

OceanTeacher Global Academy

Sharing contents and expertise in a coordinated network

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Institution: **Chair of the OTGA Steering Committee**

Session: **9a**

Day of presentation: **2 October 2015**



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

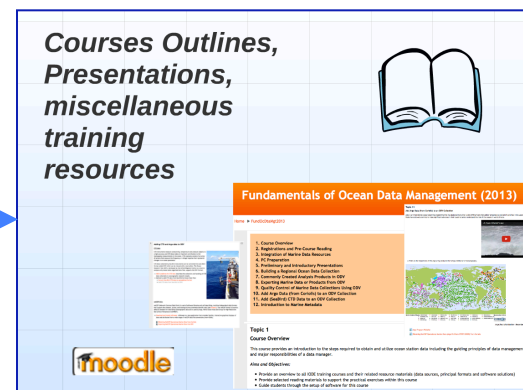
2014
OceanTeacher
Global Academy

IODE Project Office
established in
Oostende, Belgium



OceanTeacher Learning Platform

- 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

Courses Outlines,
Presentations,
miscellaneous
training
resources



Fundamentals of Ocean Data Management (2013)

Table 1
Course Overview

The course provides an introduction to the data reported to ODS and other ocean data including the getting, processing of data management and major responsibilities of a data manager.

Course Objectives

- Provide an overview to all ODS training courses and their related resources materials (data sources, principal formats and software solutions)
- Provide selected topics and practical to support the practical sessions within the course
- Guide students through the usage of software for the course

moodle

OceanTeacher

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Search courses:

Go

▼ Collapse all

▼ IODE

▶ MIM - Marine Information Management

▼ MDM - Marine Data Management

▶ 2014

▶ 2013

▶ 2012

▶ 2011

▶ 2010 & Before

▶ Other

▼ ICAM - Integrated Coastal Area Management

Course Content

Courses Outlines,
Presentations,
miscellaneous
training
resources



Fundamentals of Ocean Data Management (2013)

moodle

Fundamentals of Ocean Data Management (2013)

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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,

Calendar

October 2014						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Events key

- Hide global events
- Hide course events

Navigation

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Course video materials



The screenshot shows a Vimeo video player interface. The video title is "Data into AfrOBIS, by Mike Flavell" from IODE OceanTeacher PRO. The video content shows a man speaking with the text "Getting Data into AfrOBIS" and "Speaker: Mike Flavell - Belgium". The video player includes a play button, a progress bar at 47:59, and a volume icon. Below the video player, the text reads: "ODINAFRICA Training Course on Marine Biodiversity Data Management" and "IOC Project Office for IOPE, Ostend, Belgium, 17-21 March 2014". The video ID is 102507622.

ODINAFRICA Training Course on Marine Biodiversity Data Management (17-21 March 2014); course outline and contents available at classroom.oceanteacher.org/course/view.php?id=179

Uploaded 2 months ago 1 Play / 0 Likes / 0 Comments # vimeo.com/102507622



The screenshot shows a Vimeo video player interface. The video title is "Social aspects of data management, by Leen Vandepitte" from IODE OceanTeacher PRO. The video content shows a man speaking with the text "Social aspects of data management" and "Speaker: Leen Vandepitte - VLIZ, Belgium". The video player includes a play button, a progress bar at 46:30, and a volume icon. Below the video player, the text reads: "ODINAFRICA Training Course on Marine Biodiversity Data Management" and "IOC Project Office for IOPE, Ostend, Belgium, 17-21 March 2014". The video ID is 102506012.

ODINAFRICA Training Course on Marine Biodiversity Data Management (17-21 March 2014); course outline and contents available at classroom.oceanteacher.org/course/view.php?id=179

Uploaded 2 months ago 2 Plays / 0 Likes / 0 Comments # vimeo.com/102506012

> 120 videos
Hosted by vimeo

Course List

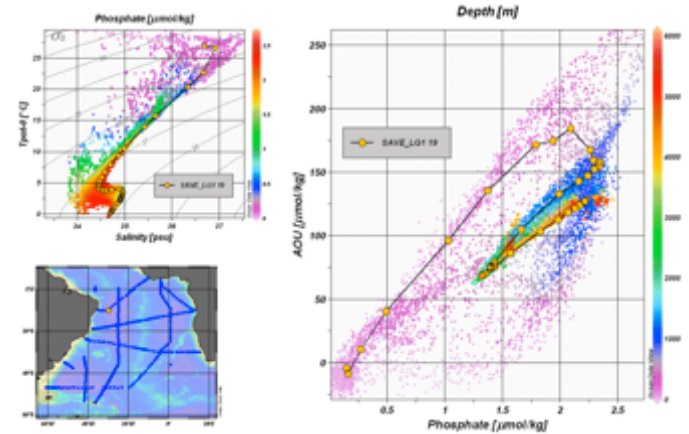
IODE: International Oceanographic Data and Information Exchange

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



**Over 40 courses are
available on the online platform**

Course List

IODE: International Oceanographic Data and Information Exchange

Others

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

ICAM: Integrated Coastal Area Management

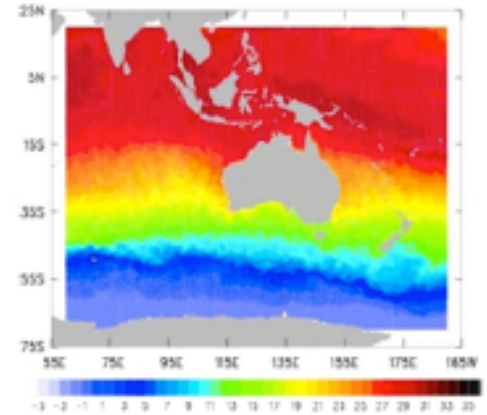
- ☐ Marine Spatial Planning
- ☐ Development and Management of e-Repositories (Spanish)

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

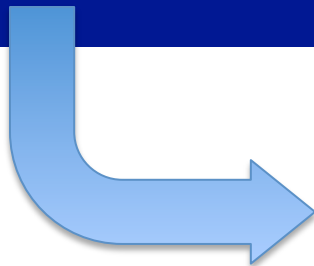


**Over 40 courses are
available on the online platform**

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**.

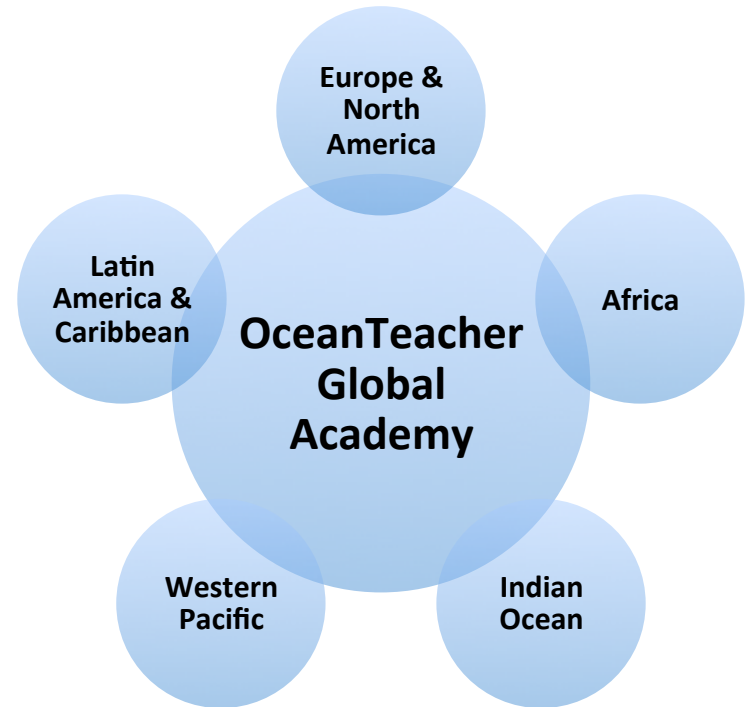
Expressions of interest for hosting Regional Training Centres (RTCs) were requested. A survey of each facility was carried out, based on:

- 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



Grahamstown,
South Africa

Terengganu,
Malaysia

Mombasa,
Kenya

Host: AfriCOG/Rhodes University

Working language: English

**Geographical area: South African English Speaking
Countries**

RTC: Mozambique - Quelimane



Quelimane,
Mozambique

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

Working language: Portuguese (mainly)

Geographical area: Portuguese speaking African countries

RTC: Kenya - Mombasa



Mombasa,
Kenya

Host: Kenya Marine & Fisheries Research Institute (KMFRRI)
Working language: English
Geographical area: East African English Speaking Countries

RTC: Malaysia – Kuala Terengganu



Kuala
Terengganu,
Malaysia

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



Hyderabad,
India

**Host: International Training Centre for Operational Oceanography
(ITCOcean-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

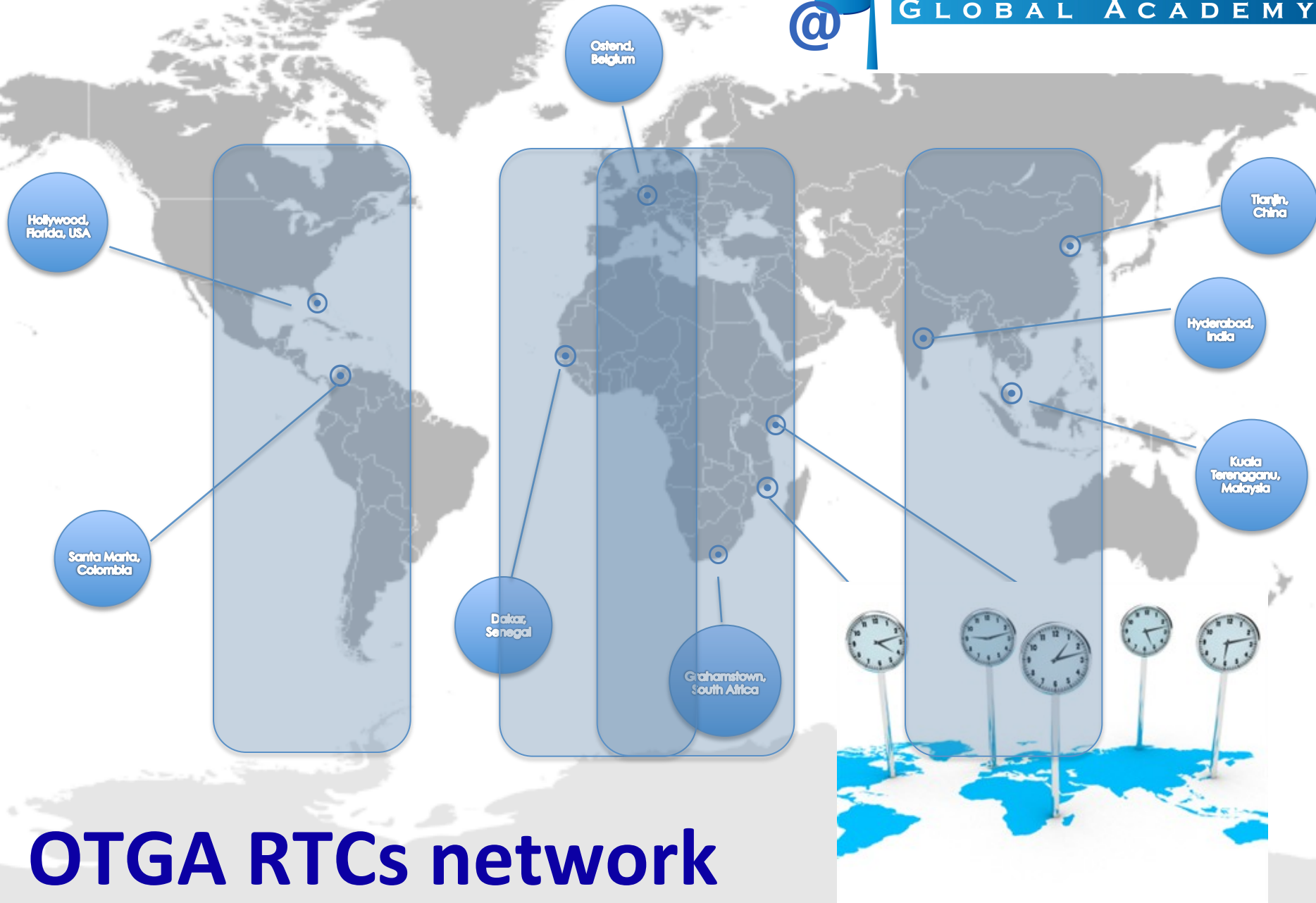
Working language: English

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 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



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CURSO - PLANIFICACIÓN ESPACIAL MARINA Y MANEJO INTEGRADO DE ZONAS COSTERAS

OCEAN TEACHER – ACADEMIA GLOBAL CENTRO DE ENTRENAMIENTO REGIONAL EN CIENCIAS DEL MAR PARA LATINOAMÉRICA

Está abierta la convocatoria para participar en el curso sobre Planificación Espacial Marina y Manejo Integrado de Zonas Costeras, que Invermar está organizando como Centro de Entrenamiento Regional en Ciencias del Mar para Latinoamérica, el cual hace parte de la estrategia Ocean Teacher – Academia Global, de IODE-Comisión Oceanográfica Intergubernamental-UNESCO. Este curso será realizado del 25 al 29 de Mayo del 2015, en la sede del Invermar en la ciudad de Santa Marta, Colombia.

OTGA courses

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

