



FS Maria S. Merian

Reise MSM-64

27.05.-24.06.2017

Southampton – Galway – St. John's



5. Weekly report

19.06.-23.06.2017

The last week of cruise *MSM-64* kept us busy with deploying the remaining PIES along 47°N. These were equipped with an additional currentmeter. From Flemish Cap we headed east until we deployed the final PIES at 39°30'W. On Monday, 19.06.2017, we installed the mooring BM-24 at the rise of Flemish Cap. This mooring shall capture variations in the hydrographic properties of the deep overflow water masses in the western boundary current system and their respective current strength. On Wednesday, 21.06.2017, we deployed mooring BM-22. This shall capture the properties of the boundary current in its core and focuses on the shallow to deep components of the North Atlantic Deep Water. Visibility during deployment work was heavily decreased due to dense fog.

The fog remained a steady companion during the remaining part of the cruise. After finishing work east of Flemish Cap, we crossed its shallow top and continued station work in the Flemish Pass. With a sill depth of only 1200m this acts as a shortcut for the shallow deep water components. We finish a last CTD section and subsequently recovered and redeployed mooring BM-25.

Now the real work start with evaluating all the recorded data. This will keep us busy over the coming months. But before that we need to pack and clean everything. We cordially thank captain Björn Maaß and his entire crew for the hospitality onboard and the great cooperation during the field work. Due to comfortable sea states and high transit velocities we are able to enter the harbour of St. John's a few hours earlier than expected.

On behalf of all cruise participants

Dagmar Kieke

