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clc
clf
clear all

Fcam      = 20000;
Res1      = [960 1080];
Res       = [480 540];
Fps       = 60;
Mrange    = 500;

M1 = dlmread('Metinggoed1.txt');
M3 = dlmread('Metinggoed3.txt');
M5 = dlmread('Metinggoed5.txt');

t_M1_init = M1(:,1);
t_M3_init = M3(:,1);
t_M5_init = M5(:,1);

Fs_1 = 1/(t_M1_init(2) - t_M1_init(1));
Fs_3 = 1/(t_M3_init(2) - t_M3_init(1));
Fs_5 = 1/(t_M5_init(2) - t_M5_init(1));

I_M1_init = M1(:,2);
I_M3_init = M3(:,2);
I_M5_init = M5(:,2);

tlim1 = [149073 152233];
tlim3 = [318828 321869];
tlim5 = [184266 187844];

t_M1 = t_M1_init(tlim1(1):tlim1(2)) - t_M1_init(tlim1(1));
t_M3 = t_M3_init(tlim3(1):tlim3(2)) - t_M3_init(tlim3(1));
t_M5 = t_M5_init(tlim5(1):tlim5(2)) - t_M5_init(tlim5(1));

I_M1 = I_M1_init(tlim1(1):tlim1(2));
I_M3 = I_M3_init(tlim3(1):tlim3(2));
I_M5 = I_M5_init(tlim5(1):tlim5(2));

maxI_M1 = max(I_M1);

for tt = 1 : length(t_M1)-1
    dI_M1(tt) = Fs_1*(I_M1(tt+1)-I_M1(tt));
end
or = find(abs(dI_M1)>5*10^6);

for nn = or(1):or(2)+1
    if I_M1(nn) == 8
        I_M1(nn) = maxI_M1;
    end
end

vidmaker_sor(I_M1,t_M1,Mrange,Fcam,'meting1_render2.mp4','MPEG-4',Res,Fps)
vidmaker_sor(I_M3,t_M3,Mrange,Fcam,'meting3_render2.mp4','MPEG-4',Res,Fps)
vidmaker_sor(I_M5,t_M5,Mrange,Fcam,'meting5_render2.mp4','MPEG-4',Res,Fps)

%Made for Fluid Physics Experiment "Sound of Rain". TN, University of Twente
%2017

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