

OceanTeacher Global Academy (OTGA) Training Course: Integrated Data Analysis for Upwelling Studies

12 - 16 November, 2017, Kuala Terengganu, Malaysia



Overview

Upwelling is an oceanographic feature that is very important to the ocean ecosystem. It brings high nutrient water to the surface and the impact is noteworthy to the ocean productivity. This nutrient-rich water will encourage a phytoplankton bloom that is ultimate base for large animal population in the food chains, including fish, mammals and sea birds. Although this coastal upwelling region covers relatively small area of the ocean surface, they contribute roughly 50 percent of the world's fisheries landings. We believe it is important for us to put special attention in providing specific tools and skills in understanding upwelling dynamics. Upwelling dynamics holds a very important value that require special skills, but the nature of the study is rather straightforward and can be done using many available data such as satellite, world ocean database and re-analysis wind data. Thus, the training will hopefully can become very important initiatives to allow exploration at any particular upwelling site.

Aims and Objectives

- To explore existing upwelling site using available datasets and increase understanding of the physical-biological interaction dynamics of upwelling region.
- To construct integrated data gathering which involve field data, satellite data and wind-data at any particular upwelling site.
- To conduct simple analysis from the integrated data in determining special characteristics of any particular upwelling site.

Target Audience

The targeted audiences include, but are not limited to, the following:

- Marine and coastal scientists
- Oceanographic data managers
- Academic professors
- Government officers
- Environmental scientists with knowledge of essential marine parameters
- Students in the oceanographic or meteorological sciences

NOTE: priority will be given to participants originating from South Eastern Asia and Pacific Islands.
UNESCO is committed to promote gender equality. Therefore applications from women are strongly encouraged.

Course Pre-requisites:

Participants should have

- Educational background in oceanographic sciences
- Proficiency to use personal computers with Windows or Mac
- The working knowledge of English
- Preferably user with skills of Matlab or ArcGIS

A Certificate of Participation will be issued to all successful students.

Course dates:
12 – 16 November, 2017

Duration: 5 working days
(~ 30 hours classroom sessions)

Course Venue:
Institute of Oceanography and
Environment (INOS), Universiti
Malaysia Terengganu (UMT), Kuala
Terengganu, Malaysia

Instructors:
Mohd Fadzil Akhir
Aidy M. Muslim

Application process:
Please fill the online application form:
<https://otga.wufoo.eu/forms/otga-application-form-integrated-data-analysis/>

Period for Applications:
1 August – 5 September 2017

Detailed information available at:
http://www.ioc-unesco.org/index.php?option=com_oe&ask=viewEventRecord&eventID=2017
and how to apply:
<http://classroom.oceanteacher.org/mod/page/view.php?id=5771>

In case of questions please contact :
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Useful sites:
www.iode.org
www.oceanteacher.org
www.oceanexpert.net