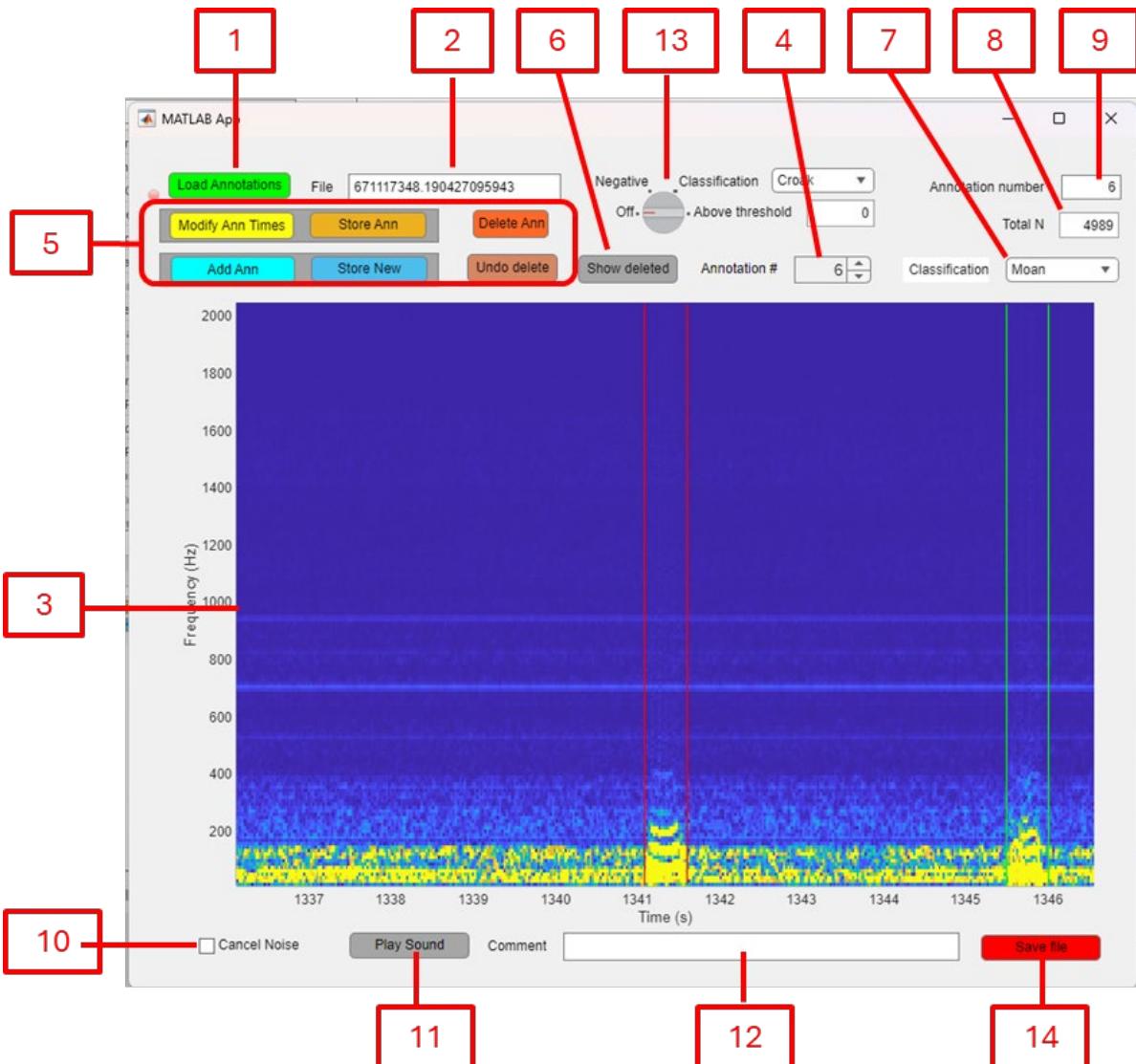


Call verification GUI tool



- 1). Load annotation file.
- 2). Active sound file name.
- 3). Spectrogram displaying active call annotation (red) and neighboring annotations (green)
- 4). Annotation number with buttons for navigating between all relevant annotations determined by turn knob (13)
- 5). Tools for modifying annotations; Modifying start- and end times, adding new annotations, or deleting annotations.
- 6). Button for displaying deleted annotations
- 7). Classification for active call.
- 8). Total number of annotations selected by using turn knob (13)
- 9). Annotation number relative to all annotations regardless of select annotation type.
- 10). Noise filter for removal of constant noise. Subtracts the median value for each horizontal line in the spectrogram.
- 11). Playback of the active annotation. Hotkey “s” to play and “q” for quitting playback.
- 12). Comment associated with active annotation in the annotation file.
- 13). Selecting relevant annotation types.
- 14). Saving current annotations.

Quickstart

1. Open MATLAB. Make sure that everything you need (annotations excel file, GUI, and wav files) are in the same folder.
2. Navigate to the appropriate directory. Open the GUI (VerifyAnnotationsV15a)
3. Click “load annotations (1).” A dialog box opens for selecting annotation file (e.g., Annotations2.xlsx). Another dialog box opens for selecting directory with all the wav files (all sound files must be in **one** folder)
4. The name of the sound file with the first annotation will be displayed in (2) and a spectrogram displaying said annotation will appear (3)
5. Step through the annotations, either using (4) or hotkey (sometimes it takes a couple of seconds to load a new wav file)
 - a. Time spectrogram x-axis shows actual seconds within the file to ease navigation between calls
 - b. Red marking is the active annotation, green marking is another call in the spectrogram
 - c. Annotation number in top right is index of all annotations
6. Use zoom tool at upper right corner of spectrogram as needed, then detoggle before modifying anything (e.g. ann times) using panel (5)
 - a. To change the timing of an annotation, click “Modify Ann Times.” Draw a line from the call’s start to end, then select “Store Ann” to save it. Lines turn yellow if they’re modified, and show the updated times
 - b. If there’s a call that has not been annotated, click “Add Ann.” Select the classification, then click “Store New”
 - c. If there’s something annotated that’s not a real call, select “Delete Ann.” To undo this, select “Undo delete”
 - d. To check which call has been deleted press (6)
7. To change a call’s classification, adjust the dropdown (7) and then click “Store Ann.” The classification box will highlight red if it’s been changed
8. Total number of selected annotations is marked in (8)
9. Annotation number of all annotations is displayed in (9)
10. To apply a horizontal median filter to the spectrogram to remove constant frequency-fixed noise mark box (10)
11. Play Sound (11) and it will play what’s showing in the spectrogram.
12. If there is any comment associated with active annotation it will be shown in (12)
13. Apply filter (13) to look at only negative duration calls, only a certain classification, or only calls above a certain duration threshold. In these cases, set the classification or duration **first**, then toggle to “classification” or “above threshold”
 - a.
14. Click “Save file” (14) to actually modify the annotations file. Make sure to save with a new file name. Next time, load the updated annotations file at the beginning

Hot keys:

- “x” – move to next annotation
- “z” – move to previous annotation
- “s” – play sound
- “d” – stop playback of sound