



GLOBAL OCEAN OBSERVATIONS

# Ocean and Climate

WITH ARGOS



**ARGOS**  
COLLECTE LOCALISATION SATELLITES

# Global Ocean

## OBSERVATIONS



### Argos Global System

- **Global satellite coverage**  
simple, robust, low-power telemetry continue to make Argos the international choice for gathering environmental data
- **Argos collects sensor data and calculates locations** from all in-situ platforms including buoys, floats and ships
- **Data are available to you and your colleagues around the world** by ftp, e-mail, fax or direct server access

### Polar research

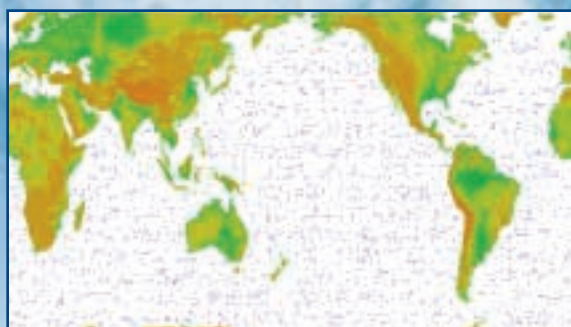
- Argos is the only satellite-based system providing 50 passes per day over the poles
- Argos buoy networks have gathered hundreds of thousands of ice buoy-observations in polar regions for scientific research programs as well as for real-time meteorology and improved navigation



### Dedicated Services

- Automatic processing, quality control and distribution of in-situ observations over the WMO (World Meteorological Organization) Global Telecommunications System
- Watchdog services help monitor the status and the mooring of equipment at sea





Typical global coverage with 3,000 Argo floats  
source - Argo Program Brochure



## Weather forecast

- The Argos system enables operational meteorologists to collect and disseminate data globally
- Using Argos, networks of drifters, moored buoys, floats and weather stations relay atmospheric pressure, wind, sea surface temperature and other data onto the WMO Global Telecommunications System

## Ocean circulation

- Arrays of drifting buoys, subsurface floats, and current meters fitted with Argos transmitters help map the surface and subsurface ocean circulation
- Argos buoys fitted with GPS also provide fine scale tracking of coastal currents

## Climate prediction

- Scientists have demonstrated that by sensing the upper ocean, climate variability can be understood and predicted
- Thousands of Argo profiling floats, expendable BaThythermographs (XBTs) and ocean buoys fitted with thermistors, salinity and water quality sensors, bring crucial data via Argos directly to your desk

WITH **Argos**

## Your Argos contacts

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A wide range of ocean platforms are available from manufacturers. Please contact CLS or your closest representative for a complete list.