SOCIB Balearic Islands Coastal Observing and Forecasting System

R/V SOCIB

LENGTH	23.76 m
BEAM	9.00 m
MOULDED DEPTH	3.40 m
DRAUGHT	1.75 m
ENGINES	2 x MTU 1.622 HP
PROPULSION	Propellers
MAXIMUM VELOCITY	27 Knots
CRUISING VELOCITY (FULLY LADEN)	22 Knots
ACCOMMODATION	16 persons
BUILDER	Rodman Polyships S.A.U.
RANGE (FULLY LADEN WITH RESERVES)	500 miles
DISPLACEMENT TONNAGE	53 tonnes

The **R82** was constructed by Rodman Polyships and delivered in September 2012 to SOCIB (Balearic Islands Coastal Observing and Forecasting System). This advanced catamaran will undertake oceanographic research projects in coastal and open ocean areas around the Balearic Islands.

The vessel is able to accommodate 16 people (scientists, crew and technicians) to support campaigns of up to 7 days of 24-hour operations. The advanced **R82** new design combines high speed with stability, essential for fast and comfortable transit to operational sites and stability in scientific operations once on site.

The vessel has two main engines, MTU 12V2000M84 of 1220 kW (1659CV) at 2450 rpm, 2 x ZF 3000 A i=2,520:1 gearboxes with VULKAN plastic coupling (under regulation CVT), 2 x STAMEGNA SM300 primary generators with 28 kVA (kW) active potential.

Living Space

The **R82** has a spacious bridge with 360° visibility, wet and dry laboratories (27 m^2), spacious mess/meeting area, fully equipped kitchen and seven cabins, three double, two single, two cabins for four persons and a spacious deck (60 m^2).

Deck Equipment

- Crane FASSI F40 AFM.21, maximum extension 4.90 m at 825kg at the stern.
- Crane FASSI 110 AFM.23, maximum extension 9.95 m at 945kg at the stern.
- A winch with LEBUS spooling system and capacity for 3000 m of INOX cable of 6 mm.
- An oceanographic winch with LEBUS spooling system, with 3000 m of coaxial cable of 8 mm on (turn table) slip ring assembly.
- Two A Frames one to stern and one to starboard.

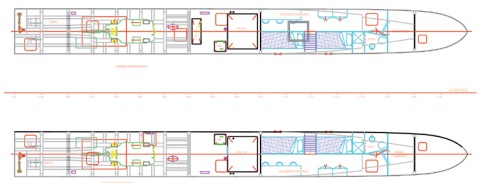
Navigation Equipment

- EPIRB SAILOR SGE 406II
- DGPS Receptor
- AIS System Furuno FA-50
- Radar transponder TRON SART 20
- Dynamic Positioning SIMRAD – Kongsberg
- Radar / ARPA Furuno FR-8122
- Gyroscope SIMRAD RGC-80
- VHF Radio Furuno FM-8800S and MF/HF
- Iridium phone
- Radar/Chart Plotter Furuno M-1944C
- Auto-pilot SIMRAD AP

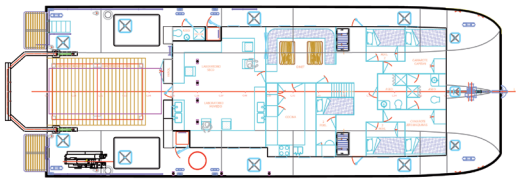
Onboard Scientific Equipment

- SB32 Water Sample Carrousel (12 bottles)
- SBE 911Plus CTD with additional sensors (Oxygen, Fluorometer, PAR, etc.)
- MOCNESS Plankton Net
- Thermosalinometer SB21 continual analysis and Fluorometer Turner 10AU
- Salinometer Portasal 8410ª
- Water purifier Millipore Helix 10
- 150 kHz ADCP (Ocean Surveyor)
- Simrad 12-16/60 (12 kHz) dual beam transducer
- FURUNO CI-68BB Doppler Sonar Current Indicator
- Furuno FCV-295 28&50 kHz echo sounder
- Digital Meteorological Station

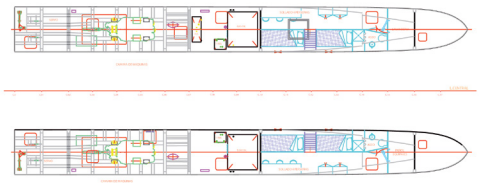
PLAN UPPER DECK



PLAN MAIN DECK



PLAN LOWER DECK



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Govern de les Illes Balears
FONDO EUROPEO DE DESARROLLO REGIONAL

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