

SMS 491, 2012, Sounds in the ocean
Assignment 1. Playing with sound.

1. Download free software to analyze sound (Raven Lite: <https://store.birds.cornell.edu/ProductDetails.asp?ProductCode=RAVENLITE>), and install it on your computer.
2. Use it to record two different sounds you make (see tutorial link on our website) and analyze them for frequency content and amplitude. Paste figures of both amplitude (waveform) and spectrogram (sound intensity at different frequencies) into your homework and describe the noise sound you made in each case.
3. Find sound files for 4 different marine organisms on the WWW and download them to your computer. Analyze them with Raven. Qualitatively compare the waveforms and spectrograms of the different organisms (e.g. describe how the sound they produce differ from each other in at least 3 different parameters of your choice (example of a parameter may be continuity of the sound, that is one organism may emit short chirps while another long vocalization)).