



## **EMSO: European Multidisciplinary Seafloor Observatory**

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EEMSO, an ESFRI Research Infrastructure, is the European-scale network of multidisciplinary seafloor observatories from the Arctic to the Black Sea with the scientific objective of long-term real-time monitoring of processes related to geosphere/biosphere/hydrosphere interactions. EMSO will enhance our understanding of processes through long time series appropriate to the scale of the phenomena, constituting the new frontier of studying Earth interior, deep-sea biology and chemistry and ocean processes. EMSO will reply also to the need expressed in the frame of GMES (Global Monitoring for Environment and Security) to develop a marine segment integrated in the in situ and satellite global monitoring system.

The EMSO infrastructure will extend the coverage to the sea of the monitoring, integrating the land-based networks with multidisciplinary seafloor measurements. With this aim the two European research infrastructures EPOS (European Plate Observing System) and EMSO can operate in coordination in order to increase the mutual benefits. EMSO is presently at the stage of Preparatory Phase, funded in the EC FP7. The EMSO status, the perspectives and relations with other existing or incoming sensor networks and data infrastructures are outlined.