

Metadata S8

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Exploring controls on the timing of the phytoplankton bloom in western Baffin Bay, Canadian Arctic

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- Description of:

Data S8: Model output generated using CGRF (Smith et al., 2014, <https://doi.org/10.1002/qj.2194>). For this study, data was selected for the location of the Qikiqtarjuaq sea ice camp 2016 (67.4797°N, -63.7895°E) and for the year 2016.

The outputs were used as forcing fields for MITgcm. The code that generated the file 1D_GDPS_qsw_y2016.nc is not publicly available.

- File:
 - **1D_GDPS_qsw_y2016.nc** is model output for 2016. The value of the variable at the Qikiqtarjuaq location is at indices (j=1, i=1) meaning centre of grid point. Variables:
 - **qsw**: hourly downwelling shortwave radiation just above surface in energy units ($E_s(z=0^+, SW)$, in $W\ m^{-2}$).