



United Nations
Educational, Scientific and
Cultural Organization



Intergovernmental
Oceanographic
Commission



2021
2030
United Nations Decade
of Ocean Science
for Sustainable Development

FIRST ANNOUNCEMENT

Regional Training Course on Data Analysis and Ocean Observing Instruments

(Online)

29 - 31 August 2021

Introduction

Several instruments are in use in different conditions for monitoring the met-ocean parameters such as current speed and direction, salinity, temperature, bulk wave parameters, wind speed, humidity etc. Pressure sensors, acoustic devices such as ADCP, ADP and ADV, buoy, Radar, CTD and satellite sensors are useful instruments which can be used for providing important data to be used for environmental studies, design of structures as well as validation/calibration of oceanic and atmospheric models. Improving a model performance is critically dependent on accuracy of in situ data using data assimilation which emphasize on the importance of having accurate met-ocean data. The effective use of these instruments requires the knowledge of their users from the basics of those instruments and data analysis techniques.

Headlines

- A quick review of different instruments with their basics/technologies involved to measure met-ocean parameters, the applications of each instrument and their inherent limitations
- A review of available remote sensing data for different oceanic applications by emphasizing on the free data
- A quick review of basic MATLAB commands required for data processing
- The basic data analysis techniques and toolboxes to be used for processing the data from those instruments in MATLAB
- Available free/open source packages for applying data analysis techniques.



Organizer

UNESCO Category 2 Regional Education and Research Centre on Oceanography for West Asia (RCOWA)

Lecturer

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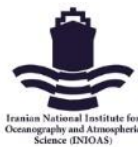


Language

English

Agenda

Time		Outline
29 August - Day 1	11:00-11:10	Opening
	11:10-13:00	<ul style="list-style-type: none"> A quick review of different instruments with their basics/technologies involved to measure met-ocean parameters, the applications of each instrument and their inherent limitations A review of available remote sensing data for different oceanic applications by emphasizing on the free data
30 August – Day 2	11:00-13:00	<ul style="list-style-type: none"> A quick review of basic MATLAB commands required for data processing The basic data analysis techniques and toolboxes to be used for processing the data from those instruments in MATLAB
31 August - Day 3	11:00-12:45	<ul style="list-style-type: none"> The basic data analysis techniques and toolboxes to be used for processing the data from those instruments in MATLAB Available free/open source packages for applying data analysis techniques.
	12:45-13:00	Closing



Registration

For registration, please fill the following registration form and send it to the email:
inioas@inio.ac.ir

Title (Ms./Mr./Prof. Dr.)	Full Name	Female /Male	Academic degree and Field of study	Institution/ University	Country	Email
*	*	*	*	*	*	*

*** Registration Deadline: 18 August 2021**

Logistics and Requirements

The platform for holding the workshop-webinar will be the Skyroom. The link of the workshop-webinar room will be sent to the email of the registered participants.

The participants are expected to have their own computer, with MATLAB (not earlier than 2016a version) installed with signal processing toolbox. Prior knowledge about MATLAB is helpful but not mandatory. The sample data would be shared within the workshop and no prior knowledge about instruments are expected.