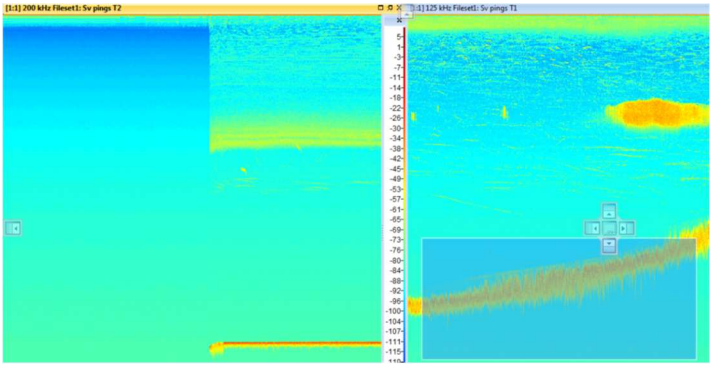
Echoview ver 7.1 Notes

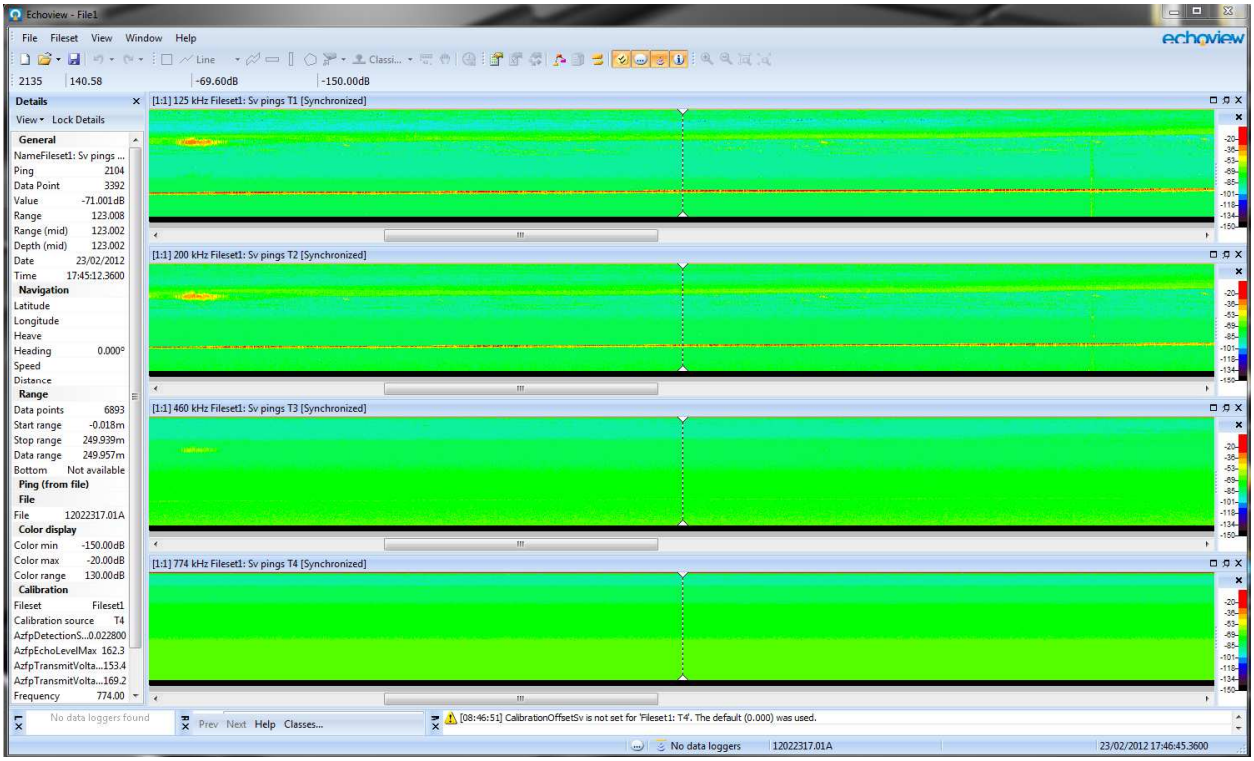
- New
- Filesets +Add
- Sample Data folder: *16-19.01A
- Close Dataflow window and undock Fileset window

- Filesets > select Sv T1 and Echogram and T2-T4
- Arrange windows vertically (slide and select up arrow T1-T3)



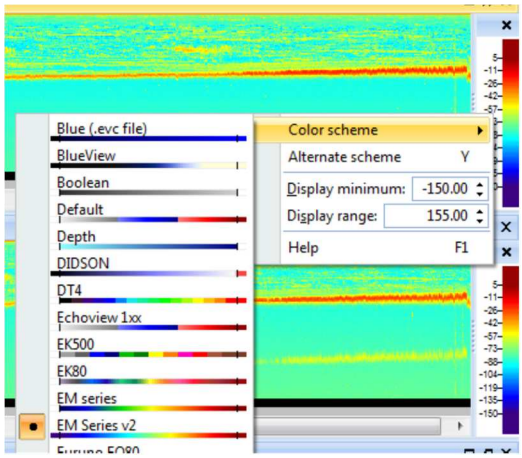
- Menu – Window > Arrange All to distribute
- Right click on T1 window > Echogram Display > Flip vertically for up/down orientation

- Sv T1: Menu – Shift A to autosync, same for T2-T4 windows to sync times (zoom etc are sync'd for all windows)

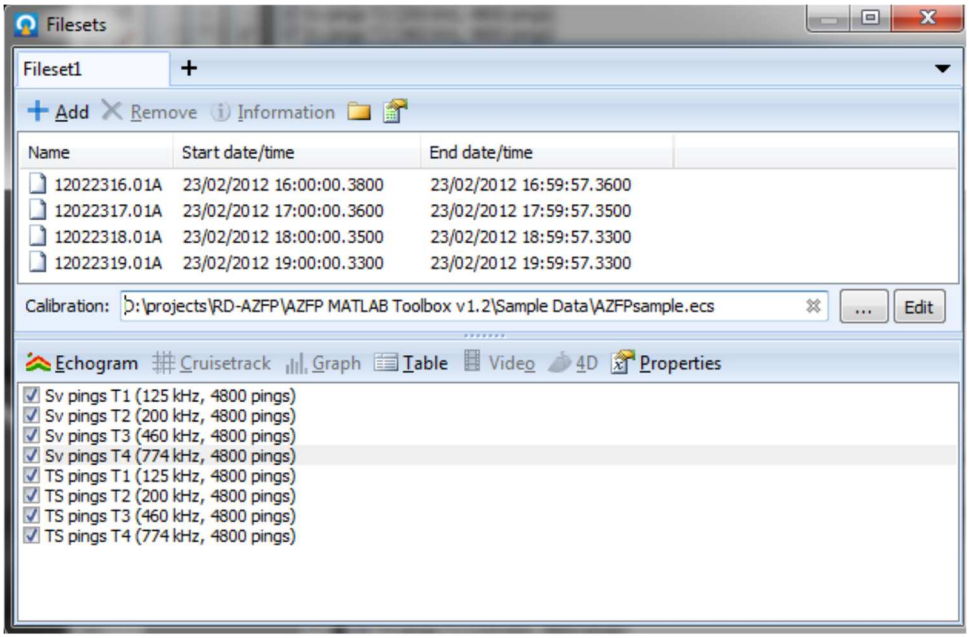


- Sv T1 window: W to zoom out
- Then use window select box to zoom into areas of interest: select box S

- 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

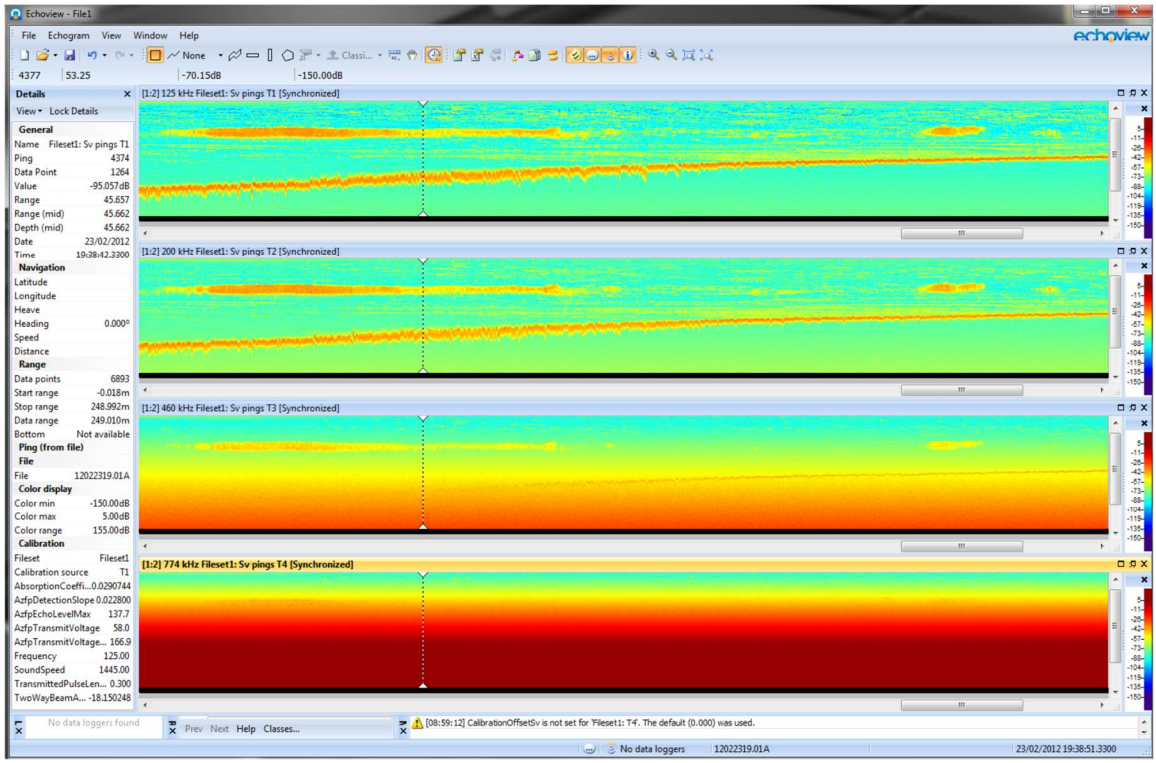
AbsorptionCoefficient = 0.128495 # (decibels per meter)

…

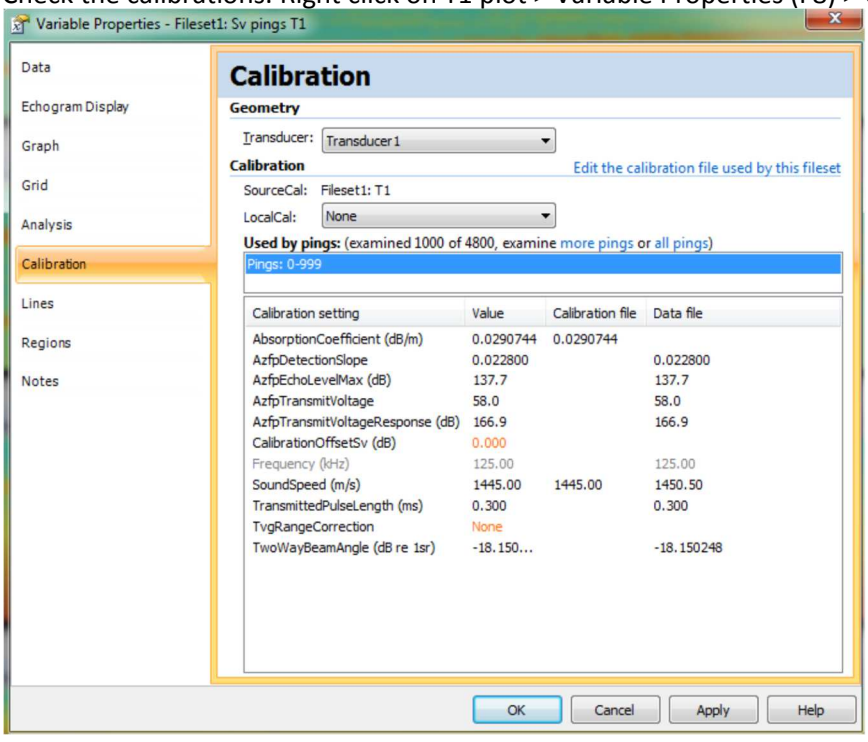
SourceCal T4

AbsorptionCoefficient = 0.316721 # (decibels per meter)

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

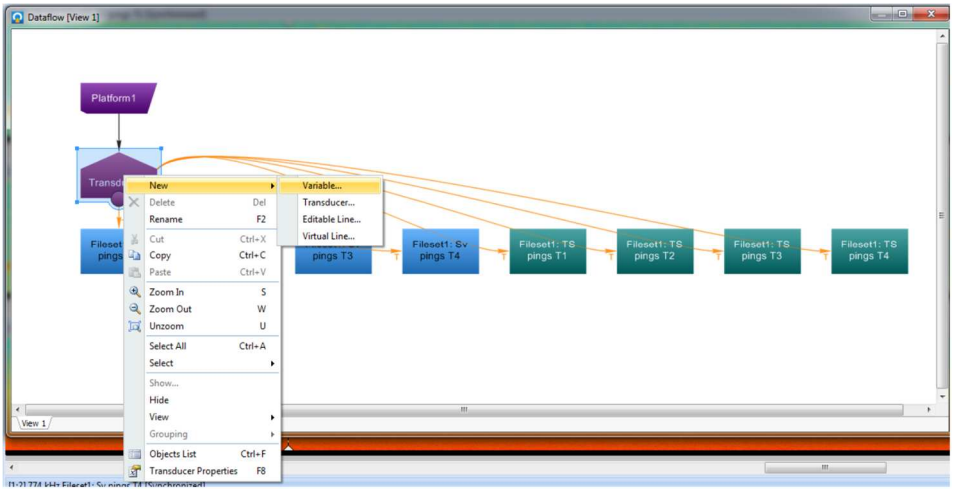


- Check the calibrations: Right click on T1 plot > Variable Properties (F8) > Calibration

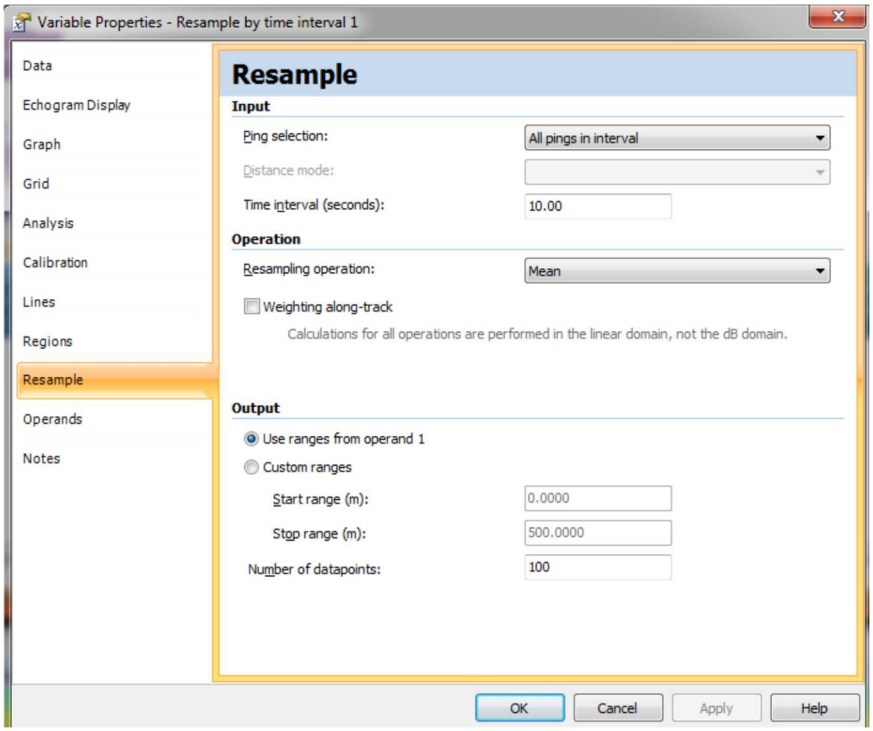


- Advanced processing:

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



- Select Resample > 10s for example, mean



- Dataflow right click Resample by time interval 1 then Echogram