

Instructions for Using the Annotation Review Software

This software is designed to **view, verify, and modify acoustic annotations** associated with passive acoustic monitoring (PAM) data.

For general instructions on installation, navigation, keyboard shortcuts, and workflow, please refer to the **user manual** included in this GitHub folder.

Default Display Settings

By default, the software displays **low-frequency calls between 15 and 2048 Hz**.

These limits—along with the spectrogram parameters—can easily be modified directly inside the MATLAB code.

To change the frequency range or spectrogram settings, locate the following lines in the MATLAB script (around **line 91**):

```
app.fftwinsize = 4096;  
app.overlap = .7;  
app.MaxFreq = 2048;  
app.MinFreq = 16;
```

These parameters define:

- **FFT window size:** 4096 samples
- **Overlap:** 70%
- **Maximum displayed frequency:** 2048 Hz
- **Minimum displayed frequency:** 16 Hz

You may adjust these values to better fit your species, sampling rate, or specific analysis needs.

Demo Data for Training and Familiarization

To help new users become familiar with the workflow, we have included a **small demonstration dataset** containing annotations for a single WAV file.

The annotation file is available in the GitHub folder under:

Annotations_DEMO_GUI

Because GitHub does not support large audio uploads, the corresponding WAV file must be downloaded from Google Drive:

👉 **Download WAV file:**

<https://drive.google.com/file/d/146bOF18J8Tsx32BRQb3OD9PBwH36lMNF/view?usp=sharing>