



A new perspective on wave monitoring networks

OceanMet



EASME/EMFF/2017/1.2.1.12/S1/11 SI2.789296
"Cost-efficient Oceano-Meteorological Data Service for Reliable Real-Time
Information and Marine Forecast" - OCEANMET
Project funded by European Union under EASME "Sustainable Blue Economy,
2017 Call"

Project partners

- IH
- CLS
- Composite solutions
- CIS





Goals of the Project

- Create and validate the feasibility of a network of buoys installed using innovative techniques and platforms.
- Validate the data acquired by the network.
- Validate satellite data (altimeter and SAR data) with wave buoy data.

The network

The network was designed with the following principles in mind:

- Cover the most coast line as possible
- Each station should be close to a port or harbor, so data would be useful for professionals.
- The stations alternate with locations of existing wave buoys, in order to produce data where it is most needed.
- One test site specifically designed for validation tests was incorporated in the network.



Progress on the Project

- The following stations has been installed: Pasaia, Matxitxaco, Rivadesella, cabo Morás, Cabo silleiro, Abeiro, Sagres.
- IH has started their data validation process.
- The off-shore buoys has been designed and are currently in the late stage of manufacturing, soon to be installed.

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- During the last few weeks, several storms passed through the Iberian Peninsula
- These storms are perfect tests for the network.



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Future of the Project

- In the upcoming months, the installation of the network will be completed:
 - the remaining coastal stations will be installed
 - Three off-shore buoys with satellite communications will be installed
- Data gathered from the network will be validated by IH
- Satellite data will be contrasted with the data from the network
- The endurance and toughness of the network will be tested

The philosophy behind the project

The main goal behind this project:

- Reduce the cost for data
- Introduce new approaches to wave monitoring
- Validate the concept of the sustainable network
- Make instrumental wave data available to a wider audience

OceanMet is a new way to understand wave monitoring networks

Thanks for your attention!!



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