OceanTeacher Global Academy
Sharing contents and expertise in a coordinated network

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IODE and Capacity Development

- IODE: International Oceanographic Data and Information Exchange
- Established in 1961
- 2014: Network of >80 National Oceanographic Data Centres & growing number of IODE Associate Data Units: community of practice specialized in managing oceanographic data
- ODINs
- mostly peer-to-peer expertise and experience sharing + technical training
IODE and Capacity Development

- Early 1980s
- 1989 ODINAFRICA
- 1991 OceanPC
- 1997 IODE Resource Kit
- 2001 Ocean Teacher
- 2009 Ocean Teacher Academy
- 2014 OceanTeacher Global Academy

IODE Project Office established in Oostende, Belgium
OceanTeacher Global Academy (OTGA)  
www.oceanteacher.org

- online Learning Platform, supports training activities for several IOC Programmes
- Combination of:
  - Classroom training
  - Online tutoring and materials
  - Online self-learning
- Contents are freely and openly available (Creative Commons attribution-non commercial-NoDerivs 3.0 unported license)
Course Outlines

OceanTeacher

Courses Outlines, Presentations, miscellaneous training resources

Search courses:   Go

▼ IODE
  ▶ MIM - Marine Information Management
  ▶ MDM - Marine Data Management
    ▶ 2014
    ▶ 2013
    ▶ 2012
    ▶ 2011
    ▶ 2010 & Before
  ▶ Other

▼ ICAM - Integrated Coastal Area Management
Course Content

Fundamentals of Ocean Data Management (2013)

1. Course Overview
2. Registrations and Pre-Course Reading
3. Integration of Marine Data Resources
4. PC Preparation
5. Preliminary and Introductory Presentations
6. Building a Regional Ocean Data Collection
7. Commonly Created Analysis Products in ODV
8. Exporting Marine Data or Products from ODV
9. Quality Control of Marine Data Collections Using ODV
10. Add Argo Data (from Coriolis) to an ODV Collection
11. Add (SeaBird) CTD Data to an ODV Collection
12. Introduction to Marine Metadata

Topic 1
Course Overview

This course provides an introduction to the steps required to obtain and utilize ocean station data including the guiding principles of data management and major responsibilities of a data manager.

Aims and Objectives:
- Provide an overview to all IODE training courses and their related resource materials (data sources, principal formats and software solutions)
- Provide selected reading materials to support the practical exercises within this course
- Guide students through the setup of software for this course
- Guide students through the exploration and utilization of the World Ocean Database (WOD) and World Ocean Atlas to create regional- or national-scale ocean station data collections (including critical metadata)
- Guide students in the use of the popular Ocean Data View (ODV) software, to manage,
Course video materials

> 120 videos
Hosted by vimeo
Over 40 courses are available on the online platform.

Course List

**IODE: International Oceanographic Data and Information Exchange**

**Marine Information Management**
- Development and Management of e-Repositories
- Digital Asset Management
- Grant Writing For Digital Projects
- Preservation of Books & Other Media
- Data Curation for Information Managers
- Disaster Planning and Recovery for Marine Librarians
- Outreach and Communication Tools
- Literature and Databases of the Marine Sciences
- Marine Information Products for Websites
- Writing for Professional Publications
- Preservation and Archiving of Digital Media

**Marine Data Management**
- Fundamentals of Ocean Data Management
- ODINAFRICA ODV Workshop for the Benguela Current LME Region
- University Curriculum in Marine Data Management (University Accredited Course)
- First SeaDataNet 2 Training Session (2012)
- Introduction to Ocean Data Management for Students of the Environment (Part 2) 2012
  (University Accredited Course)
- Marine and Coastal Atlas Development
- Marine GIS Applications (ArcGIS)
- Regional and Operational Oceanography for Coastal Resources Management
- Basic Marine Data Management
- Introduction to Marine GIS with SAGA
- Introduction to Metadata for Marine Data Managers
- Marine Data Products for Websites

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Course List

IODE: International Oceanographic Data and Information Exchange

Others
- ODINAFRICA – NODC: Web Content Management
- Developing Institutional Websites

ICAM: Integrated Coastal Area Management
- Marine Spatial Planning
- Development and Management of e-Repositories (Spanish)

HAB: Harmful Algal Bloom
- Harmful Algal Bloom Programme – BEQUALM
- IOC Training Course and Certification on Identification of Harmful Marine Algae

Tsunami
- International Tsunami Information Center (ITIC) Training Programme Hawaii (ITP-HAWAII) 2011
- Tsunami Awareness - Strengthening Tsunami Warning and Emergency Response

Over 40 courses are available on the online platform
OTA: Lessons Learned

- Need to train more students from each country
- Reduce travel
- Provide training in local language
- Focus more on local issues
- Make platform available to other IOC programmes

OceanTeacher
Global Academy
OceanTeacher Global Academy (OTGA)

The new OceanTeacher Global Academy will build upon and expand the existing OceanTeacher Academy based at the IOC Project Office for IODE in Oostende, Belgium, to a truly **worldwide training facility**.

It will provide a **programme of training courses related to IOC programmes**, contributing to the **sustainable management of oceans and coastal areas worldwide**, and **relevant to Member States in the regions**.

**Expressions of interest for hosting Regional Training Centres (RTCs) were requested.**

A survey of each facility was carried out, based on:

- Physical and technical facilities
- Event related services
- Human resources
- Relevant experience and history and associated human resources
- Practical/legal issues
- Sustainability of the Regional Training Centre
OceanTeacher Global Academy (OTGA)

Designed to:

• Have at least 1 RTC for each region and language group
• Be complementary to existing regional training centres
• Be self-driven, based on locally available expertise
• Be co-located with other ongoing and funded programmes/projects
• Allow sharing of courses with other RTCs using video conferencing technology
• Facilitate inviting of specific expert lectures through video conferencing
• Use the common OceanTeacher Platform
RTC: Colombia – Santa Marta

Host: Instituto de Investigaciones Marinas y Costeras José Benito Vives de Andreis (INVEMAR)
Working language: Spanish
Geographical area: Latin America
RTC: Senegal - Dakar

Host: Institut Senegalais de Recherches Agricoles (ISRA) / Centre de Recherches Oceanographiques de Dakar-Thiaroye (CRODT)

Working language: French

Geographical area: French speaking African countries (West Africa)
RTC: South Africa - Grahamstown

Host: AfriCOG/Rhodes University
Working language: English
Geographical area: South African English Speaking Countries
RTC: Mozambique - Quelimane

Host: School of Coastal & Marine Sciences - Eduardo Mondlane University

Working language: Portuguese (mainly)

Geographical area: Portuguese speaking African countries
RTC: Kenya - Mombasa

Host: Kenya Marine & Fisheries Research Institute (KMFRI)
Working language: English
Geographical area: East African English Speaking Countries
RTC: Malaysia – Kuala Terengganu

Host: Institute Of Oceanography And Environment (INOS)/Universiti Malaysia Terengganu (UMT)
Working language: Malay & English
Geographical area: West Pacific & Eastern Indian Ocean Countries
RTC: India - Hyderabad

Host: International Training Centre for Operational Oceanography (ITCOocean-INCOIS)
Working language: English
Geographical area: Indian Ocean Countries
RTC: China - Tianjin

Host: National Center of Ocean Standards and Metrology (NCOSM)
Working language: Chinese
Geographical area: Southeast Asia and Western Pacific
RTC: Belgium - Oostende

Host: IOC Project Office for IODE
Working language: English
Geographical area: Europe and North America
Partner: Hollywood – FL, USA

Host: Nova Southeastern University – Oceanographic Center
Working language: English
Geographical area: North America & English speaking Caribbean Region
OTGA RTCs network
OTGA latest developments

- Steering Group Meeting (17-20 January 2015)
- Train-the-trainers OTGA lecturers (23-27 January 2015)
- Activities started in all Regional Training Centres
- Communications plan has been drafted and circulated for comment
OTGA courses

• The South African node of the OceanTeacher Global Academy co-hosted the 7th meeting of the International Coastal Atlas Network (19-20 April 2015, Cape Town), attended by 49 participants.

• The South African node of the OceanTeacher Global Academy co-hosted a Marine Spatial Planning training course for 26 students from 15 countries, lectured by 15 international experts. Co-hosts with OTGA were IOC/UNESCO, SPINCAM, IOC/MPR, ICAN, ODINAFRICA and the Government of Flanders.
OTGA courses

• The Colombian RTC hosted a course on Marine Spatial Planning in Santa Marta, 25-29 May 2015, also supported by IOC/UNESCO, SPINCAM, IOC/MPR, and the Government of Flanders
Planned courses for 2015 include:

- Kenya (Mombasa): Marine GIS
- Malaysia: Marine GIS
- Colombia (Santa Marta): Marine GIS
- USA (Florida): Research Data Management (RDM)
- Belgium (Oostende): Quality Management Frameworks
- Belgium (Oostende): OBIS
OceanTeacher: IOC’s Training Portal

Capacity is already in place in all the RTCs (institutional, internet, human)

Considerable online resources already exist, and can be added to with minimal effort

The OceanTeacher Global Academy, with associated learning tools, should grow to become a resource and portal for capacity development and training for:

• all the programmes of IOC/UNESCO
• provides a resource for LMEs
• could be a useful partner for LME: Learn