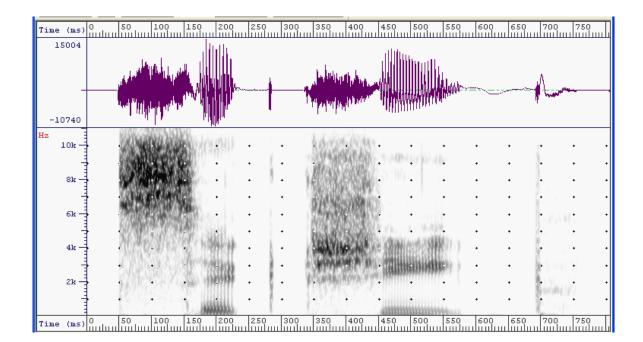
SHS/Ling 303 Assignment 5



- 1. In the waveform and spectrogram above showing the words "top" and "dog," locate the following acoustic landmarks:
 - a. burst and voice onset time for /t/
 - b. aspiration noise for /t/
 - c. first three formants for /a/
 - d. consonant closure (stop gap) and burst for /p/
- e. burst and VOT for /d/
- f. first three formants for /a/
- g. consonant closure and burst for /g/
- 2. Which of the two initial stops above has a longer voice onset time? Why?
- 3. Which of the two words above has the longest vowel duration? Why?



- 4. In the waveform and spectrogram above showing the words "sick" and "sheep," locate the following acoustic landmarks:
 - a. frication noise for /s/
 - b. first three formants for /I/ (should be below 4k Hz)
 - c. burst for /k/
 - d. frication noise for /J/
 - e. first three formants for /i/ (should be below 4k Hz, F2 and F3 are merged)
 - f. burst for /p/
- 5. Describe the difference in the frequency of frication noise for /s/ and /J/. Why does this difference exist?

6. Explain why the first and second formants for i/and I/a differ a little from one another. (Think about tongue height and tongue advancement.)