Beaufort Sea 2019 Data 23Mar2020

a = 00:00-4:00

b = 4:00-8:00

c= 8:00-12:00

d=12:00-16:00

e=16:00-20:00

f=20:00-24:00

1. Bring in files

2. Create new calibration file

Change salinity, temp, depth based on CTD casts. Change sound speed based on new enviro parameters (can calculate in Echoview)

If more than 1 CTD casts for the take, average values for each, and then average those to get 1 value

3. Change vert offset to 6 under transducer properties-this will based on platform, it is 6m for Frosti

4. Add filters to raw data for each transducer:

a. Background noise removal-change vertical overlap to 100

b. Transient noise removal-change noise sample replacement to percent

c. Impulse noise removal-Set noise sample replacement value to mean

d. Attenuated signal removal-change replacement data to percentile

5. Open echograms from attenuated filter

6. Add topline-add new editable line, give fixed depth=10m (per wade)

Click visible on all, and span

7. Edit topline using line tool, click and push L to change line

8. use rectangle tool to define regions of bad data

9. Add bottomline-add new editable line

Pick from current variable prop-best bottom candidate

Use backstep, choose between -.5 to -1

Start depth-make sure below topline ex: if topline is at 10, start depth=11

Span gaps, visible on all echograms

If topline and bottomline come together, highlight as bad data

10. edit bottom line

10. for each transducer at attenuated data, R click, go to analysis and exclude above topline and below bottom line

11. R click- new variable-Processed data

Change grid-bins echogram

Use GPS distance, check start with first ping, interval=0.25nm, show depth-from water surface, separation=3m

12. Export integration by cell---this takes forever!

Create quick scatterplot of Sv values to check for outliers

Wideband

Frosti-D20190814-T022746.raw

Frosti-D20190814-T022850.raw-Frosti-D20190814-T041316.raw