



The JERICO Malta Summer School

www.capemalta.net/jerico/maltaschool

Operational Oceanography in the 21st Century The Coastal Seas

8th to 13th July 2013
UNIVERSITY OF MALTA



SCHOOL HIGHLIGHTS

- Operational Oceanography Overview
- Coastal Observatories
- Data Management
- Numerical Modelling Techniques
- Applications
- Visit to HF radar site



The school is organised by the **Physical Oceanography Unit** of the **IOI-Malta Operational Centre** at the **University of Malta** and will be held at the University Campus.

The planning of the school is done jointly with the Centre for Environment, Fisheries and Aquaculture Science (CEFAS).

Participation is **free of charge**. Visit the school website for more information and details on how to apply.

Deadline for application:
15 April 2013



Operational oceanography is defined as 'systematic and long-term routine measurements of the seas and oceans and atmosphere, and the rapid interpretation and dissemination of information'. Operational oceanography is evolving towards the provision of integrated, service-oriented applications, which are essential for the needs of a knowledge-based society. Marine observing systems are being set up in European coastal seas to meet a range of different requirements; policy, research, operation and for industry. A key requirement from marine observing systems is the provision of reliable, high-quality and comprehensive measurements over long time periods. These are provided through the use of multiple observing platforms that include ships, automated platforms and sensors systems. In-situ observations, combined with remote sensing and numerical modelling techniques, help us understand and forecast the most crucial coastal processes, over extensive areas. The JERICO project aims to create a network of European coastal marine observatories that integrate a range of observational systems such as moorings, drifters, ferrybox and gliders. The project is also identifying best practice for design, implementation and maintenance of coastal observing systems, as well as promoting improved distribution of data and setting quality standards.



Main elements
of a coastal observatory
(from Ocean Observatories,
Oceanus, 2006)

Operational oceanography in the coastal seas is the focus of this summer school. It will deal with technical and theoretical aspects related to metocean observations, operational monitoring platforms, numerical modelling and forecasting, data quality control and management, data assimilation and assessments, data archiving and dissemination. Other aspects include downstream services, applications and links to a wide range of users. The school will provide participants with an overview of coastal observatories and European operational oceanography, now and in the future. Students will be introduced to state-of-the-art methods and tools of operational oceanography across inter-related disciplines from physics to ecology, and over wide geographic scales. They will experience how this links to data acquisition and forecasting systems, and to managing sustainable development for scientific and socio-economic purposes.