Project: **1142**

Project title: **Nunataryuk WP8**

Principal investigator: **Victor Brovkin**

Report period: **2022-11-01 to 2023-10-31**

The modelling work at MPI-M within the Nunataryuk project (EU Grant No. 773421) was basically finished within the previous reporting period (2021-11-01 to 2022-10-31).

DKRZ resources for the current period were only requested for the case that the preparation of further papers together with our external partners would require additional runs, e.g. for sensitivity studies. However, this has not been the case, and therefore no computing resources has been used on the DKRZ project bm1142.

The Nunataryuk project terminates at 2023-10-31. Scientific work is still ongoing to produce additional papers, but since this is outside the project period, no more computing resources can be requested for the project. Therefore no further resources will be requested to the DKRZ project bm1142 for the period 2023-11-01 to 2024-10-31.

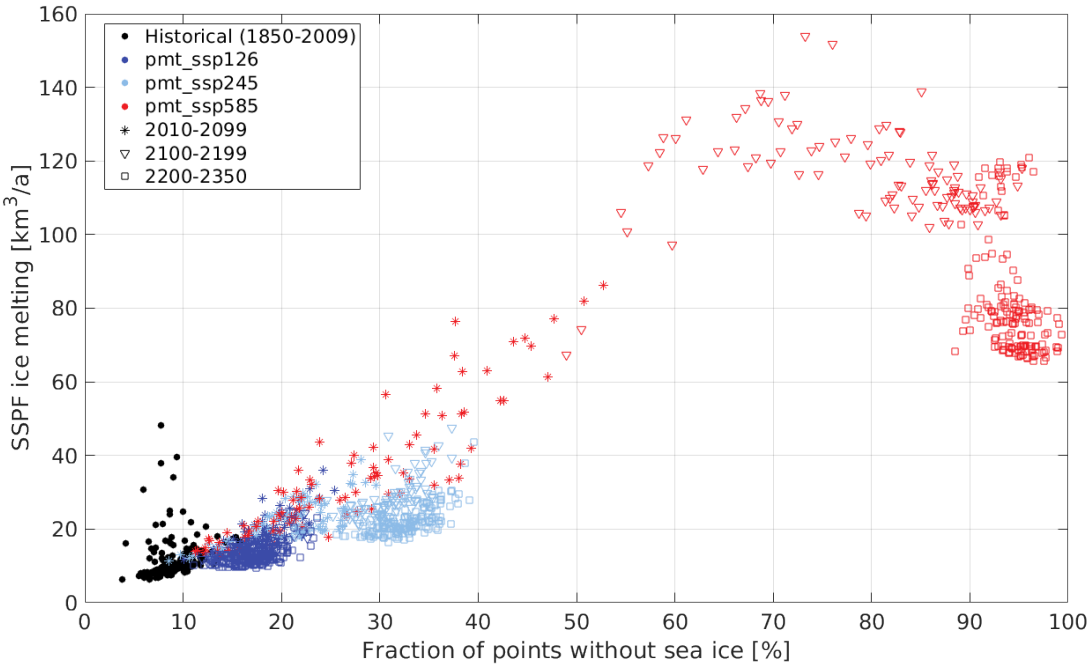

Fig. 1: Subsea permafrost (SSPF) ice melting as function of points without sea ice for different climate scenarios (colors) and time periods (symbols). From Wilkenskjeld et. al (2022).

References:

Wilkenskjeld, S., Miesner, F., Overduin, P.P, Puglini, M. and Brovkin, V.: Strong Increase of Thawing of Subsea Permafrost in the 22nd Century Caused by Anthropogenic Climate Change, The Cryosphere, 16, 3., 1057-1069, DOI; 10.5194/tc-16-1057-2022, 2022.