%%Instructions and details about Ulyssess annotations and notes

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A. Basic annotation data fields

The basic annotation data fields are defined in "load\_default\_template",

which are first loaded in "load\_notes\_file", which in turn is called by

"pushbutton\_notes\_select\_Callback"

B. Fields associated with notes.

~handles.notes.saved

~handles.notes.readonly

handles.notes.folder\_name;

set(handles.pushbutton\_notes\_new, 'Enable', opt);

set(handles.pushbutton\_notes\_save, 'Enable', opt);

set(handles.pushbutton\_notes\_edit, 'Enable', opt);

set(handles.checkbox\_notes\_show, 'Enable', opt);

set(handles.checkbox\_notes\_delete, 'Enable', opt);

%%% Annotation template, Annotations template

% Defines default fields

%%load\_default\_template

function [Description, Template, edit\_fields] = load\_default\_template()

%edit fields are fields you can edit...

Description = {'Start Time',...

'Author',...

'Pulse or FM?',...

'Call Type',...

'Min Freq (Hz)',...

'Max Freq (Hz)',...

'Duration (s)',...

'Noise SEL (dB re 1 uPa^2-s)',...

'Noise rms (dB re 1 uPa)',...

'Noise peak PSD (dB re 1uPa^2/Hz)',...

'Signal SEL (dB re 1 uPa^2-s)',...

'Signal rms (dB re 1 uPa)',...

'Signal peak PSD (dB re 1uPa^2/Hz)',...

'Signal SNR (rms)', ...

'Signal SNR (dB rms)', ...

'# of pulses',...

'# of harmonics',...

'Modulation (Hz)',...

'Confidence (1-5)',...

'Comments'};

% Default values

Template.start\_time = 0;

Template.author = 'Your name';

Template.sig\_type = 'NA';

Template.call\_type = 'S1';

Template.min\_freq = 0;

Template.max\_freq = 5000;

Template.duration = 10;

Template.noise\_se\_dB = 0;

Template.noise\_rms\_dB = 0;

Template.noise\_peakpsd\_dB = 0;

Template.signal\_se\_dB = 0;

Template.signal\_rms\_dB = 0;

Template.signal\_peakpsd\_dB = 0;

Template.SNR\_rms = 0;

Template.SNR\_rms\_dB = 0;

Template.num\_pulses = 2;

Template.num\_harmonics = -1;

Template.modulation = 0;

Template.confidence = 3;

Template.comments = '';

edit\_fields = fieldnames(Template);

edit\_fields(5:14) = [];

EXAMPLE OF ANNOTATION STRUCTURE IN MATLAB

Your variables are:

Data GUI\_params ans

Data

Data =

Description: {1x20 cell}

Template: [1x1 struct]

Events: [3x1 struct]

Data.Description

ans =

Columns 1 through 9

'Start Time' 'Author' 'Pulse or FM?' 'Call Type' 'Min Freq (Hz)' 'Max Freq (Hz)' 'Duration (s)' [1x27 char] [1x23 char]

Columns 10 through 17

[1x32 char] [1x28 char] [1x24 char] [1x33 char] 'Signal SNR (rms)' 'Signal SNR (dB rms)' '# of pulses' '# of harmonics'

Columns 18 through 20

'Modulation (Hz)' 'Confidence (1-5)' 'Comments'

Data.Template

ans =

start\_time: 0

author: 'Your name'

sig\_type: 'NA'

call\_type: 'S1'

min\_freq: 0

max\_freq: 5000

duration: 10

noise\_se\_dB: 0

noise\_rms\_dB: 0

noise\_peakpsd\_dB: 0

signal\_se\_dB: 0

signal\_rms\_dB: 0

signal\_peakpsd\_dB: 0

SNR\_rms: 0

SNR\_rms\_dB: 0

num\_pulses: 2

num\_harmonics: -1

modulation: 0

confidence: 3

comments: ''

Data.Events

ans =

3x1 <a href="matlab:helpPopup struct" style="font-weight:bold">struct</a> array with fields:

start\_time

author

sig\_type

call\_type

min\_freq

max\_freq

duration

noise\_se\_dB

noise\_rms\_dB

noise\_peakpsd\_dB

signal\_se\_dB

signal\_rms\_dB

signal\_peakpsd\_dB

SNR\_rms

SNR\_rms\_dB

num\_pulses

num\_harmonics

modulation

confidence

comments

Data.Events(1)

ans =

start\_time: 7.3534e+05

author: 'Aaron Thode'

sig\_type: 'Pulse'

call\_type: 'Moo'

min\_freq: 102.5918

max\_freq: 1.0421e+03

duration: 1.1306

noise\_se\_dB: 33.1416

noise\_rms\_dB: 32.6084

noise\_peakpsd\_dB: 53.2359

signal\_se\_dB: 37.5531

signal\_rms\_dB: 37.0198

signal\_peakpsd\_dB: 55.0154

SNR\_rms: 0

SNR\_rms\_dB: '4.4114'

num\_pulses: '10'

num\_harmonics: '-1'

modulation: '0'

confidence: '3'

comments: 'Maybe other'

diary off