

# 7<sup>th</sup> EuroGOOS conference

## OPERATIONAL OCEANOGRAPHY FOR SUSTAINABLE BLUE GROWTH

Lisbon, 28-30 October 2014

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Celebrating 20 years of EuroGOOS

Céline Quentin

### High Frequency Surface Wave Radar in the French Mediterranean Ocean Observing System on Environment (MOOSE)

A Mediterranean Ocean Observing System on Environment (MOOSE) has been set up as an interactive, distributed and integrated observatory system of the North West Mediterranean Sea in order to detect and identify long-term environmental anomalies. The surface circulation in this region is characterized by a large-scale flow (Northern Current N-C) and by a broad range of other scales of variability induced by meteorological and tidal forcing. In this framework, the Mediterranean Institute of Oceanography (former L.S.E.E.T.) is operating High Frequency Surface Wave Radar (HFSWR). The ability of HFSWR is to provide synoptic observation as sea surface current map with high temporal resolution and over long distances, which can be used to study the spatial variability of the NC and Eddy dynamics. One site is already operational nearby Toulon for more than three years and is monitored in near real-time by WERA (Helzel Messtechnik). Its specificities array type antenna system in non-linear configuration and bistatic operation mode have required new development in the hardware, and in the processing (adaptation for the bistatism with direction finding method). These data were used during the TOSCA Med-project (Tracking Oil Spills & Coastal Awareness network). The second site will extend the radar observation and was just set up this year around Nice with two SeaSonde (Codar). We present here an overview of the HFSWR network, the surface current mapping facility offered by the system, and recent observation results and applications. MOOSE data management is entrusted by CORIOLIS and will use the MyOcean data distribution infrastructure.

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**European HF Radar meeting**  
**Monday 27<sup>th</sup> October 2014**  
**Lisbon**

<http://eurogoos.eu/events/hf-radar-pre-event-eurogoos-conference/>