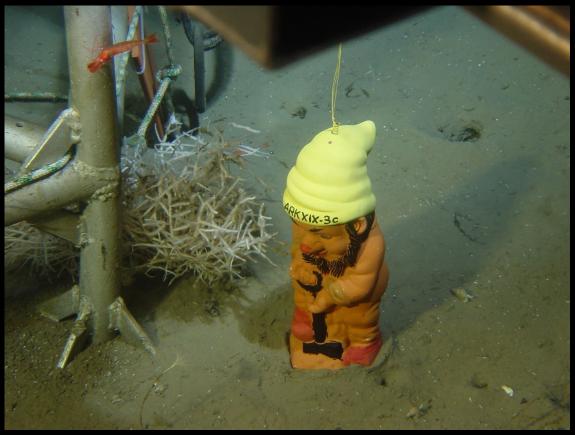
Polarstern PS 143

Frank and Ronnie in front of the German research vessel Polarstern – before the cruise to the Fram Strait where AWI a quarter of a century ago set up a long-term marine ecology observatory.

Start June 6 to July 8



POLARSTER



Hausgarten

The observatory – called Hausgarten – serves to record and monitor the effects of ongoing largescale changes on the marine ecosystem. AWI researchers installed a garden gnome with selfdeprecating intent. With an international team including 6 HADAL members Polarstern is now on its way to continue the "gardening work"

@ AWI Deep-Sea Research Group

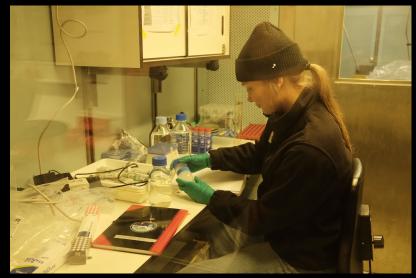
Position of Polarstern on July 14



@ AWI Deep-Sea Research Group



Starting up the work!



@ Yen-Ting

Lisbeth preparing solutions before her experiment starts!

water from the CTD

Wenjie collecting

@ R. Glud

Peter labelling vials for experiments



First cores on deck – now the real work starts



@ Yen-Ting





@ Yen-Ting

Lisbeth and Axel inspecting the sediment cores – are they OK?

Lab-work!

Lisbeth in the cold container – but where is Yick???





@ Yen-Ting

Marta with her first sediment – to be analyzed for methylated mercury when back in the lab in Braunsweig - Germany!

Happiness – despite a torn ligament!



On Friday 14 Ronnie ruptured his ligament in the right arm, in trying to save sediment from falling out of a core!

But thanks to the doctor Petra on board who laid his arm in plaster – he can stay on board – and supervise the young scientists more than do the physical work.

He will need an operation as soon as he is back in Denmark.

Preparing the profiling lander



@ Yen-Ting

@Marta Pérez-Rodríguez

@ Yen-Ting

Axel and Frank testing equipment before deployment!

And in it came!



@ Yen-Ting

Now the lander will be deployed at the sea bottom at the Molloy Deep (5500m) for several days measuring in situ oxygen profiles



Heading west – and meeting the ice!



@ Yen-Ting

Sediment being sampled!



Lisbeth and Ronnie – taking out subcores for sulphate reduction

@ Yen-Ting



@ Yen-Ting



@ Yen-Ting

Apart from sulphate reduction Yick is sampling for nematode abundance

Lab work in the cold container.



@Marta Pérez-Rodríguez



@ Peter Stief

Peter – doing experiments with diatoms in small vials. They will be pressurized – to better understand what is happening to the bacteria under pressure





@ Yen-Ting

Marta and Peter sharing the space!

Notice the pressure vessels in the back! They can rotate mimicking the aggregates falling through the water column.

Working situations.



@ R. Glud

Peter – cutting small sub-core





@ Yen-Ting

Wenjie – enjoying the scenery in a break – and hoping to se a polar bear come by.

Yick – sorting nematodes in microscope

Footprints in the snow......





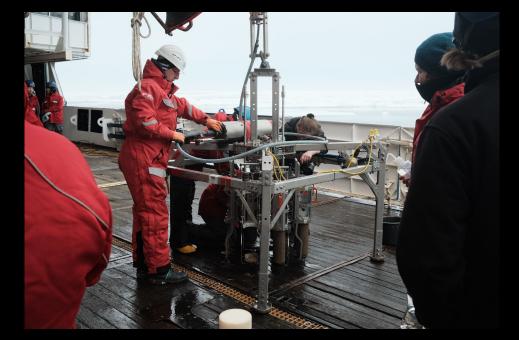
Curious polar bear watching us!



More precious sediment!



Lisbeth and Yen-Ting working in the cold room





Retrieving lander



@ Wenjie Xiao



@ Wenjie Xiao

The profiling lander retrieved from Molloy Deep – Frank and Ronnie inspecting the data – YES – 40 oxygen profiles measured at 5500 m depht





Happy "boys" cutting sediment core!

Wenjie, Yen-Ting and Yick sampling sediment for further analysis back home.

Wenjie filtrating water for lipid analysis



@ Lisbeth Fürst-Sørensen