

| | |
|--|--|
| INFRASTRUCTURE/FACILITY | <i>MCN 1676</i> |
| INFRASTRUCTURE/FACILITY | <i>MCN 1676</i> |
| LOCATION OF INFRASTRUCTURE/FACILITY | <i>Genoa Harbour</i> |
| LEGAL NAME OF OWNER ORGANIZATION | <i>Italian Navy – Italian Hydrographic Institute</i> |
| COUNTRY | <i>Italy</i> |
| CONTACT | <i>Passo dell'Osservatorio 4 - 16134 Genova Italy Phone Number: +39 010 2463528</i> |

DESCRIPTION

| | | |
|---|----|------|
| Webiste: <u><i>Istituto Idrografico della Marina Militare - Marina Militare</i></u> | | |
| RI/ Facility participating in an ERIC | NO | ERIC |

INSTRUMENTS AND AUXILIARY EQUIPMENT

| Instrument/ Auxil. Equip. | Measured Parameter(s) | Elevation / Depth | Sampling | Frequency of data recovery |
|--|----------------------------------|------------------------------|-----------------|---------------------------------------|
| Multi Beam Echo Sounder R2Sonic 2022 UHR | Bathymetry | 100 m | /// | 200 KHz – 400 KHz – 700 KHz |

| | | | | |
|---|--|--------|---|------------------|
| Single Beam Echo Sounder Knudsen Sounder 1602 | Bathymetry | 2000 m | /// | 24 KHz – 210 KHz |
| INS System Applanix PosMV Wave Master + R2 SONIC I2NS; | GPS, Positioning ed Inertial Navigation System | /// | /// | /// |
| Laser Scanner Carlson Merlin dual head | Vessel LIDAR | 200 m | /// | Laser Class 1 |
| Valeport Swift SVP Profiler | Sound Speed | 500 m | Sound Speed – Temperature - Pressure | /// |

ACCESS PROVIDED

Physical (In person/hands-on): the presence of the user team is required during the whole operation period

SPECIAL REQUIREMENTS

| | |
|--|---|
| Num of access/Call; | Nil |
| Max period granted in the year: | 20 days |
| Exclusion Periods in the year: | Spring/Summer |
| Max period granted per single user team (working day; days for R/V) | 5 Working Day per week |
| Max num of user team members admitted | 5 pax |
| Admin/Safety requirements for the user team (free itemized text) | P.P.E. request on board (safety shoes, life jacket, split leather gloves) |
| Min # days/months of notice to the RI Resp/PI for preparing the access | Nil |
| Geographical Areas where RI/facility access is granted to user teams | Italy – Liguria - Genoa |

Survey Boat MCN 1676



| Main Characteristics | "V" Hull - Fiberglass | |
|--------------------------|---|----------------------|
| Propulsion System | Primary engine: FNM HPE 300 (inboard engine single screw) Power: 295 CV Fuel: Diesel Auxiliary engine: Suzuki DF40ASTL (outboard engine) Power: 40 CV Fuel: Petrol | |
| Max Speed | 20 Kts | |
| Dimension | Lenght Overall | 10,00 m |
| | Breadth | 2,80 m |
| | Draught | 1,50 m |
| Electric System | Diesel Generator (220 V AC) | Battery (12 V DC) |
| Tonnage | 4,7 tons | |

Hydrographic Systems:

| GPS and Inertial Navigation System | Singlebeam Echo Sounder | Multibeam Echo Sounder | Acquisition Software | Marine LIDAR |
|--|--|---------------------------------------|------------------------------------|-----------------------------|
| R2 Sonic I2NS + Applanix PosMV Wave Master | Knudsen Sounder 1602 (24 KHz – 210 KHz) | R2SONIC 2022 (200 – 400 – 700 KHz) | QPS Qinsy 9/ PDS 2000 Survey | Carlson Merlin Dual Head |

Oceanographic Systems:

| CTD Sensor | Oceanographic Crane | Oceanographic Grab |
|--------------------|--|--------------------|
| Sea&Sun CTD 90M | Max Length of the Crane Arm: 3 m Rotation Angle: 290° Crane Reach: 50 Kg | Van Veen 18 Lt |

Auxiliary Navigation Systems:

| Gyro Compass | Looking Forward Sonar | Radar | Autopilot |
|----------------------|------------------------------|---------------------|------------------|
| Yokogawa Cmz 900B | Echopilot Sonar 3D | Simrad Broadband | Simrad AP24 |

Main Survey/Scientific Characteristics:

- to conduct litoral and coastal hydrographic surveys, to conduct harbour survey for grantee the safety navigation in accordance with International Hydrographic Regulations;
- to research obstacles and wrecks on the sea floor;
- to conduct oceanographic surveys, with particular reference to the physico - chemical parameters of the sea water and the physical composition of the seabed.