

MAST 467/667: Introduction to Polar Oceanography (Fall 2021)
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Workshop/Homework-12: Time Average of Spatial Average of Tmax below 100-m

Data: Ocean Melts Greenland (OMG) at <https://omg.jpl.nasa.gov/portal/>

Introduction. We are more than ready for scientific work. The next step will be to use our bin average profile data of potential temperature, absolute salinity, and potential density to estimate the potential temperature maximum of the Atlantic waters below 100-m depth as an annual average for all years 2016-21.

Goal. Using loops and conditional data assignments within R or MatLab

Assignment:

1_Average the $T_{max}(x,y,t)$ for a specific year “t” that you estimated from each station at location (x,y) to get $T_{max_avg}(t)$

2_Repeat the above for years to describe the variation of this spatial average of Tmax from 2016 through 2021.