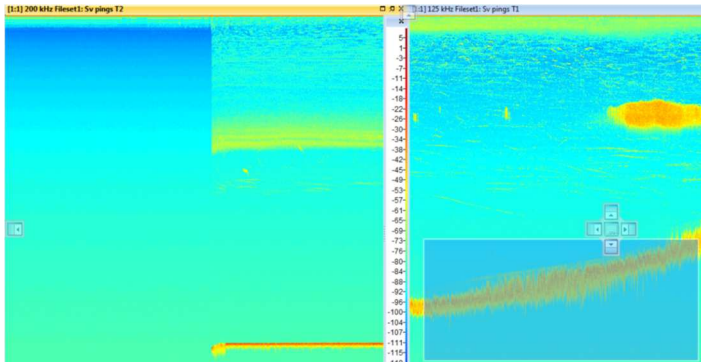
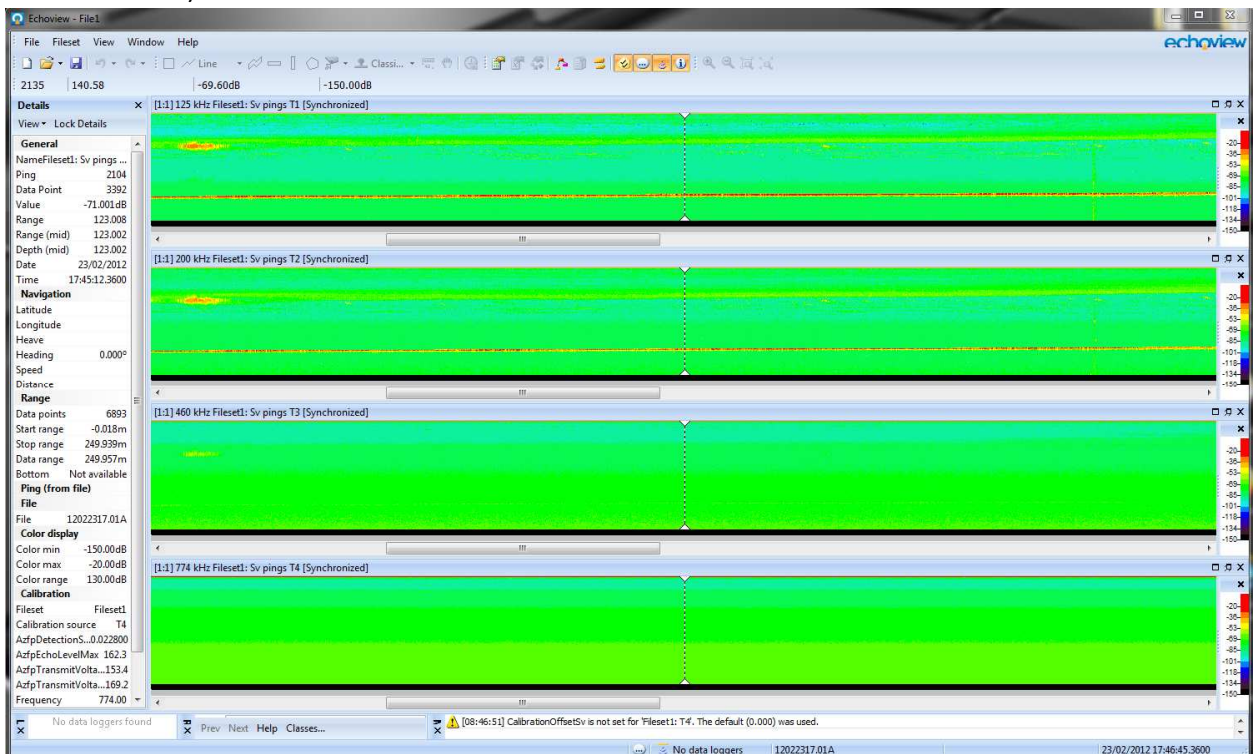


Echoview ver 7.1 Notes

- New
- Filesets +Add
- Sample Data folder: *16-19.01A
- Close Dataflow window and undock Fileset window
- Filesets > select Sv T1 and Echogram and T2-T4
- Arrange windows vertically (slide and select up arrow T1-T3)

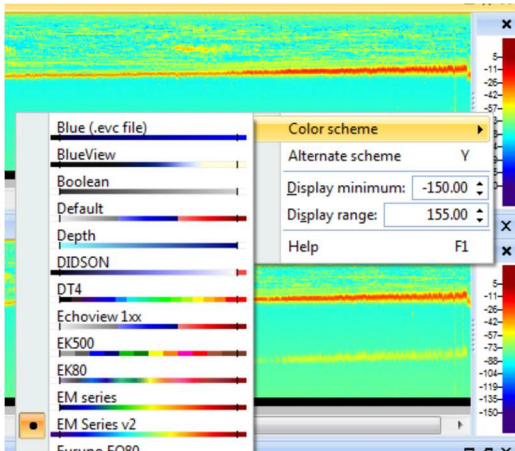


- Menu – Window > Arrange All to distribute
- Right click on T1 window > Echogram Display > Flip vertically for up/down orientation
- Sv T1: Menu – Shift A to autosync, same for T2-T4 windows to sync times (zoom etc are sync'd for all windows)

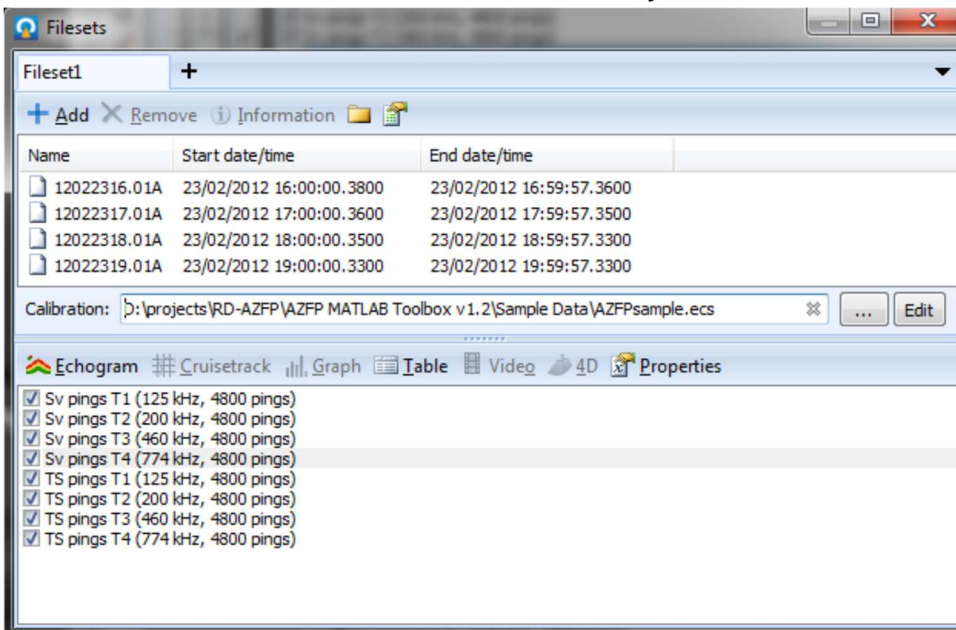


- Sv T1 window: W to zoom out
- Then use window select box to zoom into areas of interest: select box S

- Right click on scale: colour scheme EM series v2, -150 155 for T1-T4



- Calibration file: Filesets window > Calibration > New > *filename.ecs* > edit file



- Use the Matlab code to get an average absorption coefficient from the Output variable
> `mean(Output(1).seaAbs)` etc and also `mean(Output(1).SoundSpeed)`

Edit the *filename.ecs* calibration file (remove the # from the AbsorptionCoefficient lines):

```
#=====#
#                               SOURCECAL SETTINGS                               #
#=====#
```

SourceCal T1

AbsorptionCoefficient = 0.029074 # (decibels per meter)

...

SourceCal T2

AbsorptionCoefficient = 0.043580 # (decibels per meter)

...

SourceCal T3

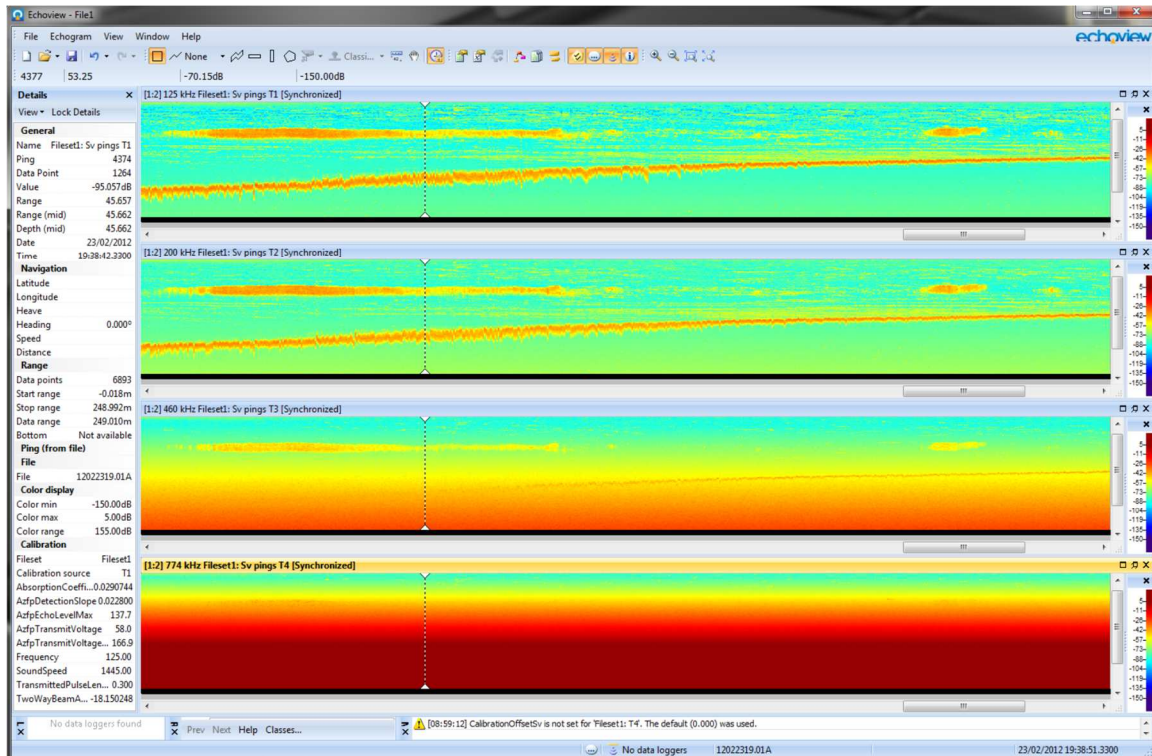
AbsorptionCoefficient = 0.128495 # (decibels per meter)

...

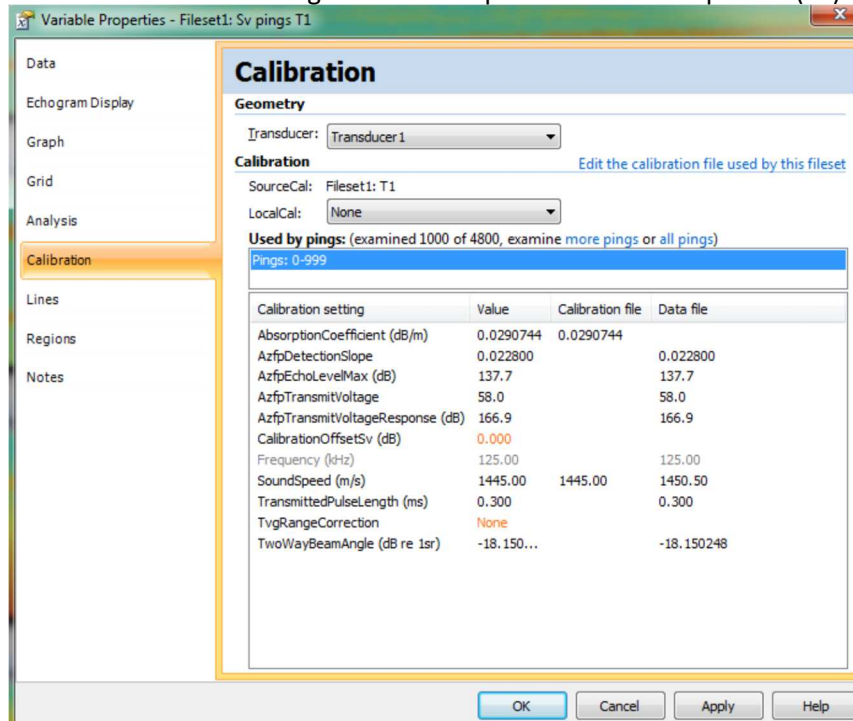
SourceCal T4

AbsorptionCoefficient = 0.316721 # (decibels per meter)

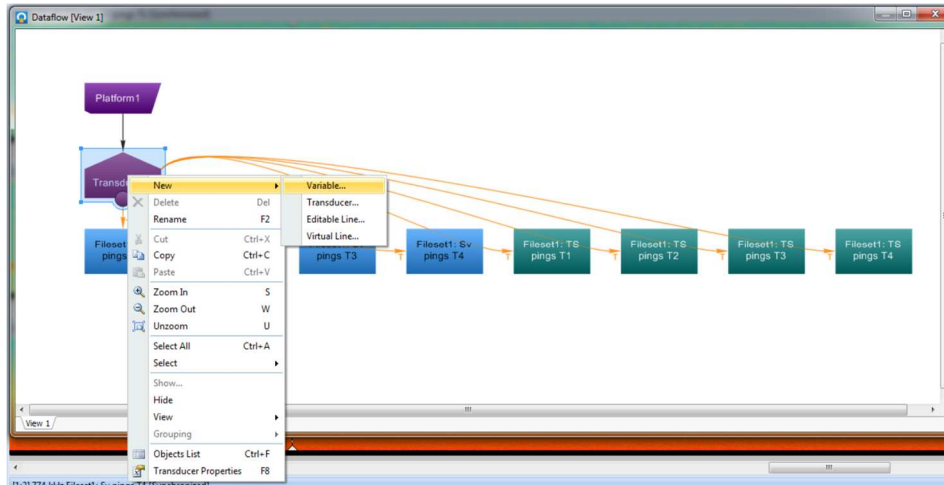
- Save the .ecs file and the Echoview Sv plots are regenerated. They should be similar to the Matlab sample data Sv/TS plots:



- Check the calibrations: Right click on T1 plot > Variable Properties (F8) > Calibration



- Advanced processing:
- Menu > View > Dataflow – undock window
- Transducer > right click > New > variable > Resample by time interval (for example) > T1



- Select Resample > 10s for example, mean

The screenshot shows the 'Variable Properties - Resample by time interval 1' dialog box. The 'Resample' tab is active. The 'Input' section shows 'Ping selection' set to 'All pings in interval' and 'Time interval (seconds)' set to '10.00'. The 'Operation' section shows 'Resampling operation' set to 'Mean'. The 'Output' section shows 'Use ranges from operand 1' selected, with 'Start range (m)' set to '0.0000', 'Stop range (m)' set to '500.0000', and 'Number of datapoints' set to '100'.

- Dataflow right click Resample by time interval 1 then Echogram

