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OCEAN:ICE News - June 2023

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June 22, 2023

*OCEAN:ICE is a Horizon Europe project, funded by the European Commission and UKRI. OCEAN:ICE stands for **Ocean-Cryosphere Exchanges in Antarctica: Impacts on Climate and the Earth System***

We are going to publish the news on a monthly basis on LinkedIn.

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Report: OCEAN:ICE Workshop with ESA CCI and EO on ice shelf mass balance

The workshop [#OCEANICEEO](#) was organized by Ruth Mottram, Danish Meteorological Institute, in Copenhagen, from the 23-24 May 2023 together with the EU-funded project [PROTECT](#). The workshop aimed to bring together the modelling and EO communities to better integrate satellite and in-situ data with numerical models within OCEAN:ICE. A short report summarizing the workshop conclusions is available Zenodo:

<https://zenodo.org/record/8033778>



Ocean Cryosphere Exchanges in Antarctica:
Impacts on Climate and the Earth System

Workshop with ESA CCI and EO on ice shelf mass balance

Milestone M88



OCEAN:ICE is co-funded by the European Union, Horizon Europe Funding Programme for research and innovation under grant agreement No. 1010180482 and by UC Research and Innovation <https://ocean-ice.eu/>

OCEAN:ICE data, data generation and data sharing

Are you an Ocean data geek? Find out what we have planned in OCEAN:ICE when it comes to data generation and data management: OCEAN:ICE provides products to both internal and external users. The data workflow is based on a chain of individual operational components, each contributing either to data production or user interaction functions. The infrastructure implements open and free of charge data access, it adopts international standards, follows FAIR and European regulations such as INSPIRE, it will be accessible under the OCEAN:ICE web domain (www.ocean-ice.eu) and offers up to date means of data and data products dissemination and interaction tools.

[Find out more...](#)

Meet the OCEAN:ICE teams at these upcoming events

ETT **THE OCEAN RACE** **EUROPEAN UNION**

We Race with the Future

Marine Data, Information and Knowledge for EU Green Deal and Climate Change

h. 14-30/17.00

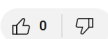
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June 27 at 2:30 PM

Notify me

Ocean Data Week Marine Data, Information and Knowledge for EU Green Deal and Climate Change



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27 June 2023 - Grand Finale of the the OCEAN RACE, Genova. *The data the sailors collect provides leading science organisations across the world with valuable information, in real-time, that helps to paint a more accurate picture of what is happening to the ocean and the important role it plays in maintaining a healthy planet. ETT has organised **two sessions** at the OCEAN RACE Grand Finale event, [find out more](#)*

14 July 2023 – OCEAN:ICE at the 28th IUGG General Assembly, Berlin, OCEAN:ICE is organising a session at IUGG, [find out more](#)

14-17 August 2023 – OCEAN:ICE at the SOOS Symposium 2023, Hobart, [find out more](#)

11-14 September 2023 – OCEAN:ICE at the SCAR INSTANT Conference, Trieste, [find out more...](#)

SAVE THE DATE! 21 September 2023 – Climate coffee (online) with Romain Millan on Monitoring ice shelf vulnerability at both poles from multiple sensor remote sensing data. Details will follow with the next news feature; the climate coffee will be taking place on MS Teams at 10am CEST for approx. 40 minutes.

SAVE THE DATE! 23-26 October 2023 – Project Annual Meeting OCEAN:ICE, Paris, alongside the SO-CHIC meeting, [find out more...](#)

For a complete overview, just visit our website [News – OCEAN:ICE \(ocean-ice.eu\)](#)

Researcher in the Spotlight



Meet Romain Millan, who recently joined the team at the [Institut des Géosciences de l'Environnement](#) in Grenoble as

a postdoc: we asked him why and what his tasks are.

I am part of [WP3](#) where I am interested in providing the most spatially and temporally resolved state-of-the-art satellite observations of freshwater fluxes resulting from basal melting and calving of ice shelves around Antarctica. [Find out more and connect with Romain](#)

Paper of the Month

Slowdown of Antarctic Bottom Water export driven by climatic wind and sea-ice changes: Antarctic Bottom Water (AABW) is pivotal for oceanic heat and carbon sequestrations on multidecadal to millennial timescales. The Weddell Sea contributes nearly a half of global AABW through Weddell Sea Deep Water and denser underlying Weddell Sea Bottom Water that form on the continental shelves via sea-ice production. Here we report an observed 30% reduction of Weddell Sea Bottom Water volume since 1992, with the largest decrease in the densest classes. This is probably driven by a... [keep reading](#)

Cite as: Zhou, S., Meijers, A.J.S., Meredith, M.P. et al.

Slowdown of Antarctic Bottom Water export driven by climatic wind and sea-ice changes. Nat. Clim. Chang. (2023).

<https://doi.org/10.1038/s41558-023-01695-4>

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<https://fediscience.org/@OceanIceEU>

<https://www.facebook.com/OCEANICEEU/>

Who is OCEAN:ICE?

OCEAN:ICE stands for Ocean-Cryosphere Exchanges in Antarctica: Impacts on Climate and the Earth System. OCEAN:ICE is a Horizon Europe project, funded by the European Commission and UKRI. OCEAN:ICE focus on understanding how the Antarctic ice sheet and the surrounding Southern Ocean influence our global climate

and reduce the level of uncertainty around how much the Antarctic ice sheet will melt in the coming centuries. OCEAN:ICE considers the critical role of feedbacks between ocean circulation, ice sheet change and tipping points and the global climate. [Find out more](#)

Who is a partner in OCEAN:ICE?



Partner organisations in O:



OCEAN:ICE is co-funded by the European Union, Horizon Europe Funding Programme for research and innovation under grant agreement Nr. 101060452 and by UK Research and Innovation

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Find out about the exciting science sessions we have organised for you throughout the summer, meet our team members, and read our latest news and reports on our latest events. The OCEAN:ICE news is out! [#oceanice](#) [#ice](#) [#antarctic](#) [#antarctica](#) [#arctic](#) [#icesheets](#) [#oceanobservation](#) [#EarthSystem](#) [#modelling](#) [#climatemodelling](#) [#climate](#) [#climatechange](#) [#oceandata](#) [#FAIR](#) [#INSPIRE](#) [#ocean](#) [#climatescience](#) [#earthsystemscience](#) [#HorizonEU](#) [#seaice](#) [#cryosphere](#) [#MissionOcean](#) [#OceanData](#) [#ClimateChange](#) [#Sustainability](#) [#datamanagement](#) [#data](#) [#MarineData](#) [#EUGreenDeal](#) [#climatechange](#) [#marinedata](#) [#marineknowledge](#) [#oceanice](#) [#data](#) [#marine](#) [#oceandata](#)

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