



Fig. 1: Deployed SB-138 P buoy equipped with MOTUS wave sensor, DCPS, GMX200 weather sensor, and ATON AIS Type 3

First MOTUS Wave Buoy deployment in the Mediterranean Sea

Xylem and their Spanish partner SIDMAR, have just deployed a MOTUS Wave Buoy in the Mediterranean sea, in front of the Cartagena Port, Spain (fig. 1).

Inhabited for over two millennia and founded by the Fenicians, the city of Cartagena has always been a crucial base for commerce from the West to the East of the Mediterranean. It is a major naval station and a commercial harbour in the South East Coast of Spain.

The Cartagena Port Authority is a member agency of Puertos del Estado (Spanish Port Authorities) which operates two networks of oceanographic buoys: coastal and deepwater. The buoys are equipped with meteorological (MET) and current wave sensors that provide real-time data to help navigation. They also produce weather forecast that are made available to vessel traffic, Spanish MET agencies, universities, etc.

The Cartagena Port Authority chose Xylem to provide them with a new buoy equipped with directional wave sensors. With the support of our Spanish partner SIDMAR, Xylem delivered a Tideland SB-138P buoy



Fig. 2: Site of deployment, Cartagena, Mediterranean Sea



Fig. 3: MOTUS Wave Buoy

equipped with Aanderaa [MOTUS wave sensor](#), GMX200 weather sensor, Aanderaa [DCPS](#) and AIS Type 3. The buoy was successfully deployed at the end of May 2018, and represents the first MOTUS Wave Buoy in the Mediterranean Sea since its launch in the spring of 2017.

The capabilities of the MOTUS wave sensors, and our expertise in integrating a variety of sensors onto the buoy prove the flexibility of the MOTUS wave direction buoy for the monitoring solutions at the Cartagena Port. Launched in the spring of 2017, the MOTUS Wave Buoys have been in great demand since and are providing live data from oceans and seas to reaseach centers and harbour agencies around the world.

Data from the buoy off Cartagena has been integrated in the network of Puertos del Estado who has required a specific software to integrate the data into the network. Real-time data can be seen on the PCs of the Cartagena Port Authority using Aanderaa [Geoview](#) (fig. 4). The data are also integrated in the data network of Puertos del Estado (fig. 5), and available to the general public.

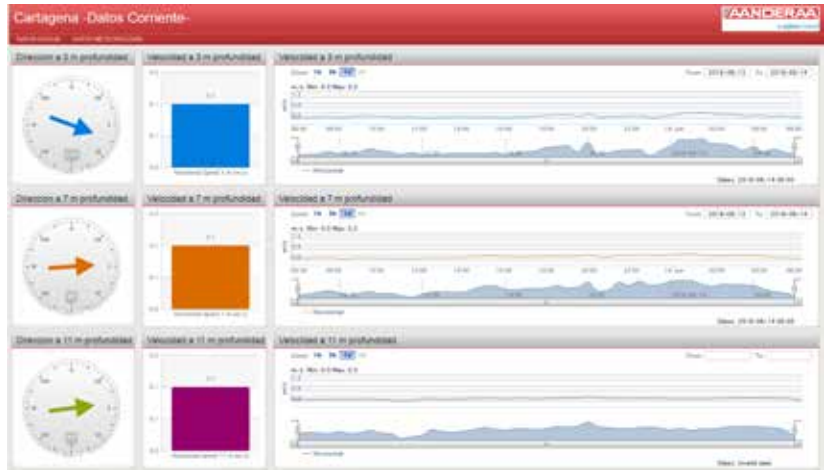


Fig. 4: GeoView showing live data from MOTUS Wave Buoy



Fig. 5: Puertos del Estado's network showing live data from MOTUS Wave Buoy



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