

Italian Update 2012

Operative Programming Office - Central Management for Programming and Infrastructures

segreteria.upo@cnr.it

YEARS	N. SURVEYS	DAYS AT SEA
2011	25	327
2012	23	333

“Urania” Research Vessel

MAIN TECHNICAL FEATURES

- Category: Regional
- Weight: 1115 GRT
- Length (m): 61.3
- Width (m): 11.1
- Height (m): 5.3
- Draft (m) : 3.6
- Max speed (knots): 14.5
- Average speed (knots): 11.0
- Endurance: 45 days
- Crew: 16 people
- Scientists personnel: 20 people
- Built year: 1992

YEARS	N. SURVEYS	DAYS AT SEA
2011	23	304
2012	29	292

“Dallaporta” Research Vessel

MAIN TECHNICAL FEATURES

- Category: Regional
- Weight: 285 t
- Length (m): 35.3
- Width (m): 7.7
- Height (m): 4.1
- Draft (m) : 3.0
- Average speed (knots): 11.5
- Crew: 8 people
- Scientists personnel: 12 people
- Built year: 2001

FP7 EUROFLEETS (INFRA-I3)
TOWARDS AN ALLIANCE OF EUROPEAN RESEARCH FLEETS
 24 partners from 16 countries (14 EU Member States + 2 associated countries) + 3 associated partners, lead by IFREMER

EUROFLEETS (September 2009 - August 2013) aims at bringing together the existing European research fleet owners, to enhance their coordination and promote the cost effective use of their facilities in order to support the efficient provision of essential research services for monitoring and sustainable management of the Regional Seas and the Oceans and allow access to all European scientists.

RV URANIA

CNR main involvement: strategic coordination vision, up to date software to facilitate trans-national access, eco-responsibility and ecodesign, operational issues, training and education.

EUROFLEETS is a 48 months project

RV URANIA: management of instrumentation until 4 t weight, over 2 m x 20 m x 4 m by cranes and hydraulic A-frame. Water column measures and samples @ maximum depth 5.000 m) by Shipboard Acoustic Doppler Profilers, multiparametric system, drilling, box cores, dredgings and grabs. Moreover Batimorphological systems (multibeam echo sounder for medium depth, side scan sonar, sub bottom profiler with chirp technology), magnetometer and high definition seismic systems. Equipped with dynamic positioning system and also high-low frequency acoustic positioning system.

FP7 JERICO (INFRA-I3)
TOWARDS A JOINT EUROPEAN INFRASTRUCTURE NETWORK FOR COASTAL OBSERVATORIES
 26 partners from 15 European Countries, lead by IFREMER

JERICO aims at creating a solid and transparent organization towards an operational service for the timely, continuous and sustainable delivery of high quality environmental data and information products related to the marine environment in European coastal seas. It will promote joint research initiatives and standardization, giving a lift to the industrial sector of coastal instrumentation and monitoring services. The infrastructure organization is devoted to the automated in situ coastal and shelf seas observation, in complement to the satellites (handled by GMES) and to the automated in situ oceanic systems (such as those developed under the ESFRI projects EURO ARGO and EMSO).

CNR main involvement: trans-national access for users including from non-EU Countries (WP leader), emerging technologies, harmonizing technological aspects, operational and maintenance methods.

JERICO is a 48 months project

Infrastructures for marine design and testing

Two towing tanks
 #1) Among the largest worldwide (470 x 13.5 x 6.5 m, carriage max. speed 15 m/s);
 #2) Half of #1, but equipped with a wavemaker for rough sea experiments

Two circulating channels

Laser facilities (Doppler or Particle Image Velocimeters), acoustic probes etc.

Water flume (with inclined floor)

Slushing lab

Prototype/model factory

PLATFORMS and fixed stations

Where	What
Gulf of Trieste	3 inshore meteo stations 1 meteo-marine station 1 tide gauge station PALOMA station and mast
Gulf of Venice	Accua Alta oceanographic station Coastal HF radar Abate meteo-marine station
Venice Lagoon	5 hydro-bio-chemical stations
Po Delta	multi-parametric buoy
Torre Predera (Rimini)	multi-parametric buoy
Ancona	TeleSenigallia mast 1 meteo station
Strait of Messina	Kobold Platform
Sicily channel	2 underwater stations
Corisca channel and Capraia	Underwater station
Mar Ligure – Open Sea	1 spar buoy tide gauge station 1 subsurface mooring