HORIZON-MSCA-2023-CITIZENS-01-01

WHEN SCIENTISTS GO UNDER THE WATER

CULTURAL HERITAGE IN THE MEDITERRANEAN

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the European Union

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.



Dr. Ceyda Öztosun

Archaeology and Ethnology of Polish Academy of Science
Akdeniz University Faculty of Communication



AÜ Kemer Sualtı Arkeolojisi Araştırma Merkezi

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

AKDENIZ UNIVERSITY, MEDITERRANEAN CIVILIZATIONS RESEARCH INSTITUTE

DIVISION OF UNDERWATER CULTURAL HERITAGE



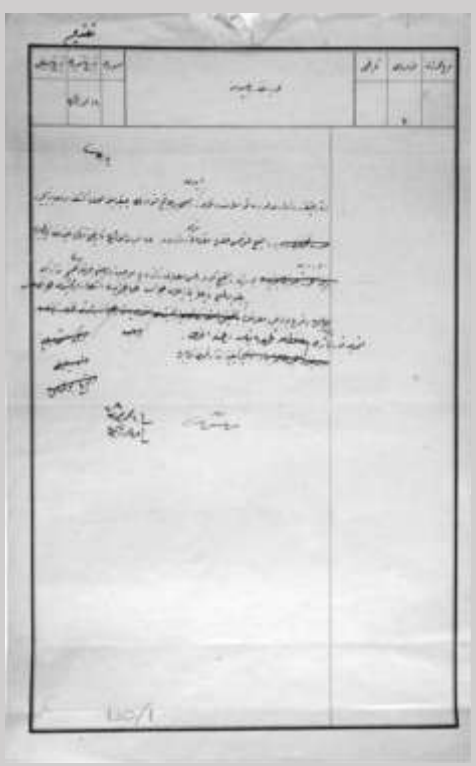
What is underwater cultural heritage?

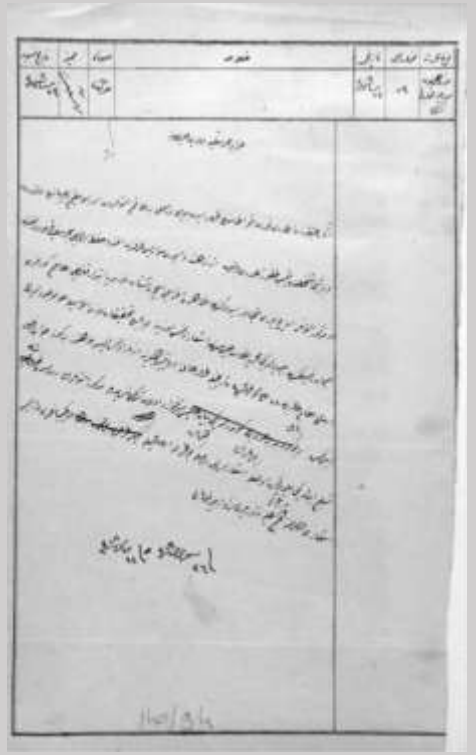
What is underwater archaeology?

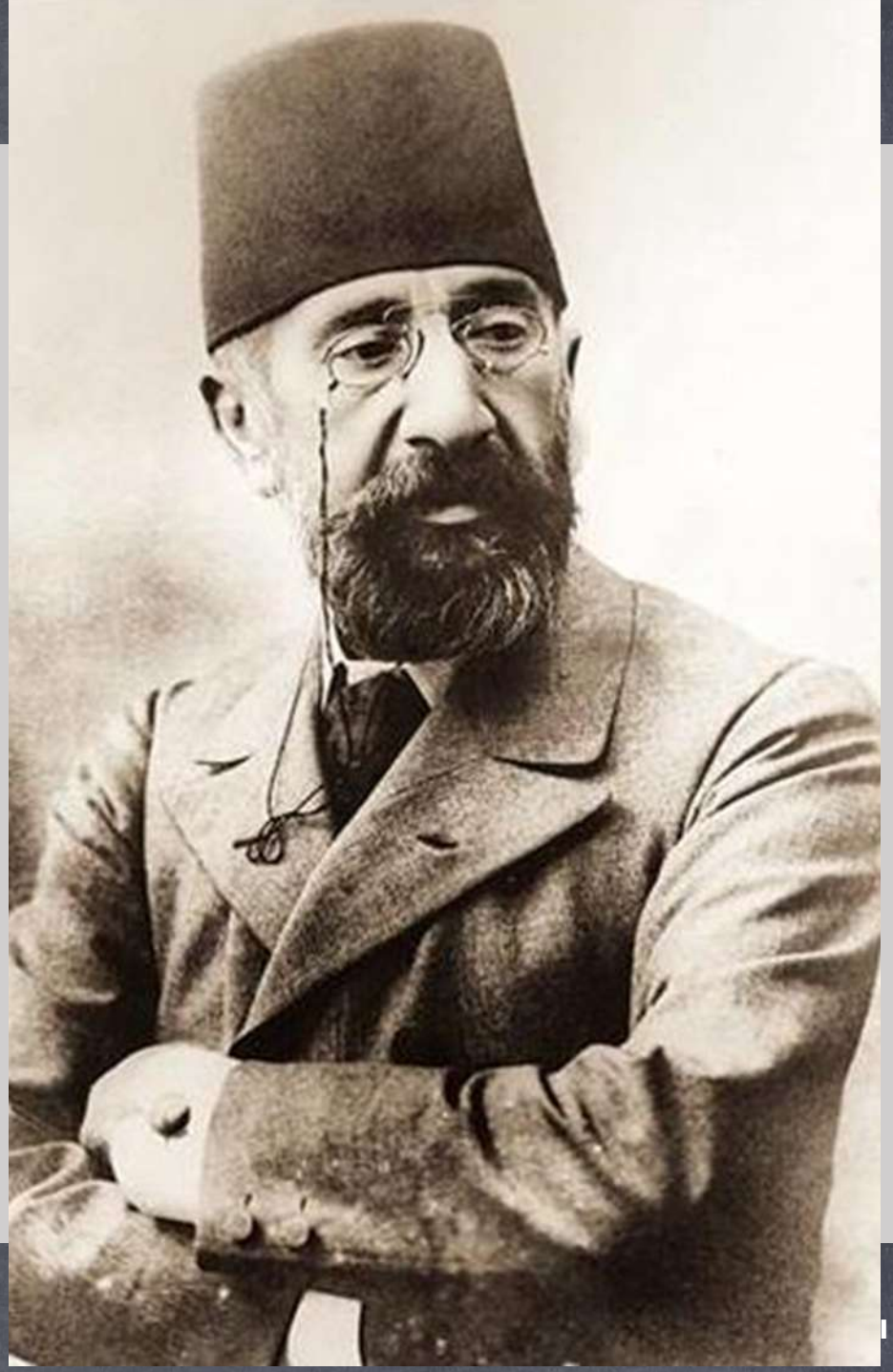
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OSMAN HAMDİ BEY
(1842-1910)

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







RESEARCHERS AT SCHOOLS



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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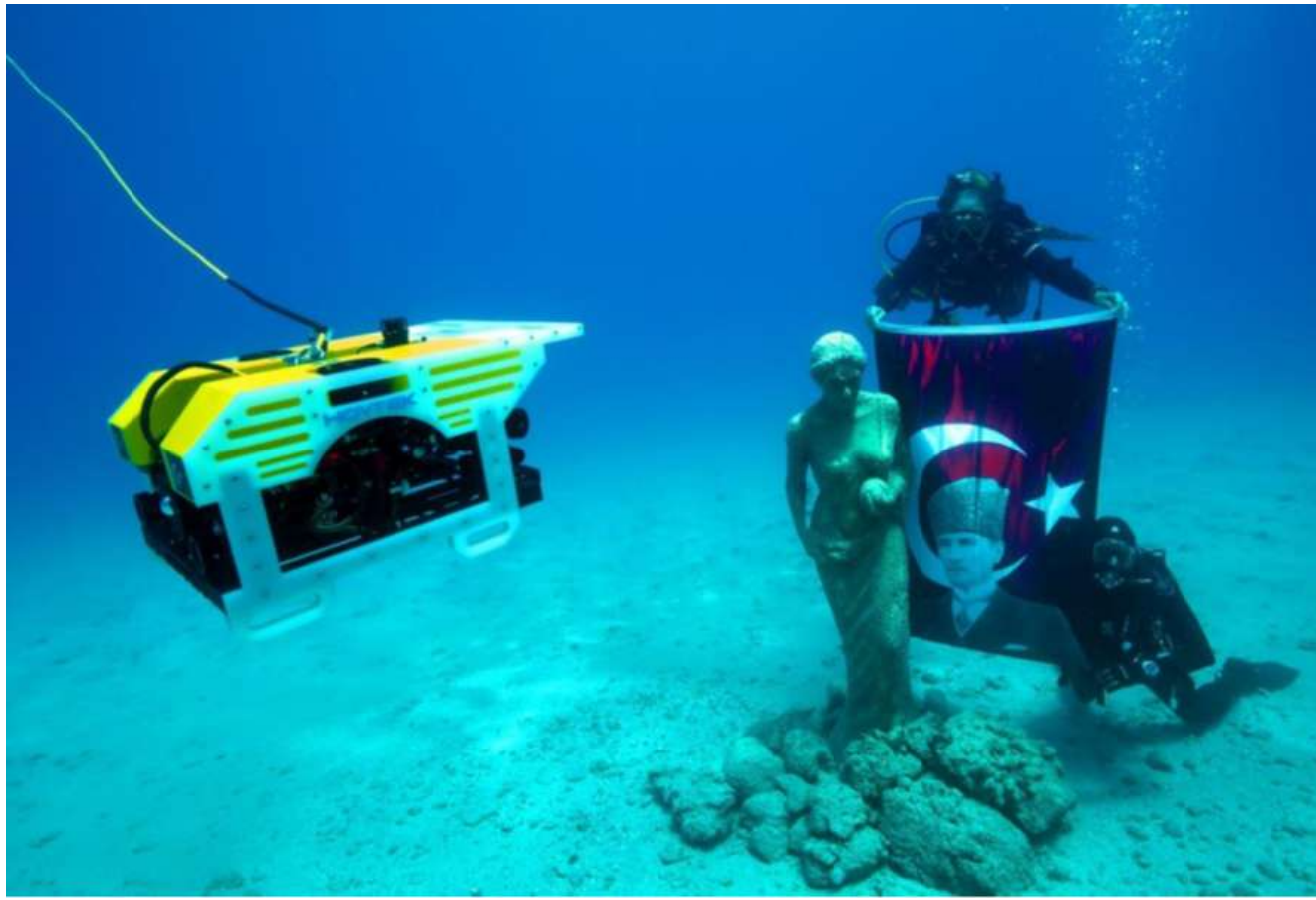




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Senegal, Mozambique, Algeria, Tunisia, Egypt, Cabo Verde, Kenya, Maritius, Comoros, Cibuti, Madagaskar, Eritre, Gambia, Morocco

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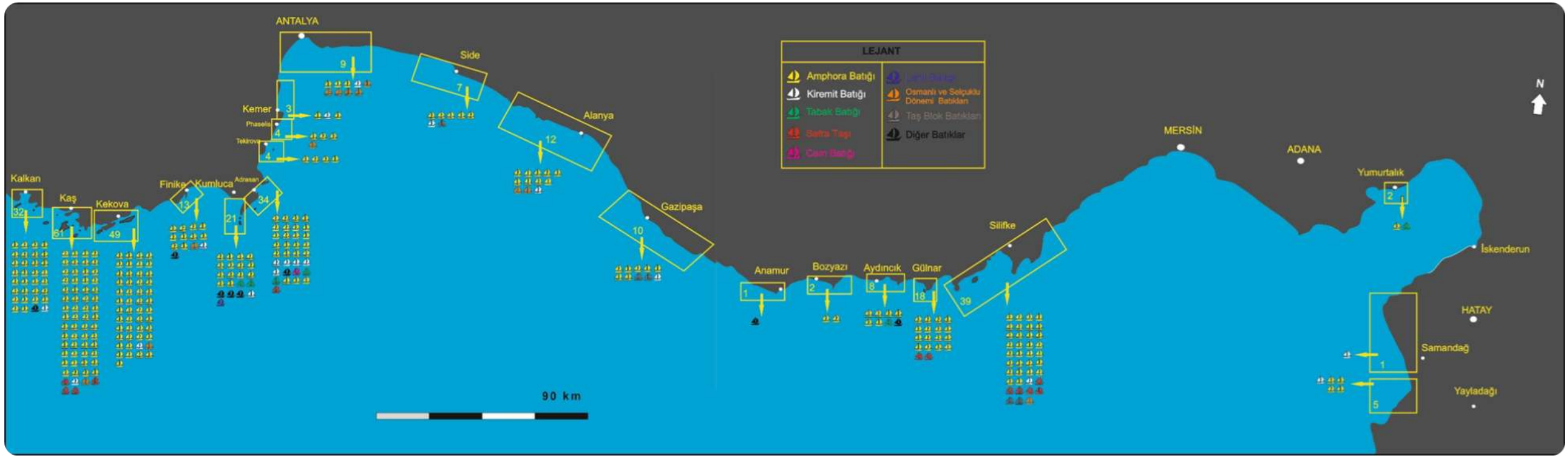




Professors are from: Türkiye, Portugal, Italy and Poland

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407 Shipwrecks have been found between 2012-2024

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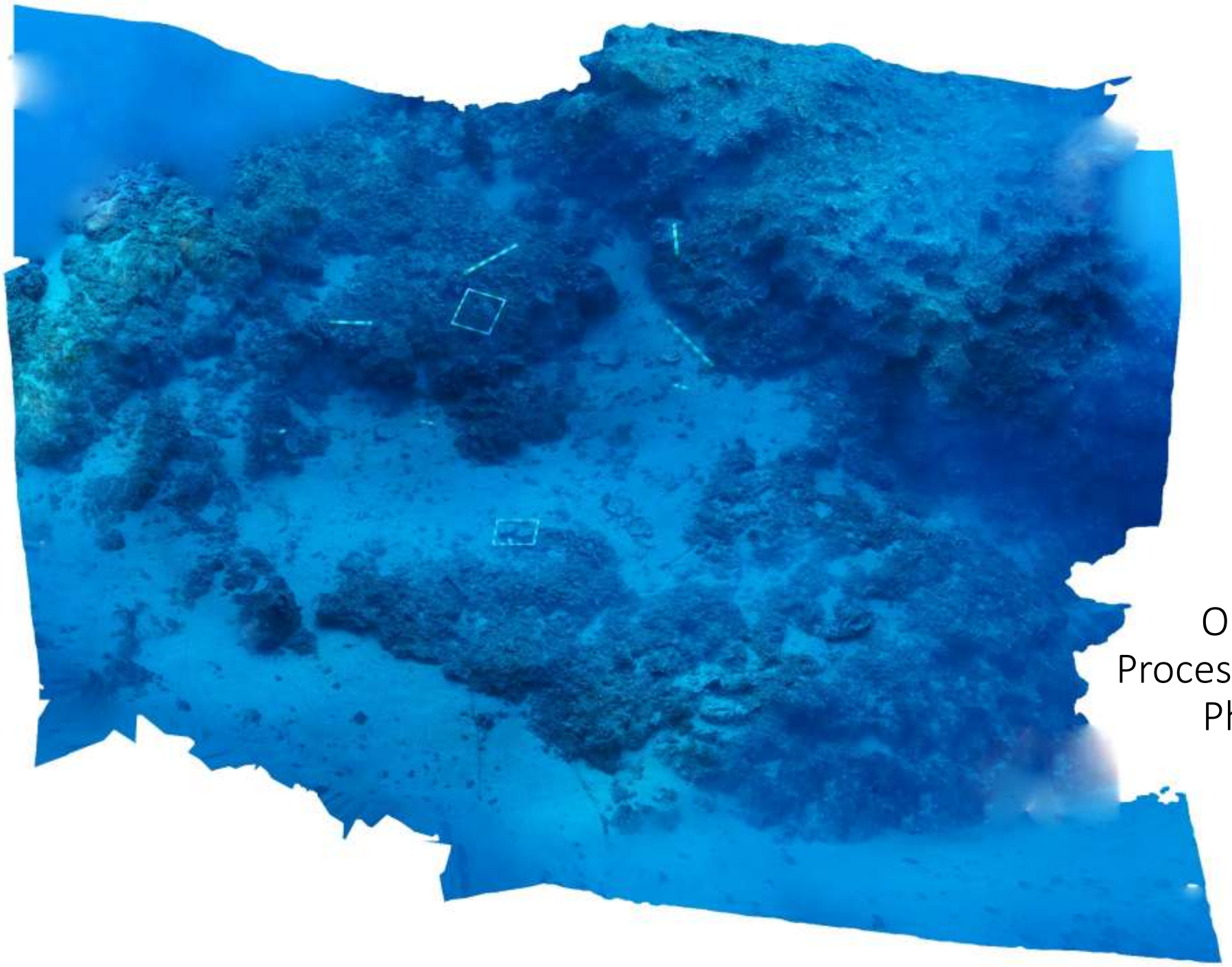
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Adrasan Plate Wreck
(3rd-1st Century
BC.)



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Ortophoto
Processes by Agisoft
Photoscan

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A tile wreck from Adrasan

Funded by the European Union

RESEARCHERS AT SCHOOLS

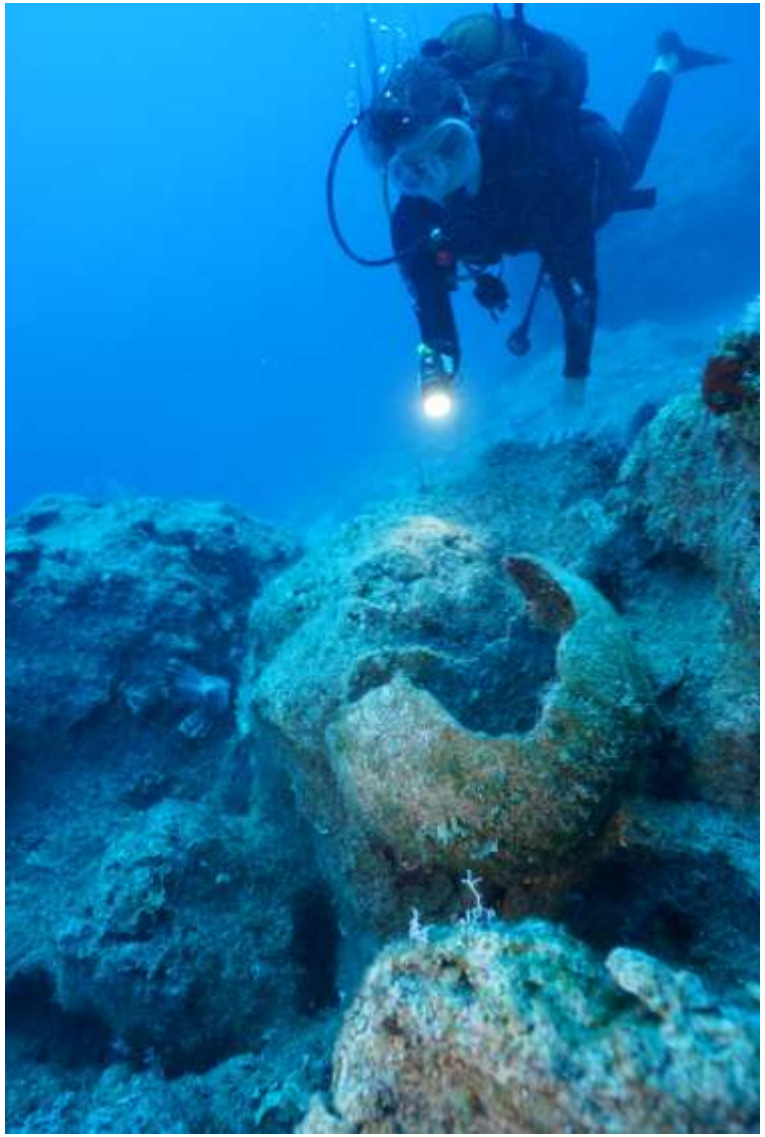


Adrasan
Tile Wreck
Photoscan

Funde
the European Union

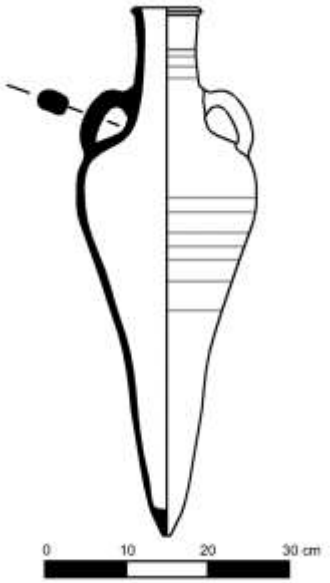
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Shipwrecks of Kekova Akar Boğazı





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Kalkan 4th-7th Century LRA7 Sinope Amphora Wreck

Photoscan

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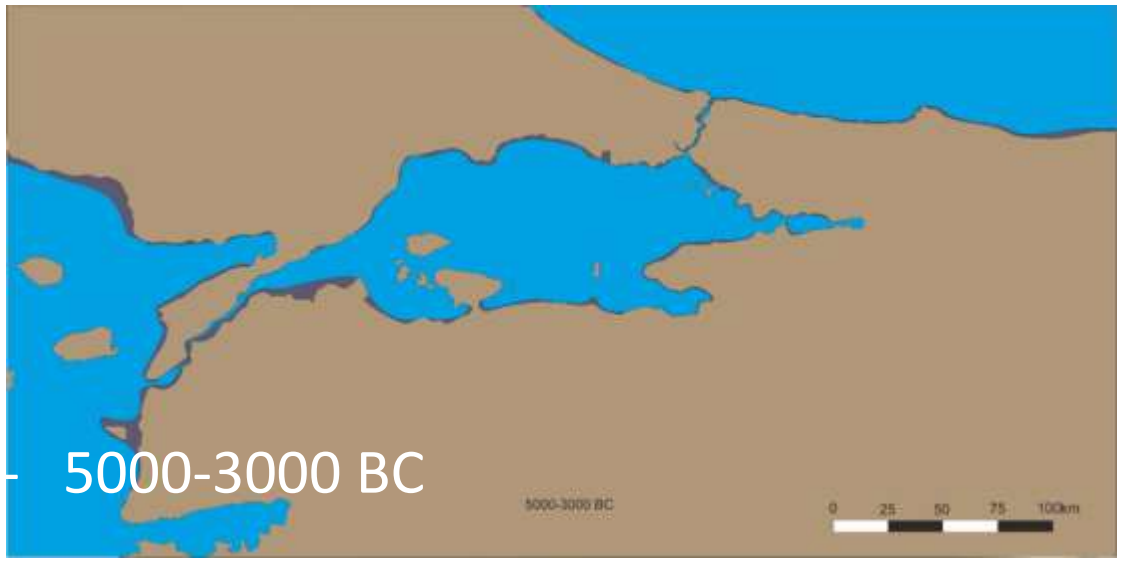
Submerged sites - earthquakes

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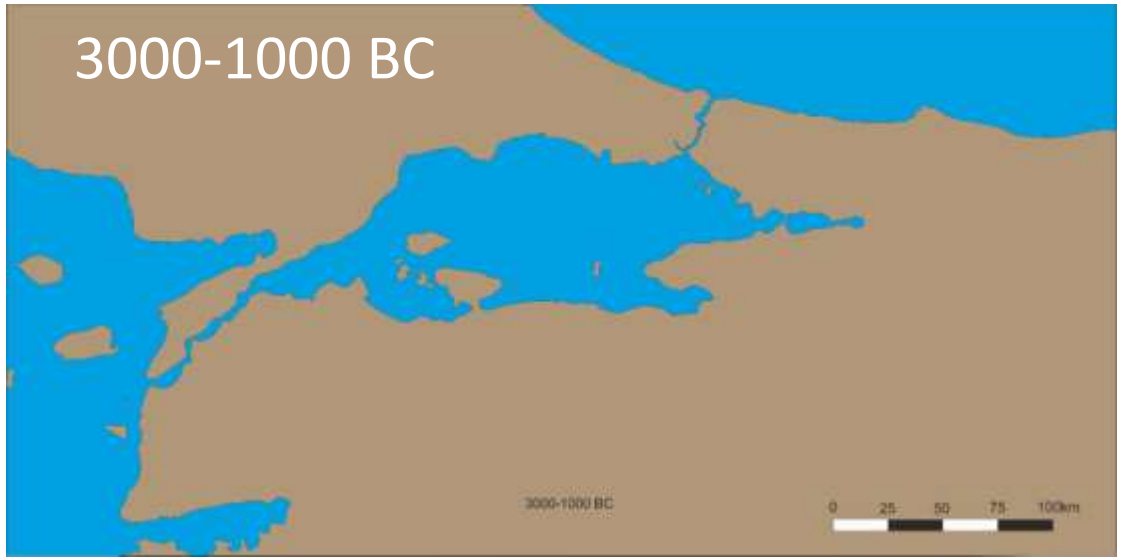
12000-8000 BC



5000-3000 BC



8000-5600 BC



3000-1000 BC

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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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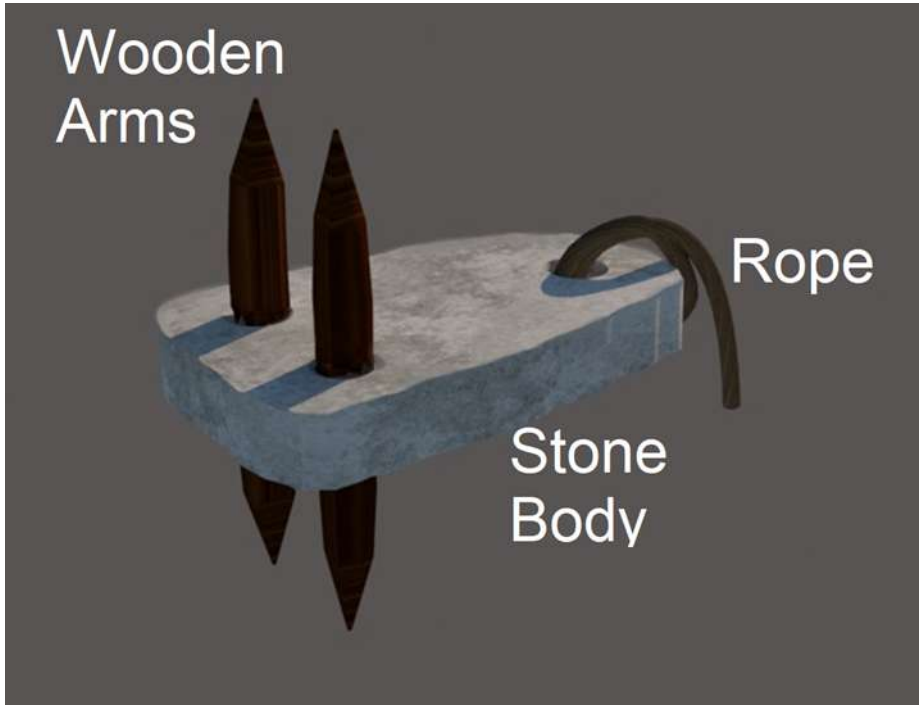
Taş Çipolu
Ahşap
Çapa
ve
Teredo
Navalis
Girmiş
ahşap

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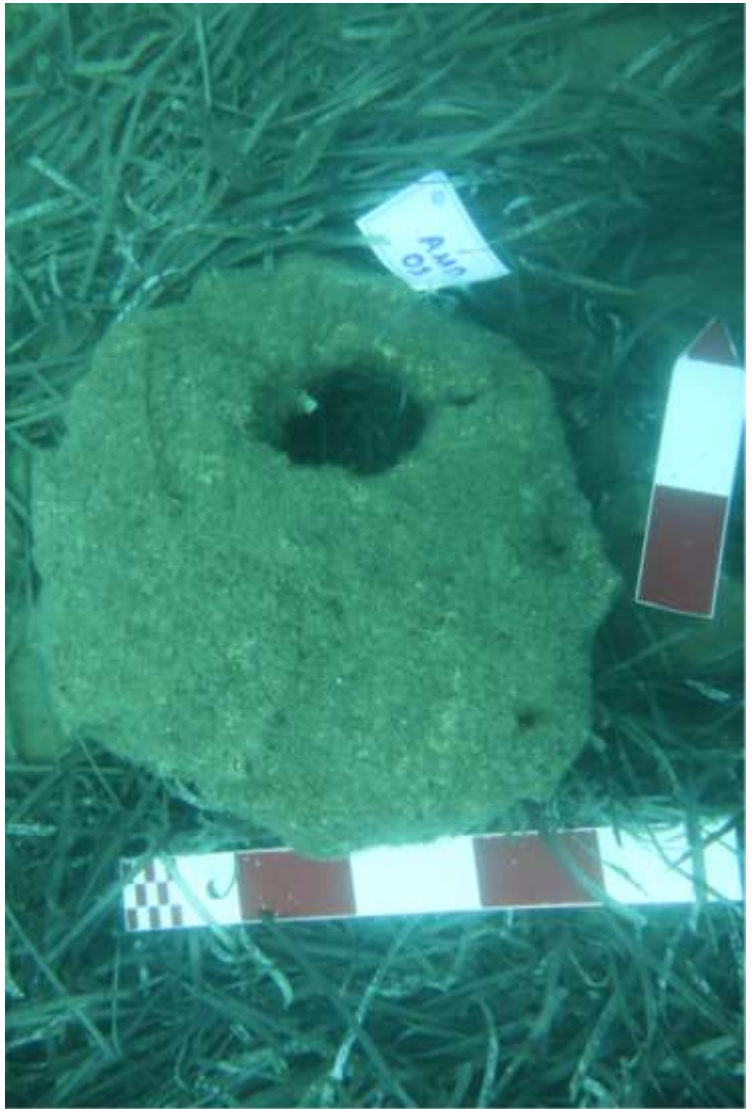
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http://honorfrostfoundation.org/wp/wp-content/uploads/2017/03/Duncan-Howitt-Marshall-Maritime-Horizons-on-Early-Cyprus-Interim-Report-1.pdf









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Stone anchors from the Bronze Age

RESEARCHERS AT SCHOOLS

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

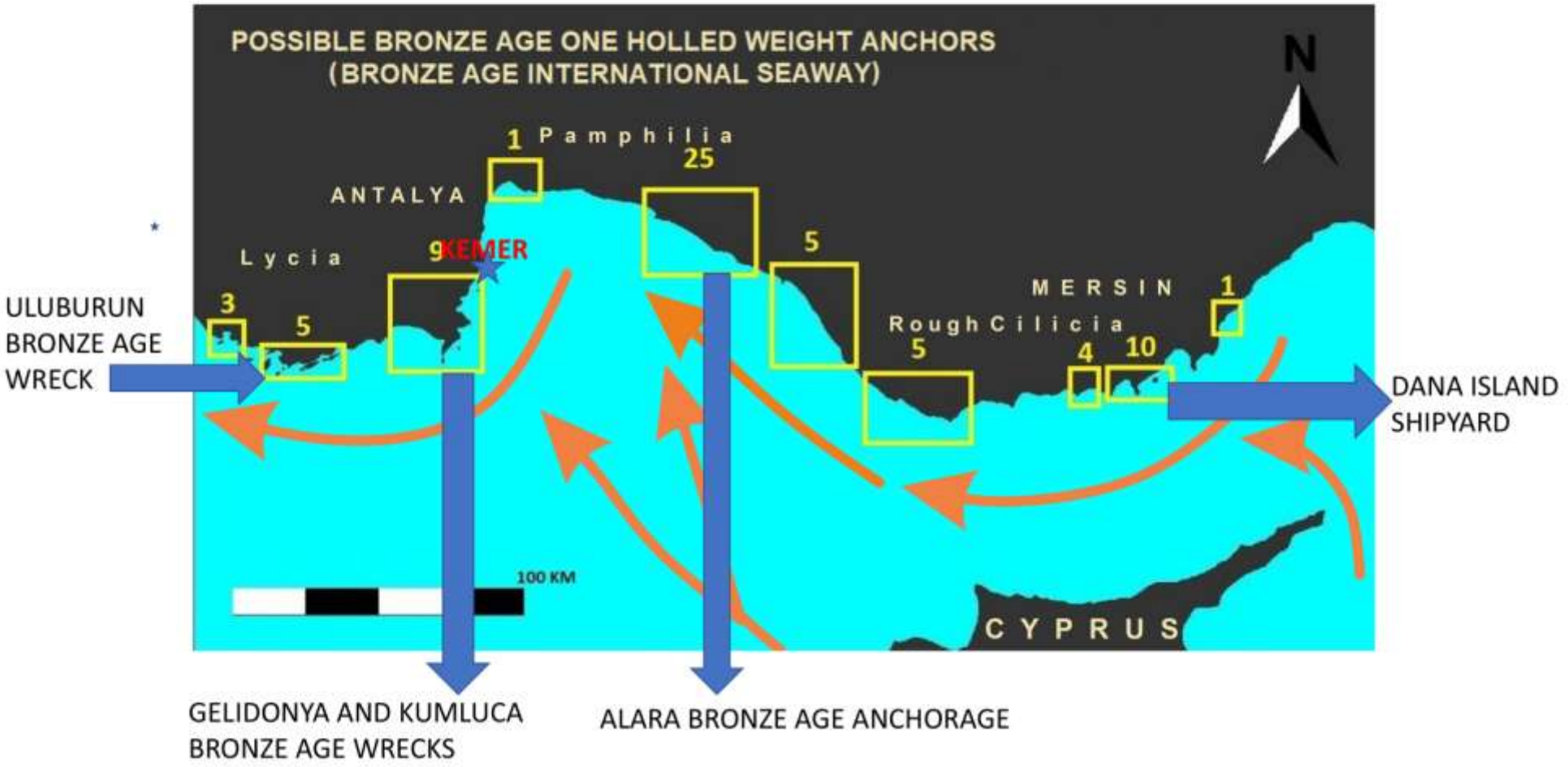




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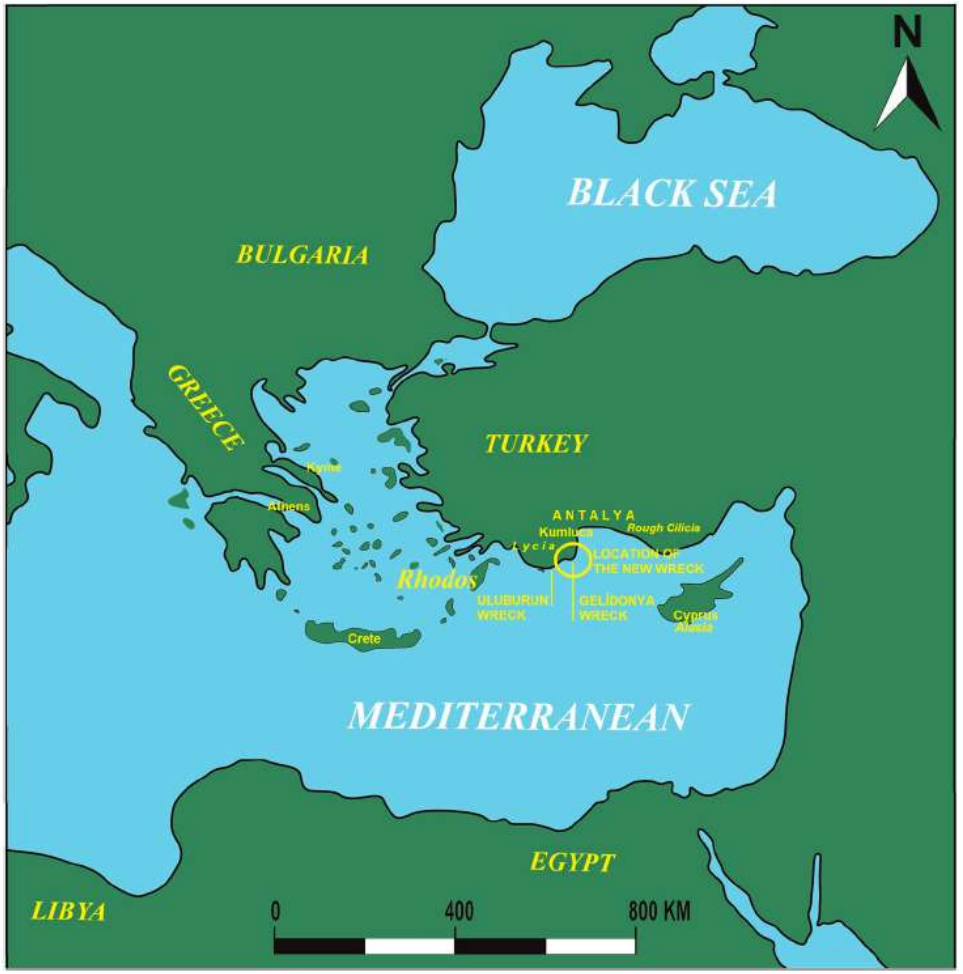
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Bronze Age Sea Routes in the frame of stone anchors and known wrecks



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Found in 2018

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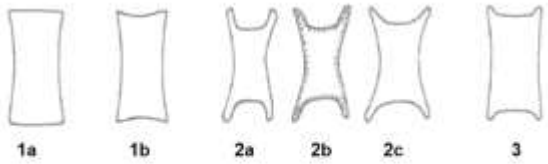
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«pillow shaped» copper ingots
1 New York Metropolitan Museum
4 Athens National Museum







BUCHHOLZ/BASS OXHIDE INGOT TYPES

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TABLE 1



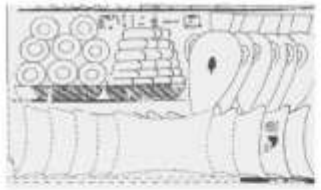
TOMB OF USERAMON AT THEBES
Reign of Hatshepsut or Thutmosis III (1490 - 1436 BC)
(Bass, 1967: 63, Fig. 64)
(Popa, 2014: 202, Fig. 18)



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)



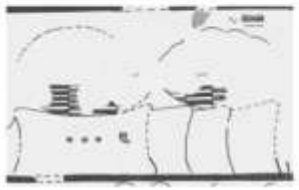
THE TOMB OF REKH-MI-RE
Reign of Thutmosis III (1471 - 1448 BC)
(Davies, 1943: pl XLVIII)



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)



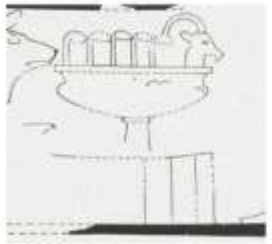
THE TOMB OF REKH-MI-RE
Reign of Thutmosis III (1471 - 1448 BC)
(Davies, 1943: pl XXI)



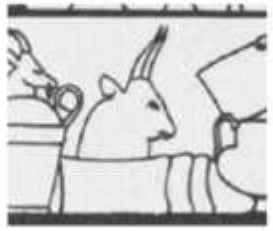
THE TOMB OF REKH-MI-RE
Reign of Thutmosis III (1471 - 1448 BC)
(Davies, 1943: pl XXII)



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)

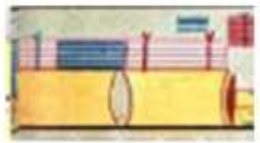
TABLE 2



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)

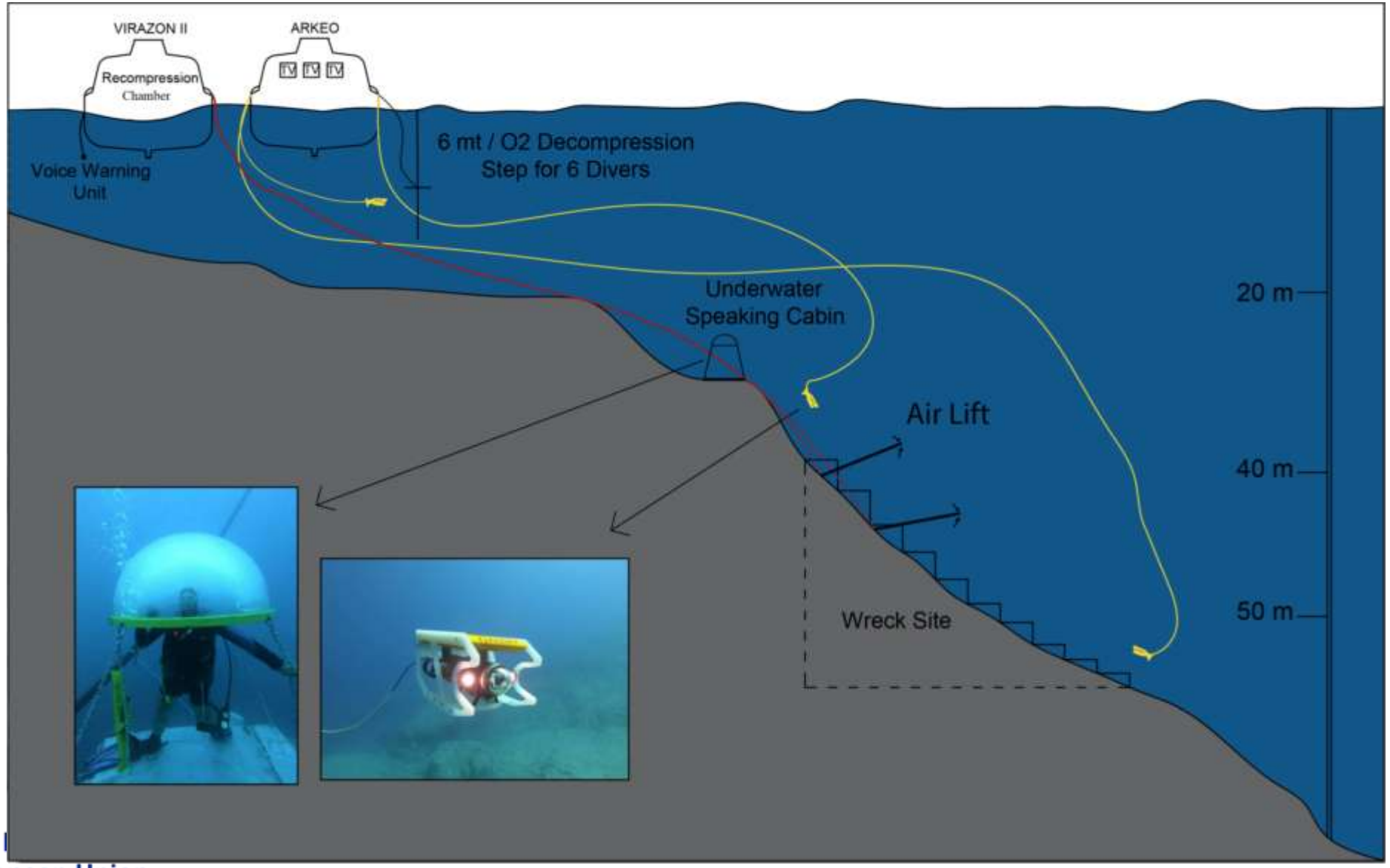


TOMB OF AMEN-EM-OTEP AT THEBES
Reign of Amenhotep I (1414 - 1397 BC)
(Bass, 1967: 65, Fig. 75)
(Popa, 2014: 202, Fig. 17)



TOMB OF HEPU AT THEBES
Reign of Thutmosis IV (1413- 1397 BC)
(Bass, 1967: 65, Fig. 76)
(Coghlan, 1939-1940: 68-69, Fig. 10)

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Araştırmacılar Okulda



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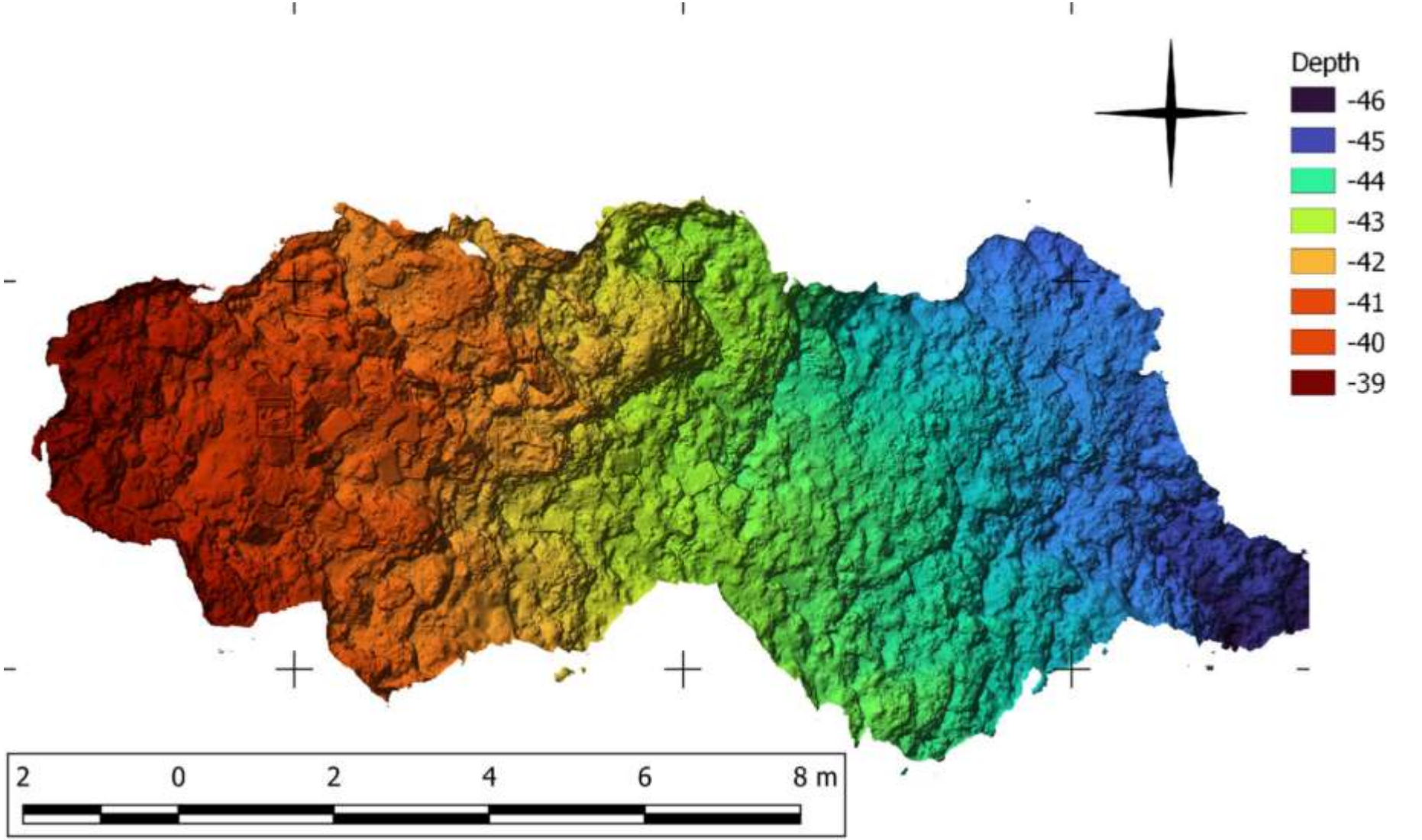




Robot (ROV) Kullanımı

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- Lion Fish film

- Octopus film

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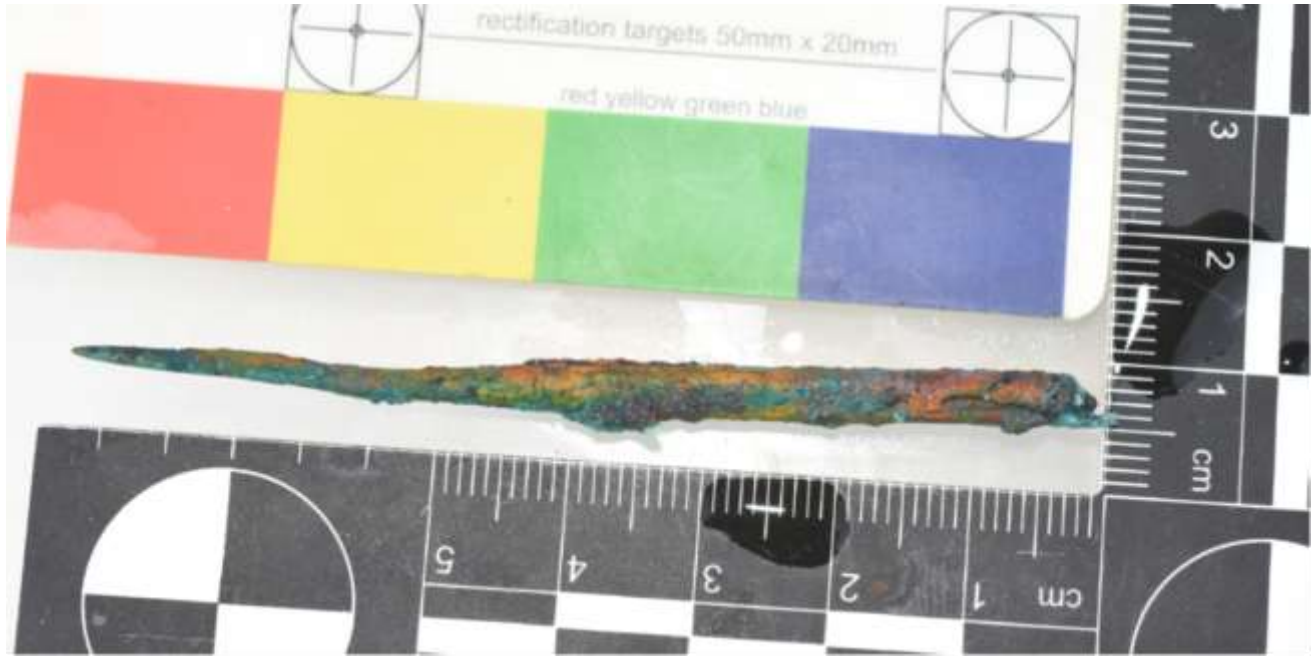






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Araştırmacılar Okulda

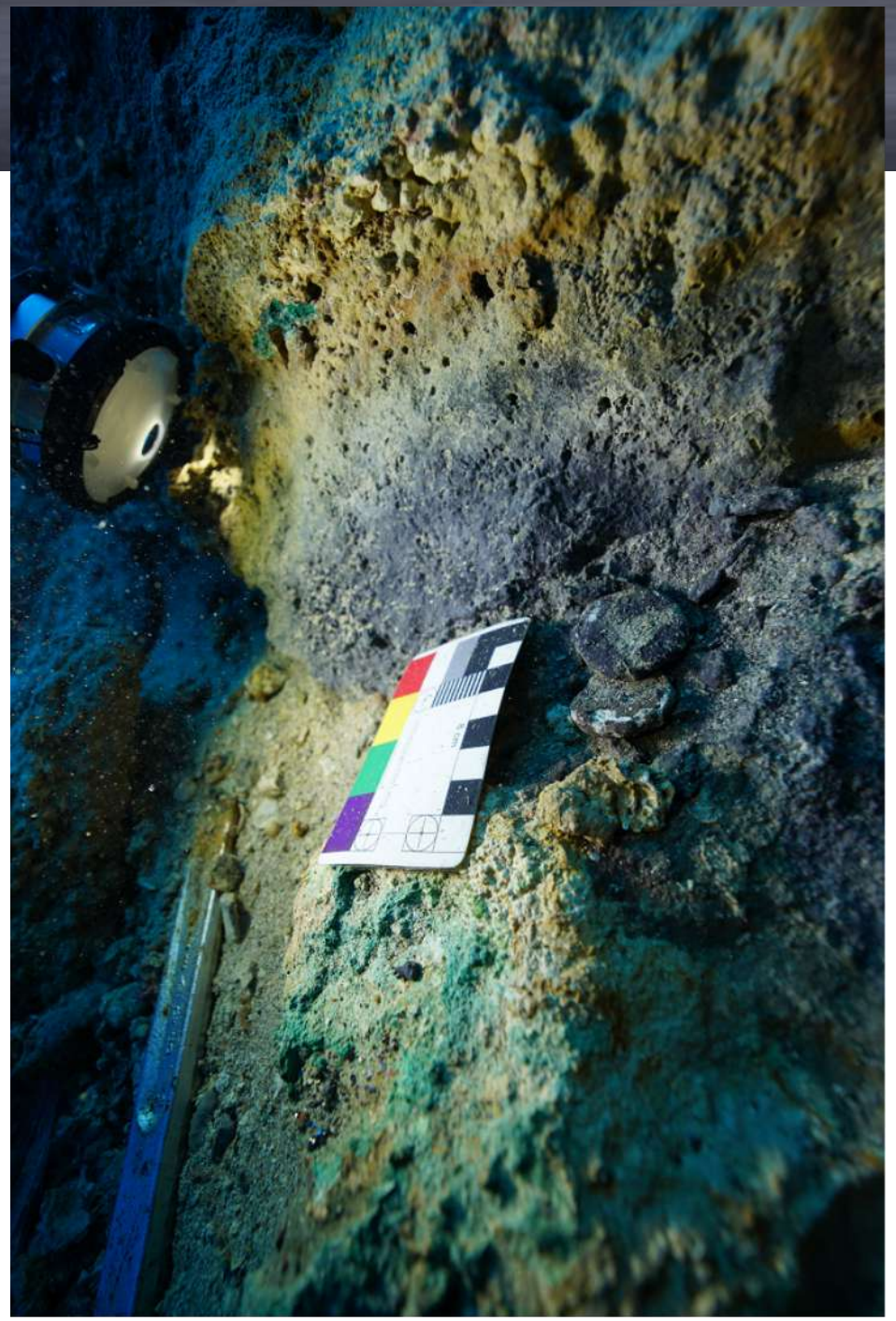




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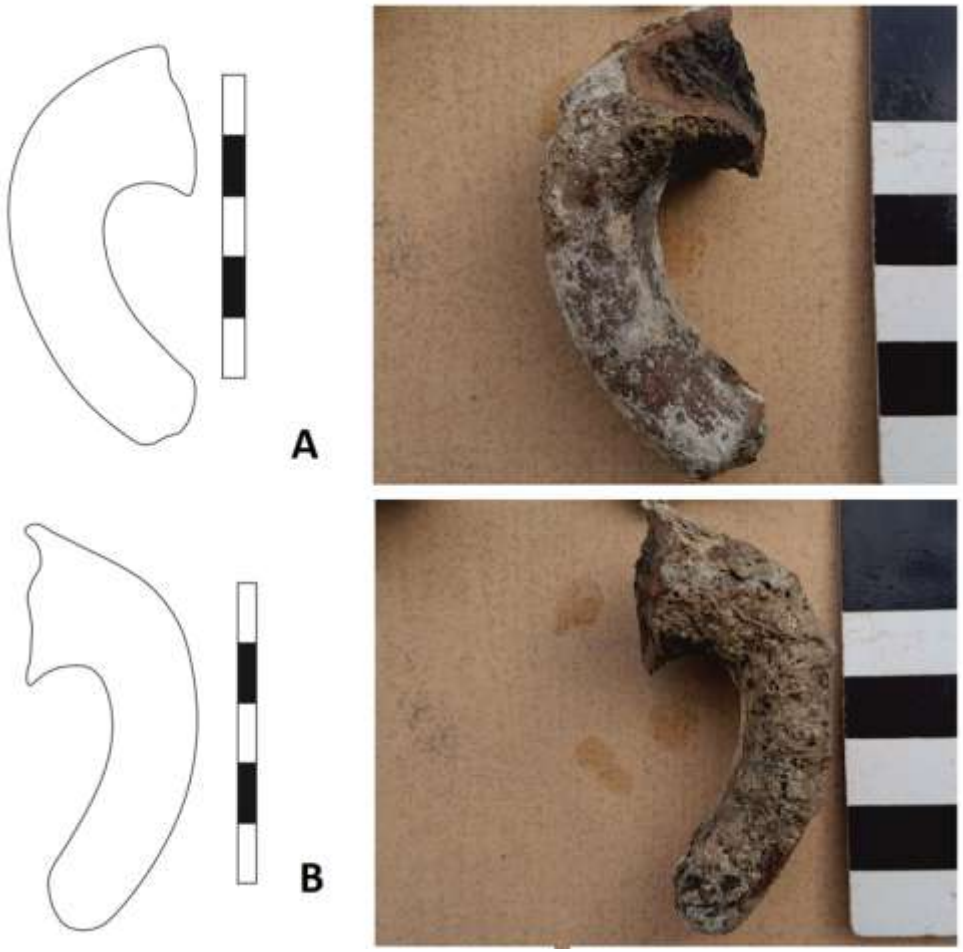


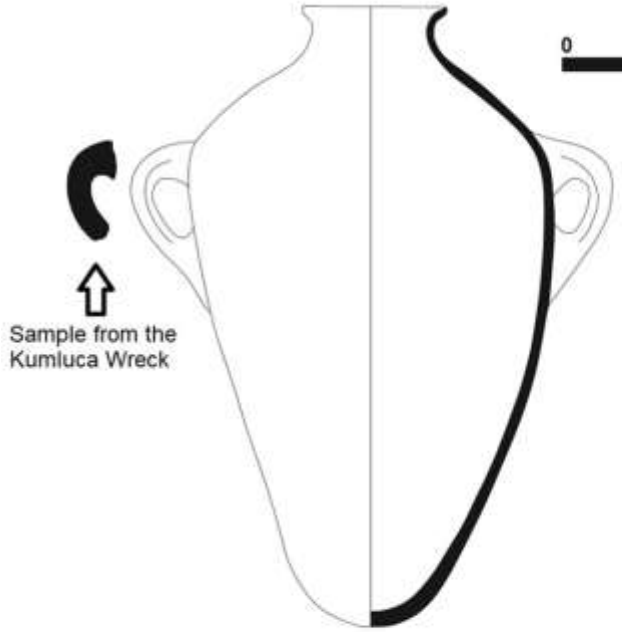


https://jp.pinterest.com/pin/142215300721100103/

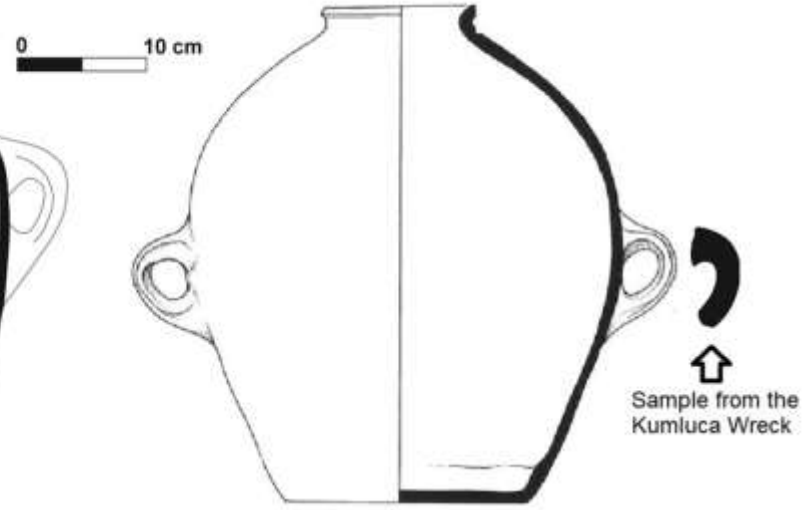
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MBII Amphora from Lacish
Reproduced from (Singer-Avitz, 2004: 931, Fig. 16.17: Area P, Level P-4, Locus 3125)



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

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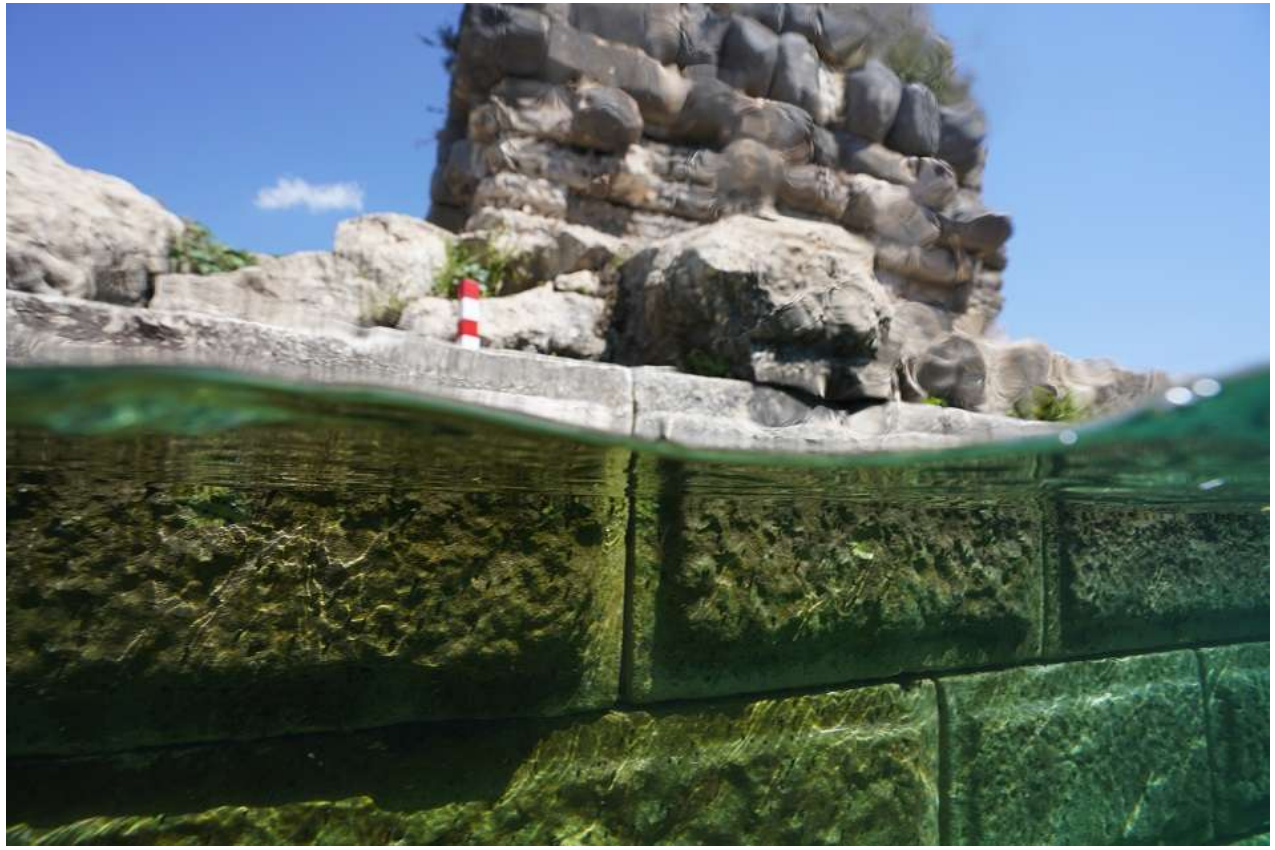




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Demre Beymelek Lake sunken Roman Bath

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Lymra Ancient City - Kenotaph /Main street

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QUESTIONS ?



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WHEN SCIENTIST GO UNDER THE WATER

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