Bottom Temperature for the Gulf of Alaska from the trawl data (updated 4/3/2015)

This is a folder that contains plots of bottom temperature in the Gulf of Alaska. These plots are derived from two datasets. The first is derived from the AFSC trawl data (“goa\_trawl\_final\_albers+temp.csv”), and generated by the script “Temperature Map create.r”. This script uses GAMs to generate a spatial field of temperature for the whole of GoA.

To make the plots in “Temperature plots.pdf” I projected the temperature field to the points on the GoA grid. This data can be found in “goa\_projection\_points+temp.csv”.

To check if these fitted objects agreed with other estimates of temperature, Ben Williams gave me the ROMS output for the Shelikof area and I compared the summertime average temperature (between May and August) at the deepest available station (between 20 and 300 m) with the projected temperature from the GAM model. Code for this is available in 2D plots and maps are presented in “Compare Trawl and ROMS Temperature.pdf”. I have not posted the ROMS data or the code for making this comparison, but the ROMS data is available from Ben Williams and the code is called “Compare ROMS and trawl temp.r” and is available from OLE. The ROMS data is ~2.3 GB.