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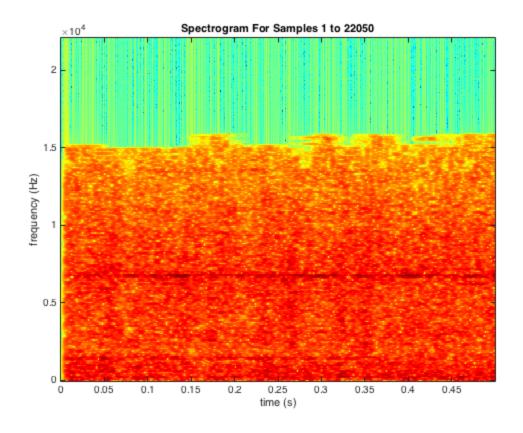
Import data	1
In loop	. 1
This part does OLA, which doesn't work?	

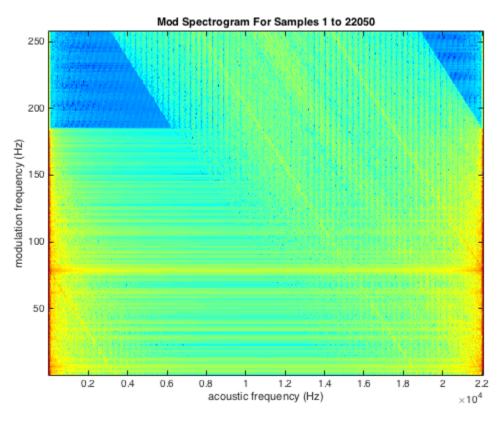
Import data

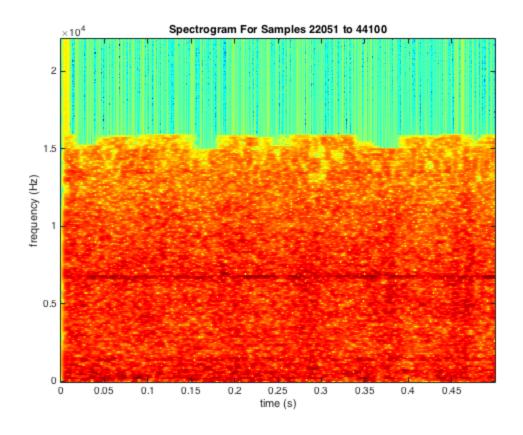
```
[x, fs] = audioread('resources/heli_and_boat_short/heli2_short.wav');
x = mean(x,2);
x = x.';
```

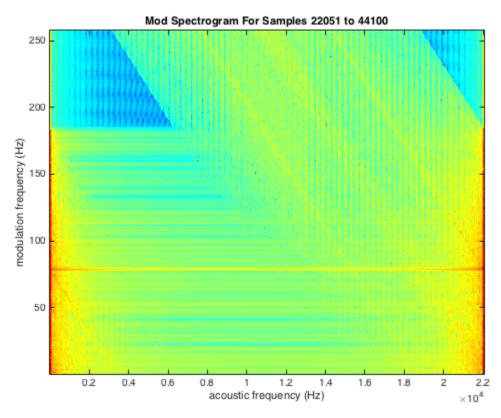
In loop

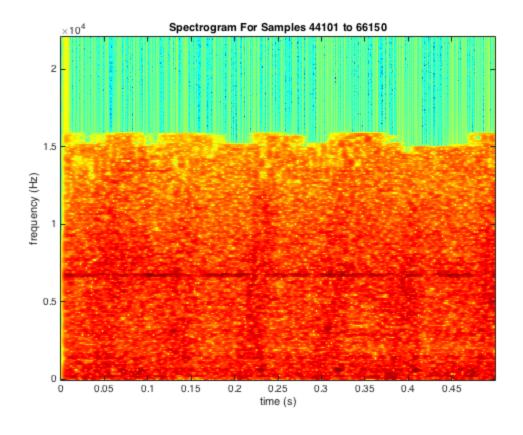
```
nsegments_in = 10; % select number of segments to process
Nw = 512;
segmentlen = fs/2;
xlen = length(x);
nsegments_total = floor(xlen/segmentlen);
nsegments = min(nsegments_in,nsegments_total);
start_pos = 1;
for segmentind = 1:nsegments
    end_pos = start_pos + segmentlen - 1;
    x_segment = x(start_pos:end_pos);
    modspec(x_segment, Nw, fs, start_pos,end_pos);
    start_pos = start_pos + segmentlen;
end
% %% Perform filter bank analysis and plots modulation spectrum
% start_pos = 800000;
% count_frames = 80000;
% x = x(start_pos:start_pos+count_frames);
% x_len = length(x);
% n = (0:x_{en-1});
% Nw = 512; %2048 with overlap of 1/4
% spectrumFBS = FBS_Analysis(x,fs,Nw, 0, 0);
% modspecgram = fft(spectrumFBS,size(spectrumFBS,2),2);
% msg_half = modspecgram(1:ceil(size(spectrumFBS,1)/2) + 1,:); %0 to
 256
% figure;
% imagesc(20*log10(abs(msg_half)));
```

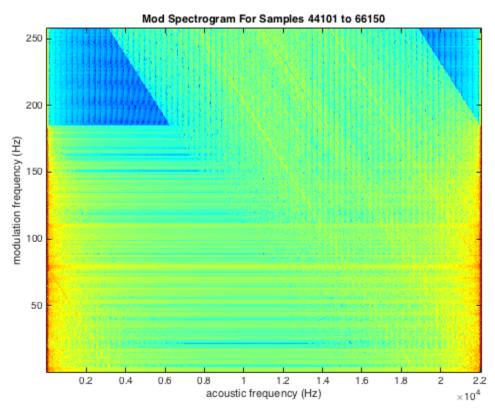


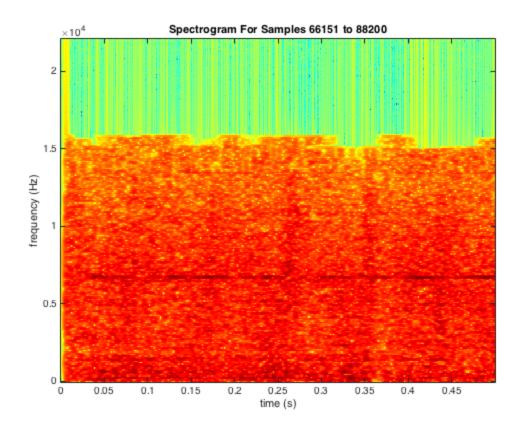


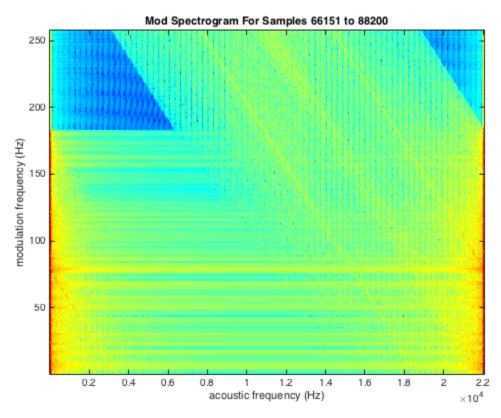


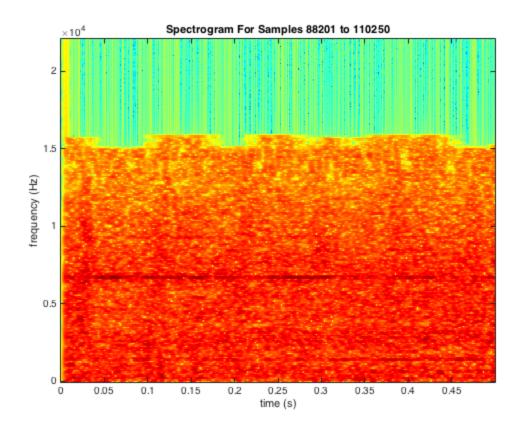


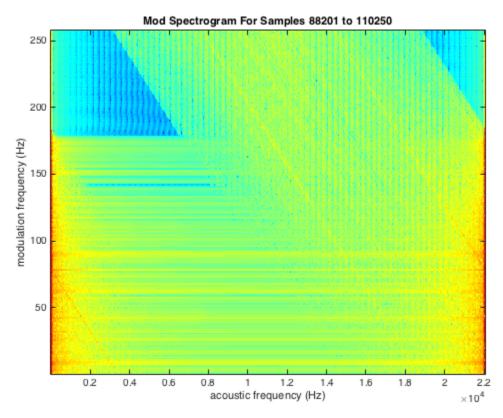


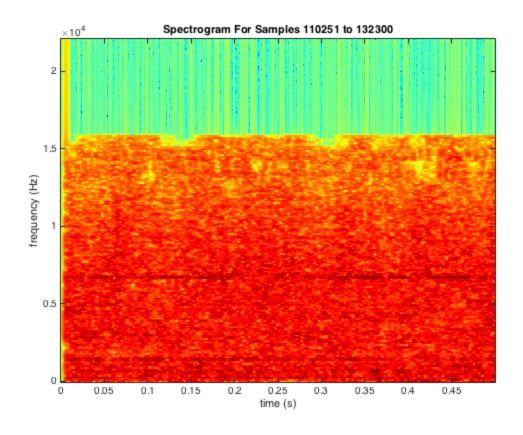


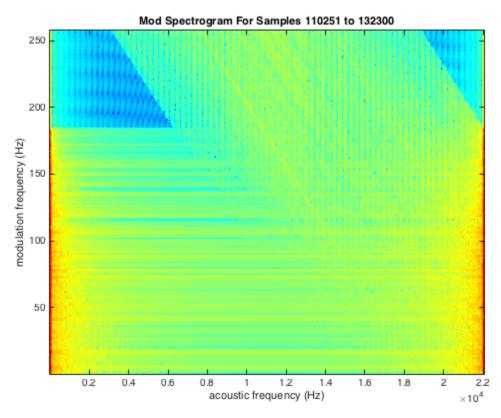


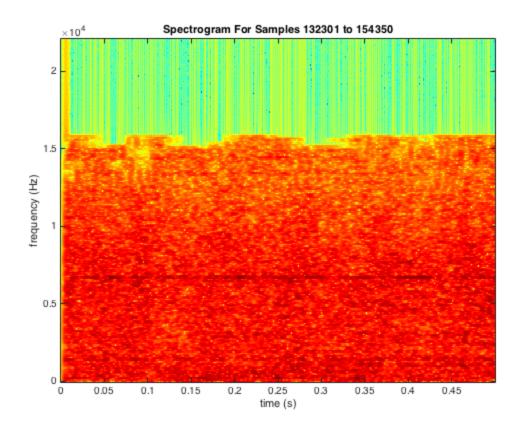


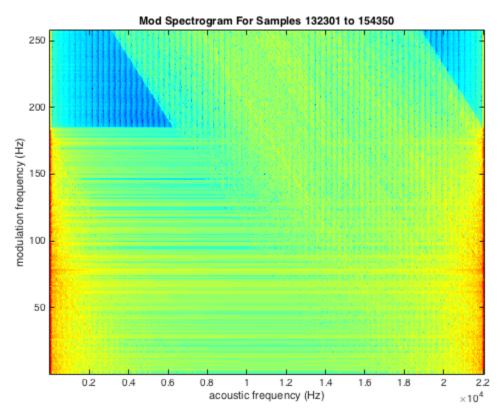


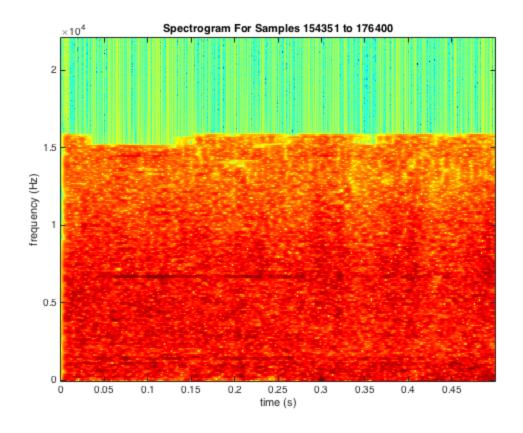


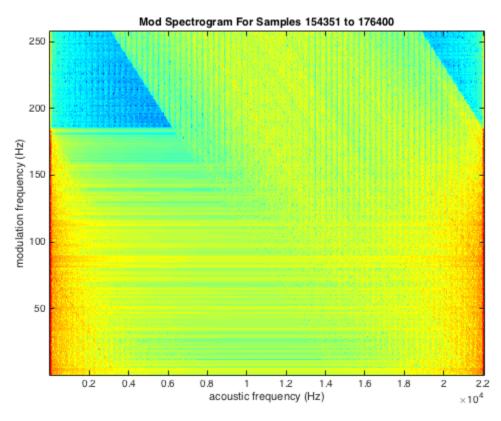


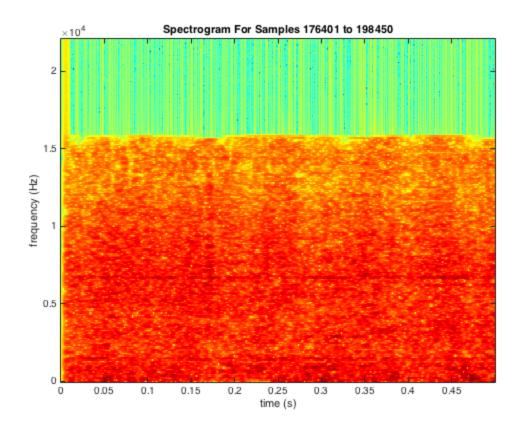


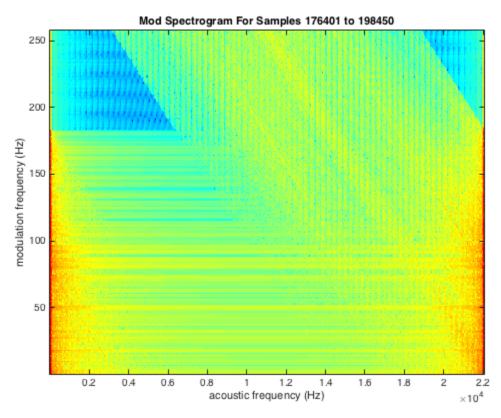


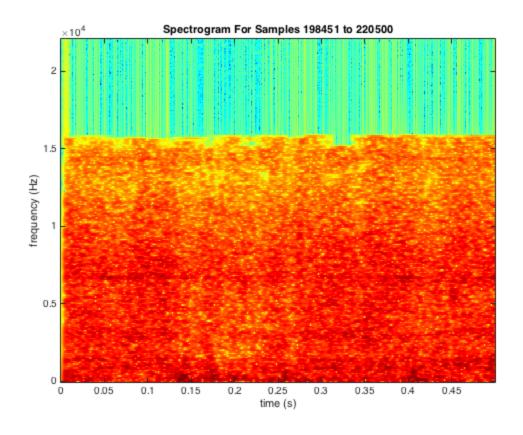


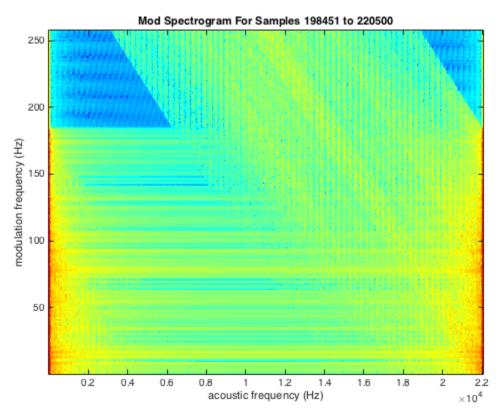












This part does OLA, which doesn't work?

% Perform STFT hop_size = Nw/2; %spectrum = stft(x,2048,256,0,hann(2048)); spectrum = stft(x,Nw,hop_size,0,hamming(Nw)); music = abs(spectrum); sphase = spectrum./(abs(spectrum)+eps); % Finally, plot the positive half of the result figure; f = linspace(0,1,N)*(fs/2); % actual frequency axis in Hz t = n / fs; % actual time axis in seconds imagesc(t,f,20*log(music)); axis xy; colormap(jet); xlabel('time (s)', 'FontName', 'Arial', 'FontSize', 15); ylabel('frequency (Hz)', 'FontName', 'Arial', 'FontSize', 15); title('STFT', 'FontName', 'Arial', 'FontSize', 15);

%% Perform mod specgram modspecgram = fft(spectrum,size(spectrum,2),2); figure; imagesc(20*log10(abs(modspecgram)));

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