

National Centre for Marine Research – NCMR Athens, Greece

Institute of
Oceanography

Institute of
Fisheries

Institute of
Inland Waters

Department of
Coastal
Environmental
Research

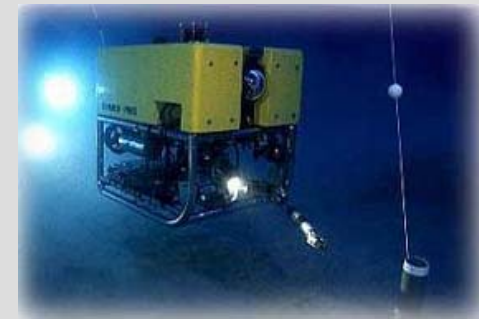
Department of
Operational
Oceanography

Department of
Open Sea
Research

Data Bank
(NODC)

Unit of
Technological
Support and
Development

Biogeochemical
Laboratory



- ✓ National Project: POSEIDON 1997-2002
- ✓ Participation in EU funded research projects
- ✓ Bi-lateral collaboration
- ✓ Participation in international initiatives:
 - GOOS
 - EuroGOOS, MEDGOOS
 - JCOMM



POSEIDON SYSTEM: "An operational monitoring, forecasting and information system for the marine environmental conditions of the Aegean Sea"

POSEIDON Project

Duration: 1997-2000








Agency : *NCMR,*
Institute of Oceanography

Contractor: *OCEANOR-ASA*

Sub-contracting: *Univ. of Athens,*
Univ. of Thessalonica, NTUA

Funding: 14.1 Meuro (EFTA+HMNE)

POSEIDON Products

-  On-line data ("meteo", "blue" and "green")
-  Processed Data (statistics etc.)
-  Meteorological Forecasts
-  Sea-State Forecasts (waves)
-  Hydrodynamic model Forecasts (currents, T,S)
-  Dispersion of Pollutants (oil-spills)
-  Near-shore wave conditions

➤ **MFS (1998-2001, 2002-2004)**

- ✓ Development of multiparametric M3A station
- ✓ VOS Measurements
- ✓ High resolution coastal models

➤ **MARSAIS (2001-2003):**

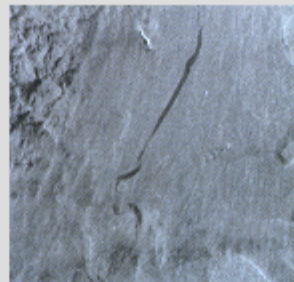
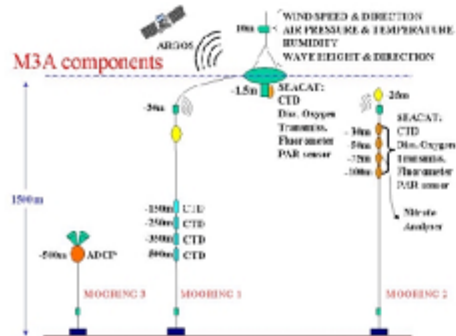
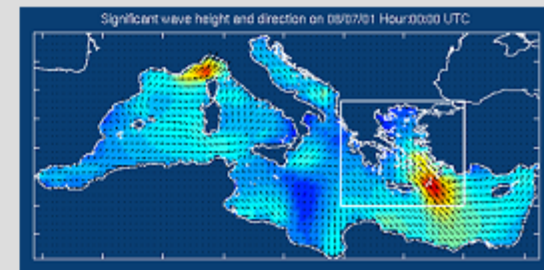
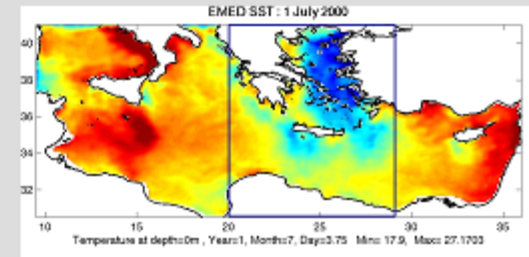
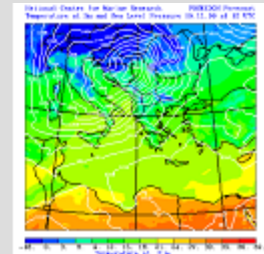
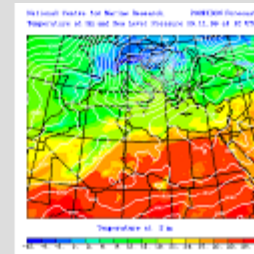
- ✓ Synergy between SAR and buoy data
- ✓ Validation of Algorithms
- ✓ Detection and forecasting of oil-spills

➤ **INTERPOL (2001-2003):**

- ✓ Operational Monitoring of coastal processes

- ✦ **NCMR-GKSS:**
Development / improvement of wave models
- ✦ **Greece – France (Ifremer):**
Wave climate for optimal ship-routing
- ✦ **Greece – Albania:**
Operational radioactivity measurements: development of sensors and calibration
- ✦ **NCMR – DMI:**
Evaluation of operational forecasting in the Mediterranean
- ✦ **NCMR – RSMAS:**
Operational use of drifters in the Aegean

Operational Oceanography in Hellenic Seas



- **NCMR**
- **IMBC - Institute of Marine Biology of Crete**
- **MARTEDEC**
- **Universities of**
 - Athens
 - Thessaloniki
 - Aegean
 - National Technical
- **Hydrographic Service of Navy**
- **National Meteorological Service**
- **Coast Guard (MMM)**



- **Founded in 1987**
- **Under the direct supervision of the GSRT**
- **IMBC + NCMR will merge to form HCMR**
- **Staff: 112**
- **Projects running: ~70 (MFSPP – GAVDOS)**
- **Annual budget: 9 mil euro**
- **Member of EuroGOOS - MedGOOS**
- **Member of ICES**



- **New buildings (8500 m²)**
- **Aqua labs**
- **Aquarium (under construction)**
- **R/V Philia (26 m)**
- **DSSI Mark II ROV (2000m)**
- **Field station**





- Aquaculture
- Fisheries
- Genetics/biotechnology
- Management of marine environment /technology
- Marine ecology and biodiversity
- Oceanography
- Sonar and marine information systems

🔑 Security:

- ✓ Ministry of Merchant Marine, dpt of navigation, Coast guard
- ✓ Hydrographic Service of Navy
- ✓ Meteorological Service
- ✓ General Secretariat of Civil Protection

🔑 Environment

- ✓ Ministry of Environment, dpt of water (water quality)
- ✓ Ministry of Merchant Marine, dpt of marine environment (oil-spills)