

## **RV MARIA S. MERIAN – MSM110 „ECOTIP”**

06. - 29.08.2022, Reykjavik - Reykjavik

**3<sup>rd</sup> Weekly Report** (15. - 21.08.2022)



The main focus of cruise MSM110 is the detailed sampling of three East Greenlandic fjord systems that (ideally) cover different climatic, topo- and geographic as well as ecosystem conditions. Sampling will be as comprehensive as possible in the water column, sediments and with sediment traps and is planned for 24 hours per station. Typically, the first activities will be acoustic measurements of topography and sediment structure at the station and determining the location for trap deployment. At the beginning of week 2 of MSM110, we began this in Ardencaple Fjord and sampled the third and outer station here on August 8.

After finishing this station, we set out on the approximately half-day trip to the entrance to Dove Bight. The cruise was accompanied by more wind and a snowstorm, so that some snow actually accumulated on the ship. However, the weather conditions proved favorable for us and the wind had driven the ice out of the entrance to Dove Bight so that we could easily get into the bay and to the stations at the head of the bay. This had looked somewhat hopeless when we left Reykjavik.

In the late evening of August 16 we carried out a CTD station on the shelf in front of Dove Bight, before we reached the first station in Dove Bight on the 17<sup>th</sup> in the morning. The trip there had taken a little longer than originally planned, because of the precaution in place to the narwhals, which so far have remained invisible to us, only a maximum speed of 5kn was allowed. In the Dove Bight, which was partly characterized by drifting ice, we then conducted two all-day permanent stations from August 17 to 19.

After completing the last station in Dove Bight, we then headed south again for about 36 hours, into Kong Oskar Fjord, where we started our first permanent station early in the morning of August 21. The Dove Bight saw us off with a late halfwaypoint party in gorgeous weather, we continued this steam route in beautiful weather under the Greenland coast, while the scientific part of the crew could use the time to catch back a bit their breath quite well.

Greetings on behalf of all cruise participants,

Helmuth Thomas

(Helmholtz-Zentrum Hereon)



*Southern Part of the Dove Bight during evening sun (Picture: Helmuth Thomas)*