



Myos Hormos and the Ports of the Red Sea

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Katia SCHÖRLE

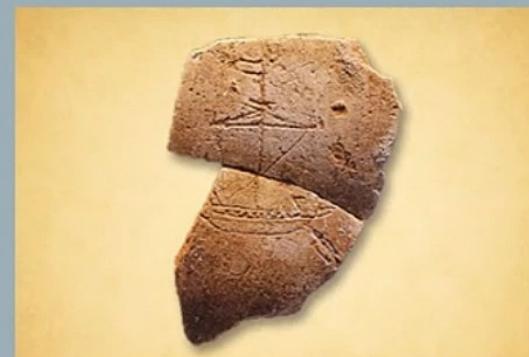
*Chargée de recherches au Centre National de la Recherche Scientifique
CNRS Researcher in Archaeology, Aix-Marseille University*



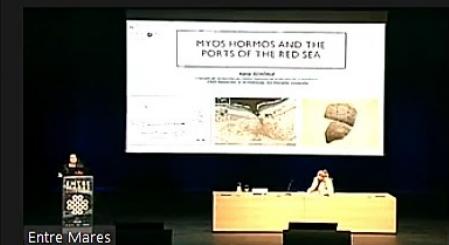
Ship graffito, Myos Hormos



Satellite view, Myos Hormos



Ship graffito, Berenike



Entre Mares



Mar Rojo : vientos principales y navegación

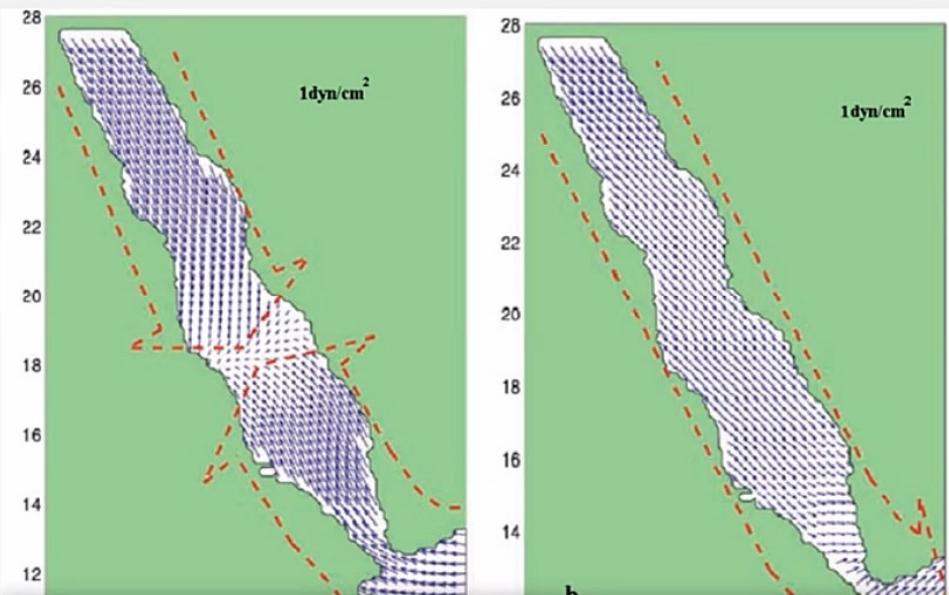


Figure 1.2: Wind-stress fields for (a) January and (b) July [11].

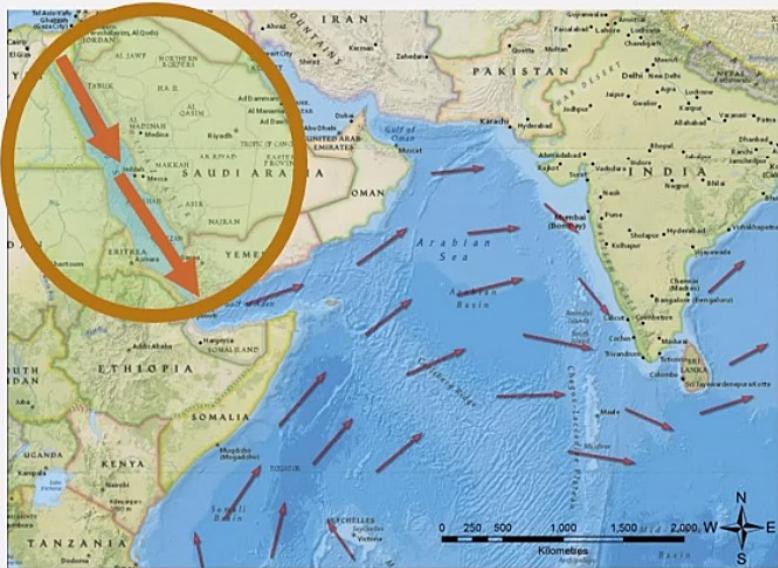
Published in 2010

Wave and wind conditions in the Red Sea. A numerical study using a third generation wave model

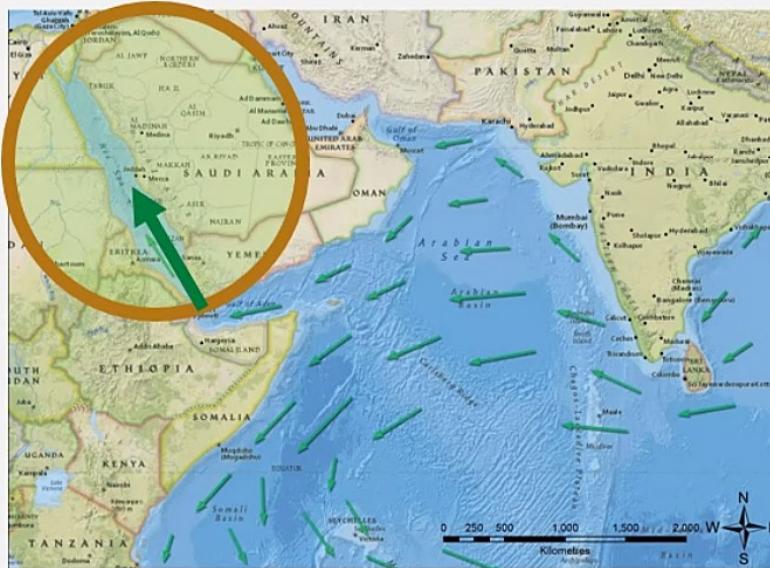
A. Saad



MAIN WINDS AND NAVIGATION VIENTOS PRINCIPALES Y NAVEGACION



A) Summer / Verano



B) Invierno (Winter)

© ESRI & National Geographic



REEFS AT RISK IN THE MIDDLE EAST



REEFS - ARRECIFES

Diodorus Siculus, Book 3.40

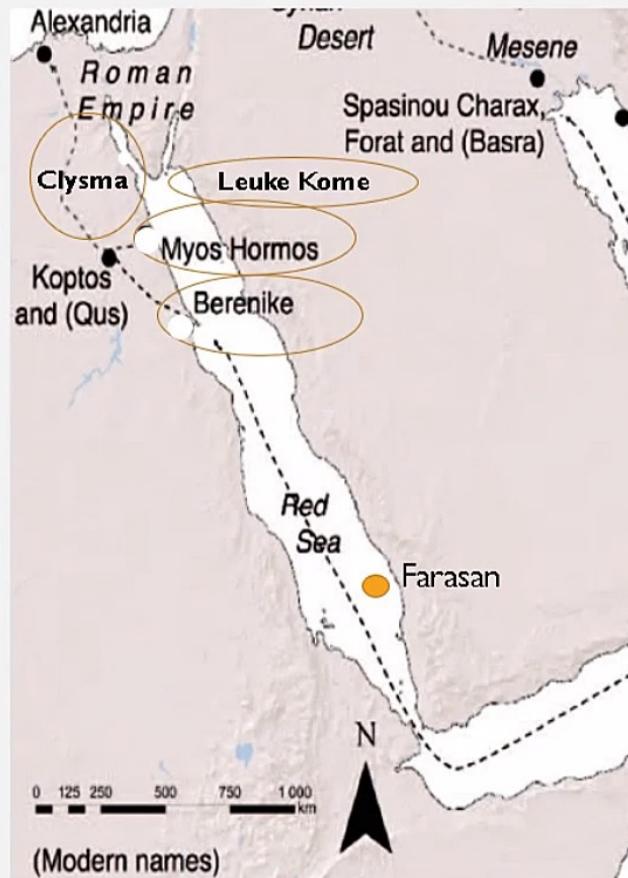
« until one comes to the Harbour of Soteria...

the sea, which runs to shoals, is found to have a depth of no more than three fathoms...For ships, then, which are equipped with oars the place is suitable enough,...but the ships which carry the elephants, being of deep draft because of their weight and heavy by reason of their equipment, bring upon their crews great and terrible dangers. »



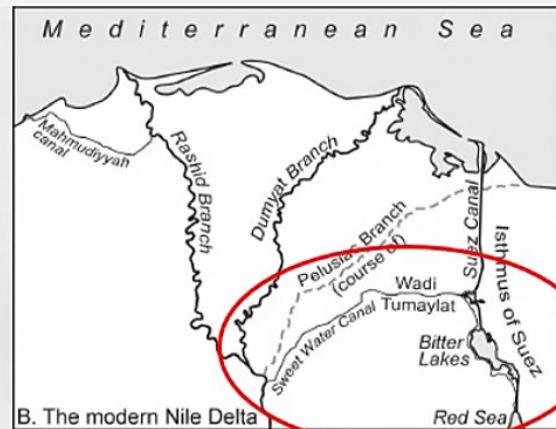
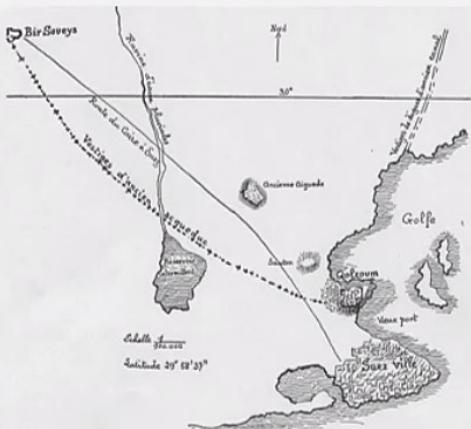
ROMAN PERIOD: MAIN HARBOURS PUERTOS ROMANOS PRINCIPALES

- 2 principal harbours:
 - Myos Hormos
 - Berenike



TRAJAN'S CANAL (CLYSMA)- CANAL DE TRAJANO

- Ostrakon dated to AD 112: *terminus ante quem*.
- Papyrology: canal is maintained between the 2nd and 6th century AD
- Diocletian (284-305) reinforces access to the canal
- Egeria: visit to Clysma AD 383
- Point of origin of annual embassies to India by a *logothete (official)*



MYOS HORMOS



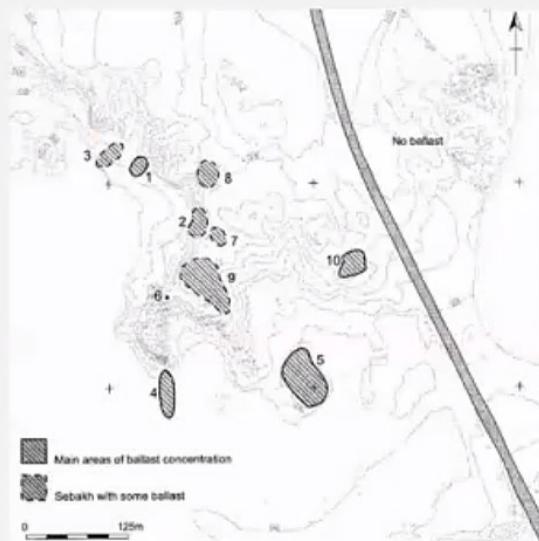
MYOS HORMOS



→ Islamic era
→ Roman era

University of Southampton excavations
L. Blue & D. Peacock





Peacock, David, Williams, David and James, Sarah (2007) Basalt as ships' ballast and the Roman incense trade. In, Peacock, David and Williams, David (eds.) *Food for the Gods: New Light on the Ancient Incense Trade*. Oxford, UK. Oxbow, pp. 28-70.



GRAFFITI

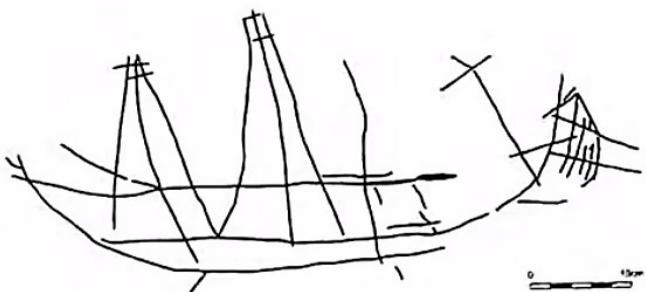
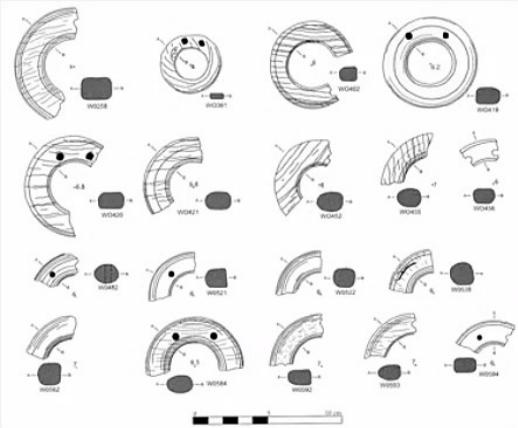


Fig. 4 – Graffito de navire de Myos Hormos. Le navire à deux mâts est remorqué par une embarcation à rames et dotée d'un mât (d'après PEACOCK, BLUE 2006).



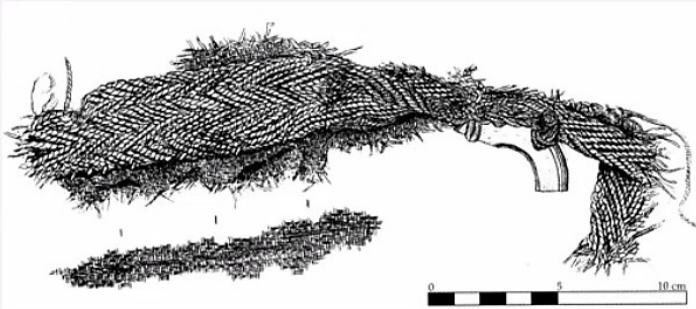
Roman (?) vessels



Cattle horn or wooden brail-rings

J. Whitewright

Cotton sails



COPTOS TARIFF – 90 AD

From the precept of...how much is payable for the duties owing to the arabarch in Coptos, according to the judgment he has written on this stele by Lucius Antistius Asiaticus, prefect of Mount Berenike:
for a helmsman of the Red Sea, eight drachmas;

a ship's lookout, ten drachmas;
a guard, five drachmas;
a sailor, five drachmas;
a shipbuilder's servant, five drachmas;
an artisan, eight drachmas;
women for the purposes of prostitution, one hundred and eight drachmas;
women arriving by ship, twenty drachmas;
women of the soldiers, twenty drachmas;
a ticket for camels, one obol;
a seal for a ticket, two obols;
per outward journey for each ticket of a man going up, one drachma;
all women going up, four drachmas;
an ass, two obols;
a covered wagon, four drachmas;
a mast, twenty drachmas;
an animal horn, four drachmas;
a funeral procession going up and down, one drachma four obols.

Year 9 of the Emperor Caesar (Domitianus) Augustus (Germanicus), the 15th day of the month Pachys.¹⁴⁵

εξ ἐπιταγῆς . . .
 . . . δσα δεῖ τοὺς μισθ[ω]—
 τάς τοῦ ἐν Κόπτῳ υποτείπτον—
 τος τῆς ἀραβαρχίζου ἀποστολίου πράσ-
 σειν κατὰ τὸν γνάμον[α] τῆρε τῇ
 στήλῃ ἐνικεχάρακται διὰ Λουκίου
 Ἀντιστίου Ἀσιατικοῦ ἐπάρχου
 δρους Βερενείκης
 κυβερνήτου Ἐρυθραικοῦ δρα-
 χμάς ὅκτω . . .
 πρωρέως δραχμάς δέκα,
 [φυλάκου δραχμάς πέντε,
 [να]γύντου δραχμάς πέντε,
 [θε]ραπευτοῦ ναυπηγοῦ δραχμάς
 πέντε, χειροτέχνου δραχμάς
 ὅκτω γυναικῶν πρὸς ἑταρισ-
 μὸν δραχμάς ἑκατὸν ὅκτω,
 γυναικῶν εἰσπλεούσον δρα-
 χμάς εἴκοσι, γυναικῶν στρατι-
 ῱τῶν δραχμάς εἴκοσι,
 πιττακίου καμήλων ὄβολον ἔνα,
 σφραγισμού πιττακίου ὄβολούς δύο,
 πορειας ἔξερχομενῆς ἑκαστον
 πιττακίου τοῦ ἀνδρός ἀναβαίνον-
 τος δραχμὴν μίαν, γυναικῶν
 πλαστῶν ἀνά δραχμάς τέσσαρας,
 δύνου ὄβολούς δύο, ἀμάξης ἔχού-
 σης τετράχων δραχμάς τέσσαρες,
 λιτοῦ δραχμάς είκοσι, κέρατος δρα-
 χμάς τέσσαρες, ταφῆς ἀναθερομε-
 νῆς καὶ κατεφερομένης δραχμὴν μίτ-
 αν τετράβολον. ἔτους 9' Ἀντοκράτορος
 Καίσαρος [Δομιτιανοῦ] Σεβαστοῦ [Γερμανικοῦ], Παχῶν 1ε'.

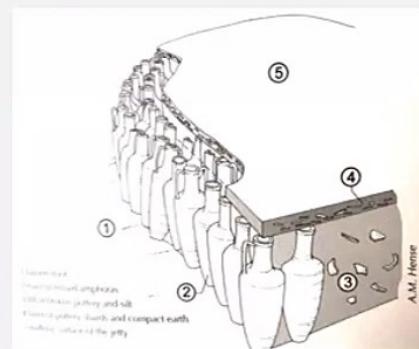
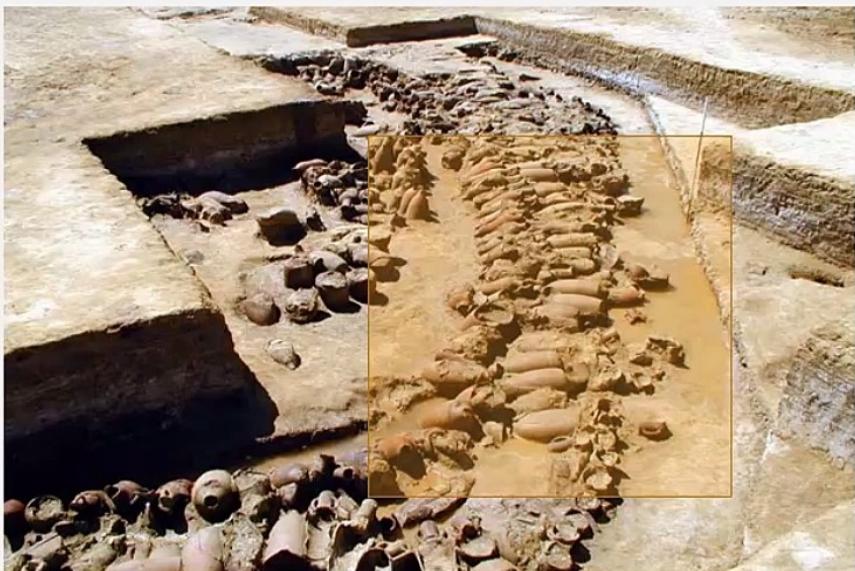


Entre Mares

MYOS HORMOS



MYOS HORMOS



AMPHORAE TYPES USED

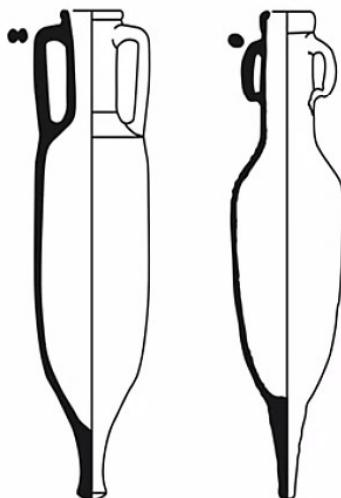


Fig. 2: Dressel 2-4 (left) and Amphore égyptienne 3 (right) (not to scale) (Antony Simpson).



Fig. 3: Italian Dressel 2-4 from the amphora jetty at Quseir al-Qadim (Photo: D. Peacock).



R. Tomber (2012) From the Roman Red Sea to beyond the Empire : Egyptian ports and their trading partners, *British Museum Studies in Ancient Egypt and Sudan* 18: 201-215.

MILITARY PRESENCE AT MYOS HORMOS PRESENCIA MILITAR

O. Petr. 279, Myos Hormos, AD 52

- Σατορνῖλος τεσσαράριος λυβέρνου Ἐπωνύχω Ἀχιλλέως χαίρειν. ἀπέχω παρὰ σοῦ ἐπὶ Μυὸς Ὄρμου πυροῦ ἀρτάβας τρεῖς (γίνονται) γ. (ἔτους) ιψ Τιβερίου Κλαυδίου Καίσαρος Σεβαστοῦ Γερμανικοῦ Αὐτοκράτορος Θώθ ιθ.
- Satornilos tesserarius liburnae / to Eponichos, son of Achilleus, salutations / I receive from you here in Myos Hormos / three artabas of cereals. Year 13 of Caesar / Tiberius Claudius Augustus Germanicus / Emperor, Thoth 19.

• O.Petrie 296 (AD 6–50) (Myos Hormos/Berenike)

Λούκιος Κλώδιος
τριηραρκως (τριήραρχος) Νικάνορι
Πανής. Απέχω τούς γάμου(ζ)
ούς επιθωιμε σοι

Lucius Clodius / trierarchos to Nicanor,/
Son of Panes. I received the packaages /
entrusted to you.



MARTYRIUM SANCTI ARETHAE (524-525 AD)

- 70 ships assembled in Adulis for a military expedition of 120,000 men under the orders of the negus (king) Kaleb against the kingdom of Himyar
- 70 barcos reunidos en Adulis para una expedición militar de 120.000 hombres bajo las órdenes del negus (rey) Kaleb contra el reino de Himyar
- 20 Clysmæ
- 15 Aila
- 10 Adulis
- 7 Iotabe
- 2 Bérénike
- 9 India
- 7 Farasan islands

