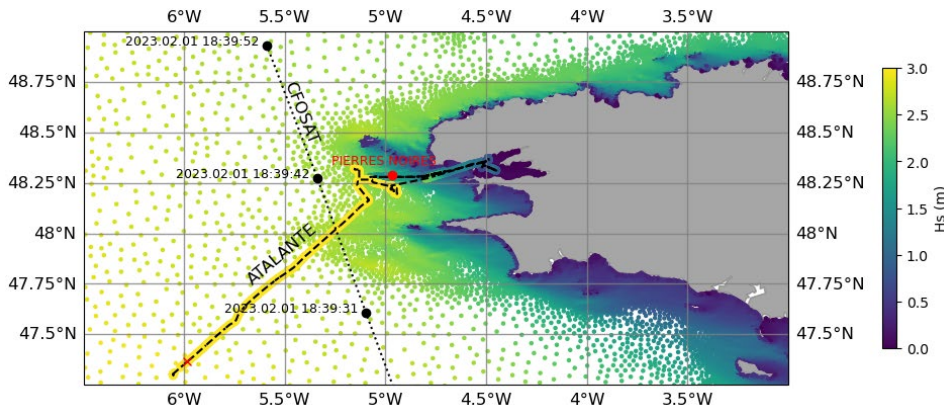


# TRAINING COURSE 2027 : OBSERVING AND MODELING OCEAN WAVES WITH WAVEWATCH III®, SATELLITES AND BUOYS



## DATES

November 2027

## 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

2027

#### 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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