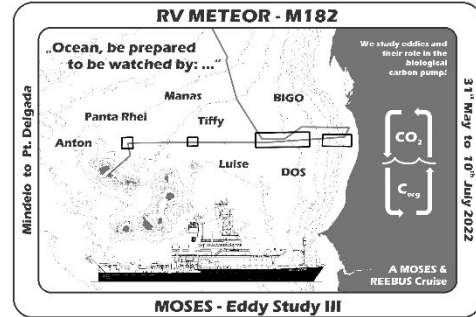


RV METEOR – M182

31.05. – 10.07.2022, Mindelo – Pt. Delgada

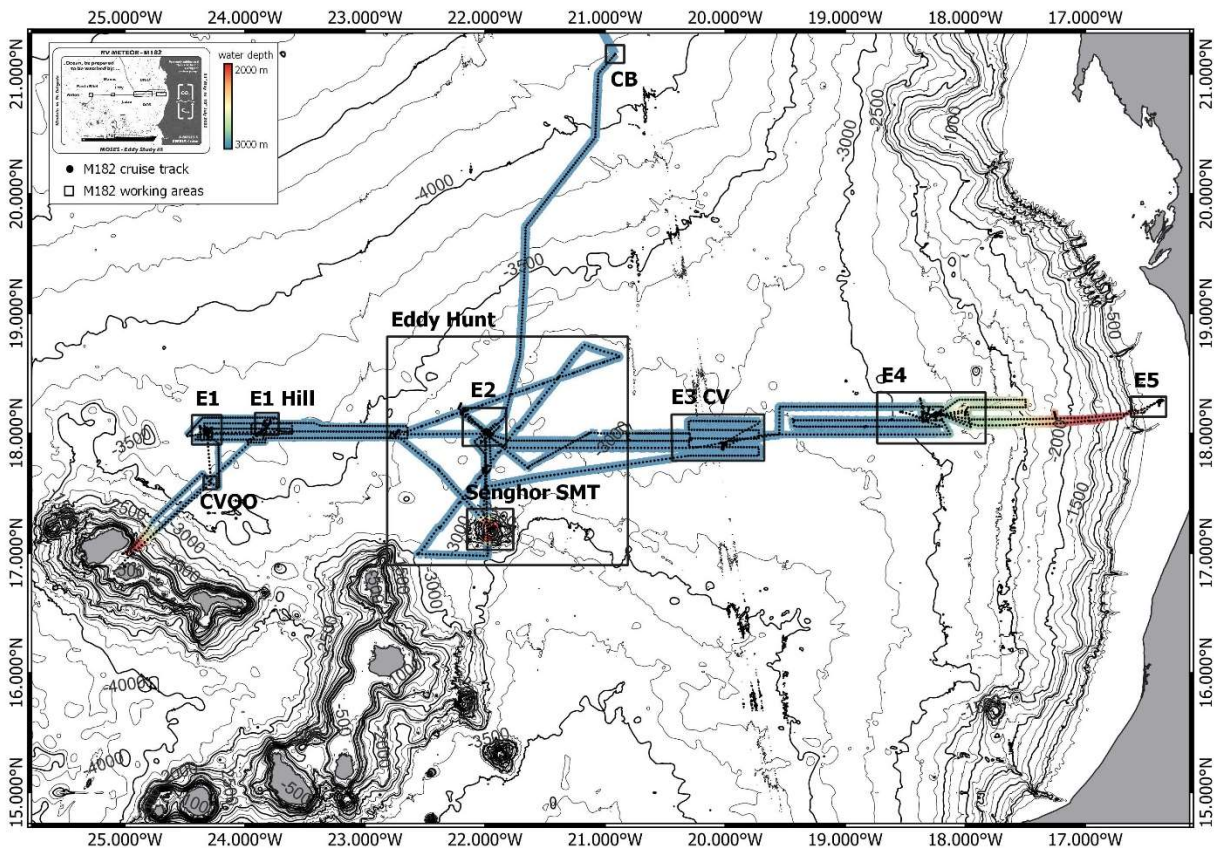
6th Weekly Report

04. – 10.07.2022



On the morning of 04th July the AUV Tiffany finishes its last mission of this voyage and as soon as it was brought on deck we set off for Cape Blanc.

On the next day we reach our last station of the cruise in the morning. Cape Blanc is a long-term station established in 1988 by the University of Bremen to monitor the long- and short-term changes of particle fluxes in the Mauritanian upwelling zone.



The working area of the M182 exit from CVGO in the south to Cape Blanc in the north.

The water depth at Cape Blanc is about 4200 m. Here the CTD was lowered to a water depth of 3000 m as the last water sampling for biogeochemical and microbiological analyses during our cruise.

After that the sediment surface was sampled again with the multicorer and a last 4.41 m long sediment core was taken by gravity corer. The next stop was Ponta Delgada on the Azores, which we reach after 4 days of transit.

On the way the weather improves and in contrast to the rest of the voyage the sea becomes so calm that the LARS (Launch and Recovery System) of the AUV can already be loaded into its container and most of the equipment can be stapled on pallets for a quick lifting on land. Contrary to the original forecast, we made faster progress and arrived Ponta Delgada in the evening of July 9. Shortly before the harbour a school of dolphins crosses our path and gives us a great cruise final.

In total we had 186 stations on the trip and sailed 4617 nmi. Despite some technical challenges the trip went very smooth and concentrated and we are very satisfied with our data. Now, on 9th July at 15:05 all equipment is stowed in the containers and will be sent back to Kiel.

We would like to thank the entire crew of the FS METEOR for this very successful cruise.

With the very best regards from aboard

Mareike Kampmeier & Jens Greinert

GEOMAR Helmholtz Centre for Ocean Research Kiel