The Marinexplore and Cornell University Whale Detection Challenge

Create an algorithm to detect North Atlantic right whale calls from audio recordings, prevent collisions with shipping traffic

$10,000 · 245 teams · 4 years ago

Overview   **Data**   Discussion   Leaderboard   More

Training Data

4 files

- ⊞ sample_submission.cs...
- 🗋 D5470 Cornell Copyri...
- 🗏 small_data_sample_re...
- 🗏 whale_data.zip

whale_data.zip

File size	520.58 MB

Download File

Data Introduction

Everything is packaged in the file "whale_data.zip". "small_data_sample_revised.zip" contains 10 example clips if you want to explore the data format before downloading the full data file. The data consists of 30,000 training samples and 54,503 testing samples. Each candidate is a 2-second .aiff sound clip with a sample rate of 2 kHz. The file "train.csv" gives the labels for the train set. Candidates that contain a right whale call have label=1, otherwise label=0.
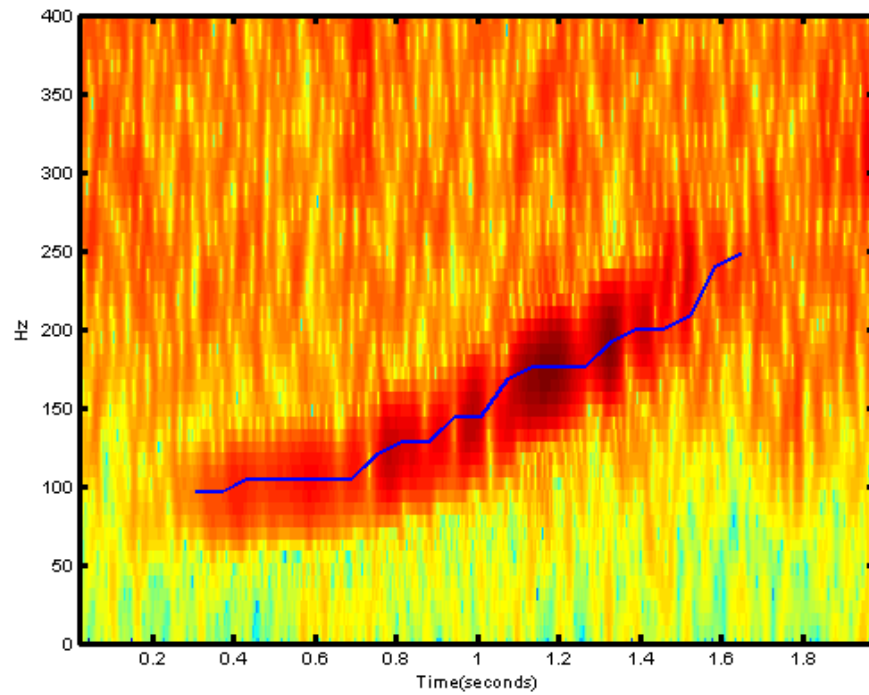
Example of a Clip Containing Right Whale Call

These clips contain any mixture of right whale calls, non-biological noise, or other whale calls. Transforming the time series into the frequency domain via FFT might be useful. For a quick exploration of the clips, you may find Cornell's RavenLite software useful.

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