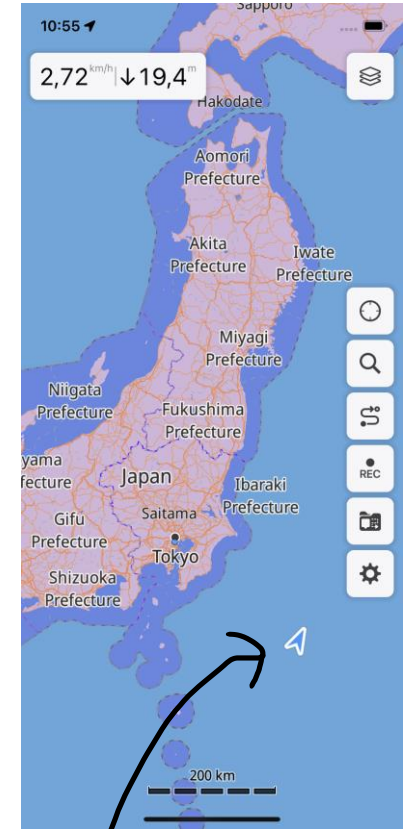


# Umitaka Maru expedition April 2023



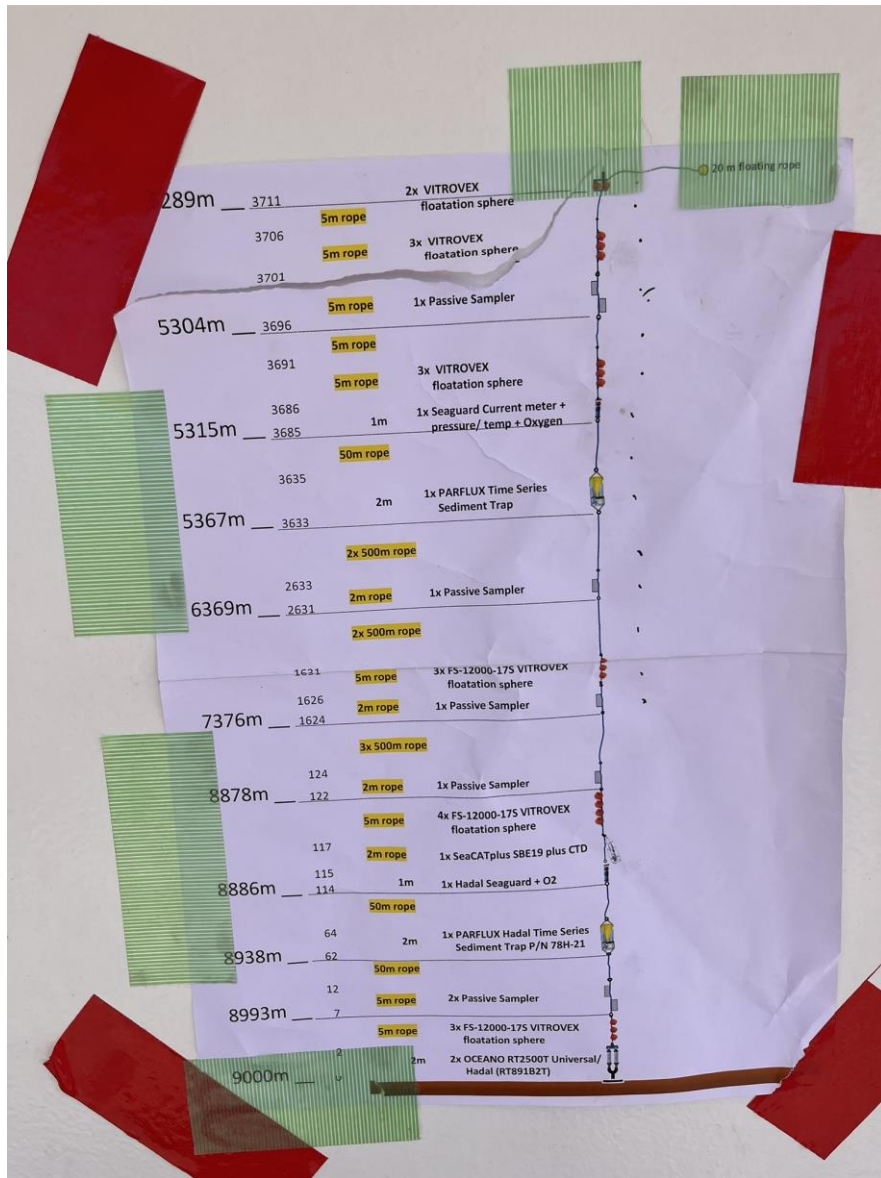
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Here you can see where the mooring has been deployed!

The plan for all the different equipment on the mooring string – now hanging in the water from 5289 m to 9000 m



© Haruno Hirano (Museum of Marine Science, Tokyo University of Marine Science and Technology)



© Kazumasa Oguri

Steaming out to the station!



© Kazumasa Oguri

All equipment has been stored at TUMSAT, Japan – now finally it can be moved to the harbour– and loaded onto the Umitaka Maru.



© Kazumasa Oguri



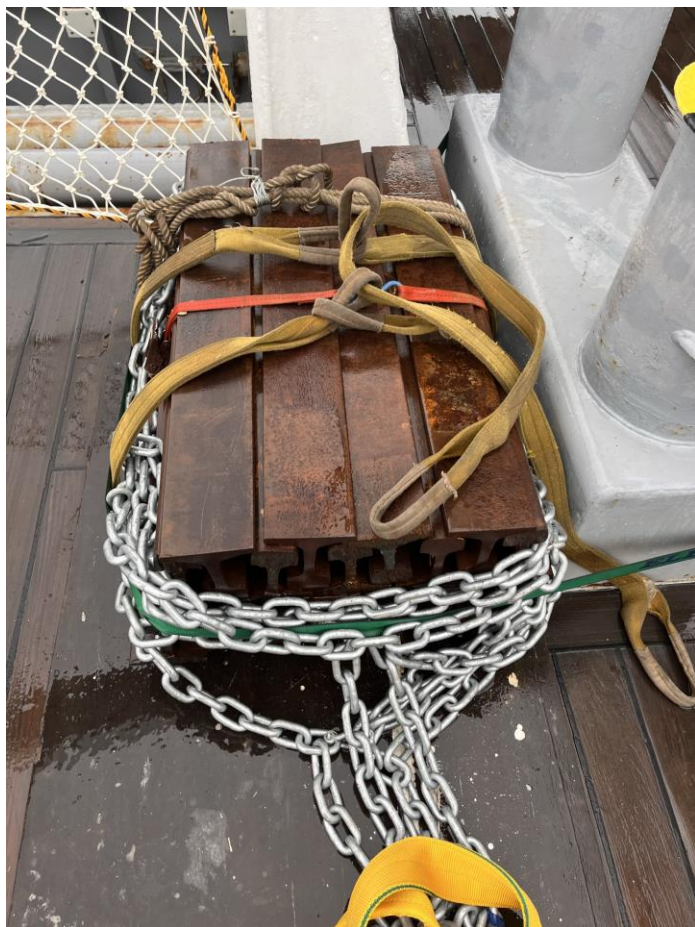
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Equipment have been unpacked and are almost ready to be deployed. The 21 bottles on the sediment traps will – with intervals - collect whatever is falling through the water column.

Also the buoyancy that will keep the mooring hanging in the water are being assembled.



© Morten Kieler



© Morten Kieler

Old railway sleepers – they will make sure that the mooring stays at the same place!

Probably the most important piece of equipment on the string - two acoustic releasers!

In one year when the mooring system will be retrieved, we can send an acoustic signal to the releasers and they will open a hook and leave the railway sleepers at the sea bottom – and the buoyancy will make the system come to the surface!



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Sebastian with one of the 4 passive samplers that will be on the string. Different kinds of organic pollutants will adhere to them – and later when the mooring system has been retrieved they will be analysed – and give new information about the pollutants in the sea.



© Kazumasa Oguri

Here you can see the CTD – that can measure conductivity, temperature and pressure at 8880 m. And the blue instrument – the Aanderaa seagurd - will be measuring oxygen, current and temperature at 8880 m



© Morten Kieler

CTD and Seaguard – on their way into the sea!

One of the sediment traps being deployed!



© Morten Kieler



© Kazumasa Oguri

One of the last instruments to leave the Umitaka Maru – the acoustic releasers!

And the mooring is gone – see you again in about one year!!!





The team – that successfully deployed the mooring!!



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Sebastian Abel - Morten Kieler - Frank Wenzhöfer - Hiroshi Kitazato - Haruno Hirano - Kazumasa Oguri