INFRASTRUCTURE/FACILITY	CRIMAC – Calabria Marine Centre
INFRASTRUCTURE/FACILITY	Functional Area: "Coastal and deep environments monitoring - Mesocosms"
LOCATION OF INFRASTRUCTURE/FACILITY	Contrada Torre Spaccata, Località Torre Spaccata, 87071 Amendolara (CS) Lat. 39°57'32.4"N, Long. 16°37'36.0"E
LEGAL NAME OF OWNER ORGANIZATION	Stazione Zoologica Anton Dohrn - Calabria Marine Centre - Amendolara seat
COUNTRY	Italy
CONTACT	<u>direzione.calabria@szn.it</u> Dr. Chiara Giommi <u>chiara.giommi@szn.it</u>

DESCRIPTION

The mesocosm facility at CRIMAC is an experimental research system that allows experiments to be carried out under highly controlled conditions on a small scale. The benefits of studies using such systems are many, as they allow experiments with complex experimental designs to be carried out with many replications. Mesocosms are available to researchers, technologists and PhD students at universities and research institutes around the world.

Inside a thermostatically controlled chamber, there are 20 aquariums of approximately 40 litres (30x47x28cm) made of forex with a transparent methacrylate front, divided into 2 'twin' systems, each consisting of 10 tanks distributed in two rows.

Depending on the experimental requirements, it is possible to work with a closed, semiopen or open system.

There are also two independent systems reserved for the maintenance of marine organisms with a closed or semi-open system, which are used both for acclimatisation and as quarantine tanks.

The temperature and pH of the water in each tank can be individually controlled and manipulated in each mesocosm thanks to the presence of automatic temperature and pH control systems.

 The light intensity can be adjusted thanks to the adjustable lamps.

 RI/ Facility participating in an ERIC

 NO

ANALYTICS/EXPERIMENTAL INFRASTRUCTURES/FACILITIES

ТҮРЕ	SERVICE DESCRIPTION	ADDITIONAL INFORMATION	
Aquaria and tanks	Maintenance of marine organisms. Studies on the effects of warming, acidification and microplastics on marine organisms	20 experimental tanks with automatic temperature and pH control	Each tank has its own circuit with a volume of approximately 40 litres (30x47x28cm).
Aquaria and tanks	Maintenance of marine organisms. Acclimatisation. Quarantine.	Two independent twin systems divided on three levels	High level: 70 L tank. Middle level: 2 x 25 L tanks. Lower level: Sump
Environmental variables	Loggers	Hobo data loggers	Temperature, light intensity, pH, conductivity and dissolved oxygen
Environmental variables	Parameter check	Hanna Instruments Portable pH/EC/DO meter	pH, redox, conductivity, dissolved oxygen and temperature.

ACCESS PROVIDED

<u>Physical (In person)</u>: the presence of the user team is required during the whole operation period.

<u>Partially remote</u>: Some environmental parameters can be checked remotely

SPECIAL REQUIREMENTS

Num of access/Call;	4

Max period granted in the year:	3 months
Exclusion Periods in the year:	Easter holidays, August and December
Max period granted per single user team (working day; days for R/V)	4/5 weeks
Max num of user team members admitted	6
Admin/Safety requirements for the user team (free itemized text)	N/A
Min # days/months of notice to the RI Resp/PI for preparing the access	6 weeks
Geographical Areas where RI/facility access is granted to user teams	Med region, SZN Calabria - Amendolara (CS)