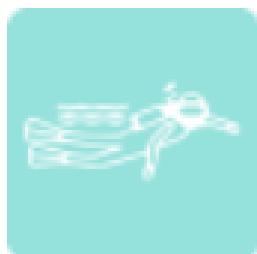


# EMBRC-IT

## Service Catalogue



## ACCESS TO ECOSYSTEMS

SUBCATEGORY	INSTITUTE	SERVICE DESCRIPTION	CONTEXTUAL INFORMATION
Coastal research vessels	CNR-IAS-CG	Coastal research vessels for biological sampling and oceanographic parameters collection in the Strait of Sicily or at the Mediterranean scale	Research vessel "Luigi Sanzo", 15 m LOA with hydraulic crane can be operated at the Mediterranean scale. Support vessel "Bio4U", 7.5 m LOA, can be operated around Sicily <12 nm. In both cases support to diving and sampling is available.
Coastal research vessels	CNR-IRBIM-L	Access and sampling of intertidal areas of the Lesina lagoon (small aluminum boat for lagoon waters, 4 m)	Access to Lesina lagoon by research vessel "Sandalo" (length 6m). Equipment for sampling (Niskin bottles, multiparametric probes, box-corer, phytoplankton and zooplankton nets) is available. A number of inverted microscopes is available for phytoplankton samples cells counting is available.
Coastal research vessels	CNR-IRSA-T	Access and sampling in the Mar Piccolo of Taranto, Ionian Sea transitional site (sampling of water, sediment, phyto, zooplankton, benthos) on the boat Gerax-Vorax	7 m outboard boat equipped for diving support and light sampling. Support to diving and sampling (Niskin bottle, light Van Veen Bucket, plankton nets, dredge for benthos collection) is also available.
Coastal research vessels	CNR-ISMAR	Access/ sampling in the Venice lagoon and nearby marine coastal sites (sampling of water, sediment, phyto, zooplankton, benthos, microplastic debris)	One 5 meter and one 10 meters length small vessels for access and sampling Venice lagoon, with possibilities of accessing LTER sites (5 lagoons + 1 offshore LTER sites, urban channels, saltmarshes, seagrass beds, Venice industrial and harbour areas), north Adriatic coastal sites and tegnue coralligenous banks (Chioggia). Access provided to laboratories for collected sample handling, observation under microscopes (stereo, optical, direct inverted EF microscope) of plankton, benthos, microbes, basic molecular facilities (electrophoresys,





			PCRs), chemical and microbiological hoods, refrigerated centrifuge, autoclave, etc
Coastal research vessels	CONISMA-POLIBA	Field stations for environmental data monitoring in the Taranto area	The laboratory, unique in Italy for its dimensions, occupies a floor area of about 12,500 sq m., most of which is used for the large tanks, as described below, in which studies on three-dimensional and two-dimensional physical models of beach and port protection structures are performed. The lab has various experimental and measurement instrumentations as well as of support workshops, water treatment systems, computing center , classroom and computer rooms for students. Several field instruments (for the measure of some meteomarine parameters), permanently installed at the Taranto's Mar Grande and Mar Piccolo have to be considered as an integral part of the Laboratory. Further informations can be found in the dedicated datasheet: <a href="https://docs.google.com/spreadsheets/d/1b7T0JhyAQDEpk09wunLjKHO3SLFM009y/edit?usp=share_link&amp;oid=116656549857348920315&amp;rtpof=true&amp;sd=true">https://docs.google.com/spreadsheets/d/1b7T0JhyAQDEpk09wunLjKHO3SLFM009y/edit?usp=share_link&amp;oid=116656549857348920315&amp;rtpof=true&amp;sd=true</a>
Coastal research vessels	CONISMA-UNICAM	Access to marine ecosystems Costa del Piceno S. Nicola a Mare SIC and Riserva Naturale Regionale Sentina (Intertidal sandy habitat, Subtidal rocky / hard habitat, Subtidal soft bottom, Coastal dunes)	Diving professionals support is available. Sample processing is available on request: dissecting microscopes, stereomicroscopes, scales, -80 and - 20 freezer; coastal/dunal vegetation and marine macrofauna taxonomic identification; climate controlled room with experimental running seawater tanks for maintenance and experiments on marine organisms; sample analysis using UV-VIS spectrophotometry, GC-chromatography, HPLC analysis with UV-VIS and fluorescence detection, HPLC MS/MS; basic and advances molecular biology lab; qPCR; iSEQ 100 Illumina benchtop sequencer.
Coastal research vessels	CONISMA-UNIPD	Access to the Venice lagoon, North-Western Adriatic shores, MOSE platform in the port of Chioggia (2 motorboats) with equipment for sampling and sample study	Provision of boat and gears for sampling of different organisms from water column to the bottom, gears for underwater observations and sampling. Available sampling equipment is: Underwater PAM/IIR Walz, underwater cameras and digital camcorder, diving equipment, DGPS (Differential GPS), rangefinder, box corer, van Veen grab, manual corers, CTD data loggers, pH-meters, refractometers, conductivity meters, oxymeters), underwater drone,



			<p>portable single-beam and side scan sonar</p> <p>Collected samples can be manipulated in fully equipped Benthic Lab (coulter counter, multisizer, CHNS / O, spectrophotometer, microscopes, image analysers, ovens, muffle, sieves column, filtering systems, balances).</p> <p>Available microscopes for sample observation are: LEICA DMLB Light Microscope, LEICA MZ95 Dissecting microscope, LEICA DFC420 Videocamera connected to microscope and dissecting microscope. Contextual basic molecular biology services (Thermal cyclers, microcentrifuge, spectrophotometric system for DNA quantification, DNA electrophoresis system) can also be provided.</p>
Coastal research vessels	CONISMA-UNISALENTO	14 m Research vessel equipped with ROV (0-120 m depth operational range), onboard SCUBA tank refill station, underwater SCUBA scooters, multi-parameter probe Hydrolab HL7 SN; Air and NITROX SCUBA diving facilities. Rubber boats for coastal sampling campaigns.	Research vessel PELAGIA Aquatic Mobile Lab (12.5 ton, length 14.5 m, engine power : 2 x 350 HP, cruise speed : 15 kn, max # persons 10 sci staff + 2 crew members); sampling equipment: grabs, dredges, plankton and neuston nets, NISKIN bottles, SCUBA facilities (tanks, air or NITROX refilling stations). Contextually, samples can be taxonomically identified and studied via microscopy (light microscope, dissecting microscope, videocamera, image analysis system) and basic molecular biology lab (including DNA barcoding and eDNA metabarcoding) on request
Coastal research vessels	CONISMA-UNIURB	Coastal research vessel "Athena" used for ecosystem access to NW Adriatic Sea for plankton sampling and SCUBA activities Access to NW Adriatic Sea for sampling and diving.	Vessel Specifics: max 6 nautical miles offshore, 24 nm per day , 30 m depth , sandy bottom using the Research vessel Athena (6.62 ton, Engine power : 2 x 130.5 HP, Cruise speed : 15 kn, Max people crew included: 6). Pesaro Porto sampling equipments: multiparametric probes (IDRONAUT ocean7 316) with 50m cable; phytoplankton nets; water filtration systems; support to scientific scuba diving, underwater towed video camera. Support to scientific SCUBA diving Current meter (IDROMAR SENSORDATA SD 4), Van Veen grab (25 L), Box corer (WxL: 9x16 cm, H: 24 cm). Contextual taxonomic identification available.
Coastal research vessels	ENEA-LS	Access to coastal research vessels for exploration of coastal marine sites in natural areas including Natural Regional Park of Porto Venere	Available ecosystems are: natural and artificial substrates; Posidonia meadows, coralligenous habitat, marine animal forest, bioconstructional calcifying



		and the islands (Palmaria, Tino) and the Cinque Terre National Park and impacted areas (La Spezia port). Access to Smart Bay Santa Teresa ( <a href="https://smartbaysteresa.com">https://smartbaysteresa.com</a> ).	ecosystems, intertidal rocky shores and bio-fouling communities. Vessels are: a motorboat equipped for diving, sediment coring, grab sampling, hydrological sampling; small boat for diving and snorkeling activities and hydrological sampling. Associated sampling equipment for: hydrological parameters, sediments, benthos for hard and soft bottoms, plankton Diving unit equipped with compressor and tanks. Personal diving equipment can be rented at local diving centers. Diving facilities are used to access ecosystems. Diving team includes two experienced scientific and polar divers; Diving unit equipped with compressor and tanks
Coastal research vessels	ISPRA	Access to Coastal research vessel LOA "Astrea" (26m) for biological sampling and oceanographic parameters collection in the Strait of Sicily or at the Mediterranean scale.	Research vessel "Astrea", 26 m LOA can be operated at the Mediterranean scale.
Coastal research vessels	OGS	Access to the Gulf of Trieste, including station C1-LTER, with 10 m research vessel MEDUSA, equipped for manual seawater sampling (Niskin bottles, phytoplankton nets, CTD)	A 10 meters vessel is available for manual seawater sampling (Niskin bottles, phytoplankton nets, CTD). Other boats can be rented on site if sediment sampling, zooplankton nets or the use of a rosette sampler is required. Max water depth for sampling is 25 m.
Coastal research vessels	SZN	Access to Coastal research vessels (M/B Phoenicia 10m; Oceanographic Boat "Vetoria" 15m) in the Gulf of Napoli; on request collection of planktonic organisms through screenings or samples from Niskin bottles, of benthic organisms with dredging, coring, grab or scuba diving and acquisition of images and films in immersion are available.	Availability of two boats: one pilot boat for small operations, and one vessel complete with crew and equipment for sampling activities, Collection of planktonic organisms through screenings or samples from Niskin bottles. Collection of benthic organisms with dredging, coring, grab or scuba diving. Acquisition of images and films in immersion is available on request.
Coastal research vessels	UNIMIB-MarHE	Access to island environments in the Maldives renting the Maldivian Dhoni Boat for Day Trip (capability of 50 people).	Access to different island environments in the Maldives, Faafu atoll (uninhabited/local/resort islands), coral reef habitats and associated reef habitats (seagrass meadows), Dhoni boat (75 feet). Basic sampling equipment is available onboard. Basic molecular characterization of collected organisms is available in the center (Environmental DNA Analysis).
Coastal research vessels	UNIVPM-DISVA	Access to research vessels in the Ionian Sea ecosystem. Vessels can be equipped with sensors, sampling equipment	Technical and scientific staff for the research vessel and sampling activities; sampling devices: CTD, box corer and different sampling nets;



		and ROV, and the support of UNIVPM scuba divers can be asked on request.	water and sediment samples collection and storage
Sampling equipment	UNIFE	Access to equipment for environmental sampling in the Po Delta (Underwater drone, manta trawl, van veen grab, corers, water samplers).	Contextual sorting, identification and isolation of phytoplankton, zooplankton, benthos from natural samples is available on request. Contextual microscopy use (Scanning electron microscopy ZEISS EVO40, Transmission electron microscopy Hitachi H800, Zeiss EM 900, Atomic force microscopy Nanoscope III) is available on request.
Scientific diving	UNIMIB-MarHE	Access to MaHRE Center Scientific Diving Center, with the possibility to rent diving equipment or participate to scuba dive sessions from Dhoni Boat or from the coast	Renting of different materials (Wet Suit, Regulator, BCD, Mask + Snorkel, Fins, diving tank), Scuba dive from Dhoni Boat



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