

Economic History of the Ancient World illustrated by the example of Roman Amphorae II

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PD Dr. Ulrike Ehmig



UNIVERSITÄT
HEIDELBERG
ZUKUNFT
SEIT 1386

Economic History of the Ancient World illustrated by the example of Roman Amphorae

1. A brief introduction to the economic history of the ancient world
Development of research activities and ancient sources: contributions from the Ancient History and from the Archaeology

Why amphorae as an example of an economic history of the ancient world?
Other containers used for transport and shipping

2. What information do amphorae give?
Residues of content, painted inscriptions, types, fabrics, geochemistry

3. Case study I: transport in the western Mediterranean by the example of Mainz and its surrounding areas

What happens to the empty amphorae? Reuse and waste disposal by the example of Dangstetten, the first Roman military camp north of the Alps

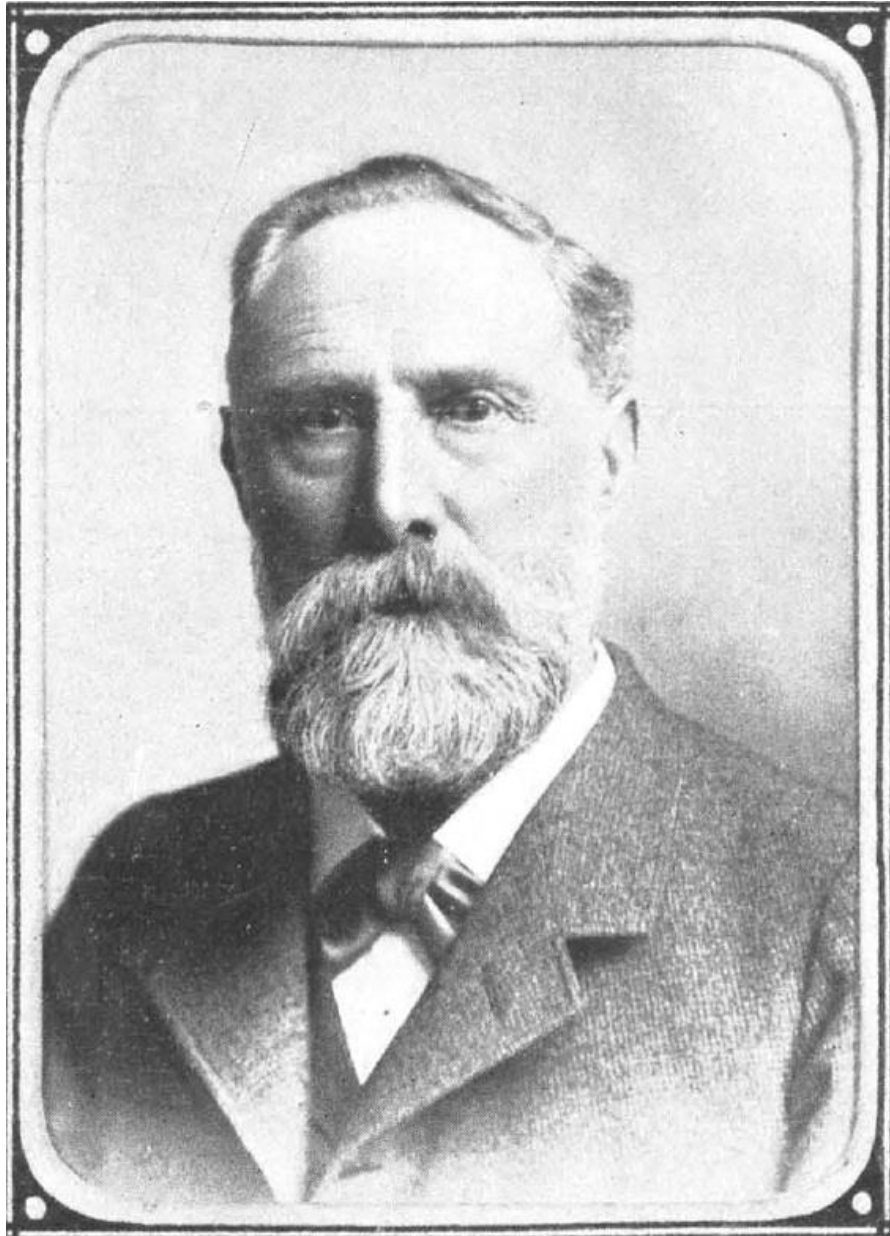
4. Case study II: transport in the Eastern Alps region by the example of the southern and inner alpine regions of the later province of Noricum

Considerations concerning ancient global economy and economic regions

5. Painted inscriptions from an excavation in Roman Cologne: the largest ensemble north of the Alps

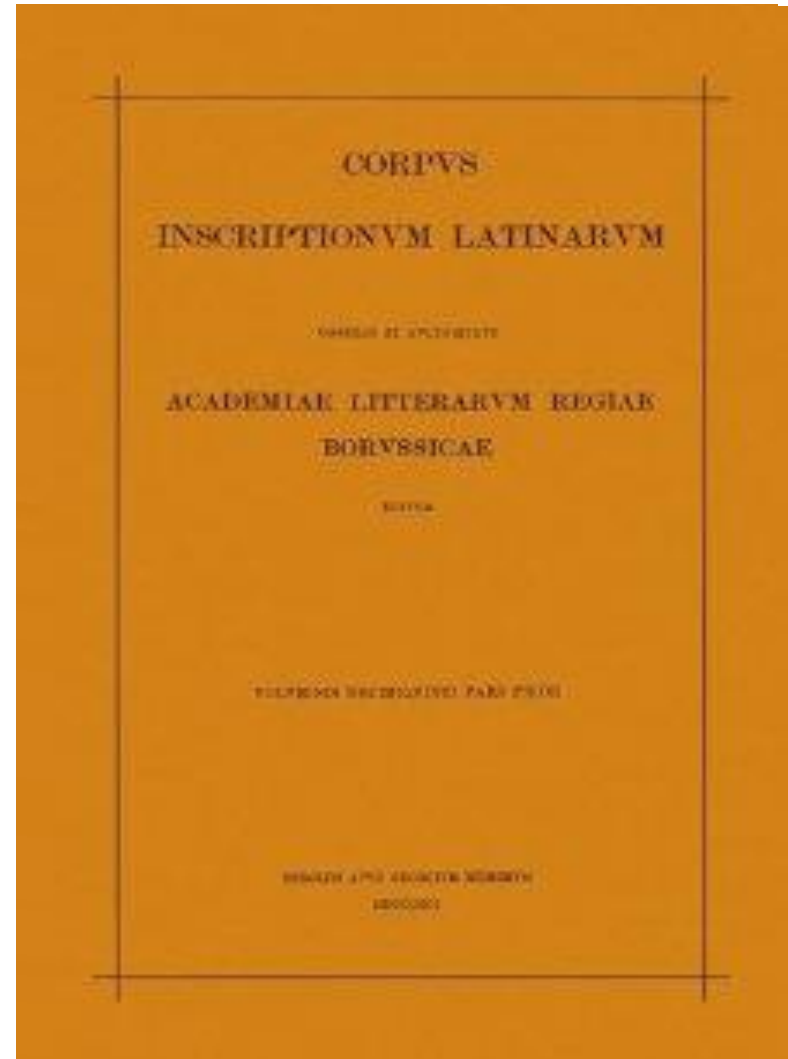
Considerations concerning the function of the painted inscriptions on Roman amphorae.

Heinrich Dressel: initiator of the research on Roman amphorae

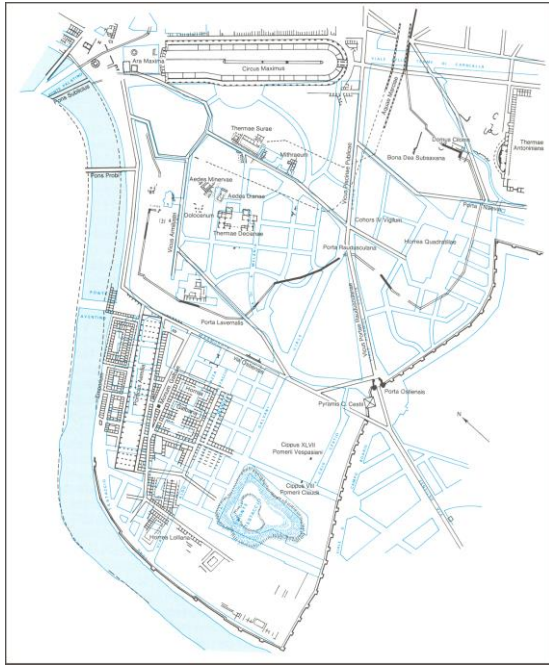


BERLIN-BRANDENBURGISCHE AKADEMIE DER WISSENSCHAFTEN

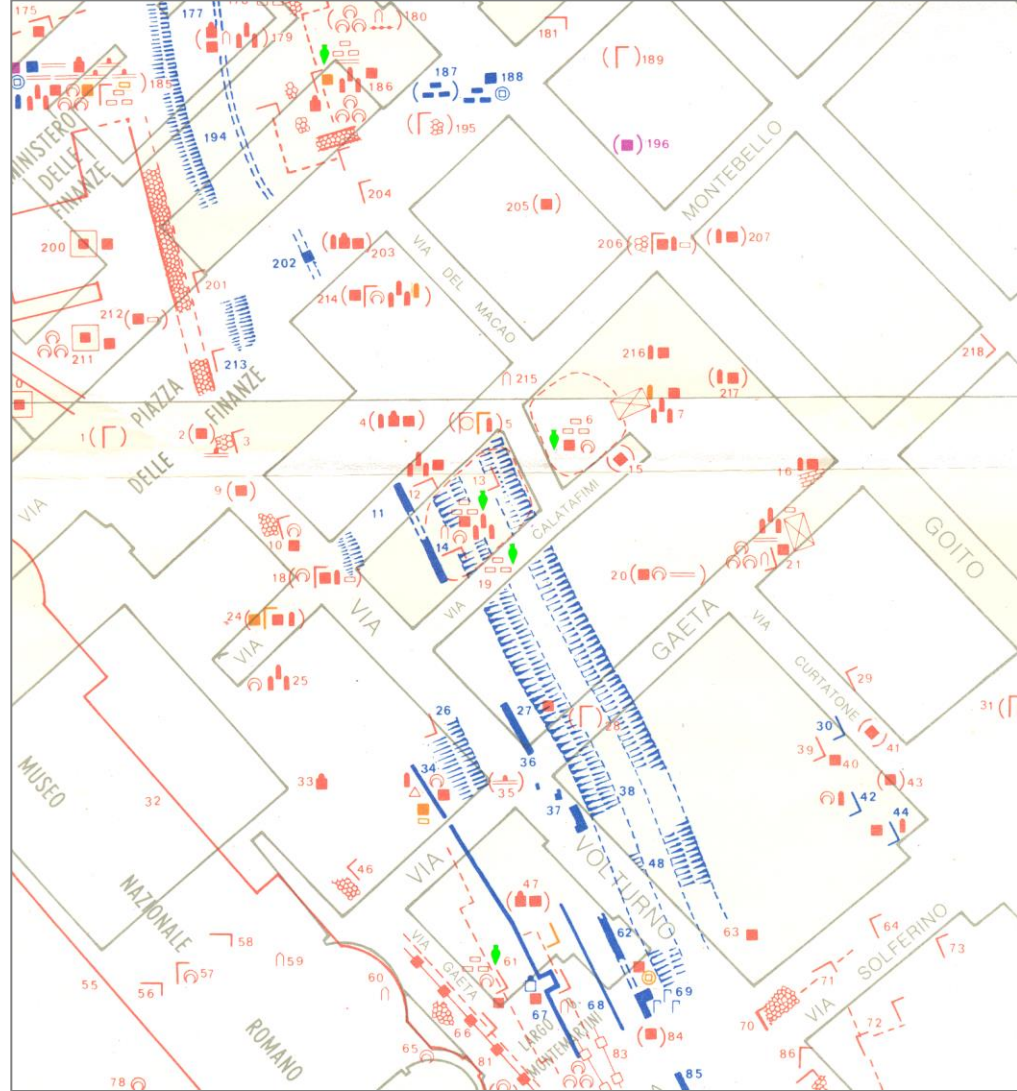
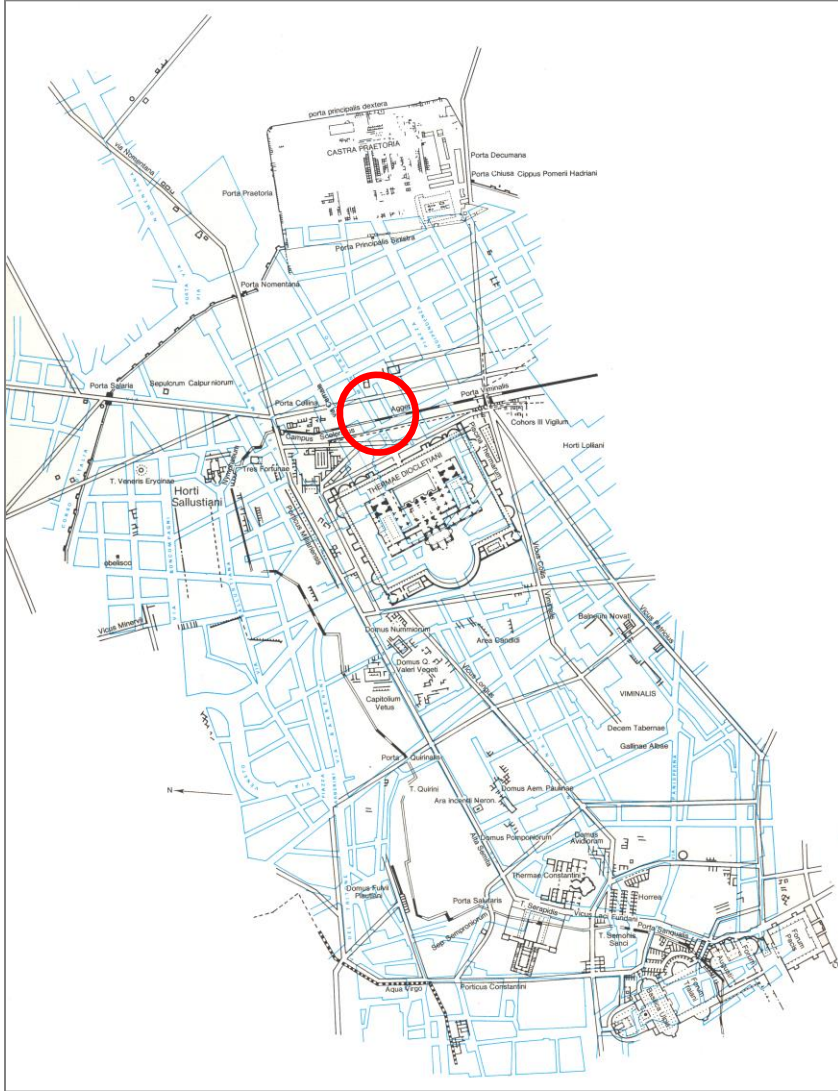
CORPUS INSCRIPTIONUM LATINARUM



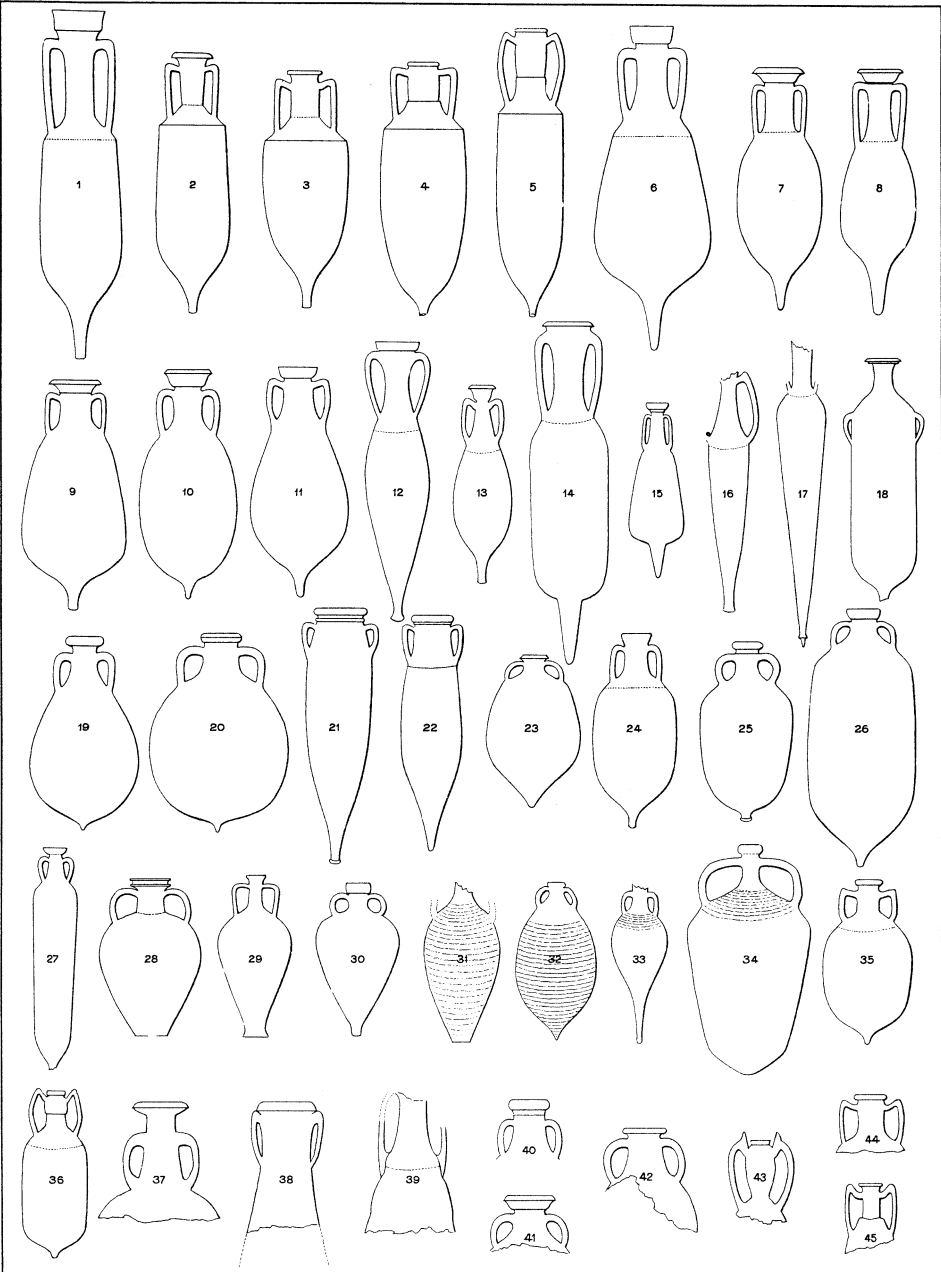
Rome, Monte Testaccio



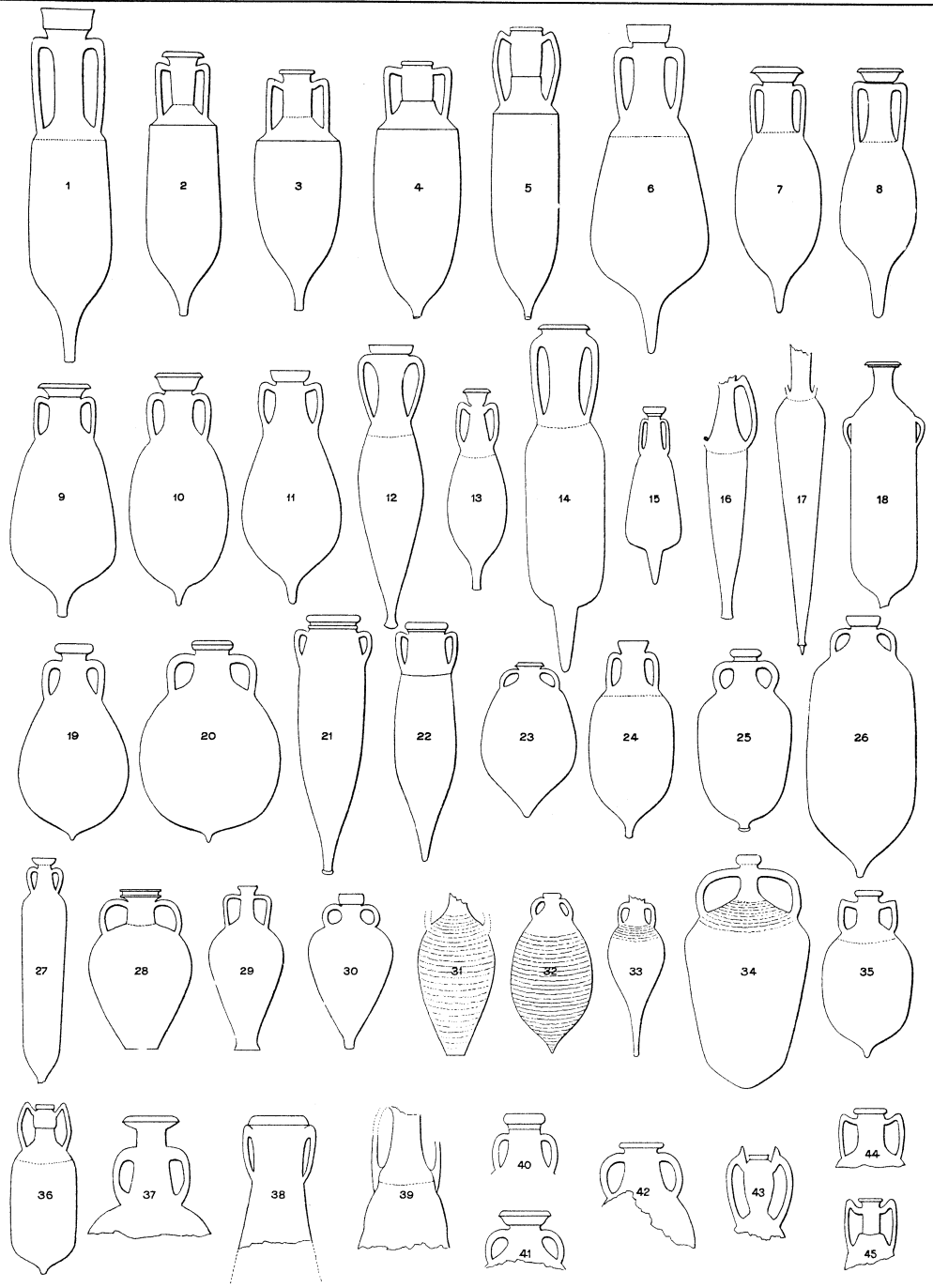
Rome, near Castra Praetoria



Primary Interest: epigraphy and forms



CIL XV

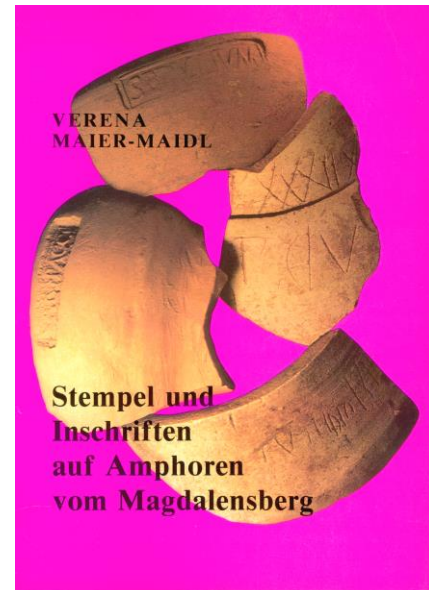
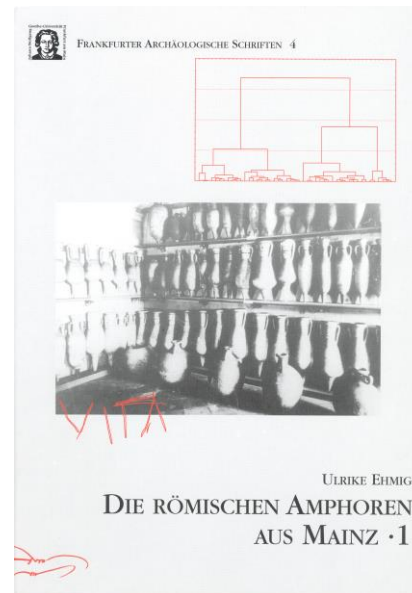
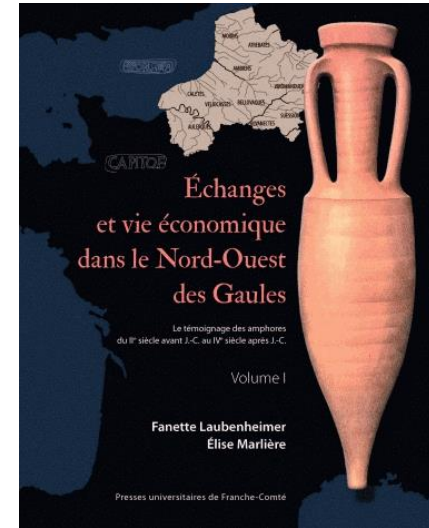
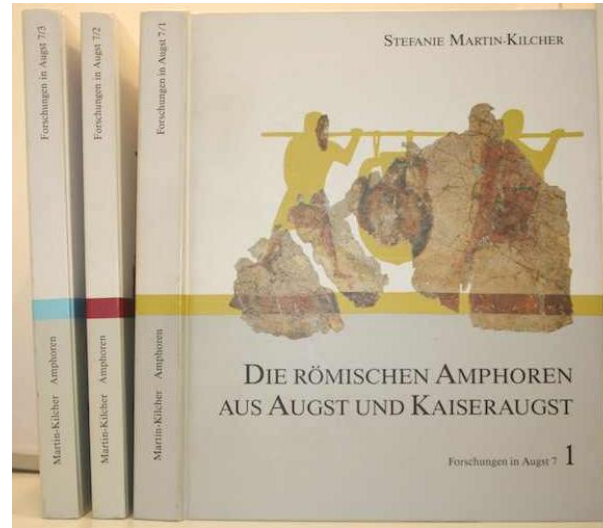
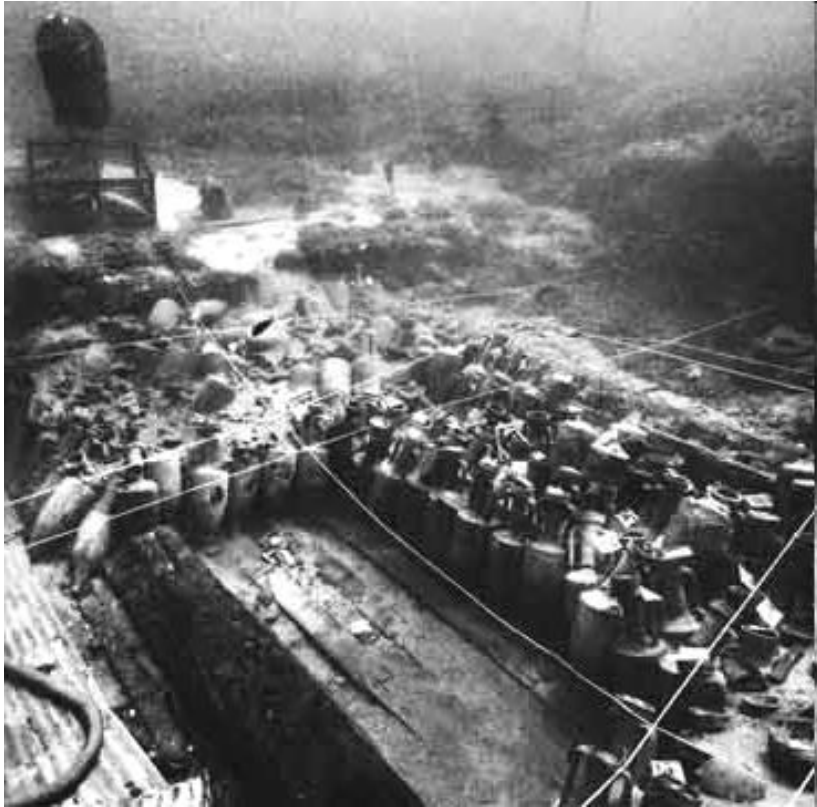


1–6 amphorae for wine,
mainly from Italy

7–11 amphorae for fish sauces
mainly from Spain

20/23 amphorae for olive oil
from the Guadalquivir valley

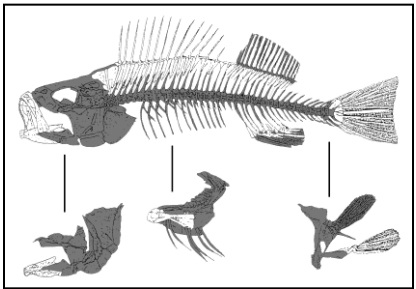
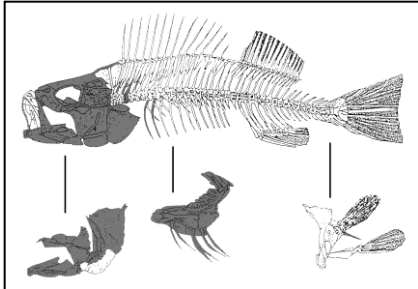
New research based on shipwrecks and studies in the provinces



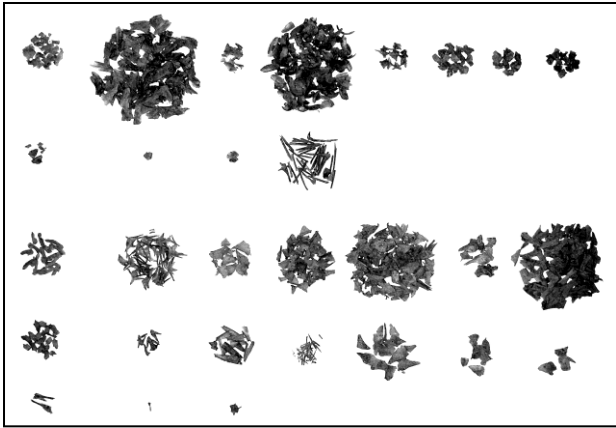
How do we know the contents of the amphorae? - Content residues



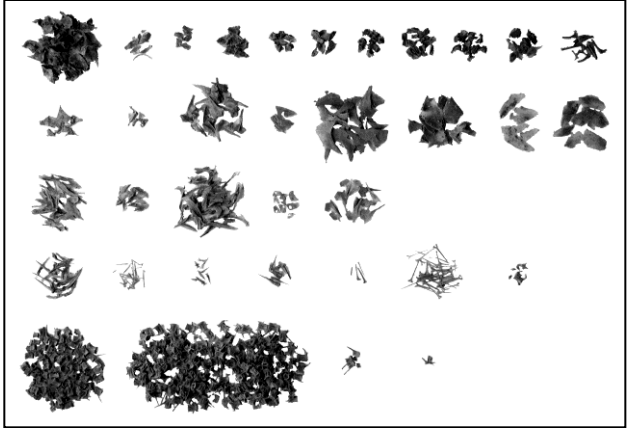
Saint-Romain-en-Gal



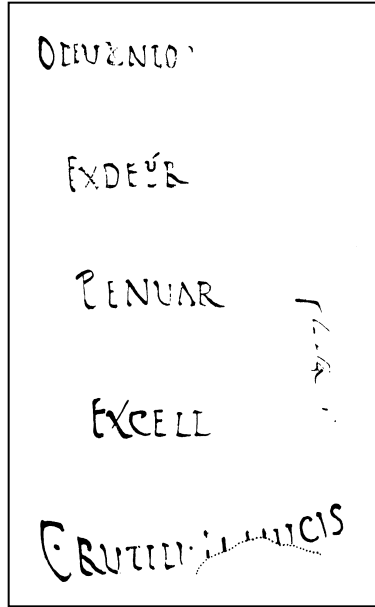
Mainz



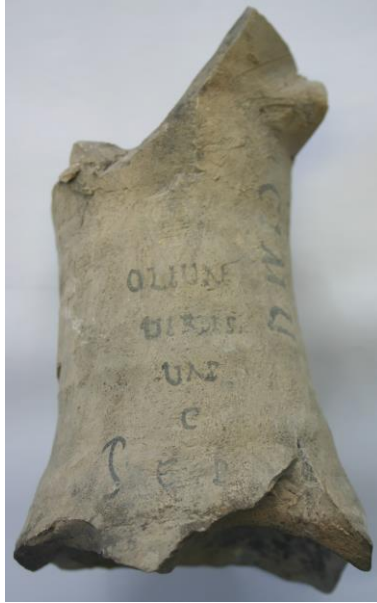
Mainz



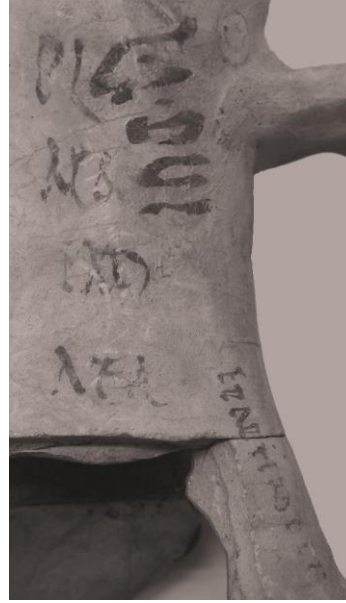
How do we know the contents of the amphorae? – Painted inscriptions (1)



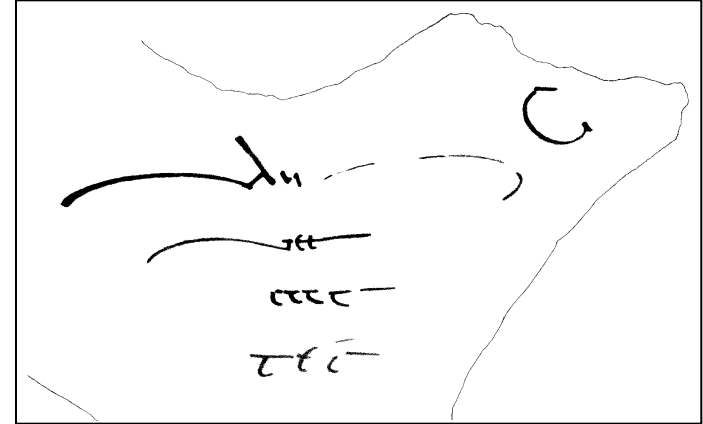
Mainz



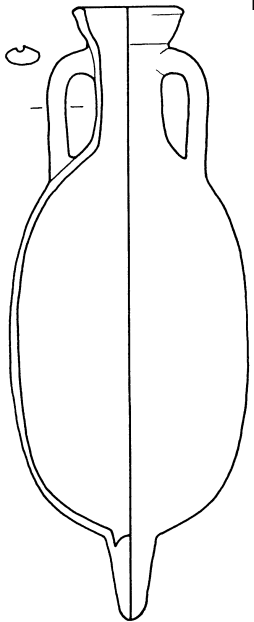
Köln



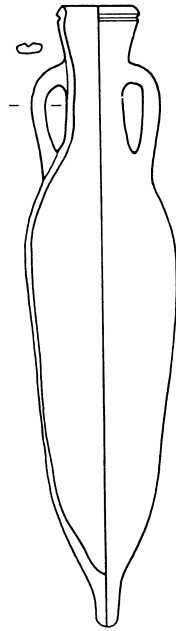
Köln



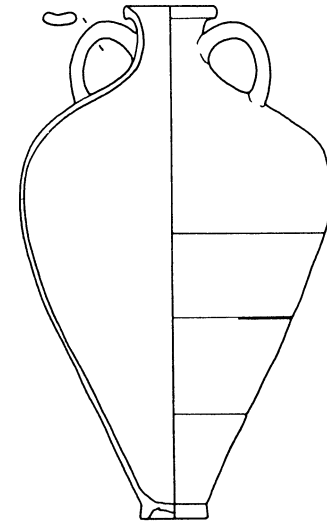
Mainz



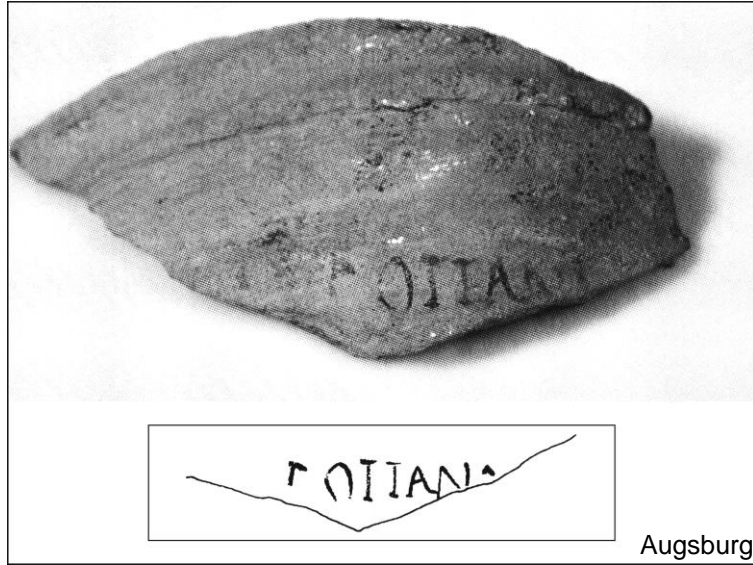
black and
green
olives



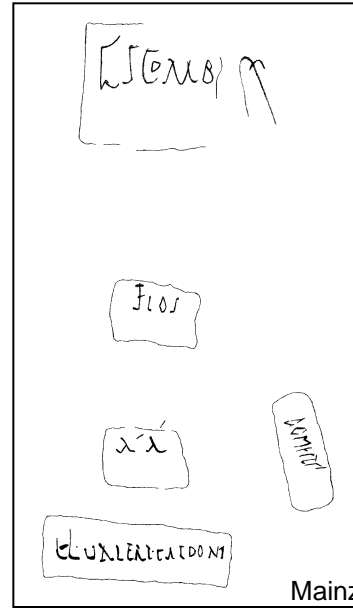
wine (amineum)



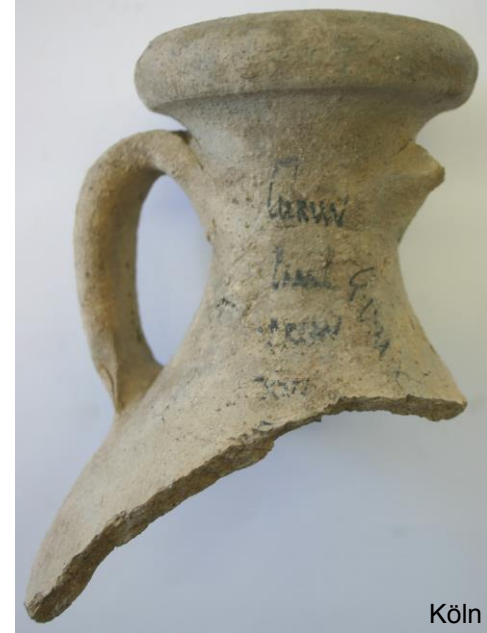
How do we know the contents of the amphorae? – Painted inscriptions (2)



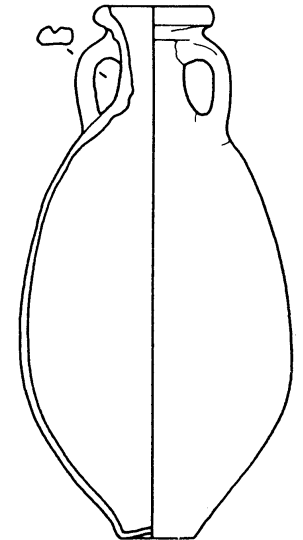
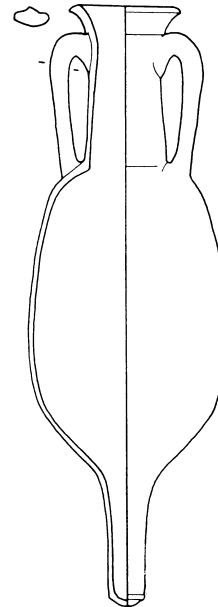
cottana: small figs from Syria



garum of mackerel



garum from Pompeji



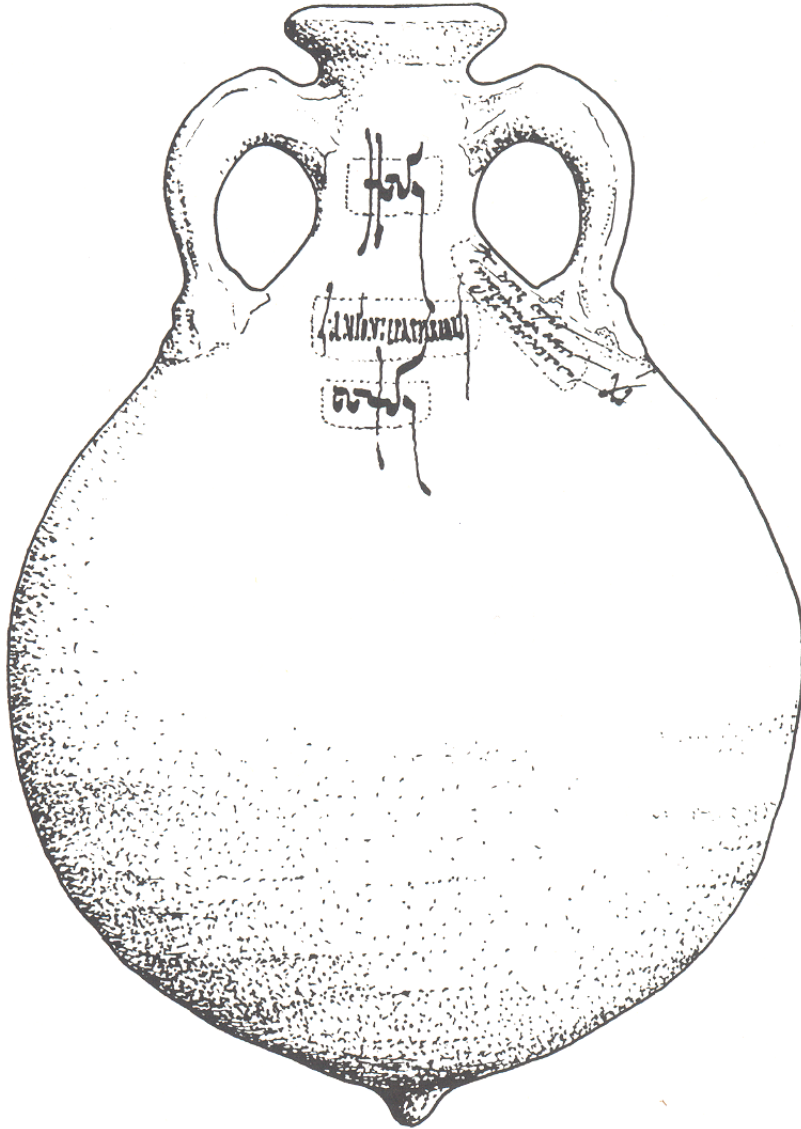
Mart. XIII 28 : Vas Cottanorum

Haec tibi quae torta venerunt condita meta,
si maiora forent cottana, ficus erat.

These Syrian plums, which come to you enclosed in a wattled conical jar,
had they been any larger, might have passed for figs.



How do we know the contents of the amphorae? – Painted inscriptions (3)

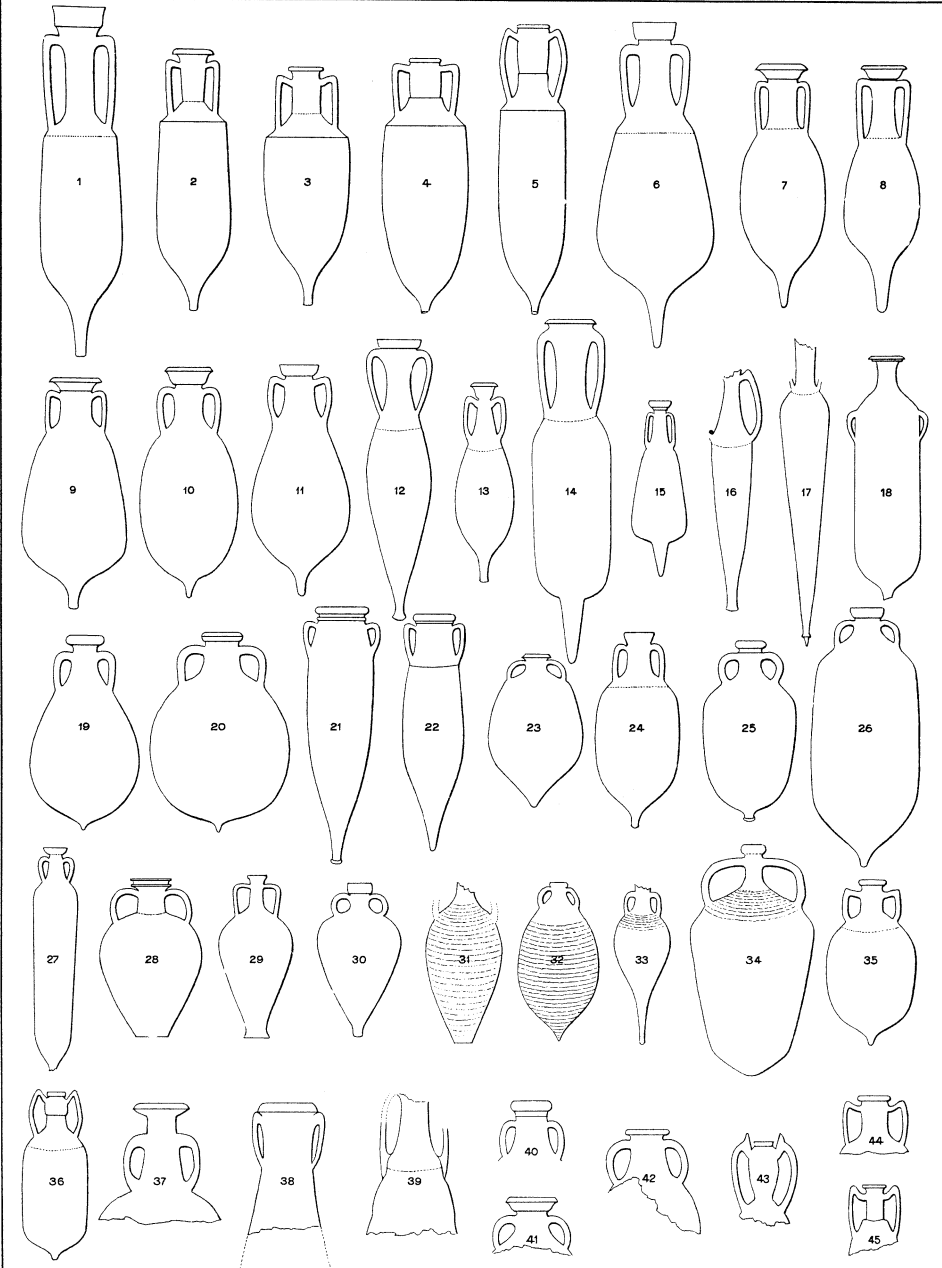


- net and gross
- name of the person responsible for the transport
- location of bottling / date

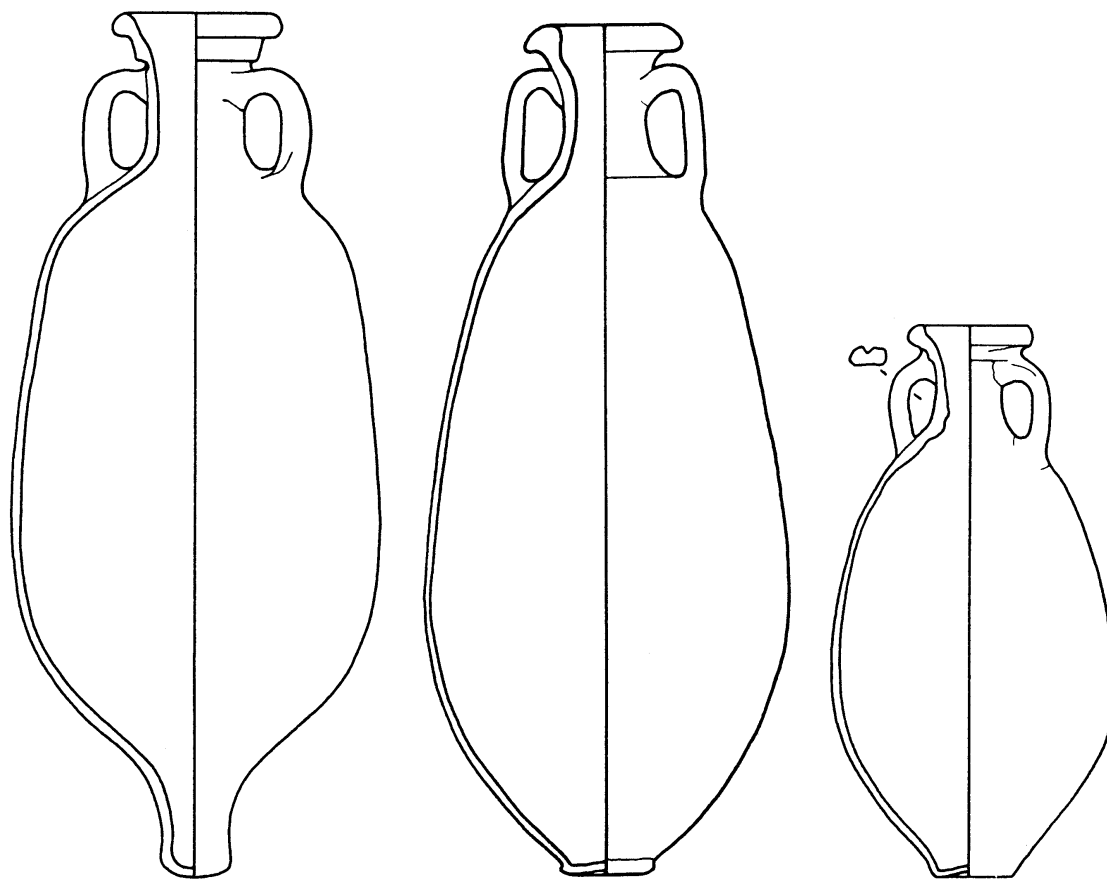


... at no place it is written what is inside

form = content



Lyon: production of amphorae for various products from different sites

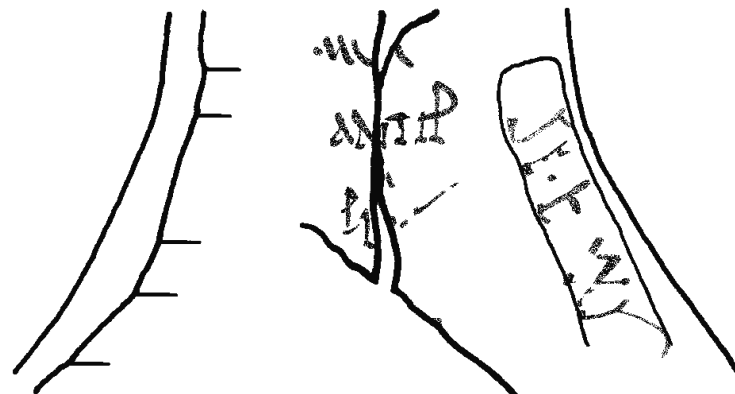


main forms of amphorae produced in Lyon

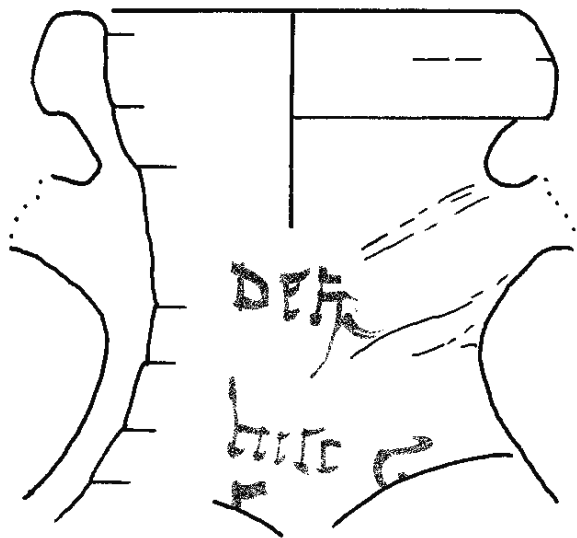
Lyon: production of amphorae for various products from different sites



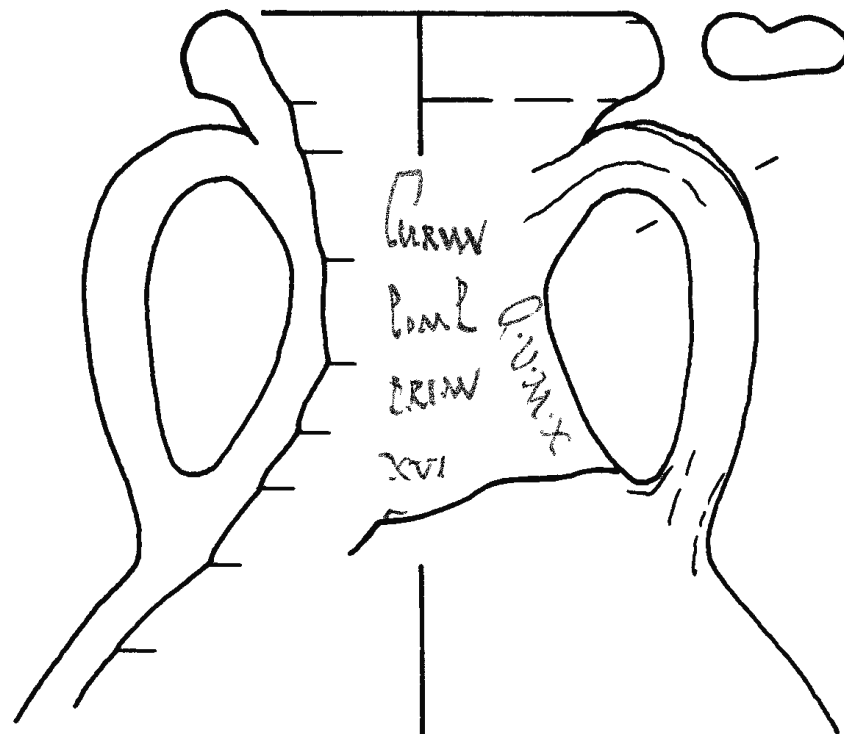
garum hisp(anum)



mur(ia) antip(olitana)



defr(utum) hisp(anum)



garum pomp(eianum)

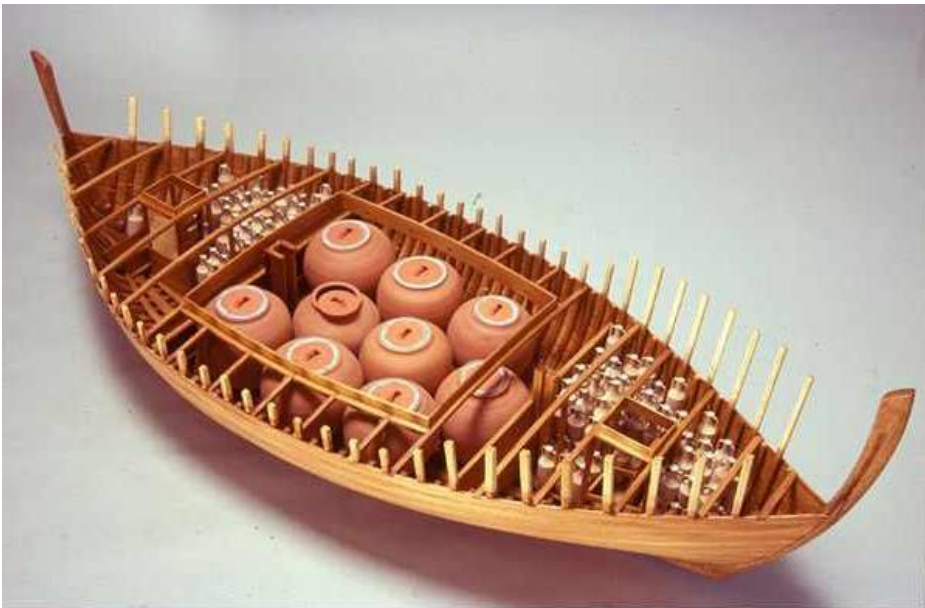
Lyon: production of amphorae for various products from different sites



Giraglia



Giraglia

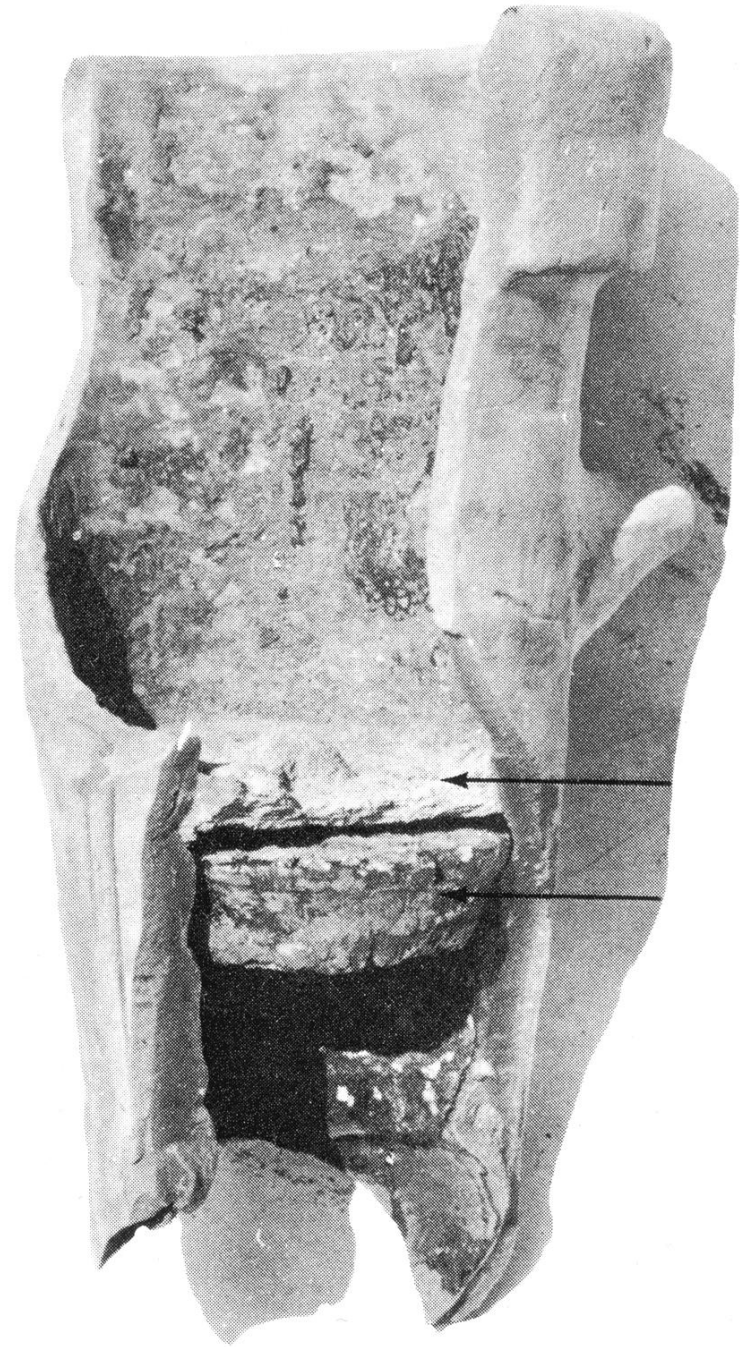
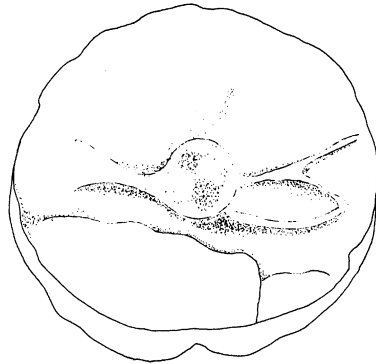


reconstruction Grand Ribaud D

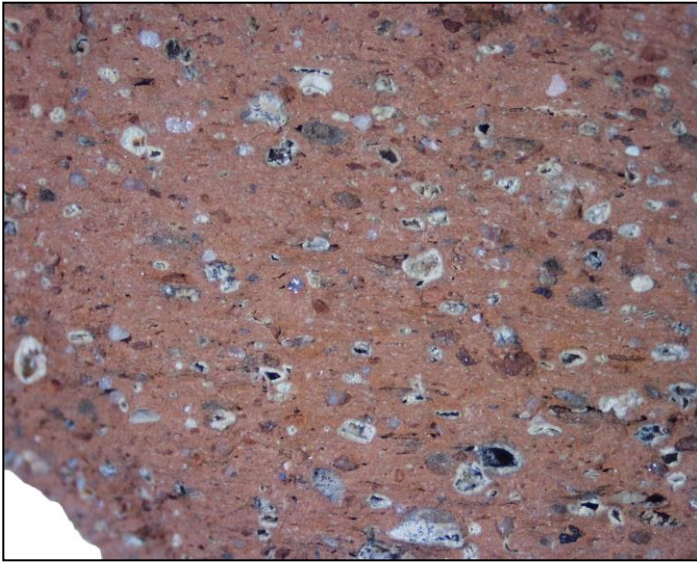


Mainz

Amphora stoppers



Looking at the fabrics



region of Vesuvius



Tarraconensis

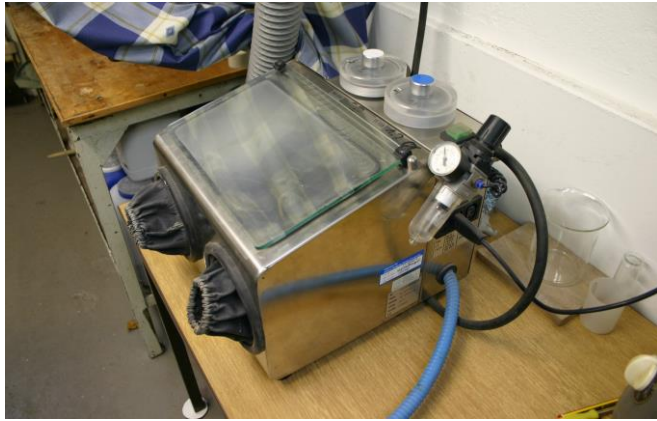


Lyon

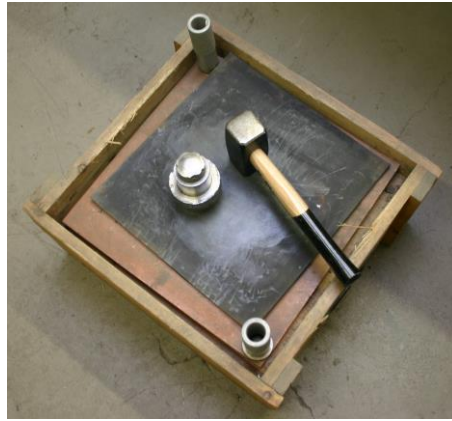


Adriatic region

Geochemical analyses



sandblasting



smashing



grinding



X-ray fluorescence



microprobe



mass spectrometry

Statistical differentiation of analysed amphorae distinction of production sites

