

Online Training EO4SD Marine

14-17 April 2020: online training

Training Workshop on the application of Earth Observation (EO) data to support WACA program and the execution of the State of the Coast report (Bilan 2020)

EO4SD-Marine Training

Introduction

Satellite Earth Observation (EO) technology has major potential to inform and facilitate international development work in a globally consistent manner. EO4SD – Earth Observation for Sustainable Development – is an ESA initiative which aims to achieve a step increase in the uptake of satellite-based environmental information to support marine and coastal management activities.

Alongside the delivery of data services, the EO4SD team (see <http://eo4sd-marine.eu/>) will be supporting users with workshop training to increase understanding of the applications of satellite data and further develop the skills needed to access and apply satellite data. The lead training partner is ITC, led by Suhyb Salama.

The plan is to deliver two short training courses, one in 2020, and a follow up in 2021, each focused on a specific topic. In between these courses attendees and project stakeholders will have access to an online forum where they can ask questions and access service support. Details will be provided during the training.

The WACA partners are, in 2020, working on an update to the Coastal Master Plan (SDLAO). This regional geospatial mapping and analysis activity provides a potential pathway for integrating EO data. It is therefore proposed that the workshop training planned for 2020 is focused on coastline mapping and erosion monitoring, and that it is carried out in a timely manner to enable WACA partners to integrate the data into the draft report, due in September 2020. The topic for 2021 has yet to be agreed but might include e.g. near real time applications of EO data to support marine awareness and tracking of pollution and fisheries activities.

Details

Duration – 4 days, 14th – 17th April 2020.

Time slots – from 9:00 to 11:00 and from 13:00 to 15:00 Dakar (GMT) time

Location – All teaching materials will be available on online via eLearning CANVAS environment.

Enrolment –: The course is enabled for open enrolment. Participants can self-enrol in the training via:

French Speaking: <https://canvas.instructure.com/enroll/PB4DKT>. Alternatively, they can sign up at <https://canvas.instructure.com/register> and use the following join code: **PB4DKT**

English Speaking: <https://canvas.instructure.com/enroll/66GGNX>. Alternatively, they can sign up at <https://canvas.instructure.com/register> and use the following join code: **66GGNX**

Communication – Online with BlueJeans for live streaming, see table 1 for the daily access. Per day use the provided BlueJeans link.

Skill level – Attendees will ideally have responsibilities that include managing and working with marine spatial data, ideally acting as the technical lead or part of the team delivering the SDLAO updates. Attendees will be asked to complete a detailed questionnaire prior to the training.

Hardware and Software Requirements – Attendees will need to bring a laptop, with the following minimum specification (8 mb RAM and HDD of >200GB, at least Intel 5 or equivalent) and a good internet connection.

Aims and Objectives

Aims

- to raise awareness of the unique potential of EO to contribute to sustainable development of the marine and coastal environments
- to provide attendees with knowledge of the types of data available (now / planned) and how it can be accessed and used (including data validation & limitations of EO)
- to work through practical examples of the integration and application of EO to marine resources management

Specific Objectives:

1. Provide MOLOA and WACA countries with EO specific tools to update the state of the coast report i.e BILAN 2020
2. Increase capacities of the participants for running analysis of Coastal line changes, Coastal erosion monitoring, land cover and land use i.e urban expansion with the use of EO derived data
3. Increase the capacity of participants to manipulate EO and remote sensing, to run coastal zone analysis and create detailed resulting maps.
- 4.

Contact Details

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Structure

The structure and content of the training in addition to the daily links to BlueJeans are shown in Table 1.

	Day 1		Day 2		Day 3		Day 4	
	14-apr-20	Tuesday	15-apr-20	Wednesday	16-apr-20	Thursday	17-apr-20	Friday
1	Set up of online streaming and welcome		Coastal line change: Lecture		Coastal land cover mapping: lecture		Introduction to the case study	
	8:30-10:00	Online see above	9:00-10:00	Online see above	9:00-10:00	Online see above	9:00-10:00	Online see above
2	Introduction & Data acquisition and handling: Lecture		Coastal line change: Exercise		Coastal land cover mapping: Exercise		Realizing the case study	
	10:00-12:00	Online see above	10:00-11:00	Online see above	10:00-11:00	Online see above	11:00-12:30	Online see above
Break	12:00-13:00 break		11:00-13:00 break		11:00-13:00 break		11:00-13:00 break	
3	Data acquisition and handling: Exercise (Data Access + Software installation)		Coastal line change: Exercise		Coastal land cover mapping: Exercise		Present exercise results	
	13:00-14:00	Online see above	13:00-14:00	Online see above	13:00-14:00	Online see above	13:00-14:00	Online see above
4	Data acquisition and handling: Exercise (Data Access + Software installation)		Coastal line change: Exercise		Coastal land cover mapping: Exercise		Feedback session to discuss the potential for uptake and future use, evaluation and closure workshop	
	14:00-15:00	Online see above	14:00-15:00	Online see above	14:00-15:00	Online see above	14:00-15:00	Online see above

Lecture Exercise Case study Feedback Break