

Project

COASTAL CIRCULATION TO THE SOUTH OF THE BALEARICS: ARGO BUOY

I+D+i
GIZC
GESTIÓ INTEGRADA
DE LA ZONA COSTANERA

Axis
Bloc 1.1
Thematic area

Disciplinary research
Environment
Operational oceanography and marine technology

Summary

ARGO is a scientific project supported by the World Meteorological Organisation (WMO), the Intergovernmental Oceanographic Commission (IOC) and the International Council for Science (ICSU). This project provides a new source of data on the depth of the ocean, and comprises a large-scale global network of 3000 buoys registering profiles of the upper 2000 metres of the ocean and form part of the Global Climate Observation System / Global Ocean Observation System (GCOS/GOOS).

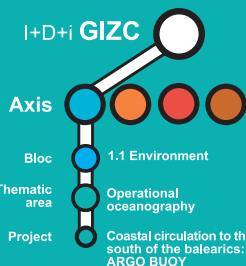
This network has a fleet of robotic differentiators that spend most of their useful life in the depths and regularly come to the surface to take measurements of temperature, salinity and speed. When the buoys come to the surface they transmit collected information via satellite.

IMEDEA is participating in this international project through the launch of one of these ARGO buoys in the waters off Cabrera, which is currently sending information on the Balearic Sea periodically and continually, every ten days, to the CORIOLIS Operational Oceanography centre.

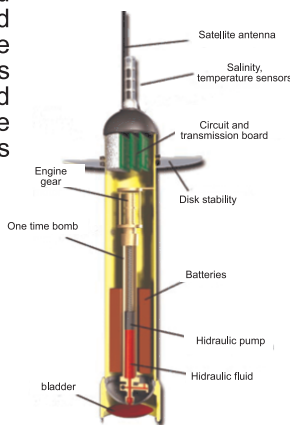


Actions

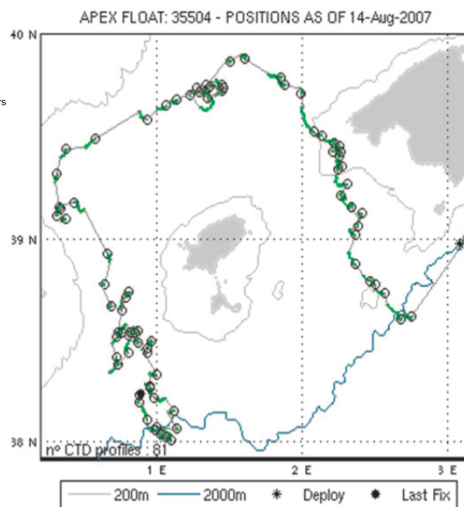
-Provide oceanographic information for scientific programmes studying ocean and atmospheric phenomena, and thus be able to understand the role the ocean plays in the world's climate, which will be achieved through efficient monitoring of the fluctuations in the world's temperature.



Buoy in the water



Parts of the buoy



Path of the buoy

Applications

Research

This project has the objective of releasing a global network of 3000 buoys to take data across the whole planet. This will allow us, for the first time, to monitor continually temperature, salinity and speed in the upper layer of the ocean, given valuable information that could be used to understand the climate at a global level.

Administration

Understand and, as far as possible, foresee changes in the atmosphere and ocean is necessary to guide decisions at an international level, optimise governmental policy in development and elaborate better industrial strategies.

Education

One of the most important characteristics of the data provided by the ARGO project is its easy accessibility. The importance and socio-economic implications that can be gained from these data made the project an ideal vehicle to inform the general public of the important role played by oceans in regulating the climate.

Principal Investigator

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