ARCHAEOLOGICAL MAPS OF MENORCA In 1996, the Amics del Museu de Menorca (Friends of the Museu de Menorca) Association initiated a

UNDERWATER

of underwater cultural heritage of Menorca's coast.

research project aimed at the study and conservation



heritage, and the lack of trustworthy information on the state of conservation of the relatively few known

PROJECT GOALS

cultural heritage.

following:

island.

MADE

submerged archaeological and historical sites around the island's coastline, opted to initiate the creation of these underwater archaeological maps. It was then that this Menorcan institution posed the Friends of the Museu de Menorca the need to execute a long-term scientific project designed to compile a catalogue of underwater sites around the Menorcan coastline. The project's stakeholders include the Island Council

of Menorca's (CIMe) Department of Culture, through

faced with increased public and private construction

projects affecting the coastline, alarming news

regarding the continuous plundering of underwater

its Heritage Services Department, which provides economic support to the project, the Museu de Menorca, offering its facilities and scientific expertise for the project, and Amics del Museu de Menorca, which coordinates underwater research tasks.

3) Protect, conserve and carry out scientific study of the sites included in the prospecting work. 4) Raise awareness among the Menorcan community regarding the island's underwater cultural heritage and the importance of its archaeological and historical value, so as to avoid its destruction and plundering.

The research project's principal goals include the

1) Create an underwater archaeological map of the

2) Evaluate the state of conservation of its underwater



HOW UNDERWATER ARCHAEOLOGICAL MAPS ARE

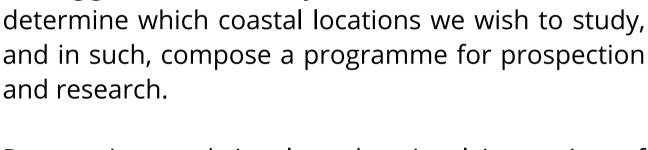
First, it is important to clarify why the term "under-

water" archaeology is used, instead of "submarine"

archaeology. The term "submarine", implies sites found

only beneath the sea, and hence excludes any that may

be found submerged in rivers, lakes, or caves flooded



certain exceptional cases are objects extracted from

the sea floor, and when deemed necessary, only with

previous authorisation from CIMe's Heritage Services

During dives, photos and video recordings are taken of

the sites and their remains. The information gathered

is utilised to determine the type of site discovered

and its chronology, while also serving to compare

with data that will be obtained on future dives to help

assess their state of conservation. Sites are located by

The third step involves recording all the data obtained

in the previous two steps in an archaeological file. These

files, together with the annual report on completed

tasks, are sent to CIMe's Heritage Services Department

for inclusion in the catalogue of archaeological and

means of a global positioning device (GPS).

Department.

historical sites of the island of Menorca for their protection. The final phase, and one of the most important, involves the dissemination of the results obtained throughout the project. This dissemination is carried out on two different levels; through participation in

would lead the project on a scientific level, and of properly trained volunteer divers, who would actively participate in researching the different sites. The idea was to directly involve the recreational and professional diving collective in the defence and dissemination of this underwater cultural heritage. In 2010, a collaboration agreement was signed by the Amics del Museu de Menorca and the Club Nàutic de Ciutadella for the creation of these underwater archaeological maps. Amics del Museu de Menorca scientific project up the and heads archaeologists, while the sports organisation provides their sporting and boating facilities, in addition to

WHO TAKES PART IN THE PROJECT

This project has a double objective; the creation of

a catalogue of underwater Menorcan heritage for

improved comprehension and to provide adequate

protection, and to raise awareness of this cultural

The project's three stakeholders decided that the best

way to unite these two goals was through the training

of a working team made up of archaeologists, who

heritage within the Menorcan community.

TASKS CARRIED OUT AND RESULTS OBTAINED

At the research project's onset, information only

existed on 24 underwater sites; one in inland waters

and 23 around the Menorcan coast. As present, 400

locations have been documented with archaeological

1) Derelicts, any sunken ship or aircraft. All the derelicts

we have been able to document correspond to boats

shipwrecked near our coast, although at the Illa de

l'Aire islet there is a sunken German World War II

2) Docks, moorings and anchorages. Sites used as ports

or for shelter during periods of extreme weather.

Isolated finds. Objects are often discovered,

In addition to these prospections, underwater archae-

ological excavation has been carried out at two sites:

1) The Binissafúller derelict, in Sant Lluís. This site was

excavated in the 1970s and subsequently inspected

and re-excavated between 2006 and 2016. The more

recent archaeological efforts allowed for the dating

of the site to between 375 and 350 BC, involving a

vessel transporting between 400 and 450 wine-filled

amphorae. Numerous grape seeds were recovered

from inside these amphorae. With regard to naval

architecture, it is neither Greek nor Roman, but instead

shows Punic construction techniques. It utilised the

shell-first shipbuilding technique, in which the frame,

or ribs, are not the basis of the ship's structure and

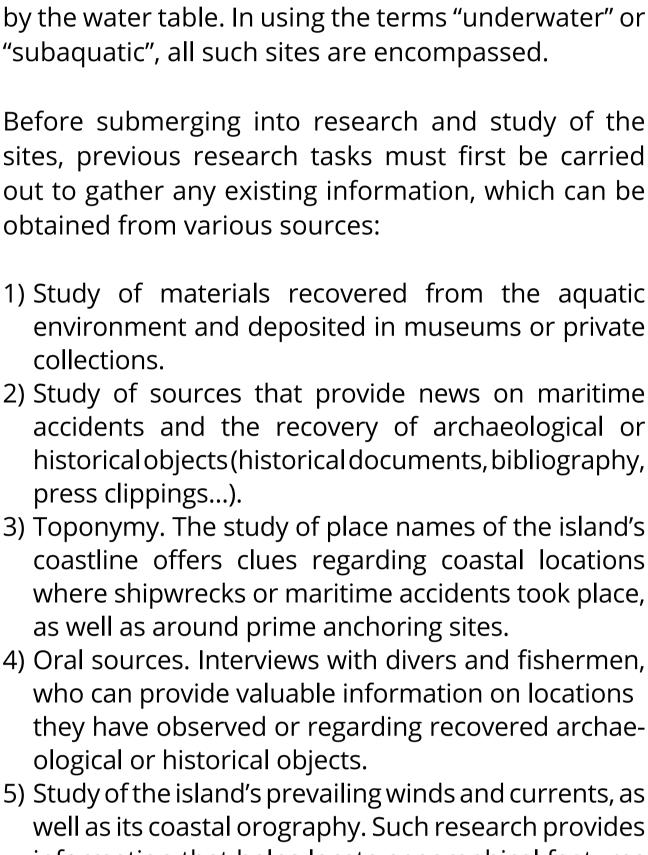
materials that are occasionally lost by ships.

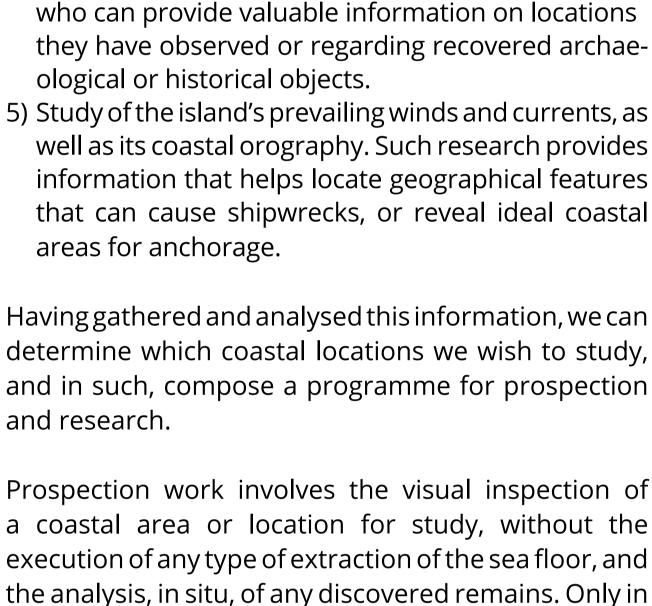
primarily anchors, that are not associated with other

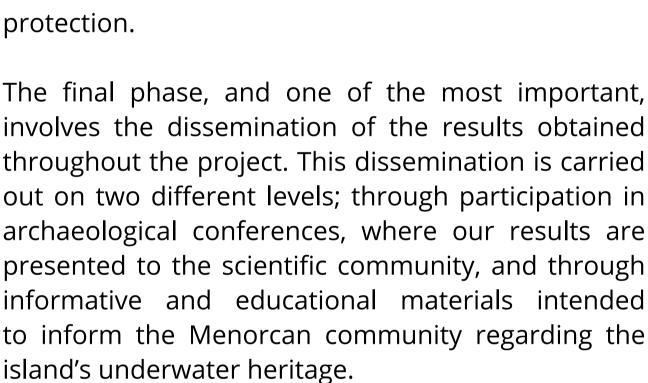
archaeological or historical remains. They are simply

instead sailed trade routes organised by commercial agents. 2) The Calescoves mooring. These efforts were carried out between 2017 and 2018 at the request of CIMe's Heritage Services Department. The 2018 campaign received collaboration from the Underwater Archaeology Centre of Catalonia (CASC).

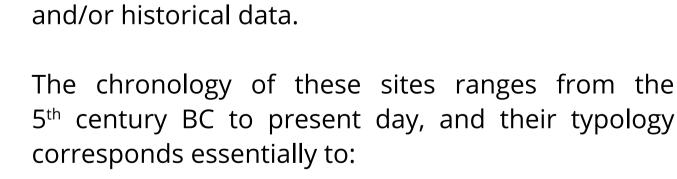
The 2017 campaign included the execution of all the photogrammetry of the cove's sea floor, so as to evaluate the sites with the highest concentration of archaeological materials and determine the best option to keep boats anchoring in this small natural harbour from damaging the site with their anchors.







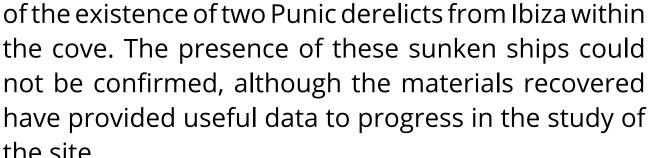




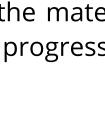
bomber.

are attached to the strakes, and serve as the body of the vessel. It was a Punic merchant ship that carried out wine trade expeditions from port to port. It was not a ship that sailed smaller coastal trade routes, but

The 2018 campaign saw the execution of soundings at two locations within the cove to confirm the site's archaeological potential, while a search was carried



out for elements that allowed for the documentation



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