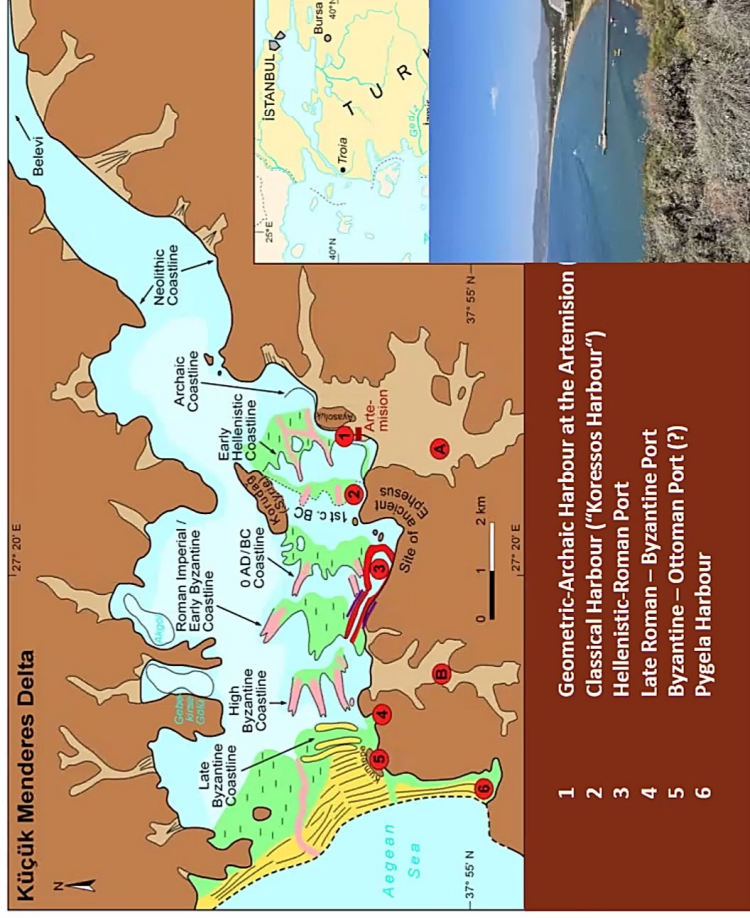
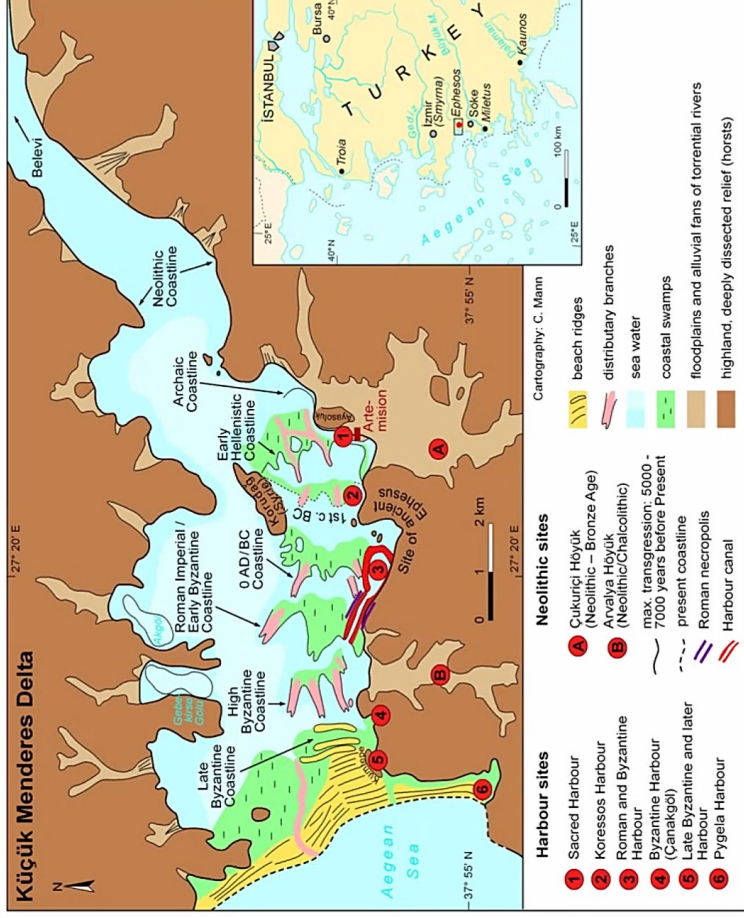


3



34



Spatio-temporal progradation of the Küçük Menderes delta

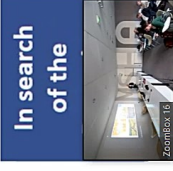
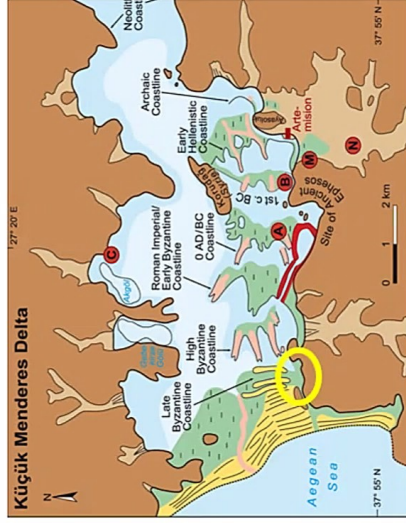


Adaptation strategies

Westward relocation of harbours as a reaction to the continued delta–floodplain growth.

No. 1:
Geometric-Archaic Harbour at the Artemision (“Sacred Harbour”?)

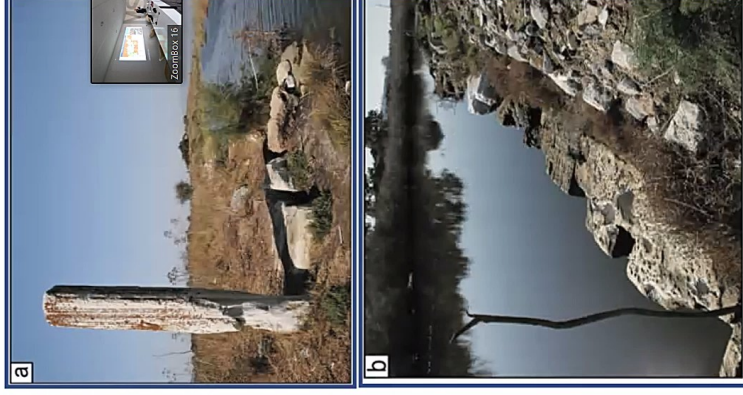
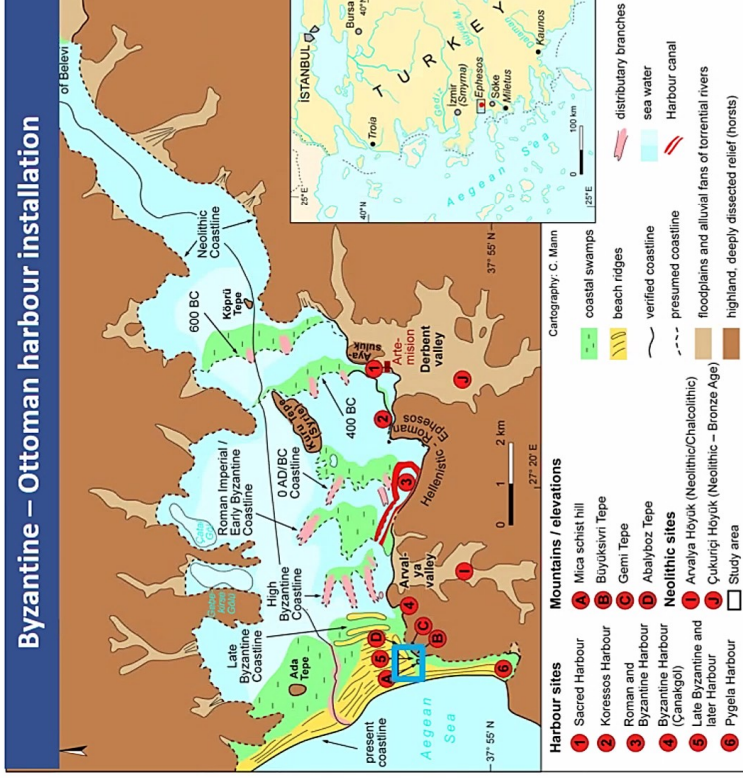
Source:
Brückner, Herda, Kerschner, Müllenhoff, Stock (2017): Life cycle of estuarine islands. *Journal of Archaeological Science: Reports*, Fig. 10.



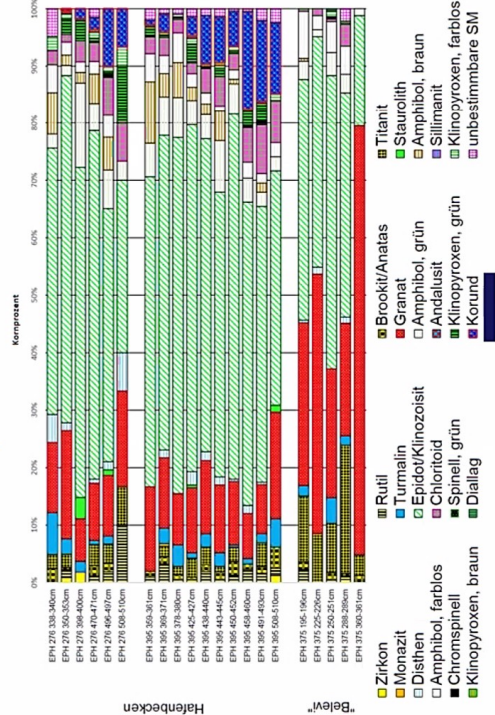
In search of the



Byzantine – Ottoman harbour installation



Heavy minerals from sediment cores



Corundum as emery

New findings of contamination of the harbour of Ephesus with marble abrasives

Pliny the Elder

mentions Corundum as a means for cutting and polishing marble. (Pliny, N.h., 37)

Decree by governor

of province of Asia under Emperor Antoninus Pius (86 – 161 AD): prohibition of dumping marble powder and emery (Corundum) into the harbour.

➤ **Corundum** (Al₂O₃ aluminium oxide) – used as an abrasive for processing marble.

➤ There is a **Corundum quarry** near Ephesos!

➤ Besides the heavy minerals: many **carbonate particles** (“dust”), e.g. from marble.

