ITALIAN UPDATE 2017

CNR “OFFICE FOR PLANNING” - Central Management for Planning and Infrastructure
segreteria.uspo@crn.it

RV MINERVA UNO

Category: Regional
Gross Register Tonnage (GT): 615
Length overall (m): 46.6
Breadth (m): 9.0
Depth (m): 4.5
Draft (m): 4.6
Max speed (kn): 13.0
Service speed (kn): 10.8
Main engine (kW): 2x4746
Endurance: 30 days
Crew: 12 people
Scientific personnel: 13 people
Built year: 2003
(upgrading 2013 and 2014)

Activities

- Panther Cruise of the EU project FUNDED BY EUROFLEETS2 PROJECT

Vessel Positioning and Cruise Database

- Science Vessel Positioning and Cruise Database
- VESSELS DATABASE

Oceanographic Tower Acqua Alta

Authors: Pomaro Angela, Sclavo Mauro, Bastianini Mauro

Location (GPS): 45°18’51.29”N -12°30’29.69”E
Height: actual 12.55 m s.l.m.
(future 14.55 m s.l.m.)
Docks surface: (within the main pillars): 35 m²
Installation depth: 16 m
Distance from the coast: about 8 nautical miles
Housing facilities: 5 people in complete autonomy for about 1 month

Research Infrastructure

LTER - Long Term Ecological Research Network

Equipment

- Real time transmission and communication capabilities, ICT infrastructure, Biological laboratories, Housing facilities; Electrical supply by photovoltaic panels, wind turbines and diesel generators.

Recorded Time-series

Meteo (air temperature and atmospheric pressure, wind speed, gust and direction, RH, precipitation), ocean (temperature, salinity, dissolved Oxygen, fluorescence, turbidity, current speed and direction, sea level height, wave height, period and direction, underwater images).

Originally installed in March 1970, after more than 40 years of scientific research activity, the Aqua Alta Oceanographic Tower is completing a renovation program, which envisages a reinforcement of the underwater structures and a thorough refurbishment of the superior structures and technological systems, including the elevation of the main decks by about +2.00m. This maintenance program represents a great effort of the Italian National Research Council, thus confirming the scientific interest and opportunity offered by this unique infrastructure, which includes long-term measurement datasets, the recent developments in the field of storm surge forecasting and the release of two innovative patents in the field of vision-3D surface reconstruction of sea waves.

The Italian National Research Council is committed to the dissemination of the research activities within the scientific community and the general public, as demonstrated by the publication of the measured data in an OpenData perspective and by the release of the smartphone application "ISMAR Data".

Authors: Pomaro Angela, Sclavo Mauro, Bastianini Mauro

Location (GPS): 45°18’51.29”N -12°30’29.69”E
Height: actual 12.55 m s.l.m.
(future 14.55 m s.l.m.)
Docks surface: (within the main pillars): 35 m²
Installation depth: 16 m
Distance from the coast: about 8 nautical miles
Housing facilities: 5 people in complete autonomy for about 1 month

Research Infrastructure

LTER - Long Term Ecological Research Network

Equipment

- Real time transmission and communication capabilities, ICT infrastructure, Biological laboratories, Housing facilities; Electrical supply by photovoltaic panels, wind turbines and diesel generators.

Recorded Time-series

Meteo (air temperature and atmospheric pressure, wind speed, gust and direction, RH, precipitation), ocean (temperature, salinity, dissolved Oxygen, fluorescence, turbidity, current speed and direction, sea level height, wave height, period and direction, underwater images).

Originally installed in March 1970, after more than 40 years of scientific research activity, the Aqua Alta Oceanographic Tower is completing a renovation program, which envisages a reinforcement of the underwater structures and a thorough refurbishment of the superior structures and technological systems, including the elevation of the main decks by about +2.00m. This maintenance program represents a great effort of the Italian National Research Council, thus confirming the scientific interest and opportunity offered by this unique infrastructure, which includes long-term measurement datasets, the recent developments in the field of storm surge forecasting and the release of two innovative patents in the field of vision-3D surface reconstruction of sea waves.

The Italian National Research Council is committed to the dissemination of the research activities within the scientific community and the general public, as demonstrated by the publication of the measured data in an OpenData perspective and by the release of the smartphone application "ISMAR Data".