



How to monitor the Ocean with IN-SITU observations

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📍 Inspire Area – European Digital Ocean Pavilion

🌐 United Nations Ocean Conference 2025

Abstract

SeaExplorer Gliders

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In 2018, a new active underwater volcano emerged in the Mozambique Channel, near the island of Mayotte. In 2020, the French Ministry of Ecology launched a continuous monitoring program for CO₂/CH₄ emissions and droplets in the water column. Since then, Alsemar, with Ifremer, has been implementing regular monitoring of this phenomenon using SeaExplorer gliders. Not only was this multi-year mission accomplished, but it was also the first to record other remarkable occurrences, such as the acoustic signals from marine mammals and the impact caused by the CHIDO tropical cyclone on the water column in december 2024. The topics presented will include some scientific results but also operationnal aspect of this mission.

