

## Sensors Metadata

### General information

Identification	ID	
	long name	Acoustic wave and current meter
	short name	AWAC
	manufacturer	NORTEK AS
	model	AWAC-AST 1MHz
Classification	application	With the AWAC, you get a current profiler and a wave directional system in one unit. You can measure the current speed and direction in 1-m thick layers from the bottom to the surface and you can measure long waves, storm waves, short wind waves, or transient waves generated by local ship traffic. Include a turbidimeter sensor Seapoint STM and a fluorometer sensor Turner Cyclops-7
	type	
	observation measurements	Wave period in seconds, wave direction in degrees, wave height in meters, turbidity in FTU, fluorescence in ug/l
Description	name	With the AWAC, you get a current profiler and a wave directional system in one unit. You can measure the current speed and direction in 1-m thick layers from the bottom to the surface and you can measure long waves, storm waves, short wind waves, or transient waves generated by local ship traffic. Include a turbidimeter sensor Seapoint STM and a fluorometer sensor Turner Cyclops-7
	keywords	Sensor, Marine Currents, Turbidity, Fluorescence
	text description	

### Constrains

Security	text	
Time Range	start	24/03/2010
	end	No end date
Legislative framework	rights, description	Data ownership: UPC-SARTI
	URL document	<a href="http://www.upc.edu/cdsarti/OBSEA/mdSensors/Documentos/Plantilla%20acord%20confidencialitat%20de%20dades%20-%20UPC%20SARTI.pdf">http://www.upc.edu/cdsarti/OBSEA/mdSensors/Documentos/Plantilla%20acord%20confidencialitat%20de%20dades%20-%20UPC%20SARTI.pdf</a>

### Properties

Characteristics	physical properties	
	memory	2MBytes
	battery	
	URL document	<a href="http://www.upc.edu/cdsarti/OBSEA/mdSensors/Datasheet/Datasheet_AWAC.pdf">http://www.upc.edu/cdsarti/OBSEA/mdSensors/Datasheet/Datasheet_AWAC.pdf</a>
Capabilities	text description	
	resolution, ranges	Velocity range: 10 m/s (1% of precision $\pm 0.5$ cm/s), Wave measurement: 40m (sampling rate 1Hz/2Hz), Temperature range: -4°C to 40°C (Resolution 0.01°C, Accuracy 0.1 °C), Wave Turbidez (Seapoint; max sens. 200mV/FTU, rango 0-750 FTU), Fluorímetro (i.e. determinación de la concentración de chlorophyll (Cyclops; sens. 0.025ug/l, rango 0-500ug/l)
	quality	
	URL capabilities	<a href="http://esonet.epsevg.upc.es:8080/OostethysObseaSos/sos?VERSION=1.0.0&amp;SERVICE=SOS&amp;REQUEST=GetCapabilities">http://esonet.epsevg.upc.es:8080/OostethysObseaSos/sos?VERSION=1.0.0&amp;SERVICE=SOS&amp;REQUEST=GetCapabilities</a>

### References

Contact	data provider	UPC SARTI, Centre Tecnològic de Vilanova i la Geltrú Rambla Exposició 24 Edifici, C - 08800 Vilanova i la Geltrú (Barcelona)
Documentation	URL document	<a href="http://www.cdsarti.org/">http://www.cdsarti.org/</a>

### History

Installation	Dates, operator	Installed in OBSEA on 24/03/2010. Instrument operating normally except in summer season
Calibration	Dates, report	

### Components

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### Location

	postal address	
	latitude	41° 10.920'N (41°10'55.20"N)
	longitude	1° 45.141'E (1°45'8.46"E)
	height	Height above street level: (-)20 metros

### Geographic coverage

Geographic coverage	bounding box	
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### Data access

Address	URL	<b>Web Interface:</b> <a href="http://www.obsea.es/">http://www.obsea.es/</a>
Constrains	description (text)	