HORIZON-MSCA-2023-CITIZENS-01-01



WHEN SCIENTISTS GO UNDER THE WATER

UNDERWATER CULTURAL HERITAGE IN INLAND WATERS

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WHAT IS THE SCIENCE IN BLUE PROJECT

SCIENCEinBLUE aims to bring researchers working in the area of underwater science and technology closer to the public, in order to increase awareness of research and innovation. A consortium of two universities and one SME will show the role of the researcher for the society and economy by giving reference to their worldwide experience, in particular the European Union projects in which their staff worked in the past

















Windows'u Etkinleştir
Windows'u etkinleştirmek için gidin.



Assoc.Prof.Dr.Hakan Öniz

Head of the Department of Restoration and Conservation of Cultural Heritage, Faculty of Art - Akdeniz University
Head of the Division of Mediterranean Underwater Cultural Heritage, Institute of Mediterranean Civilizations Research - Akdeniz University



AU Kemer Underwater Archaeology Center

AKDENIZ UNIVERSITY, FACULTY OF ART
DEPARTMENT OF RESTORATION AND CONSERVATION OF CULTURAL HERITAGE

AKDENIZ UNIVERSITY, MEDITERRANEAN CIVILIZATIONS RESEARCH INSTITUTE

DIVISION OF UNDERWATER CULTURAL HERITAGE





United Nations Educational, Scientific and Cultural Organization

Unitwin Network for Underwater Archaeology

Southampton University
U.K.
Contact: Lucy Blue L.Blue@soton.ac.uk
Web: www.southampton.ac.uk/archaeology/cma/

Aix-Marseille University
FRANCE
Contact: Michel Lâjour michel.lheur@culture.gouv.fr
Web: www.univ-amu.fr

Alexandria University
EGYPT
Contact: Emad Khalil emadkhalil@hotmail.co.uk
Web: http://www.cmauch.org

East Carolina University
U.S.A.
Contact: Jennifer McGinnon MCGINNONJE@ecu.edu
Web: http://www.ecu.edu/cs-cas/maritime/

Nicolaus Copernicus University in Torun
POLAND
Contact: Andrzej Pydyn pydyn@umk.pl
Web: www.archeologia.umk.pl

Akdeniz University
Turkey
Contact: Hakan Öniz hakan.oniz@gmail.com
Web: www.akdeniz.edu.tr,www.sasaa.org

Flinders University
AUSTRALIA
Contact: Wendy Van Duivenvoorde wendy.vanduiver
Jonathan Benjamin jonathan.benjamin@flin
Web: www.flinders.edu.au

Superintendent of the Sea of Region Sicily
ITALY
Contact: Angela Accardi angela.accardi@regione.sicilia.it
Web: www.pti.regione.sicilia.it/portal/page/portal/PIR_PORTA

Universidad de Cádiz
SPAIN
Contact: Xavier Nieto Prieto xavier.nieto@uca.es
Web: http://arqueologiaeuticayubacuatica.uca.es

University of Southern Denmark
DENMARK
Contact: Thijs Maarleveld t.maarleveld@sdu.dk
Web: www.sdu.dk/en/Uddannelse/Kandidat/Marinarkaeologi

University of Warsaw
POLAND
Contact: Magda Nowakowska nowamagda@gmail.com
Karolina Trusz k.trusz2@uw.edu.pl
Web: www.archeo.uw.edu.pl

Texas A&M University
U.S.A.
Contact: Filipe Castro fvcastr@gmail.com
Web: www.tamu.edu

Ca' Foscari University of Venice
ITALY
Contact: Carlo Beltrame beltrame@unive.it
Web: www.unive.it

James Cook University
AUSTRALIA
Contact: Maddy McAllister maddy.mcallister@qm.qld.gov.au
Web: https://www.jcu.edu.au/college-of-arts-society-and-educator anthropology,-archaeology-and-sociology

Oxford University
U.K.
Contact: Damian Robinson damian.robinson@arch.ox.ac.uk
Web: www.arch.ox.ac.uk

Queensland Museum Network
AUSTRALIA
Contact: Madeline Fowler maddy.fowler@qm.qld.gov.au
Web: http://www.network.qm.qld.gov.au/

The University of Nottingham
U.K.
Contact: Jon Henderson jon.Henderson@nottingham.ac.uk
Web: www.nottingham.ac.uk

Uludag University
TURKEY
Contact: Mustafa Sahin msahin25@gmail.com
Web: www.uludag.edu.tr

Universit degli Studi di Catania
ITALY
Contact: Enrico Felici efelici@unict.it
Web: www.unict.it

University of Balamand
LEBANON
Contact: Nadine Panayot Haroun nadine.haroun@balamand.edu
Web: www.balamand.edu.lb

University of Bradford
U.K.
Contact: Vincent Gaffney V.Gaffney@bradford.ac.uk
Web: http://www.bradford.ac.uk/

University of Buenos Aires
ARGENTINA
Contact: Dolores Elkin kilelkin@hotmail.com
Web: http://antropologia.filo.uba.ar/sites/antropologia.filo.uba.ar/

University of Cyprus
CYPRUS
Contact: Stella Demetriou demetricha@ucy.ac.cy
Web: www.ucy.ac.cy

Moesgaard Museum
DENMARK
Contact: Peter Moe Astrup pma@moesgaardmuseum.dk
Web: http://www.moesgaardmuseum.dk/en/

University of Primorska
SLOVENIA
Contact: Irena Lazar irena.lazar@fhs.upr.si
Web: www.upr.si

University of Ulster
NORTHERN IRELAND
Contact: Wes Forsythe w.forsythe@ulster.ac.uk
Web: https://www.ulster.ac.uk/

University of Valencia
SPAIN
Contact: José Pérez Ballester Jose.Perez-Ballester@uv.es
Web: http://postgrado.adeit-uv.es/17113080/

University of Zadar
CROATIA
Contact: Irena Radić Rossi iradic@unizd.hr
Web: www.unizd.hr or www.adriaproject.org

Tokyo University of Marine Science and Technology
JAPAN
Contact: Akifumi Iwabuchi iwabuchi@kaiyodai.ac.jp
Web: www.kaiyodai.ac.jp/english-c

Australian National Maritime Museum
AUSTRALIA
Contact: James Hunter james.hunter@anmm.gov.au
Web: http://www.anmm.gov.au

Cesc Centre de Arqueologia Subaquatica de Catalunya
SPAIN
Contact: Gustau Vivar gvivar@gencat.cat
Web: www.mac.cat

Hemmenhofen Training Centre for Inland Water Archa
GERMANY
Contact: Martin Mainberger martin.mainberger@uwerc.de

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ULUSLARARASI ANITLAR VE SİTLER KONSEYİ
ICOMOS - TÜRKİYE

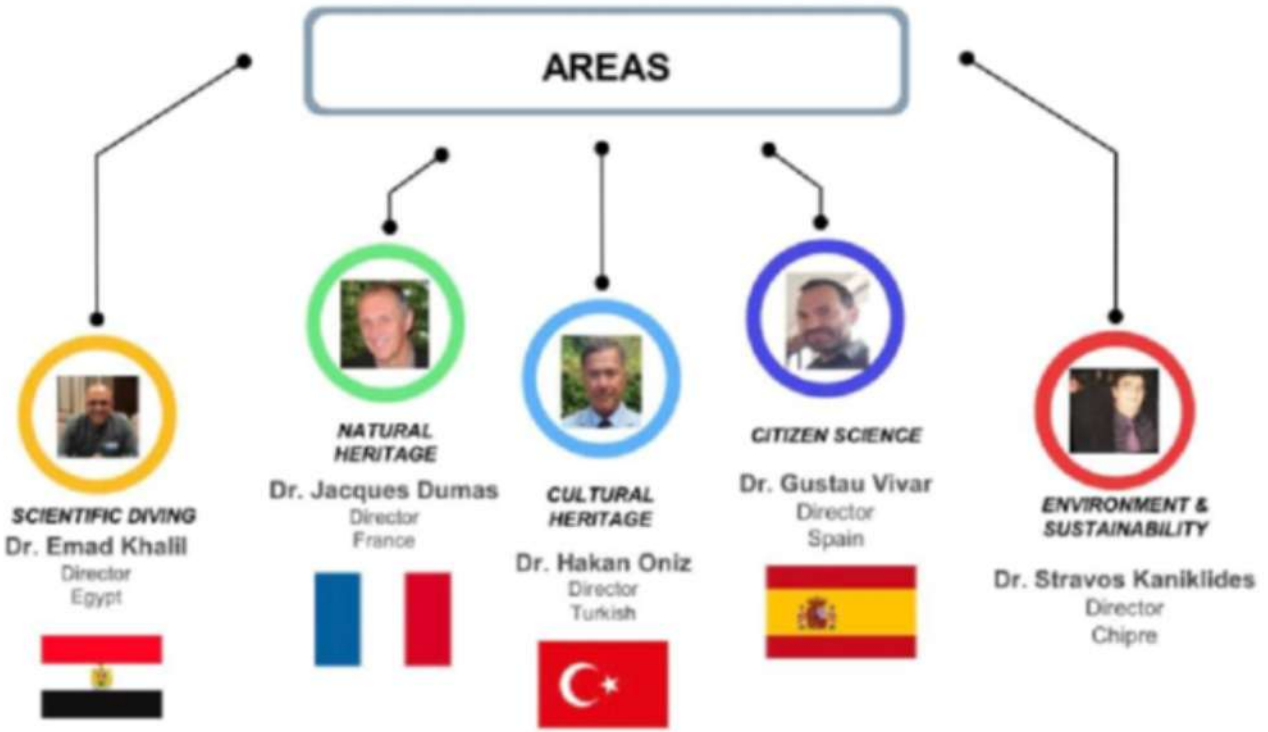
INTERNATIONAL COUNCIL ON MONUMENTS AND SITES
ICOMOS - TURKEY

INTERNATIONAL COUNCIL ON MONUMENTS AND SITES
International Committee on the Underwater Cultural Heritage (ICUCH)



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CMAS - Scientific & Sustainability Committee
Directors Areas



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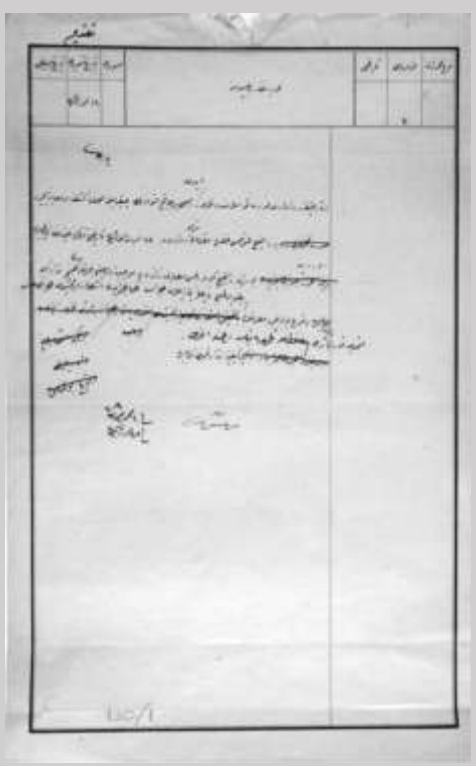
What is underwater cultural heritage?

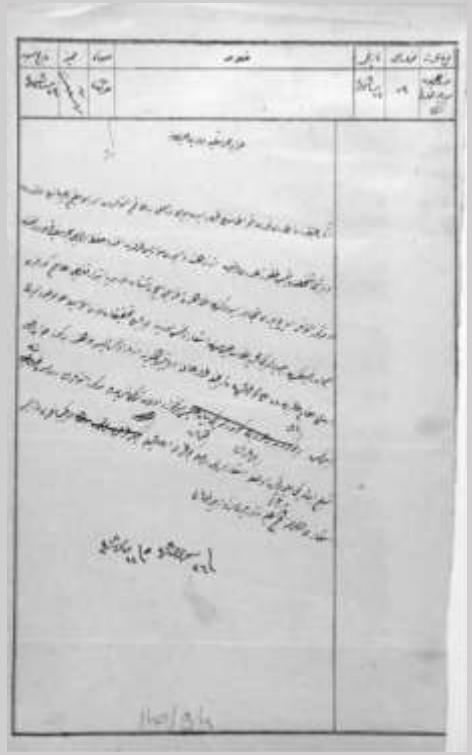
What is underwater archaeology?

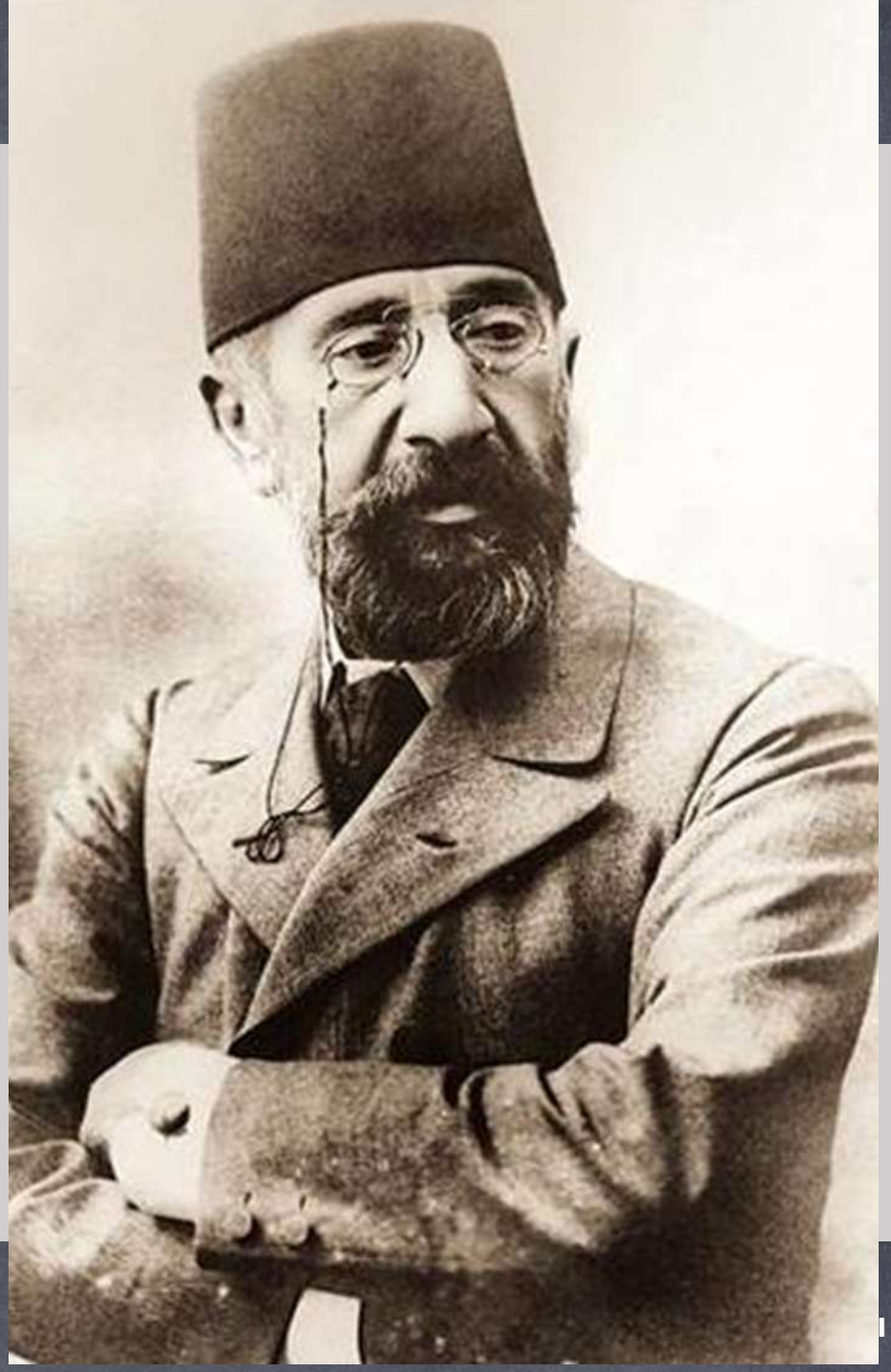
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OSMAN HAMDİ BEY
(1842-1910)

1884 Asar-Atika – Antiquity Law
1892 Farmako Island Underwater Archaeology Excavation







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Arkeo – 25 m. Scientific Research Ship



UPL – 38 m. Scientific Research Ship

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RECOMPRESSION CHAMBER in UPL RESEARCH SHIP

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LABORATORY

in UPL RESEARCH SHIP

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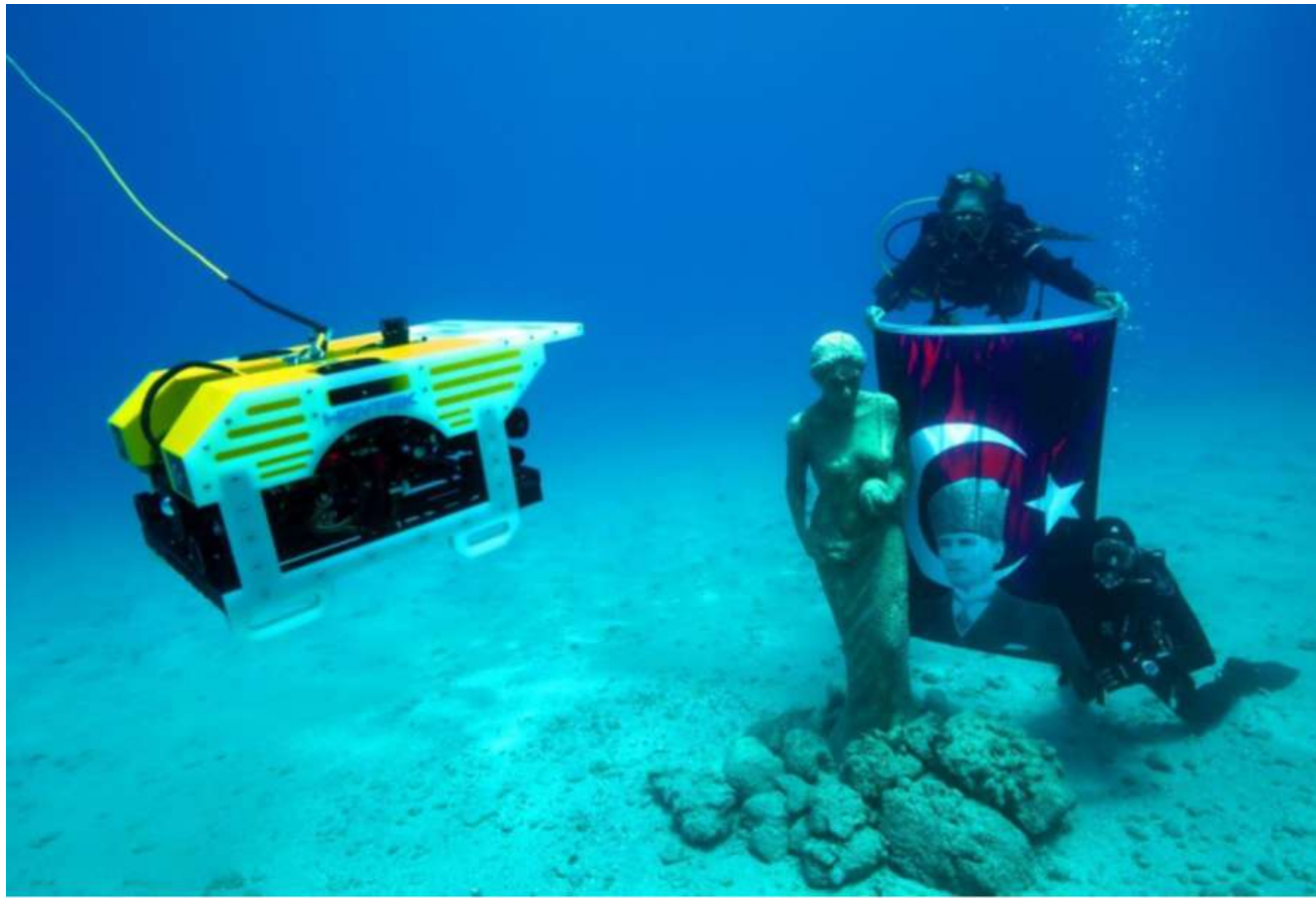




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Senegal, Mozambique, Algeria, Tunisia, Egypt, Cabo Verde, Kenya, Maritius, Comoros, Cibuti, Madagaskar, Eritre, Gambia, Morocco

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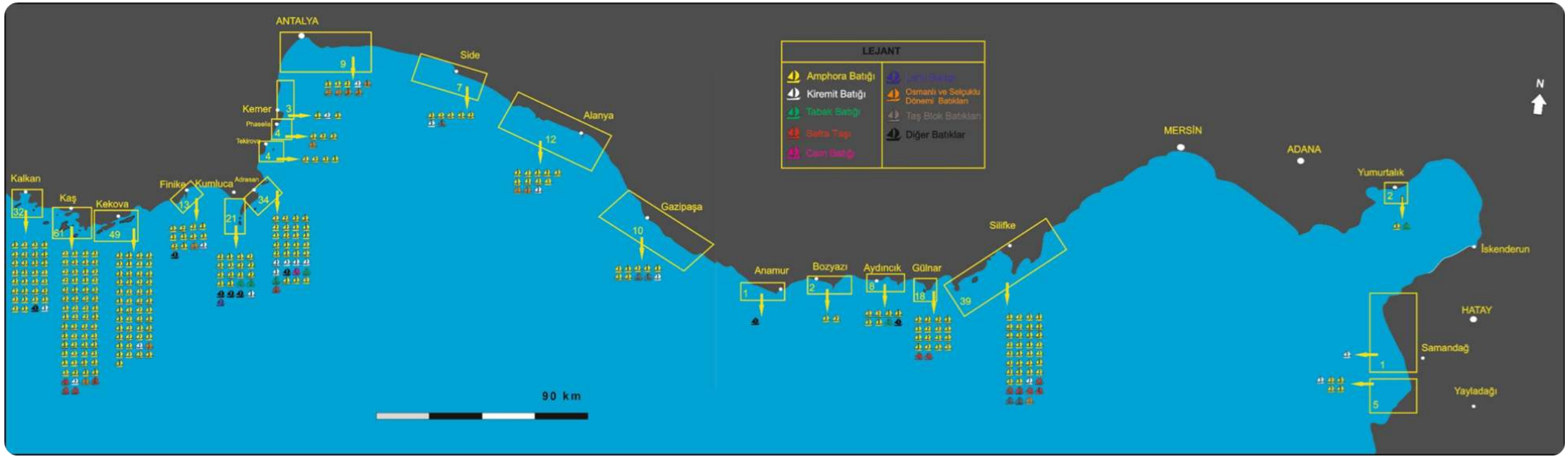




Professors are from: Türkiye, Portugal, Italy and Poland

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407 Shipwrecks have been found between 2012-2024

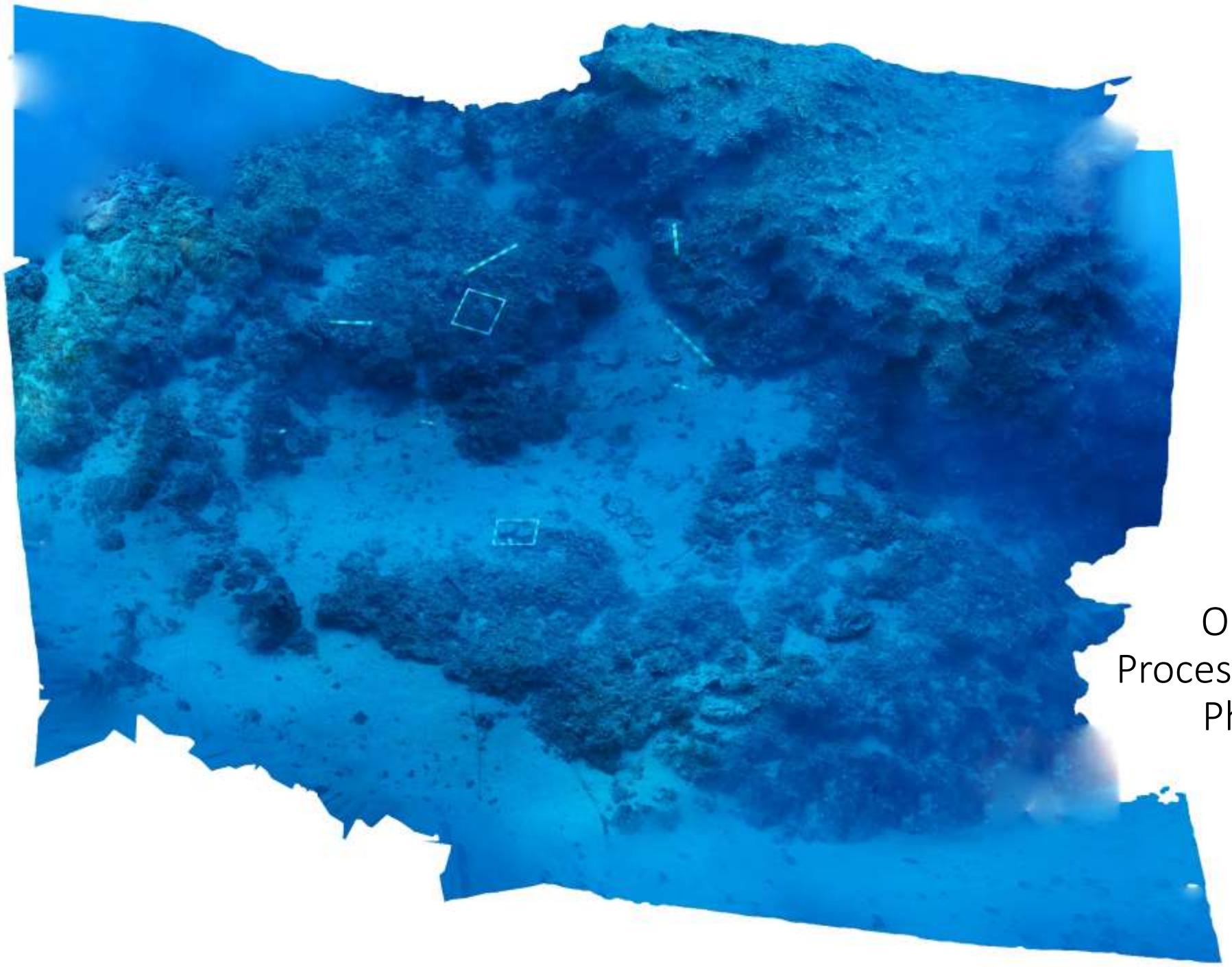
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Adrasan Plate Wreck
(3rd-1st Century
BC.)



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Ortophoto
Processes by Agisoft
Photoscan

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A tile wreck from Adrasan

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Araştırmacılar Okulda

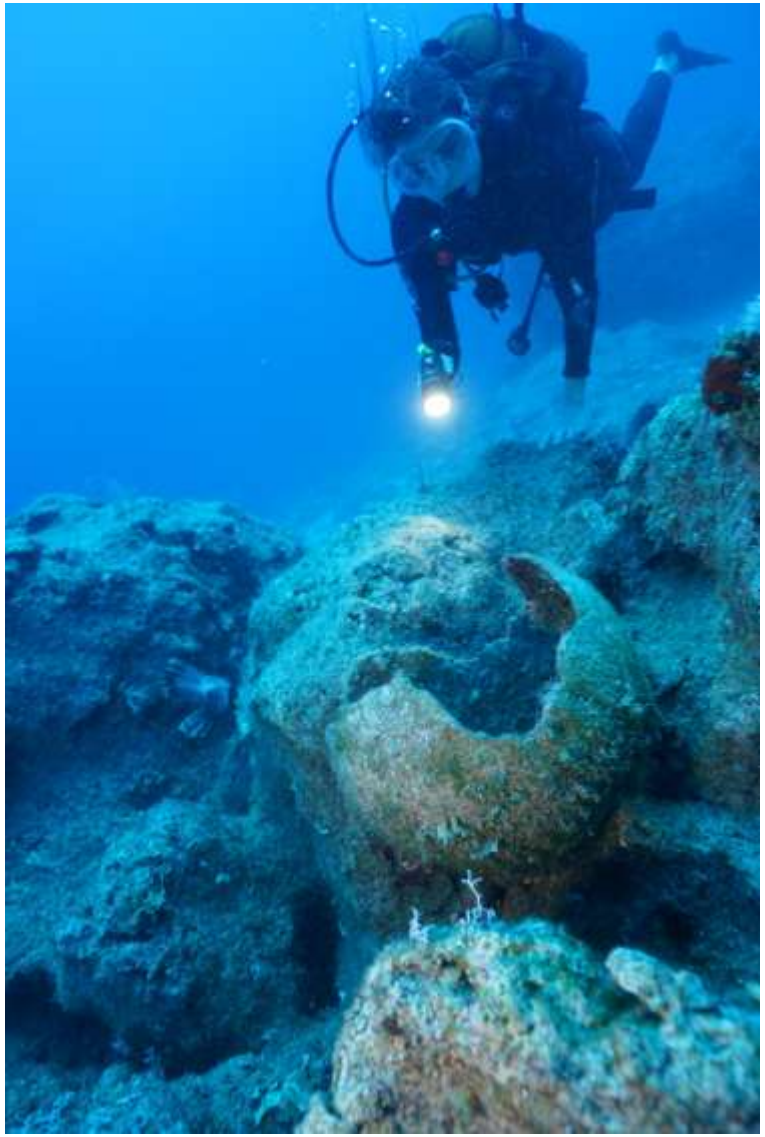


Adrasan
Tile Wreck
Photoscan

Funde
the European Union

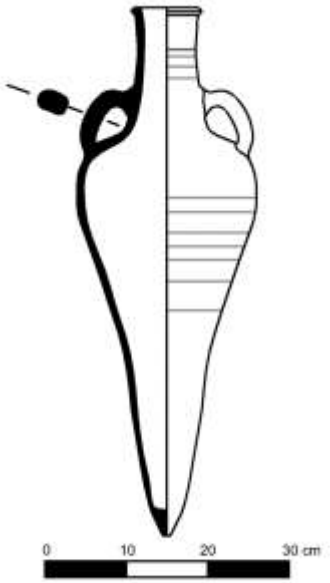
Araştırmacılar Okulda

Shipwrecks of Kekova Akar Boğazı





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Kalkan 4th-7th Century LRA7 Sinope Amphora Wreck

Photoscan



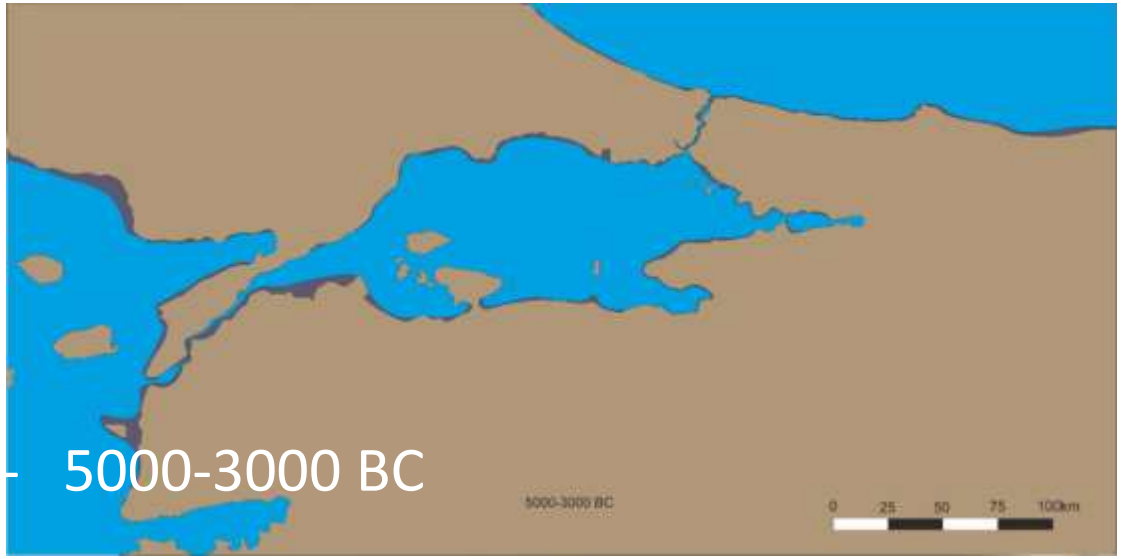


Submerged sites - earthquakes

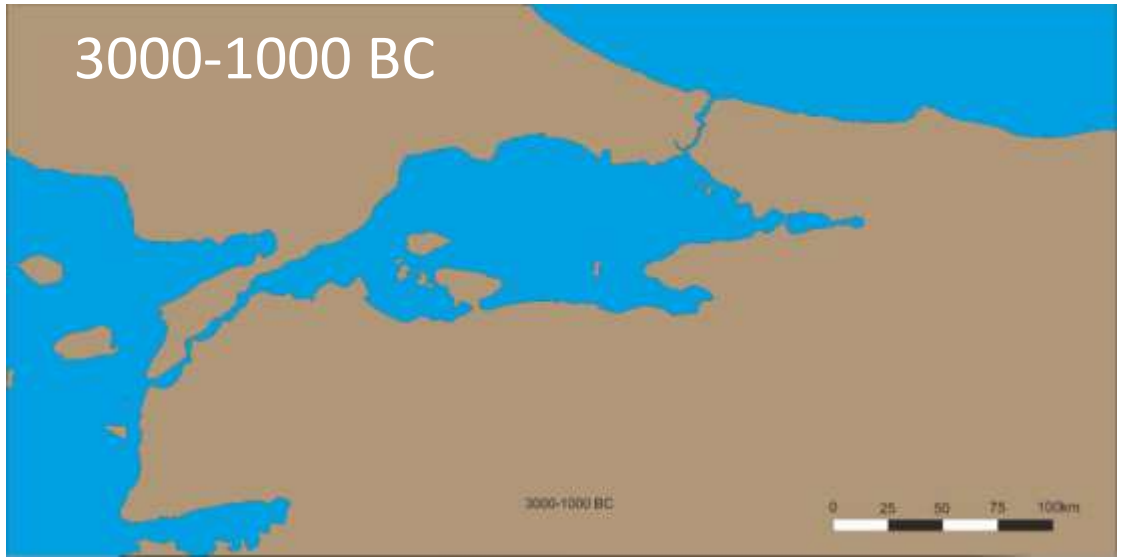
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KARA MAĞARA – ÜÇAĞIZLI PALEOLITHIC PERIOD Antakya Samandağ

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A Project for 2025 in the coast of the Mediterranean of Türkiye

Mersin Coastline

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Bronze Age Stone Anchors – Kekova Akar Boğazı

Roman Glass Wreck – Adrasan

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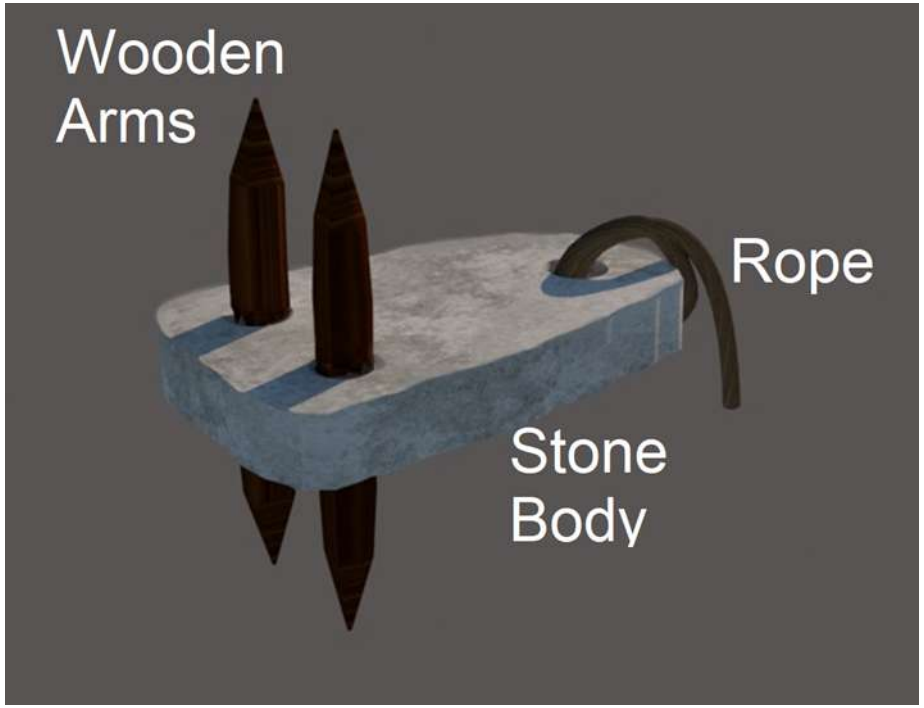
Stone stock of a wooden anchor
And
A wood with Teredo Navalis

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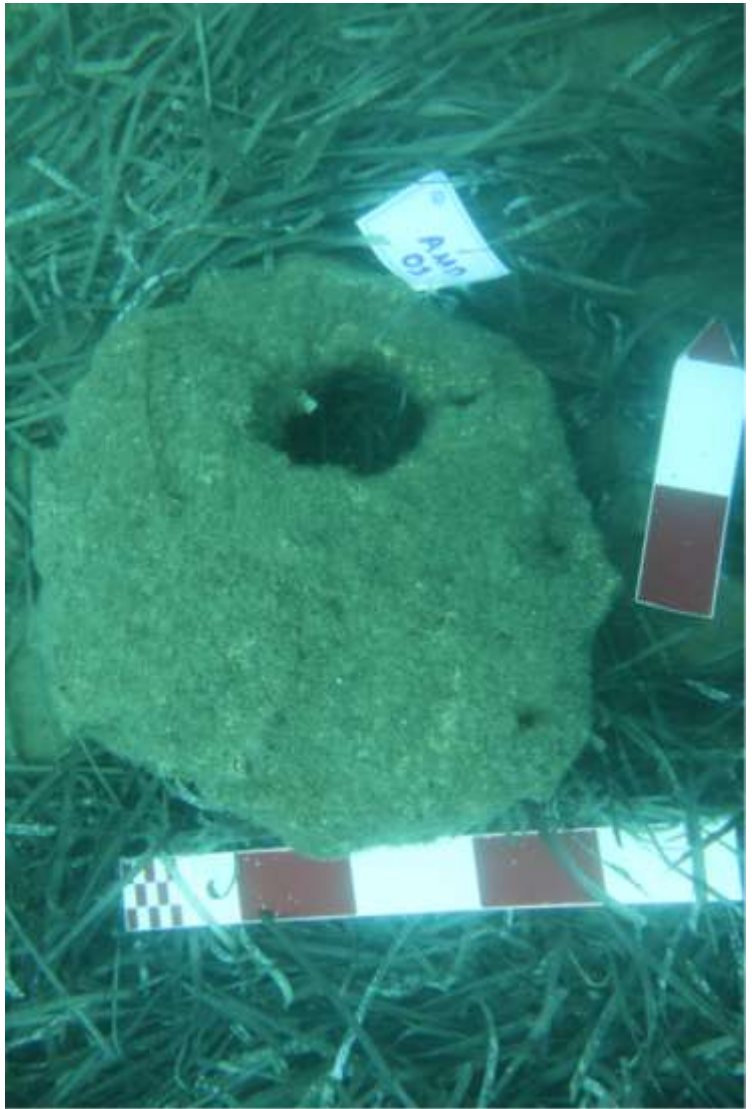
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http://honorfrostfoundation.org/wp/wp-content/uploads/2017/03/Duncan-Howitt-Marshall-Maritime-Horizons-on-Early-Cyprus-Interim-Report-1.pdf









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Bronze Age stone anchors

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Iron Age Stone Stocks - Kaş Two Holed stone anchors - Kekova

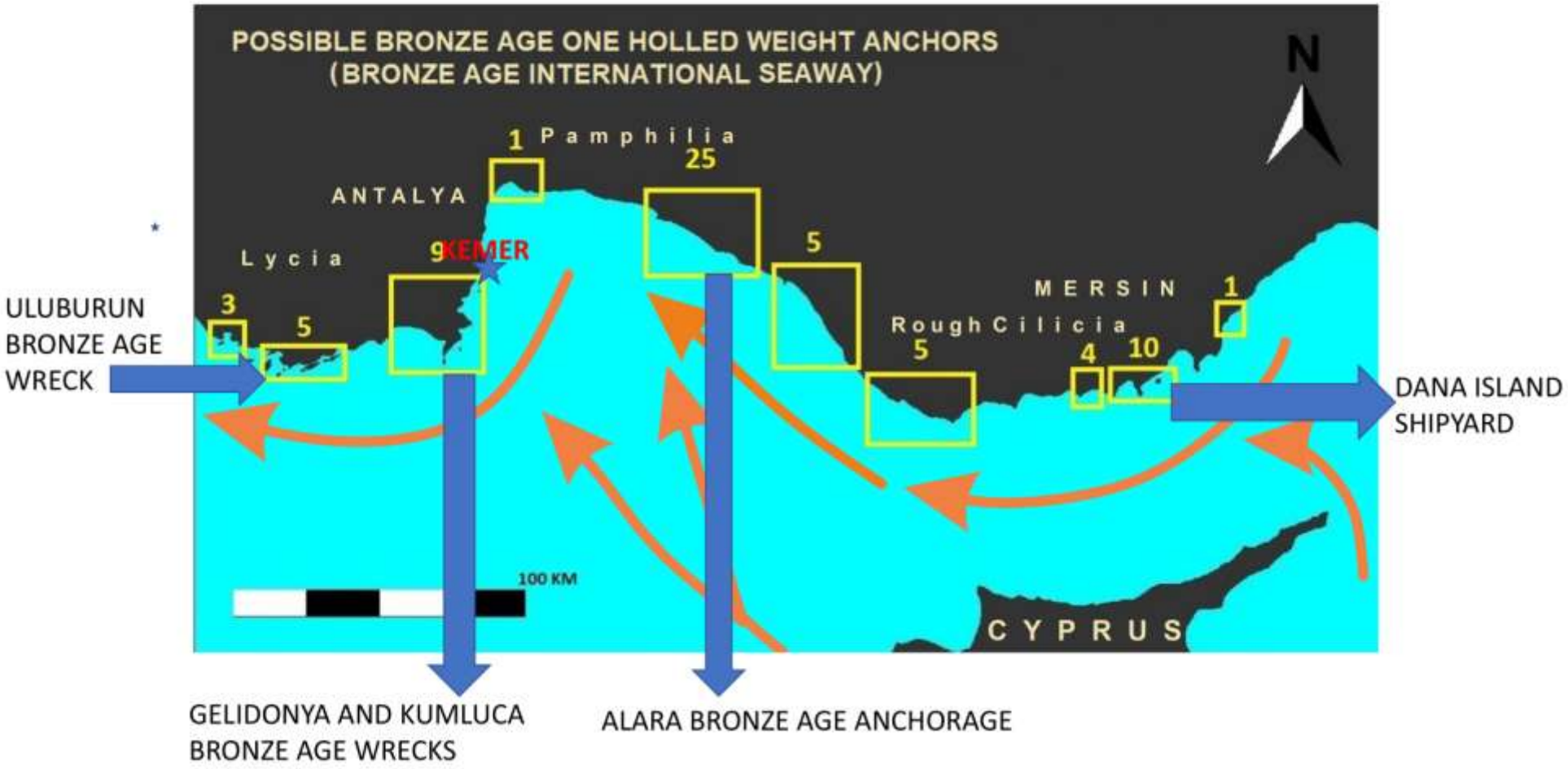




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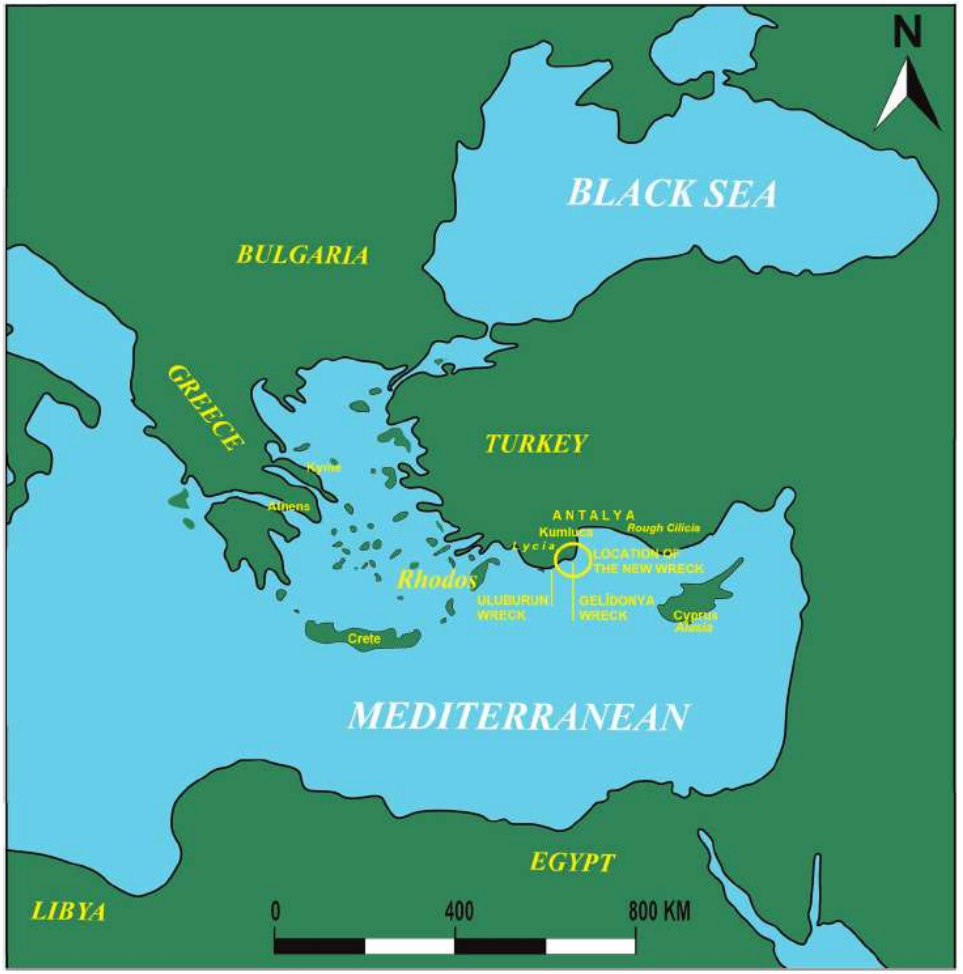
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Bronze Age Sea Routes in the frame of stone anchors and known wrecks



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Kumluca Middle Bronze Age wreck is found in 2018

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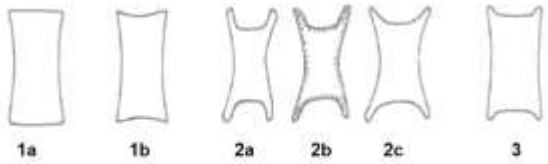
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«pillow shaped» copper ingots
1 New York Metropolitan Museum
4 Athens National Museum







BUCHHOLZ/BASS OXHIDE INGOT TYPES

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Araştırmacılar Okulda

TABLE 1



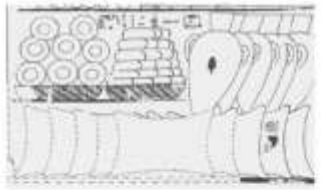
TOMB OF USERAMON AT THEBES
Reign of Hatshepsut or Thutmosis III (1490 - 1436 BC)
(Bass, 1967: 63, Fig. 64)
(Popa, 2014: 202, Fig. 18)



TOMB 119 AT THEBES
Reign of Hatshepsut or Thutmosis III (1490 - 1436 BC)
(Bass, 1967: 62, Fig. 62)



THE TOMB OF PUYEMRE
Reign of Thutmosis III (1479 - 1425 BC)
(Davies, 1922: 357)



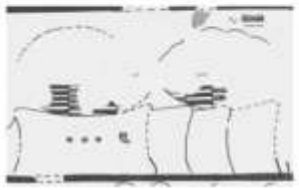
THE TOMB OF REKH-MI-RE
Reign of Thutmosis III (1471 - 1448 BC)
(Davies, 1943: pl XLVIII)



THE TOMB OF REKH-MI-RE
Reign of Thutmosis III (1471 - 1448 BC)
(Davies, 1943: pl LIII)



THE TOMB OF REKH-MI-RE
Reign of Thutmosis III (1471 - 1448 BC)
(Davies, 1943: pl XXIII)



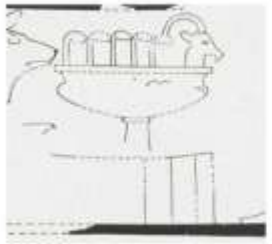
THE TOMB OF REKH-MI-RE
Reign of Thutmosis III (1471 - 1448 BC)
(Davies, 1943: pl XXI)



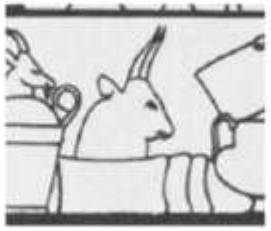
THE TOMB OF REKH-MI-RE
Reign of Thutmosis III (1471 - 1448 BC)
(Davies, 1943: pl XXII)



THE TOMB OF REKH-MI-RE
Reign of Thutmosis III (1471 - 1448 BC)
(Davies, 1943: pl XX)



THE TOMB OF REKH-MI-RE
Reign of Thutmosis III(1471 - 1448 BC)
(Davies, 1943: pl XVIII)



THE TOMB OF REKH-MI-RE
Reign of Thutmosis III (1471 - 1448 BC)
(Davies, 1935: pl XXII)



THE TOMB OF REKH-MI-RE
Reign of Thutmosis III (1471 - 1448 BC)
(Davies, 1943: pl XIX)

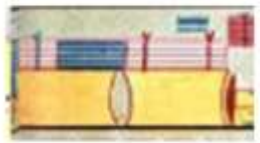
TABLE 2



PAINTINGS FROM THE TOMB OF REKH-MI-RE
Reign of III. Thutmosis (1471 - 1448 BC)
(Davies, 1935: pl III-V-XII)



FROM A TOMBS AT THEBES
Reign of III. Thutmosis (1471 - 1448 BC)
(Haskins, 1885: 334)



FROM A TOMBS AT THEBES
Reign of III. Thutmosis (1471 - 1448 BC)
(Haskins, 1885: 334)



FROM A TOMBS AT THEBES
Reign of III. Thutmosis (1471 - 1448 BC)
(Haskins, 1885: 336)



FROM A TOMBS AT THEBES
Reign of III. Thutmosis (1471 - 1448 BC)
(Haskins, 1885: 332)



FROM A TOMBS AT THEBES
Reign of III. Thutmosis (1471 - 1448 BC)
(Haskins, 1885: 328)

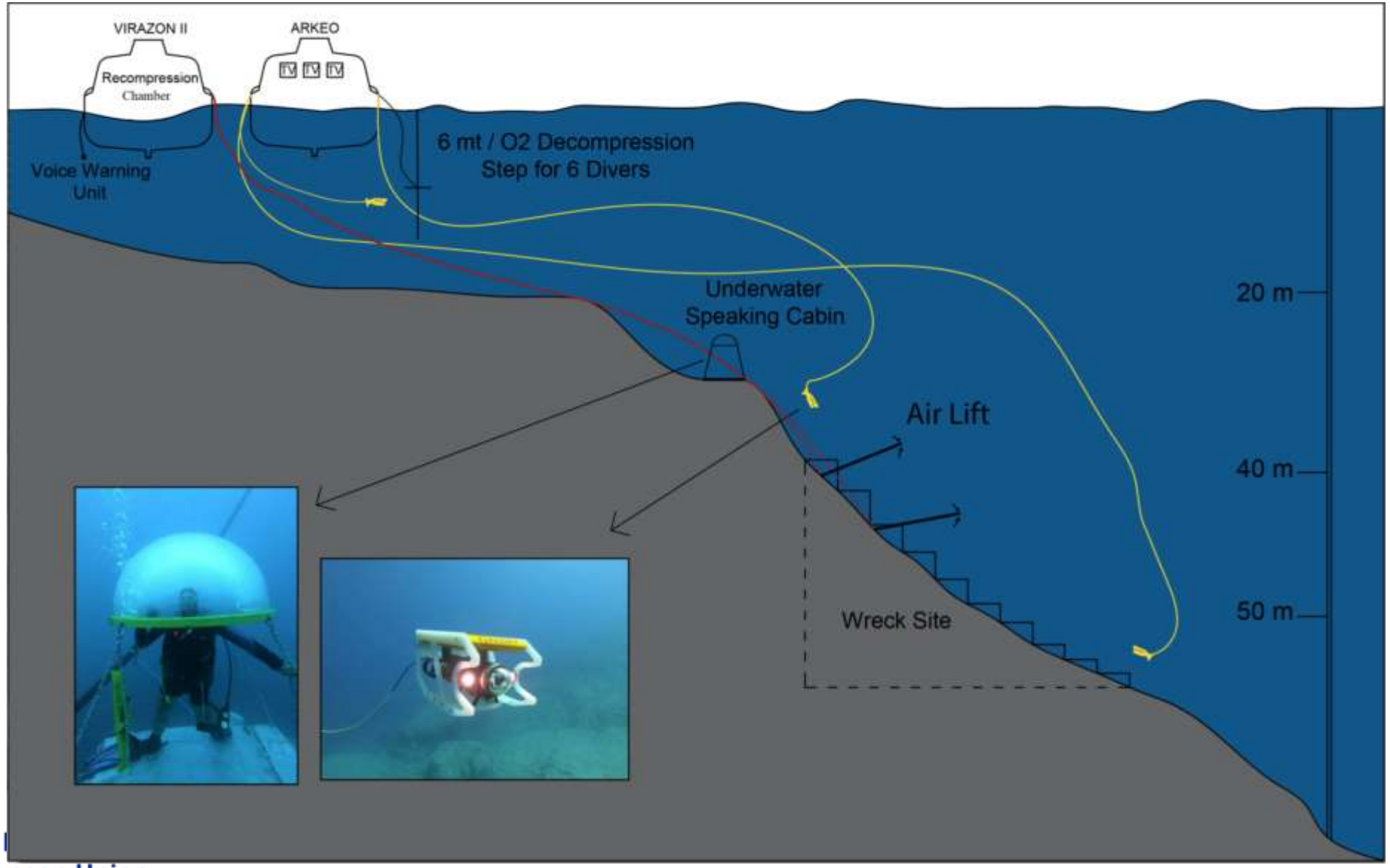


TOMB OF AMEN-EM-OTEP AT THEBES
Reign of Amenhotep I (1414 - 1397 BC)
(Bass, 1967: 65, Fig. 75)
(Popa, 2014: 202, Fig. 17)



TOMB OF HEPU AT THEBES
Reign of Thutmosis IV (1413- 1397 BC)
(Bass, 1967: 65, Fig. 76)
(Coghan, 1939-1940: 48-49, Fig. 10)

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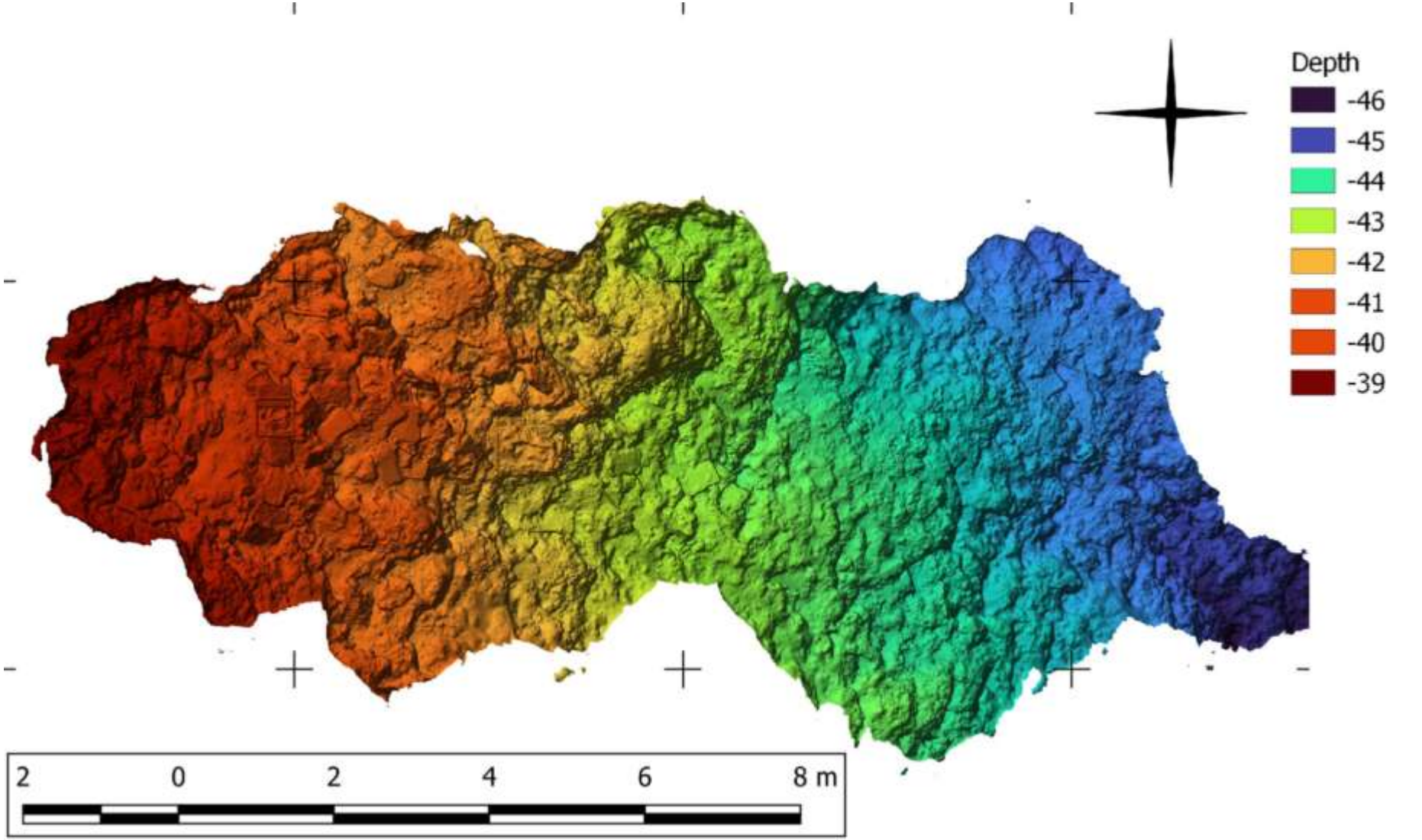




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Robot (ROV) using

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- A lion fish film

- An octopus film





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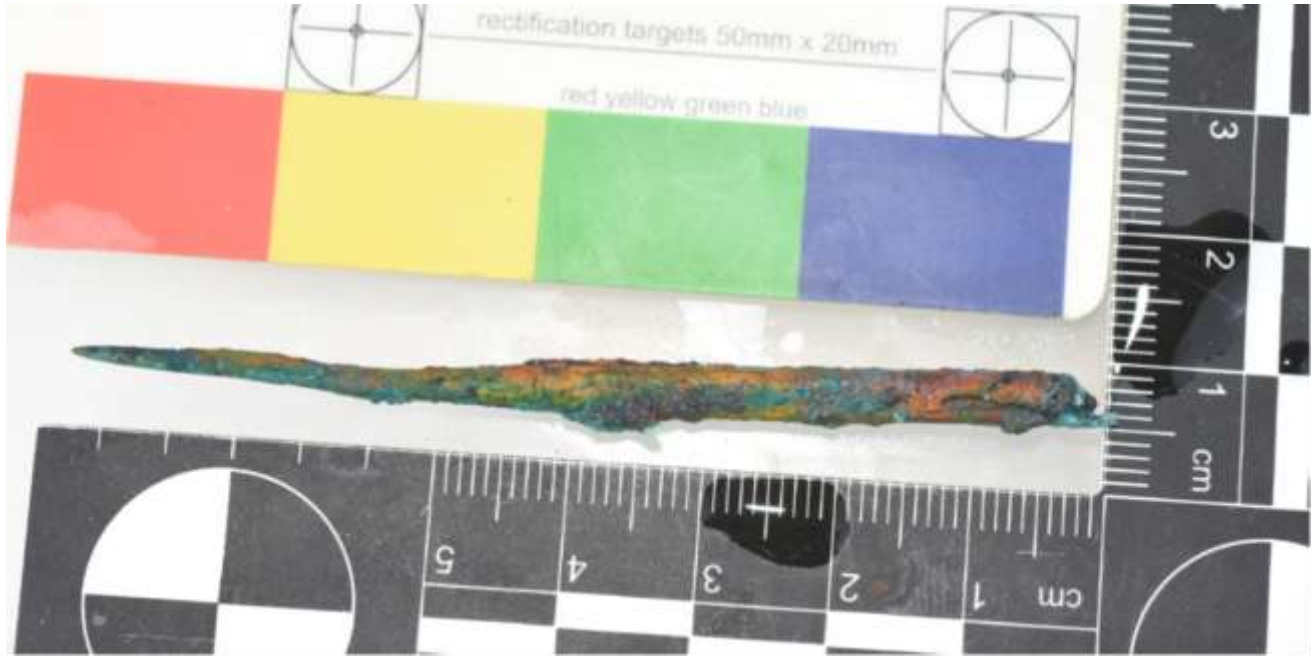






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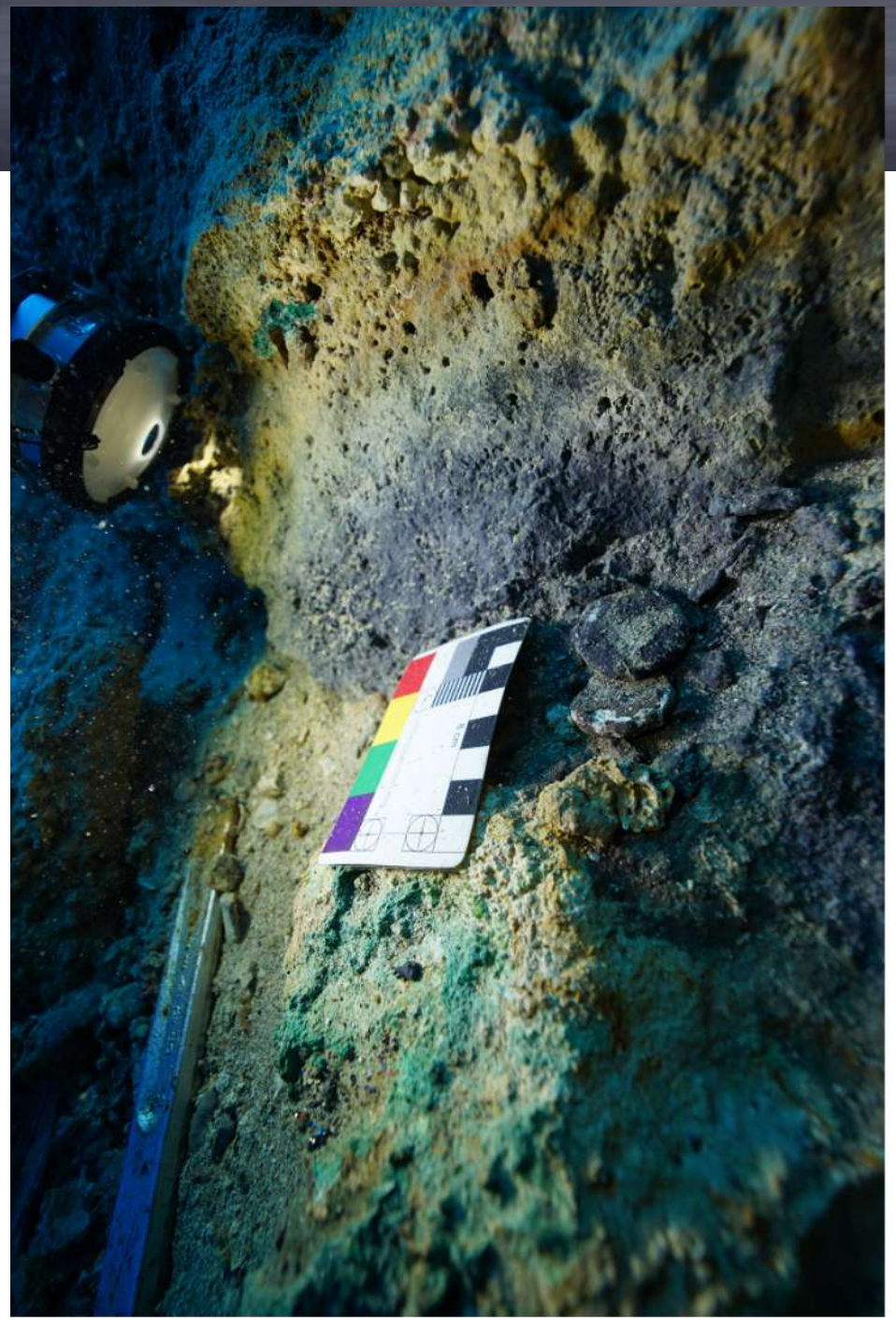




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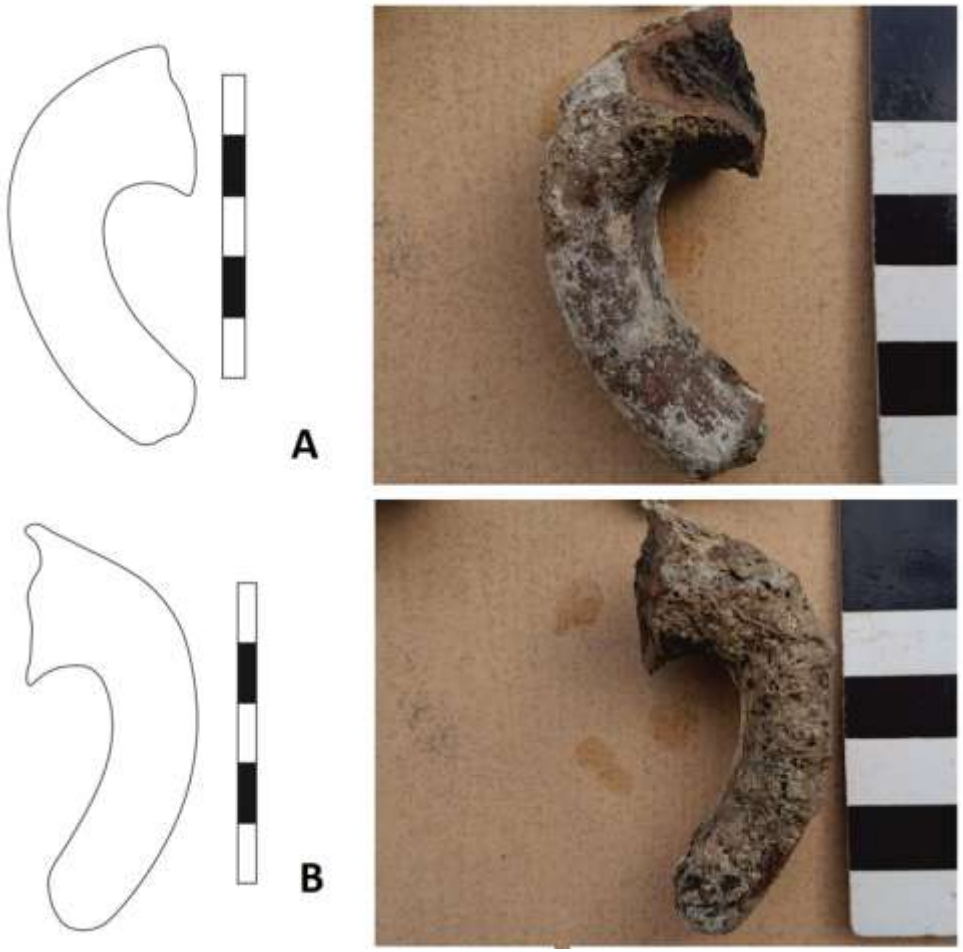


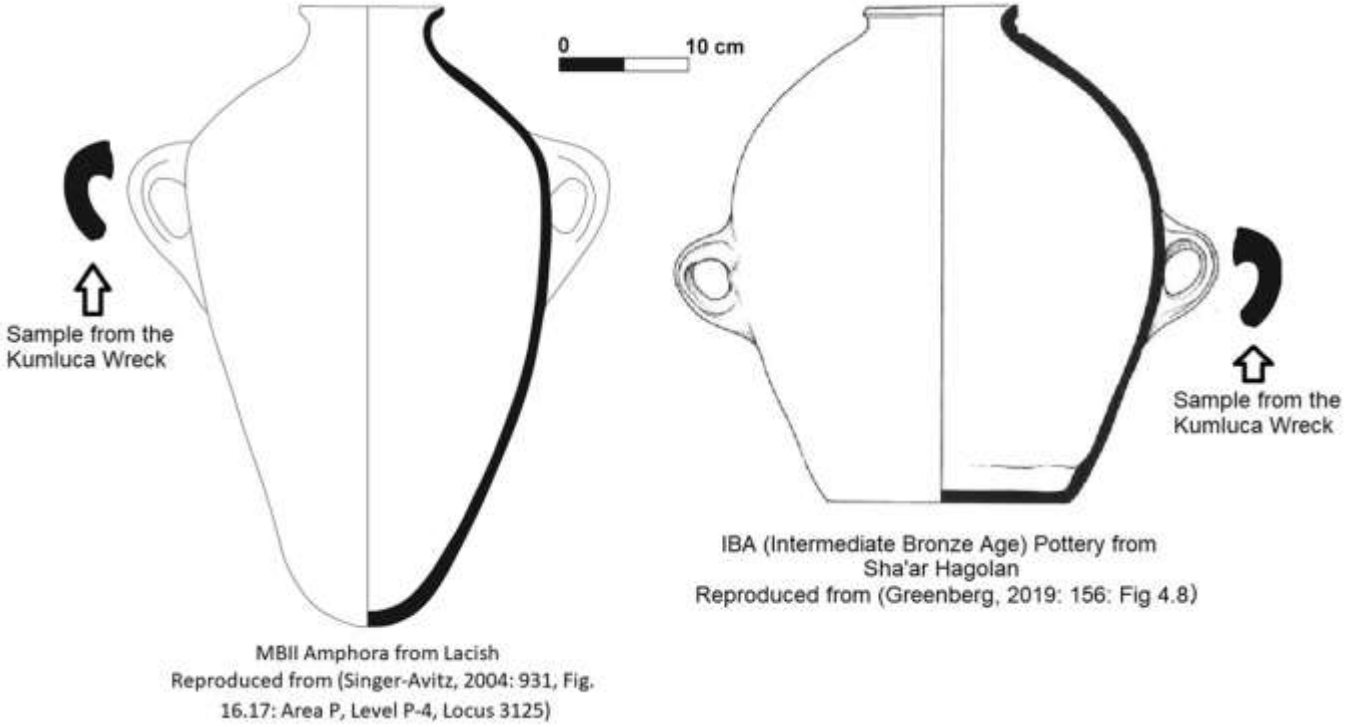


https://jp.pinterest.com/pin/142215300721100103/

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MBII Amphora from Lacish
Reproduced from (Singer-Avitz, 2004: 931, Fig. 16.17: Area P, Level P-4, Locus 3125)

IBA (Intermediate Bronze Age) Pottery from Sha'ar Hagolan
Reproduced from (Greenberg, 2019: 156: Fig 4.8)

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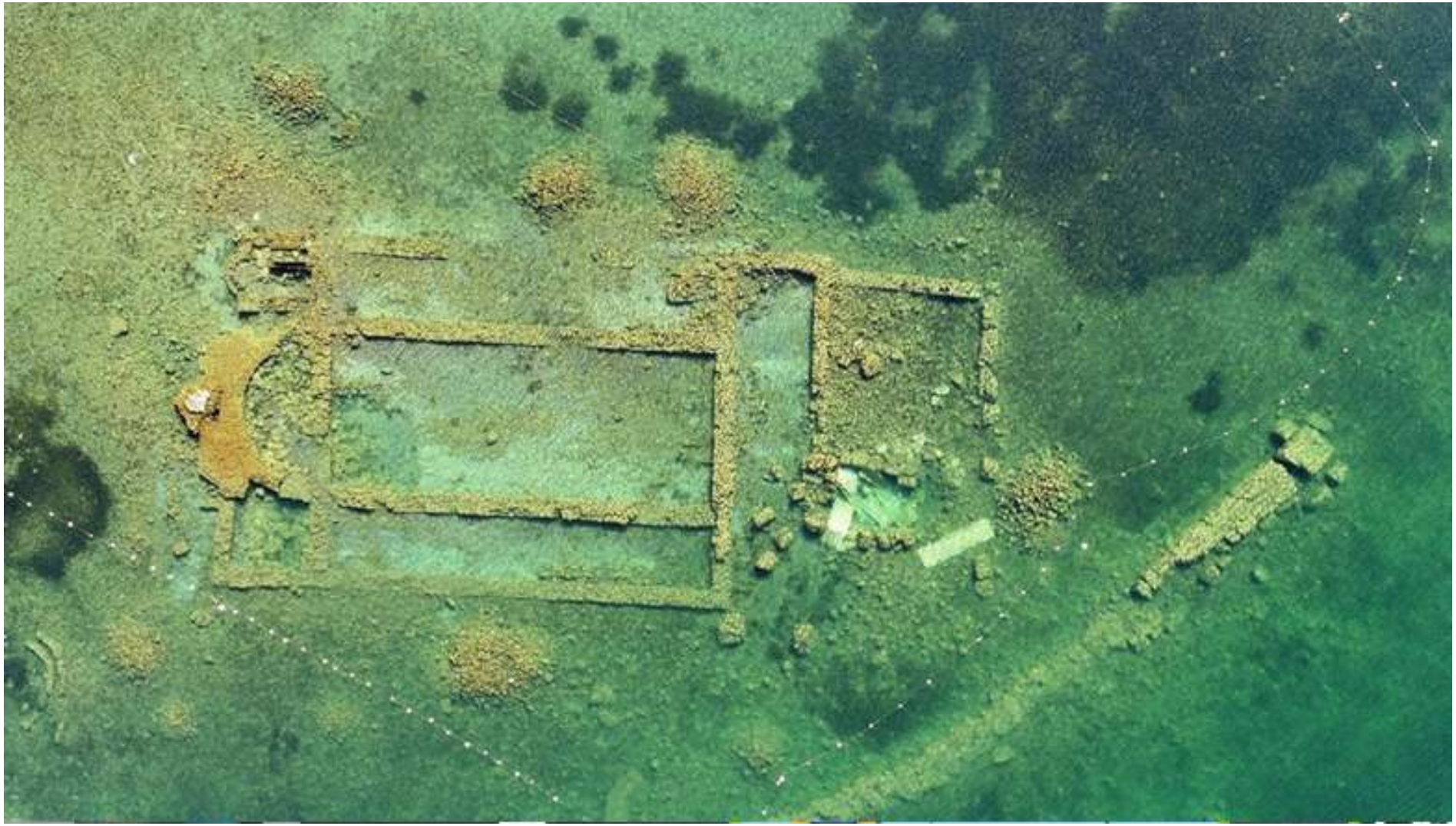
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Roman Street from the dried Terkos lake

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Prof.Dr.Mustafa Şahin, İznik Lake excavation sunken Basilica

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Demre Beymelek Lake– Sunken Roman Bath

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Van Lake sunken buildings– Ahlat. Photo C. Birol

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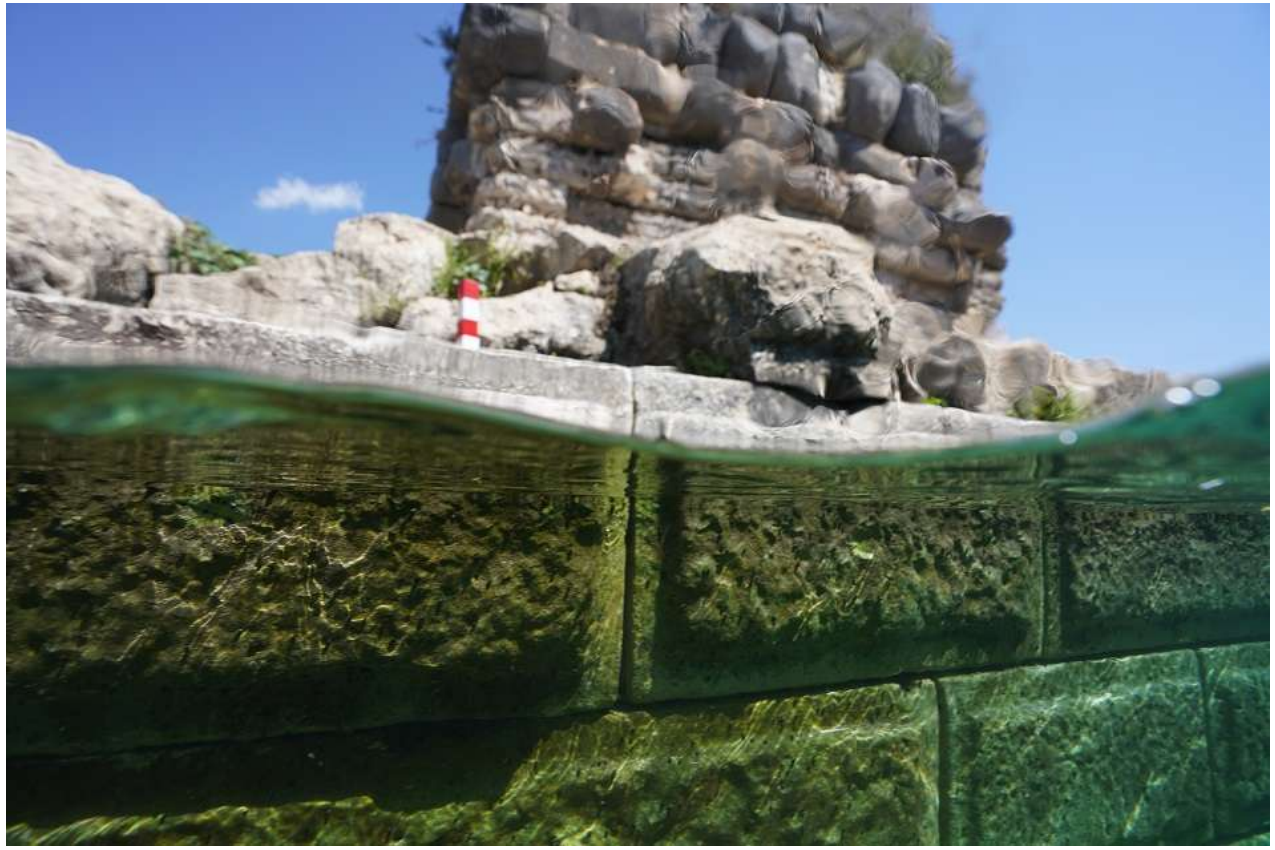
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Van Lake, Sunken Castle – Bitlis / Adilcevaz, Photo Tahsin Ceylan

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QUESTIONS ?



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