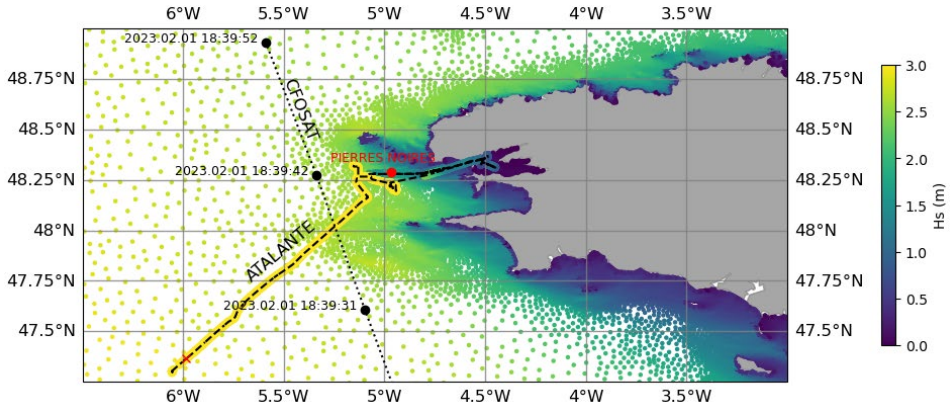
Short course

TRAINING COURSE 2025 : OBSERVING AND MODELING OCEAN WAVES WITH WAVEWATCH III®, SATELLITES AND BUOYS



DATES
From November 20 to 26, 2025

OVERVIEW

During this training course you will learn about new developments in reference satellite observations of waves, including SWOT, and the wave modeling framework WAVEWATCH III®, and how models can be validated and calibrated with buoys and satellite data.

AIMS AND SCOPE

> What can be measured by satellites or buoys, and how that compares with existing model output
> Analyze wave spectra from model outputs and insitu measurements
> Learn how to set up a model configuration of WAVEWATCH III®
> Create multiple (regular) grids and run the model with various inputs and outputs
> Running WAVEWATCH III® on an existing unstructured grid
> Sensitivity of model to forcing, numerics and parameterizations
> From research to routine applications: model CPU cost and trade offs

TARGET AUDIENCE

It is intended for graduate students, post-docs, researchers, engineers or consultant that are dealing with ocean wave data.

PROGRAM

The program will contain the following subjects. The detailed program is subject to minor changes.
> Wave modeling context
> WAVEWATCH-III framework
> Grid generation
> Model inputs and outputs
> Model implementation
> Results validation
> Wave spectra analysis
> Model sensivity analysis
More informations: https://gitlab.ifremer.fr/wave/Training/-/wikis/WW3-2025

Course completion

At the end of the training, the trainees obtain a certificate proving their participation. Individual attainment of training objectives will be measured via the training evaluation survey.

Teaching methods

> This training course takes place at IFREMER
> The training room is equipped with computers with all software required
> There is free wifi access
> To make this training course more interactive, poster sessions are organized to discuss participants works and projects related to ocean waves

ACADEMIC LEAD

Mickael ACCENSI, Wave modeling engineer, *Laboratory of Ocean Physics & Satellite remote sensing - IFREMER*

TRAINERS

The trainers for lectures and tutorials are :
> Fabrice ARDHUIN, Senior Research Scientist, *Laboratory of Ocean Physics & Satellite remote sensing - CNRS*
> Mickael ACCENSI, Wave Modeling Engineer, *Laboratory of Ocean Physics & Satellite remote sensing - IFREMER*
> Guillaume DODET, Research Scientist, *Laboratory of Ocean Physics & Satellite remote sensing - IFREMER*

PRACTICAL INFORMATION

Duration
33h spread over 5 days

Dates
Start : November 20, 2025
End : November 26, 2025

Location
IFREMER
1625 Route de Sainte-Anne, 29280 Plouzané
Ocean Meeting Room
GPS : 48.3567N, 4.5587W

Fees
Professional rate : 800€
Academic rate : 400€

REGISTRATION

> To subscribe to this training course, please fill in the form below
> Your participation confirmation will then be sent by mail

Online registration: **https://enquetes.univ-brest.fr/limesurvey/index.php/148872?lang=en**

ACCESSIBILITY

UBO's reception and access conditions for people with disabilities :
The university has a disability office called " Service d'Accompagnement des Spécificités (SAS)" dedicated to all member of its community.
You need further information? Please contact the continuing education and work-study disability adviser as soon as you start your registration procedures : +33 (0)2 98 01 80 42 / handicap.referentfc@univ-brest.fr

CONTACTS

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