Research, capacity building activities and regional networking in oceanography at the Institute of Marine Sciences and Technology, Dokuz Eylül University, Izmir, Turkey
Location & the Marine Areas of Interest
To conduct monitoring and scientific researches on all major disciplines in oceanography

To create, maintain and improve the national capacity in marine sciences

To conduct engineering surveys as expert services for coastal development and marine resource exploitation activities.

To establish international collaboration and cooperation opportunities in order to exchange information, knowledge and expertise.

To provide expertise in developing strategies in the context of the national interests related with naval rights, marine sovereignty and jurisdiction.
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<th>Departments</th>
<th>Programs</th>
<th>M.Sc</th>
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<td><strong>Marine Science</strong></td>
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<td>Marine Geology and Geophysics</td>
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**DEU-IMST’s approach** is simply to conduct researches in order to improve the understanding of the coastal and marine environments and to contribute to the efforts for excelling the management of the marine resources.

Currently, **DEU-IMST** have focused on the following research topics and/or marine environments:

- Indicator events/ incidents that enables us to monitor the ecosystem responses to the different impacts related with the climate change.
  - **Alterations in Trophic dynamics and biogeochemical cycles in Black Sea, Turkish Strait System and Eastern Mediterranean** which are **perfect areas** for a series of case studies
- Cold seepages & Carbon Cycle
- Identification of impact/ response characteristics in terms of the changes in Habitat and Species Diversity in Coastal Ecosystems in Mediterranean.
- Off-shore Observation Platforms
- Mesocosm experiments
- Management Models/ Tools for Management of MPAs
EU-IMST hosts an Oceanographic Network...

Inter-Islamic Science & Technology Network on Oceanography (INOC)
INOC is an inter-governmental, non-political and non-profit, autonomous body linked to “Organization of Islamic Conference (OIC) Standing Committee on Scientific & Technological Cooperation (COMSTEC)”, having international legal status.
COMSTECH has 57 member countries, 5 observer countries and 8 observer international institutions/organizations.
INOC has right now 23 active member countries, spreading over the following geography
The Objectives of INOC (I)...

- to facilitate the exchange of scientific data and information and the transfer of knowledge resulting from marine scientific research and maintain continuing dialogue with member states on the development of Ocean services;
- to set up and maintain a data bank on the developments in the marine sciences and related fields, taking into account national interests of the subscribing countries;
- to collaborate and cooperate in the areas of common interest with a view to helping each other in building up the national capabilities of the member states in the development of the exploration and exploitation of the marine resources;
- to initiate joint research programmes and other activities, promote capacity building and recycling of operators in the fields and provide consultancy and advisory services to the member countries;
- to promote networking and develop partnership with other similar regional and international organizations.
The finance required for running the Network is provided by the host government (TURKEY).

There are also annual contributions of the member countries as membership fees.

Further funding resources may consist of:
- Grants from COMSTEC, Islamabad;
- Grants from the Islamic Development Bank (IDB), Jeddah;
- Donations and subsidies received from other organizations including international agencies, banks;
- Contributions from the private sector.
The Activities of INOC...

- Workshops
- Conferences
- Training Courses
- Promoting Proposing and Planning Research Surveys
- Organizing Exchange programs for scientists and post graduate students
Workshops - Examples


• International Workshop on “Marine Pollution and the Impacts of Seawater desalination plants on the coastal environment”, Dubai / UAE, 01-03 December 2003;

• International Workshop on ”Marine & Coastal Protected Areas”, INOC-University of Meknes, Meknes-Morocco; 23-25 March 2005

Conferences - Examples

• International Conference on coastal Oceanography and sustainable marine aquaculture- Confluence Synergy”, INOC- Borneo Marine Research Centre/University Malaysia Sabah, Kota Kinabalu, Sabah, Malaysia, 02-04 May 2006

• International Seminar on” International on coastal water management & sustainable use of marine resources”, INOC –Centre de Recherche Oceanographique de Dakar-Thiaroye Dakar-Senegal, 14-16 November 2006.

• International Conference on” Rapid urbanization and land use conflicts in coastal cities, INOC- Universities of Jordan & Yarmouk, Aqaba- Jordan, 30 October-01 November 2007.

• International Conference on “ Modeling and Monitoring of Marine pollution, INOC- Iranian National Center for Oceanography (INCO) , Kish Island , Iran, 01-03 December 2008.
Training - Examples

- Training course on harmful Algae "HAB-ICCOSMA" for Asian countries, University of Sabah, Malaysia;
- Training course on harmful Algae" for Mediterranean and Gulf countries;
- Training Course on Marine Taxonomy
Observing and assessing ECOsystem changes in the Eastern Mediterranean Coasts (ECO-EMC)

Objective
To understand and elaborate changes in structure and functioning of the ecosystems along the coasts of Turkey, Syria, Lebanon, Northern Cyprus and Egypt.
The Some Ongoing Activities of INOC...

ECO-EMC CRUISESES (2011 & 2012); 40 day cruises per each year

- Physical
- Chemical
- Biological
- Geologic
- Sampling from ship
- Drifters
- Moorings
- Gliders
- Remote sensing
- Coupled physical-biogeochemical models
ECO-EMC creates a platform that strengthens dialogue and co-operation on marine research and maritime affairs between the regional states,

- mobilizes the scientific potential of regional states to carry out, for the first time, a coordinated and cooperative research effort,
- organizes two multidisciplinary oceanographic surveys (one for each year, 2011 & 2012) for investigating various problems and processes at ecosystem level,
- contributes to effective management of coastal ecosystems and their living resources through development of science-based remediation measures and thus stimulates sustainable development of the region,
- allows to refine the design of monitoring and assessing ecosystem changes for the near future.
Capacity building, training and public outreach

- capacity building in the area by providing training and educational opportunities to a broad audience, from school children to the public, to government administrators in the area
- The involvement of young researchers and students
- training of graduate and post-graduate students using data collected within the project activities
- the outreach to the general public
THANKS FOR YOUR ATTENTION