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## EMSO ERIC a pan European Marine Research Infrastructure to take the pulse of the Deep Ocean

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The European Multidisciplinary Seafloor and water-column Observatory (EMSO) is a distributed pan-European Research Infrastructure, structured as an organisation with an autonomous governance based on the European Research Infrastructure Consortium (ERIC) legislation as defined by the European Commission. It is composed of 8 Member States (Italy, Spain, Portugal, France, Ireland, Norway, Greece, and Romania) with the goal to explore, monitor and improve the understanding of the deep ocean variability and the ocean-climate nexus. EMSO ERIC currently comprises ten Regional Facilities (RFs) and three shallow water test sites, strategically located all the way from the southern entrance of the Arctic Ocean across to the North Atlantic through the Mediterranean to the Black Sea.

EMSO elaborates a common strategic framework, with diverse and numerous Research Institutes and Centres operating observing facilities in the deep sea and seafloor of key sites in European seas, to promote and drive advances in marine science and technology while enabling access to its services, facilities and technology platforms. Its uniqueness stands in the observed zone of the deep ocean: the bottom layer and the water column, in fixed regional zones and on long terms. It provides harmonised data and access to the facilities.

For that purpose, it supports services for the harmonisation process and data flow (EMSO ERDDAP), and it elaborates training capacities (EMSO Academy). This abstract stands for a general introduction to EMSO ERIC and other proposed abstracts focusing on some of its specific capacities.