



IV ROSS SEA CONFERENCE 2023

Università degli Studi di Napoli "Parthenope"

Via Amm. F. Acton, 38 - 80133 Napoli, ITALY

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Topic: Marine geology and geophysics.

Daniela Accettella

ABSTRACT Subject :

Mapping Mooring B and G areas: results obtained from the fruitful collaboration between ISOBATA Team and other project onboard R/V Laura Bassi

Abstract 15/02/2023 13:24:55

The Italian Southern Ocean Bathymetry for the exploitation of opportunistic seafloor datasets in the Antarctic water and surrounding areas (ISOBatA) is a project funded by the Italian Antarctic Research Program (PNRA) to improve the bathymetric coverage of the Southern Ocean (SO). ISOBatA acquisition was designed to collect data along the R/V icebreaker Laura Bassi main route: 1) back and forth New Zealand and Mario Zucchelli Station; 2) between mooring sites in the Ross Sea (MORSEA Observatory Project). Over the past 2 years, ISOBatA has succeeded in collecting a significant dataset of bathymetric, sub-bottom profiling and ADCP datasets during the MORSEA operations in the key areas of Mooring G (72° 24.4326'S, 173°03.1698'E) and B (73° 59.8118'S, 175°04.2660'E). Furthermore, ISOBatA has an open data policy and acquired data will be made available to the scientific community boosting the knowledge of the covered area. Our experience has shown that opportunistic datasets collected during ship's free time can provide new insights for the various scientific projects in SO. The interactions and collaborations amongst scientists working in different disciplines and with a sound knowledge of the study area, all together onboard the R/V Laura Bassi, furtherly enriched ISOBatA results. We believe this approach can be extremely powerful, with many advantages, and we underline the need to open a discussion on a coherent Italian strategy for data acquisition in SO during transit times.

