Press Release

75/2023

Deep-sea mining and warming igger sess in a

New sudy led by GEOMAR provides insigh ino he effecs of sediment plumes

21.11.2023/Kiel. The deep sea is home to one of the largest animal communities on earth which is increasingly exposed to environmental pressures. However, our knowledge of its inhabitants and their response to human-induced stressors is still limited. A new study led by scientists from GEOMAR Helmholtz Centre for Ocean Research Kiel now provides first insights into the stress response of a pelagic deep-sea jellyfish to ocean warming and sediment plumes caused by deep -sea mining. The researchers are publishing their results today in the journal

o the stress response of a deep pelagic jellyfish to ocean diment plumes.

nmental stressor for organisms in the deep ocean is the th the commercial mining of mineral resources on the sediment will need to be discharged back into the water gulations at what water depth the sediment should be generated like this can extend for tens to hundreds of Deep-

ing as Dr Helena Hauss, co-first author of the study and Research Director Marine wegian Research Centre (NORCE), explains: “The midwater is crucial for the global

Brazil, South Africa, Canada and the USA, and complemented by a wider network of associated partners.

Project funding:
The Integrated Assessment of Atlantic Marine Ecosystems in Space and Time (iAtlantic) project is funded by the European Union's Horizon 2020 programme, under grant agreement 818123. The project started on 1 June 2019 and finishes on 31 March 2024.

Links:
www.iatlantic.eu iAtlantic project website
https://www.iatlantic.eu/wp-content/uploads/2023/11/iAtlantic_Jellyfish_DSM_brief_webversion.pdf Science Brief iAtlantic
www.norceresearch.no/en Norwegian Research Centre
https://www.sams.ac.uk/ Scottish Association for Marine Sciences
https://www.si.edu/ Smithsonian Institution
https://www.geomar.de/en/hhoving/researchgroup Deep-Sea Biology Research Group

Images:
Images are available for download at http://www.geomar.de/n9207-e.

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