

## OceanTeacher Global Academy (OTGA)

### Training Course: Coastal Vulnerability Mapping and analysis using QGIS

26 - 30 August, 2019, Hyderabad, India

#### Overview

Geospatial science provides vital information on the sustainable use of the coastal resource and planning. It is imperative to use such techniques for managing densely populated coastal environments. This course provides an overview of GIS applications pertaining to coastal vulnerability and analysis. It will provide the basic GIS mapping techniques on storm surge vulnerability, and its socio-economic impact using open source GIS tools. Course also includes data acquisition, processing, analysis and interpretation of coastal spatial data. In addition, extensive hands on sessions will be conducted to use tools for preparation of thematic base maps for coastal vulnerability due to Tsunamis, Storm surges and their impact.

#### Aims and Objectives

- To Provide an introduction to GIS for marine applications
- Utilization of open source spatial data
- To provide hands on GIS applications pertaining to coastal vulnerability (Storm surges) using open source GIS tools
- Generation of Coastal Vulnerability and their socio-economic Impact map

#### Learning Outcomes

- Knowledge on understanding of spatial data: raster and vector models
- Core tasks involved in the GIS analysis process including data acquisition, management, manipulation and analysis, and presentation and output
- Use of QGIS, GRASS tools and Plug-in tools
- Creating and editing spatial data
- Basic understanding of coastal and marine GIS data applications.

#### Target Audience

Target audiences include, but are not limited to, the following:

- Ocean and coastal data managers
- Staff and researchers working on marine GIS applications
- University graduates

NOTE: priority will be given to participants originating from the **Indian Ocean Rim** countries. UNESCO is committed to promote gender equality: applications from women are strongly encouraged.

#### Course Pre-requisites:

- Candidates should have a working knowledge of marine data and formats and preferably be working in institutions responsible for the management of marine data
- This training course is not an introduction to GIS: candidates are expected to have some previous experience in the use of GIS
- Working knowledge of English
- Participants should preferably bring their own laptops.

A certificate of participation will be issued to all successful students (90% attendance to the classroom course mandatory).

#### Course dates:

26 - 30 August, 2019

#### Duration: 5 working days

(~ 30 hours classroom sessions, plus eventual online assignments)

#### Course Venue:

ITCOcean, INCOIS, Hyderabad, India

#### Lecturers:

- R S Mahendra
- Prakash C Mohanty
- H Shivakumar
- Chandra Sekhar V

#### Period for Applications:

24 May – 15 June 2019

#### Application process:

Please fill in the online application form on  
<https://otga.wufoo.com/forms/w1c1tc8m0hivq94/>

#### For more detailed information please check:

<https://www.oceanexpert.net/event/2427> and

**how to apply here:** <http://bit.ly/2ACZY9r>

No tuition fee applies. A limited number of fellowships is available.

#### Contacts:

OTGA India Regional Training Centre Coordinator:  
Dr TVS Udaya Bhaskar [itcoocean@incois.gov.in](mailto:itcoocean@incois.gov.in)  
OTGA Secretariat: [ioc.training@unesco.org](mailto:ioc.training@unesco.org)

#### Useful sites:

[www.ioc-cd.org](http://www.ioc-cd.org) [www.iode.org](http://www.iode.org)  
[www.oceanteacher.org](http://www.oceanteacher.org) [www.oceanexpert.org](http://www.oceanexpert.org)  
<http://www.incois.gov.in/portal/ITCOcean.jsp>