



Berenike Troglodytica and the Hellenistic-Roman trade routes in the Red Sea and Indian Ocean region

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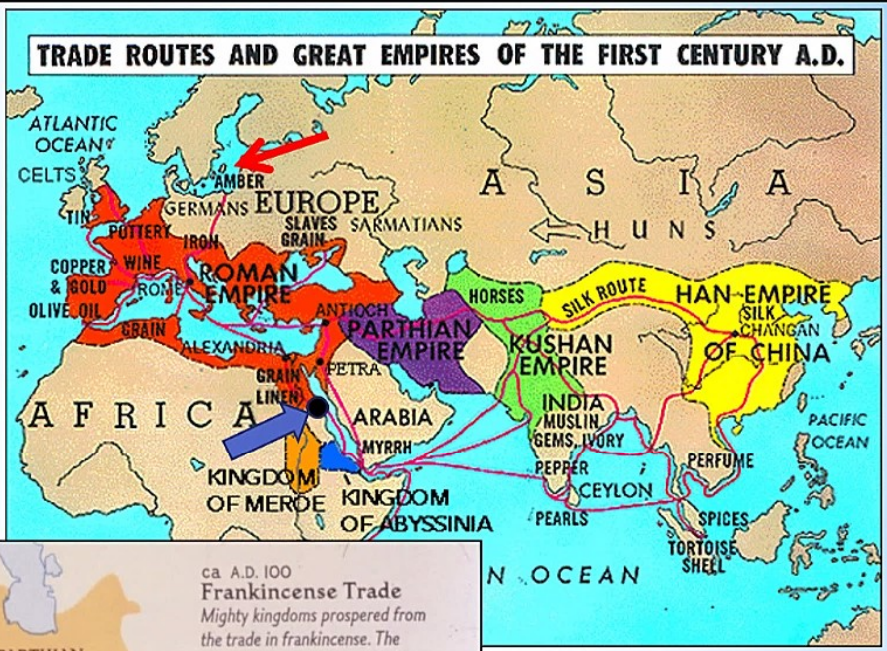


University of Delaware



Entre Mares

Courtesy of S. E. Sidebotham



Berenike in the Network of Hellenistic and Roman Trade Routes



Three Peaks of Activity of Berenike City and Harbor

Early Hellenistic period – 3rd c. B.C.- 2nd c. B.C.

Royal Ptolemaic harbor and military fortress. A key point in the chain of centers (harbors and bases) in Ptolemaic project of elephant hunting and exploration of Eastern Africa.

Early Roman period – 1st c. A.D.- beginning of 3rd c. A.D.

One of the main harbors on the maritime trade route to South Arabia, East Africa and India (so called Maritime Spice Route).

Late Roman/early Byzantin period – 4th c. A.D.- 6th c. A.D.

International harbor on the trade route to South Arabia, Aksum Empire and India (probably under control of Blemyes but with international merchant's community).



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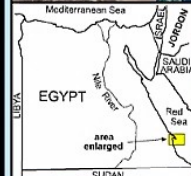
Berenike and its connection with Nile Valley in Hellenistic and Roman period



Map: S. Rempel.



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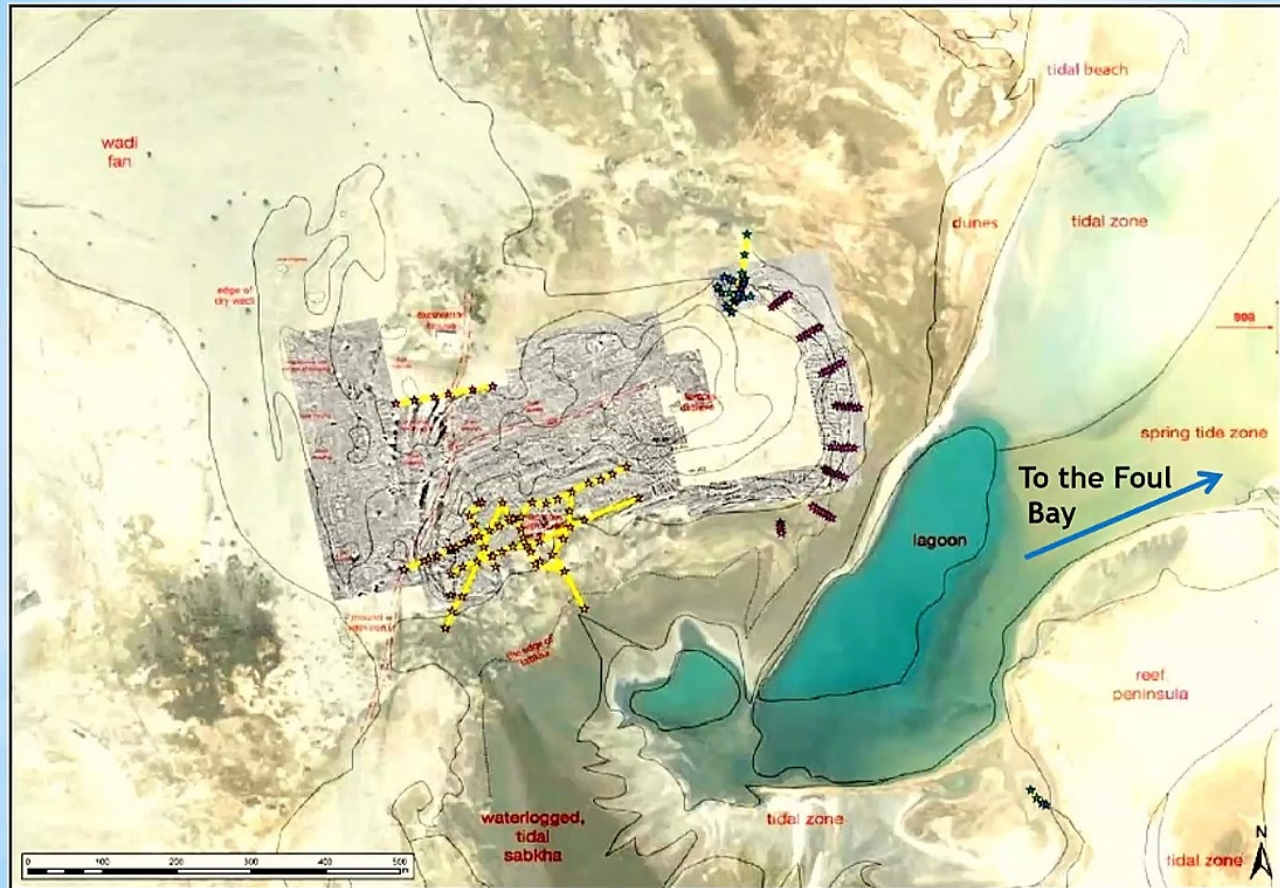


St. John's or Zabargad Island (Ophiodes Nesos or Topazos)

Berenike and its geological background

Plan: J. A. Harrell, M. Woźniak





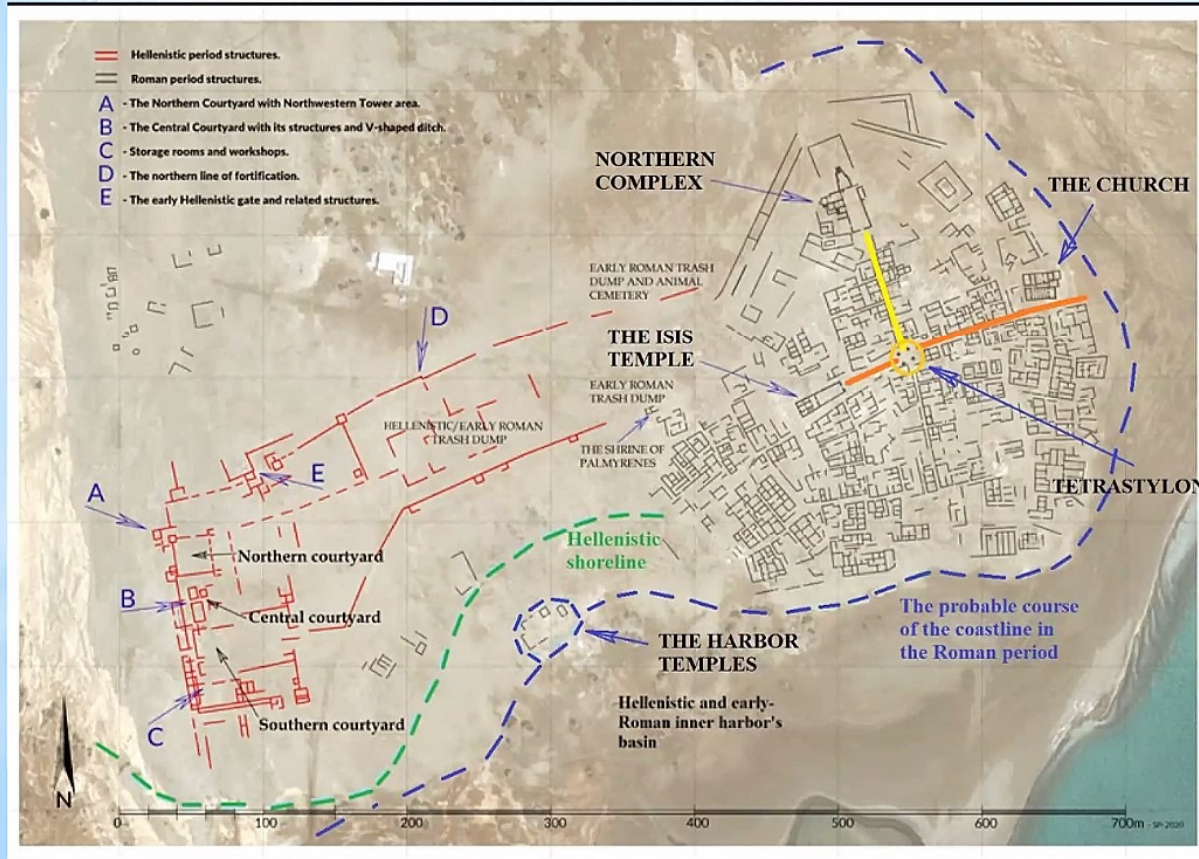
Plan: A.M. Kotarba-Morley

Geological coring around Berenike site



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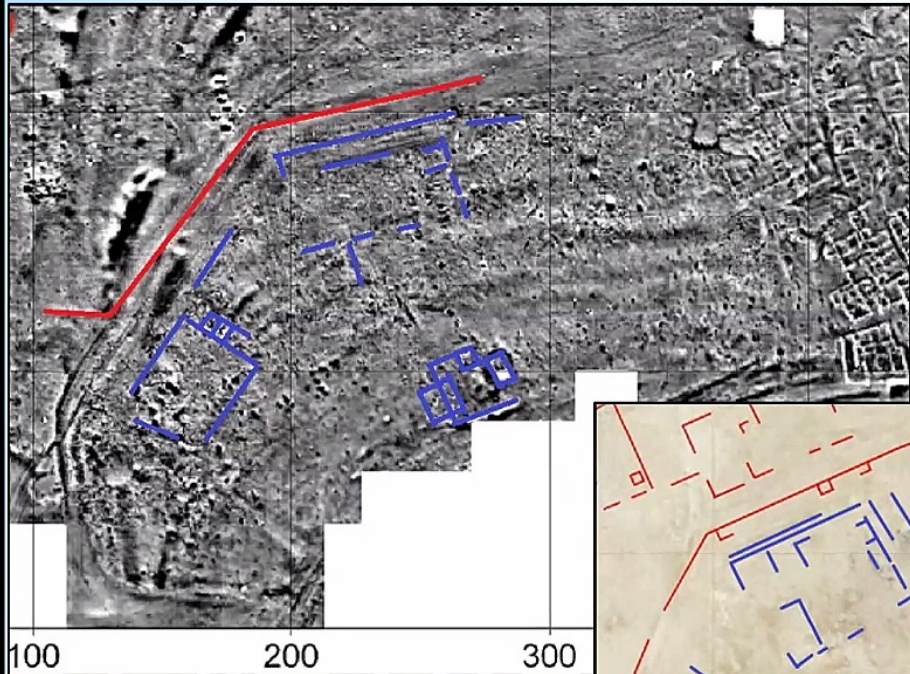
Hellenistic and early-Roman structures and their relationship to the northwestern part of the harbor basin



Plan: S. Poptawski, M. Woźniak

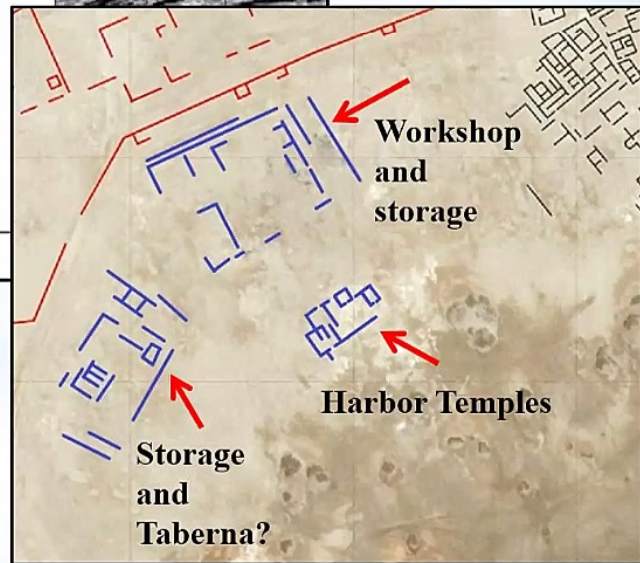


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Magnetic map D. Święch, R. Ryndziewicz, interpretation M. Woźniak

Harbor area in the Early-Roman period – 1st c. AD.- begining of 3rd c. AD.



Plan S. Poptawski, M. Woźniak



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Plan S. Poptawski, M. Woźniak

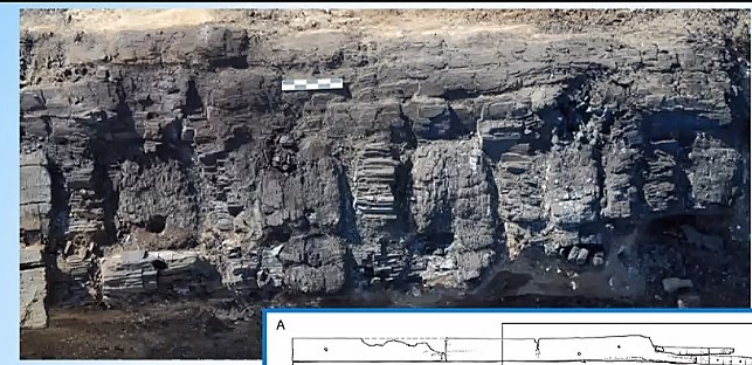


An early-Roman harbor workshop (probably related to ship and boat repair) 1st – 2nd c. AD

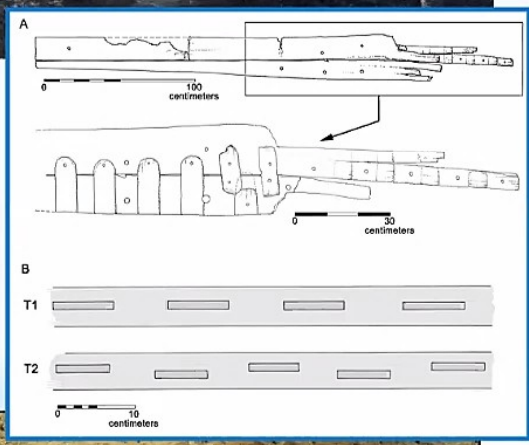


Fot. S.E. Sidebotham





Cedar boards from the Berenike Workshop building and Early Roman Ship Construction Technique: (Pinned Mortise-and-Tenon)



Courtesy S. E. Sidebotham



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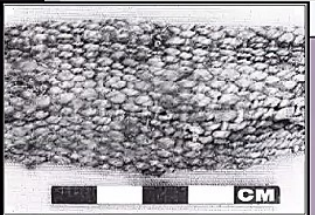


Courtesy of S. E. Sidebotham

**Ropes and portion of 1st or early 2nd c.
AD ship frame made of cedar wood**



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**Graffito of Roman Ship,
Lifting Net, Brailing
Rings, Fragments of
Sails and Lead Sheathing
(Mostly from Roman
trash dump)**

Courtesy of S. E. Sidebotham



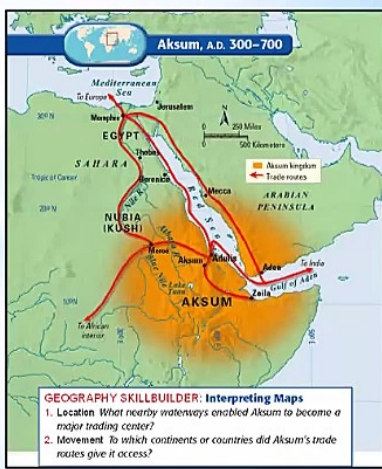
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Empire of Axum



Axumite King Aphilas ca. 270/290-330 AD



Courtesy of S. E. Sidebotham

