

UNIVERSITÉ PARIS I  
(PANTHÉON - SORBONNE)

LES AMPHORES BYZANTINES (Xe-XIIIe siècles) :  
TYPOLOGIE, PRODUCTION, CIRCULATION  
D'APRÈS LES COLLECTIONS TURQUES

THÈSE DE DOCTORAT  
DE L'UNIVERSITÉ DE PARIS I

(arrêté du 5/7/1984)

présentée par  
NERGİS GÜNSENİN  
SOUS LA DIRECTION DE M. J.-P. SODINI

VOL. II  
FIGURES et PLANCHES

PARIS 1990

## ERRATA

### Volume I

p. 22, l. 19 : pl. XXIII/2a-b

p. 33, l. 3; p. 40, l. 20 : "récente" devrait être remplacé par "ancien".

p. 45, l. 5 : p. 250

p. 66, n. 116 : Cf. n. 10

p. 112, l. 4; p. 164, l. 6; p. 216, l. 4; p. 251, l. 14 : compté

p. 165, l. 2 : pl. XVI/1a,b

p. 251, l. 10 : cf. n. 74

p. 283 n. 160 : cf. n. 76, p. 50

### Volume II

Fig. 1 : Rajouter sur la carte les noms d'izmit et d'iznik.

pl. XI/2 : (l'ensemble de : pl. X/3a et pl. XI/1a)

pl. LVIII/2a-b : (l'ensemble de : pl. LVIII/1a et pl. LVII/1a)

pl. LXXII : VAN DOORNINCK 1988

pl. XCI/1 : à gauche

pl. XCI/3 : à gauche, de gauche, je remercie A. PRALONG pour m'avoir donné cette photo.

## **FIGURES**

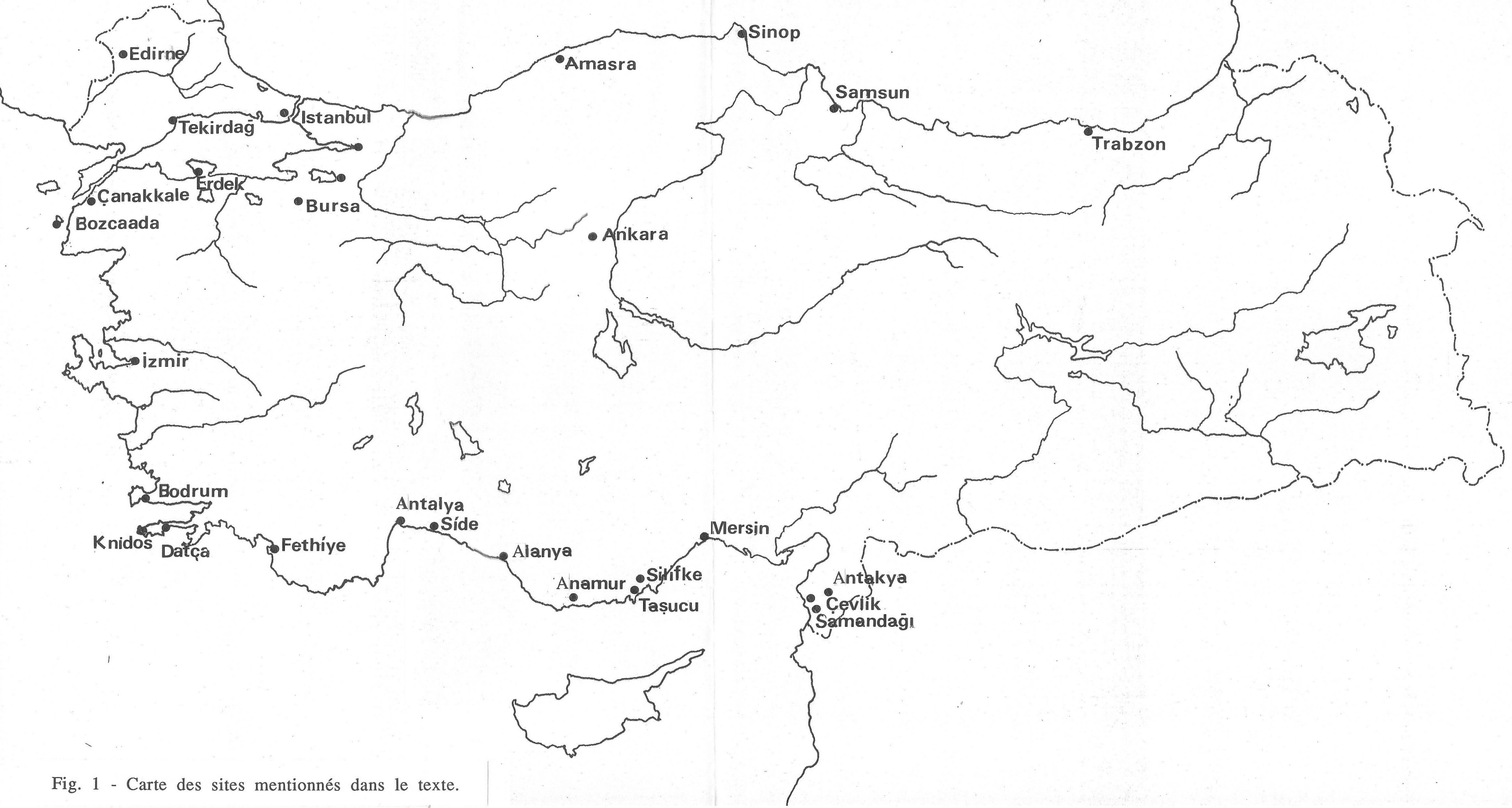


Fig. 1 - Carte des sites mentionnés dans le texte.



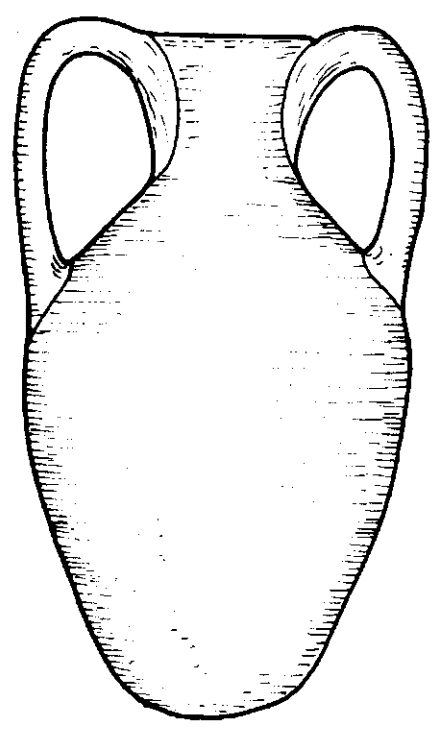
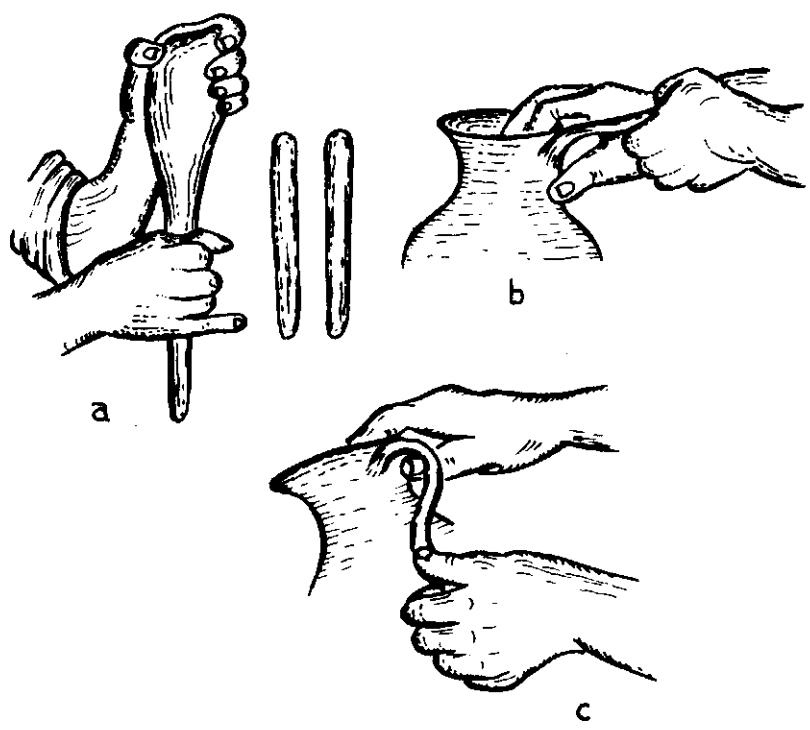
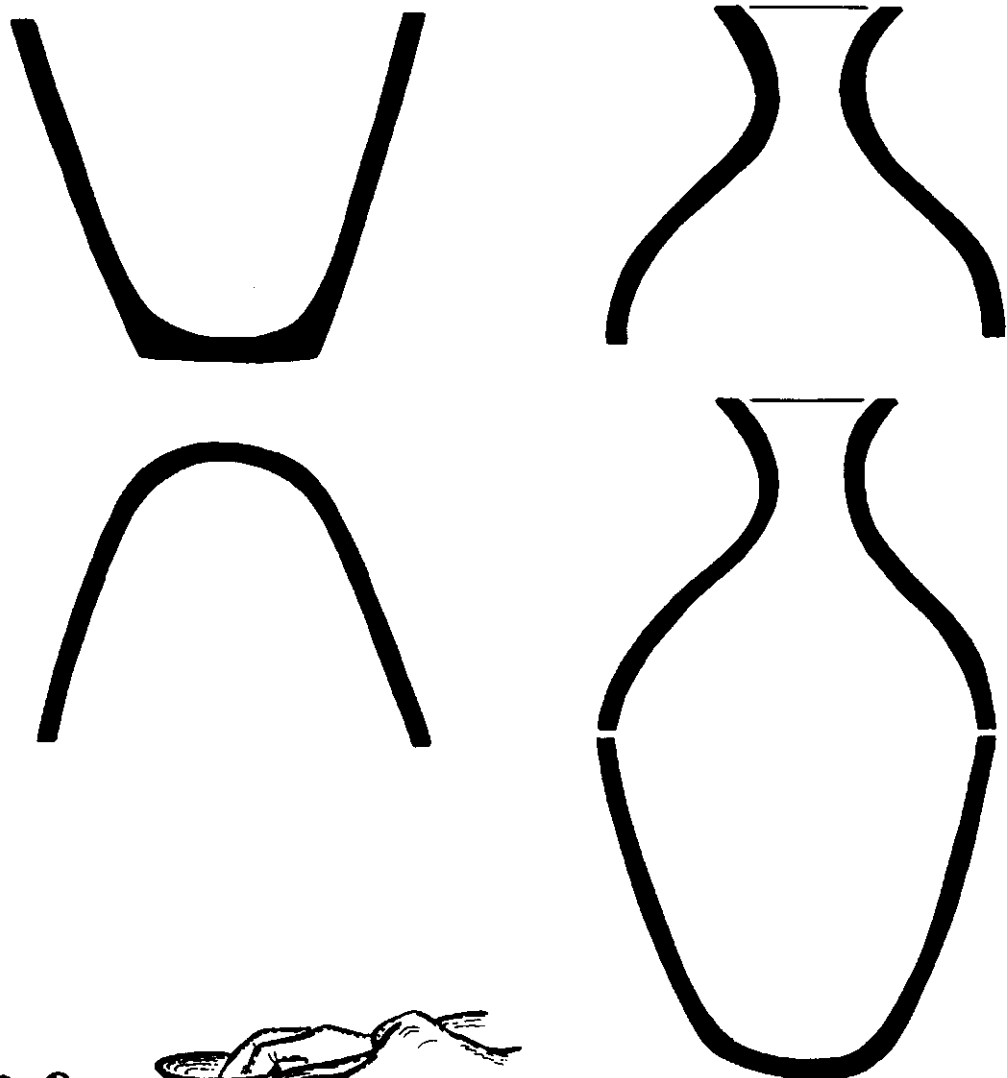


Fig. 2 - Schéma proposé pour la fabrication d'une amphore.

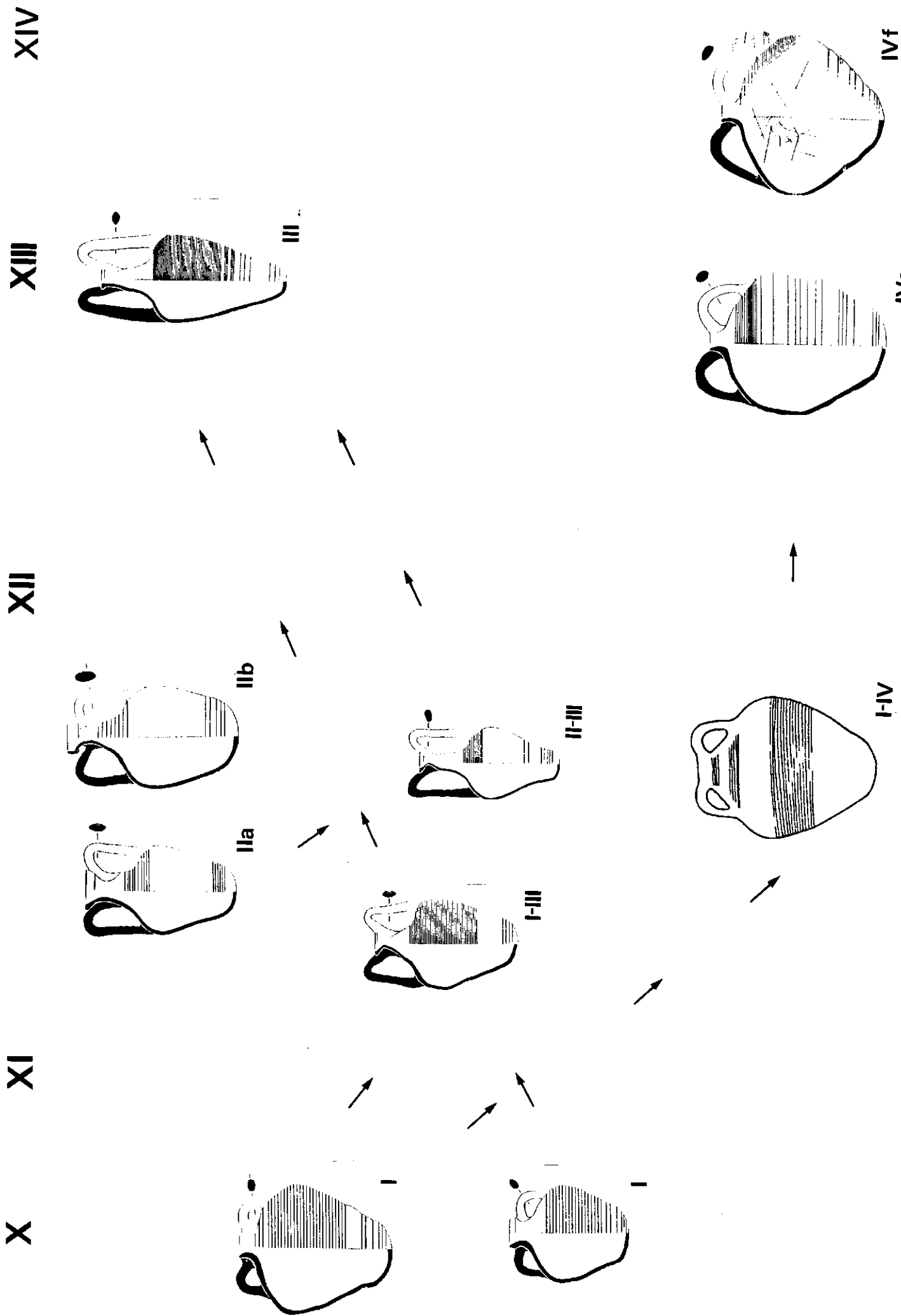


Fig. 3 - L'évolution des types d'amphores principaux.

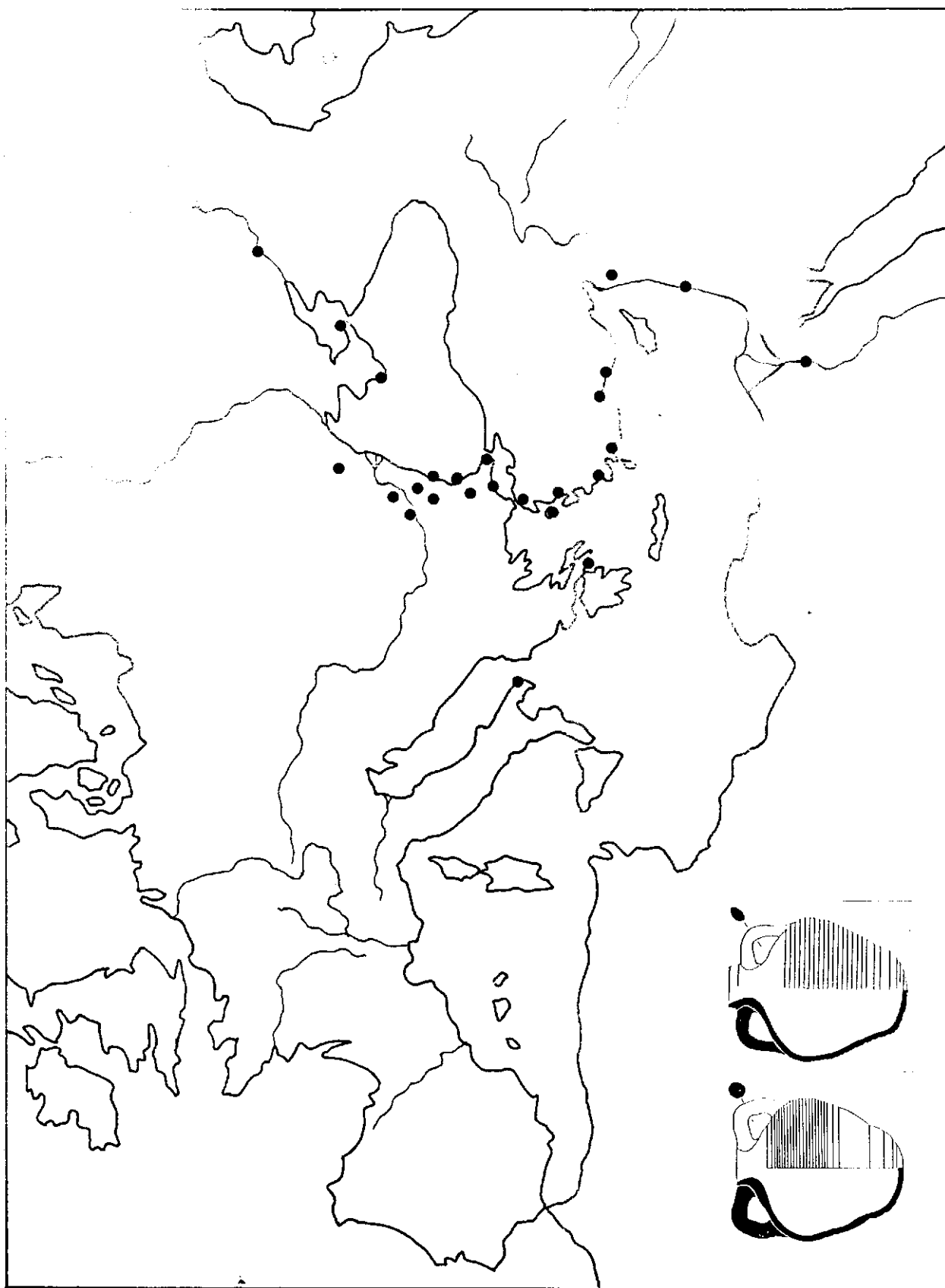


Fig. 4 - Carte de distribution du type I.

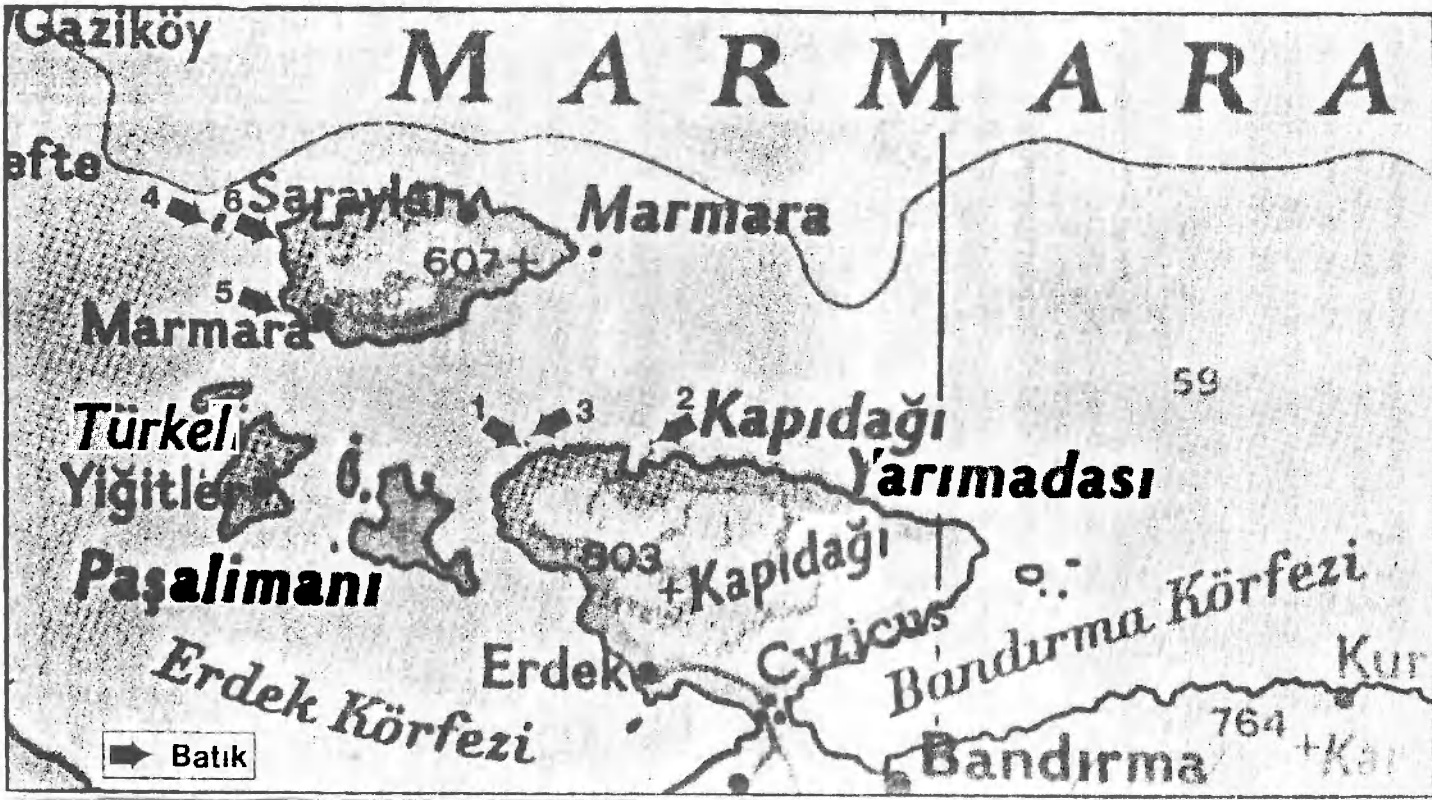


Fig. 5 - Épaves repérés en mer de Marmara. Les gisements 4 (Hayırsız Ada et 6 (Tekmezar Burnu) sont byzantins.



Fig. 6 - Hayırsız Ada, les amphores de type I.

C. PULAK, "1984 Marmara Sualtı Araştırmaları", III. Araştırma Sonuçları Toplantısı (1985), p. 58.

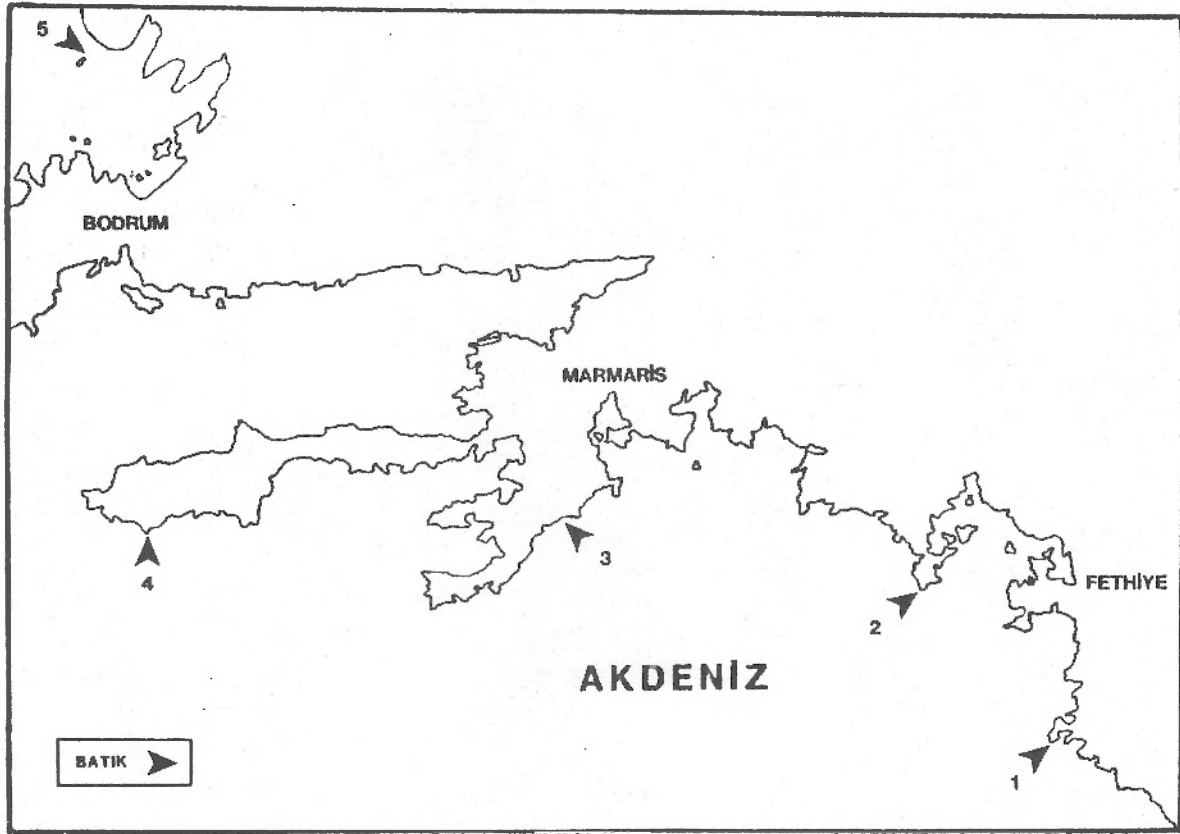


Fig. 7 - Épaves repérés entre Fethiye et Bodrum. Les gisements 1 (Kötü Burun) et 4 (Divan Burnu) sont byzantins.



Fig. 8 - Kötü Burun, amphore de type I. Kötü Burun, amphore dessinée au fond de la mer.

C. PULAK, "1984 Marmara Sualtı Araştırmaları", *III. Araştırma Sonuçları Toplantısı* (1985), p. 43

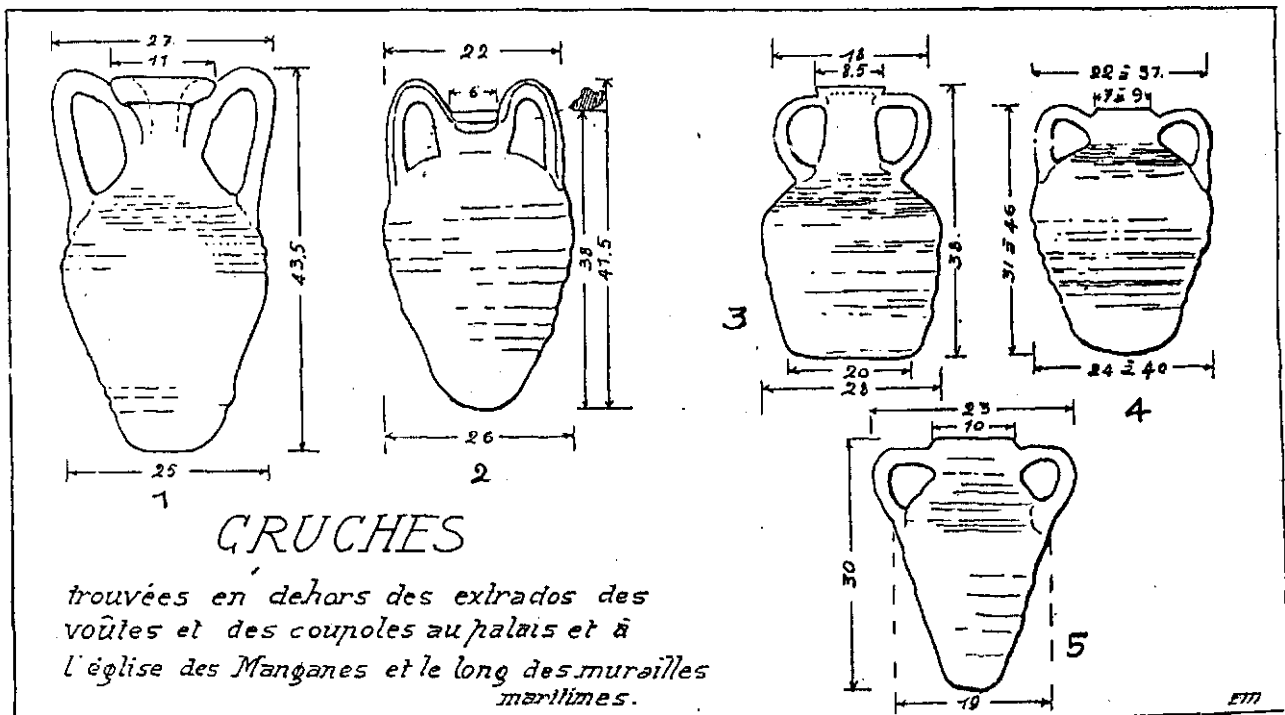
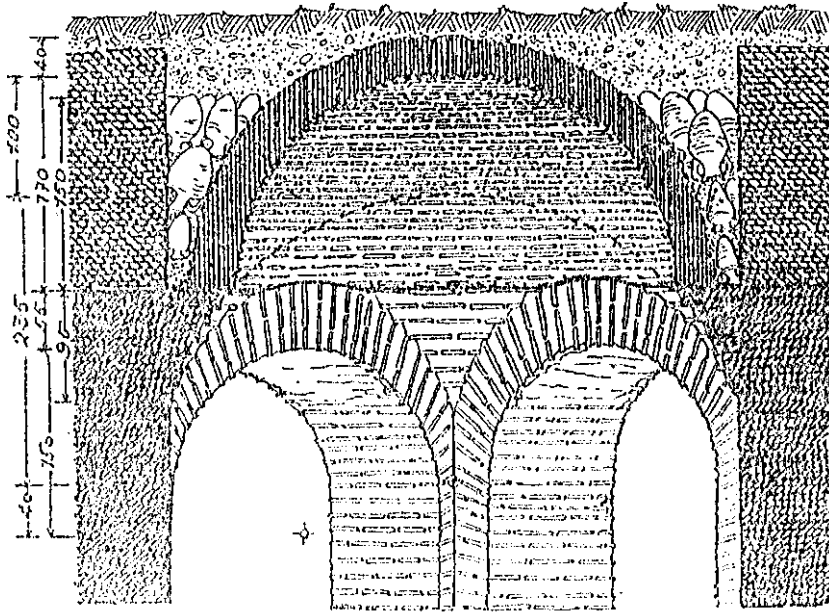


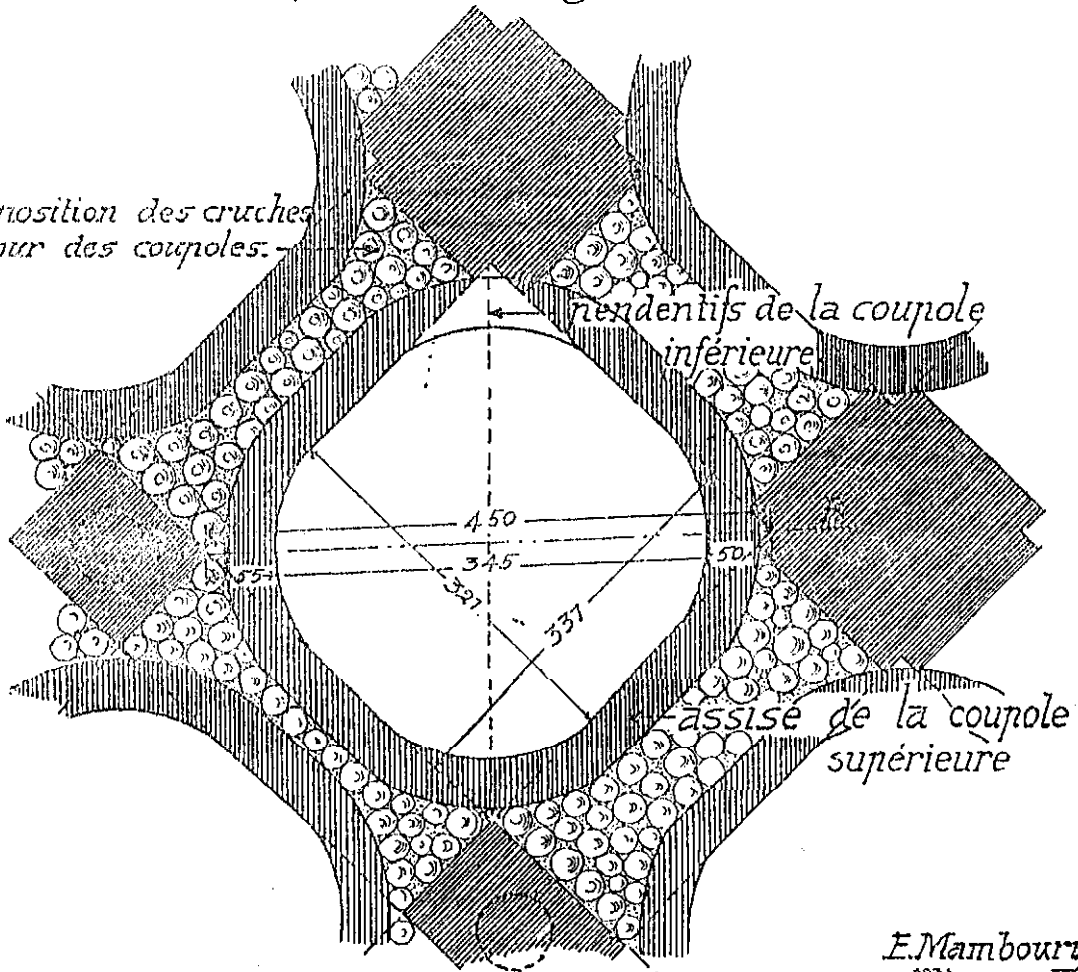
Fig. 198. — Les cinq types de jarres.

Fig. 9 - DEMANGEL-MAMBOURY 1939.



*Coup. se on la diagonale AB*

*Disposition des cruches  
autour des coupoles.*



*E. Mamboury*  
1934

Fig. 10. --- Citerne du Palais. Détail d'une coupole de la série médiane.

Fig. 10 - DEMANGEL-MAMBOURY 1939.

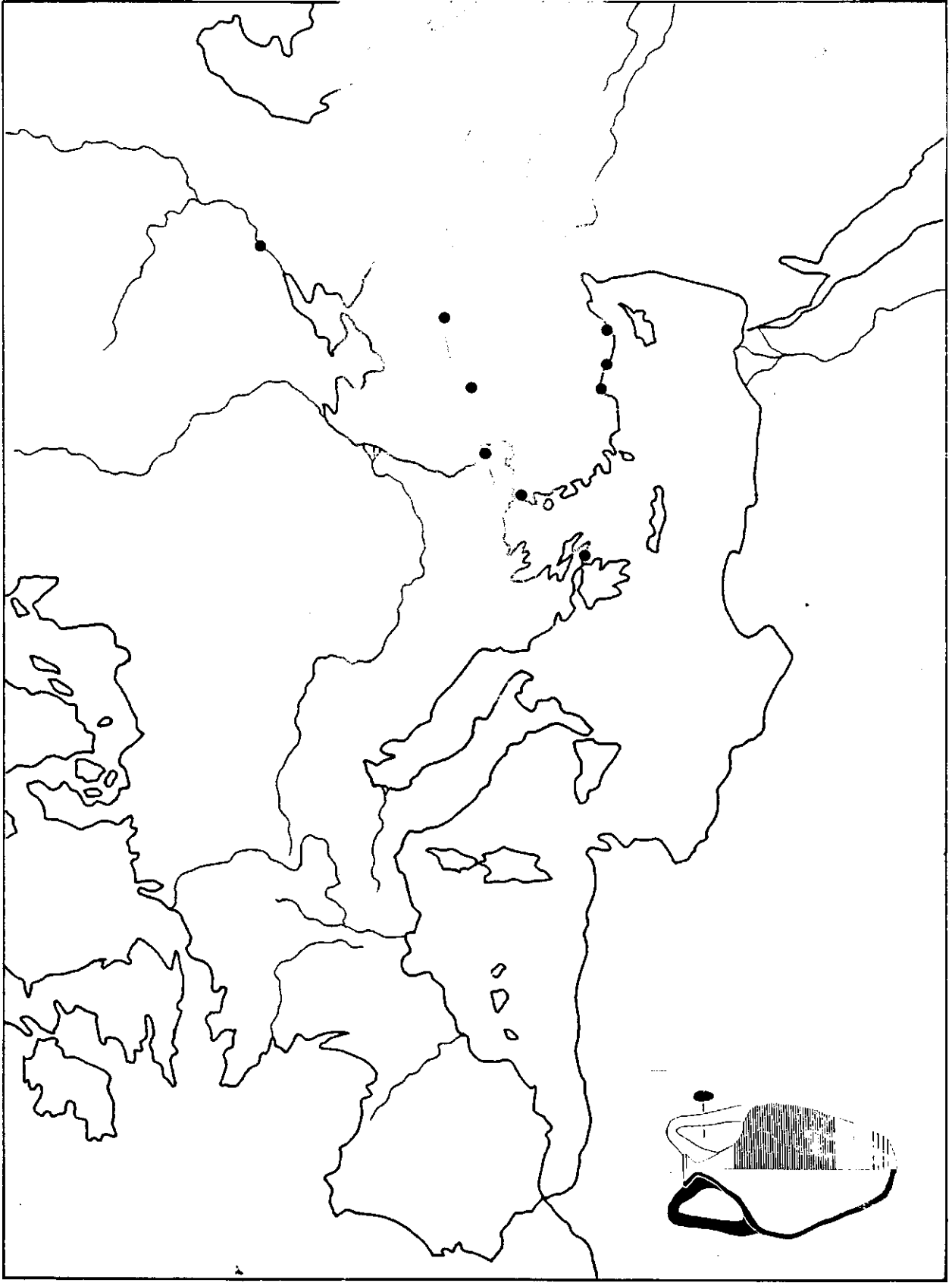


Fig. 11 - Carte de distribution du type I-III.



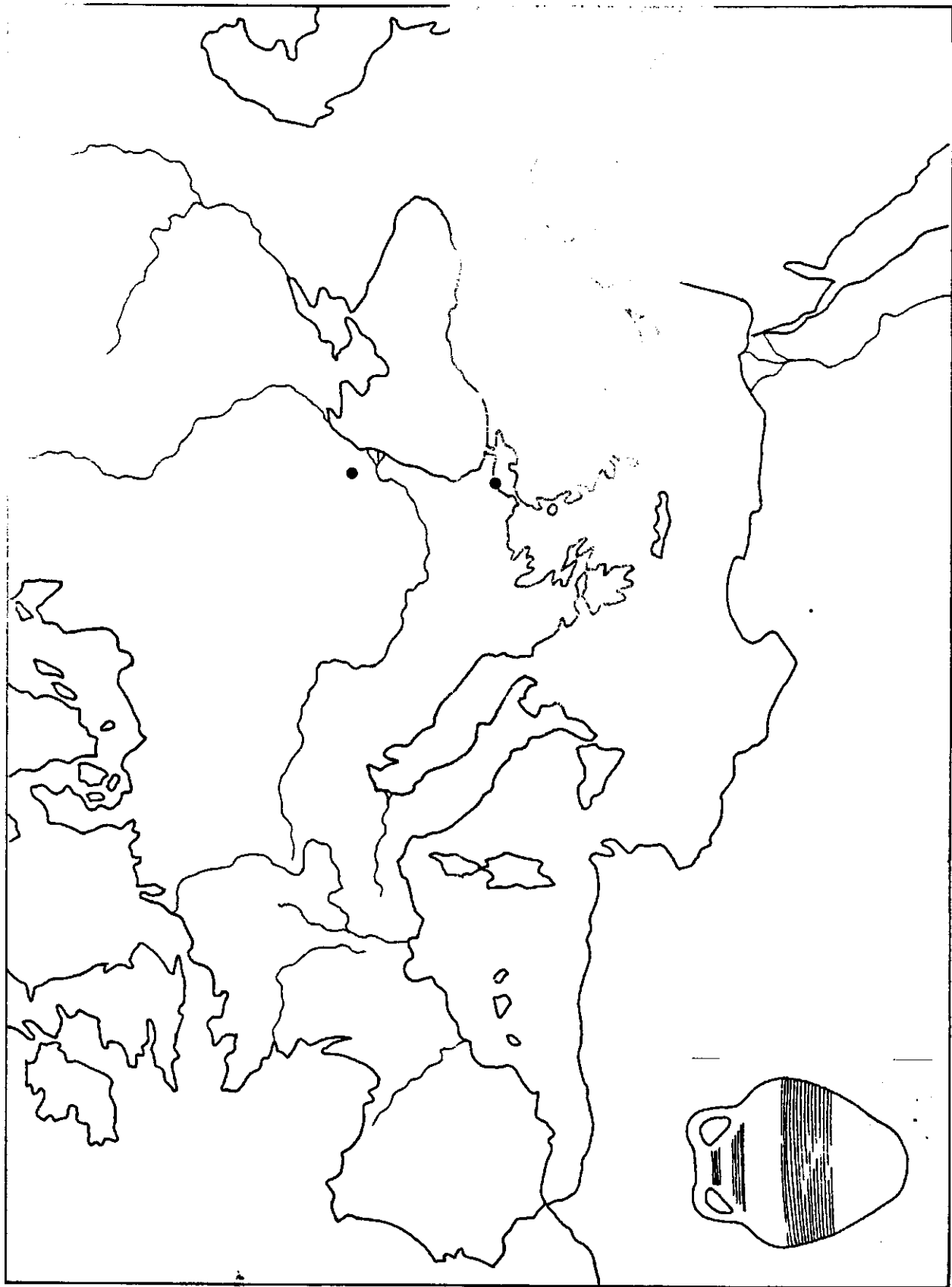


Fig. 12 - Carte de distribution du type I-IV.

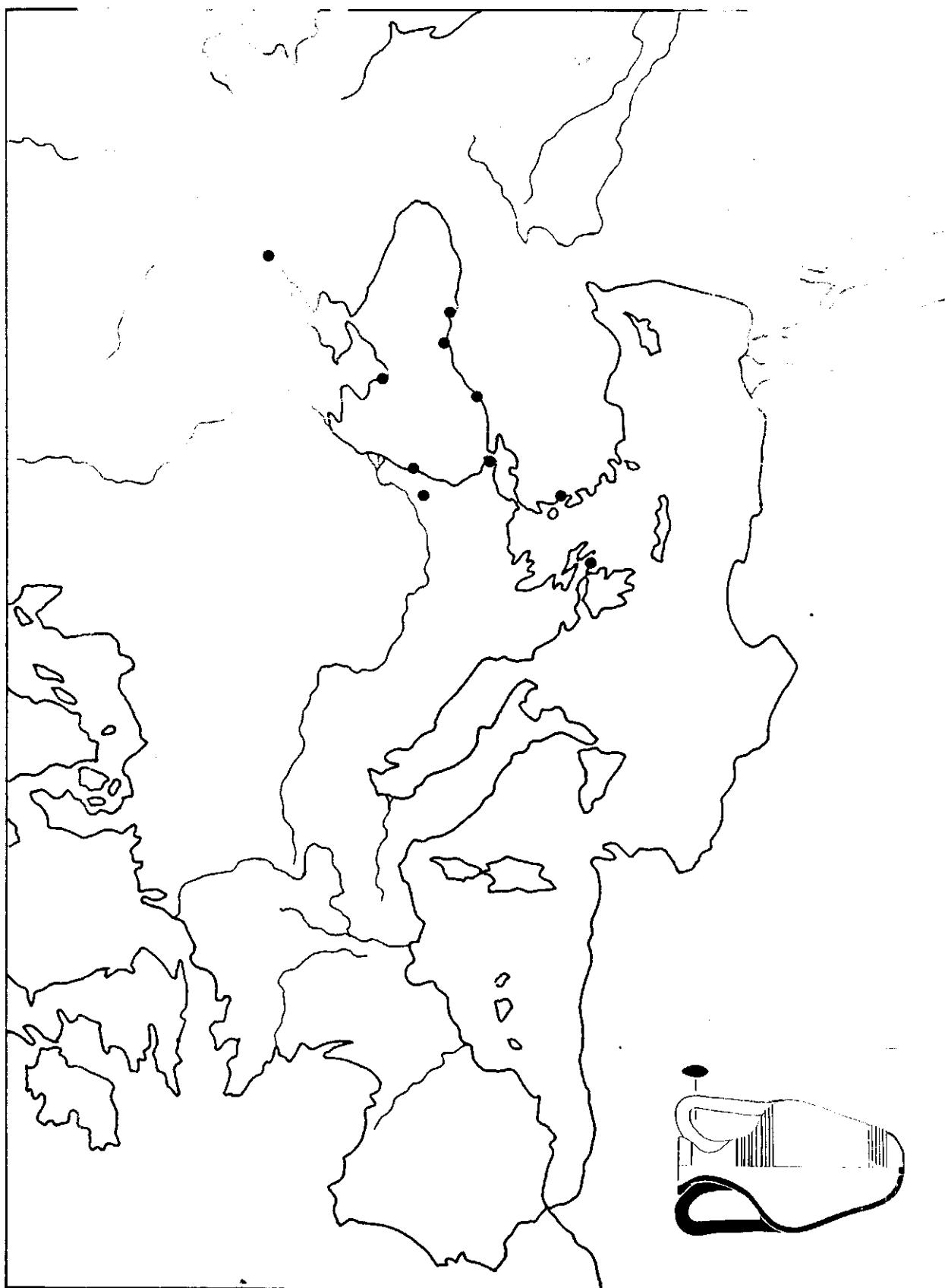


Fig. 13 - Carte de distribution du type IIa.

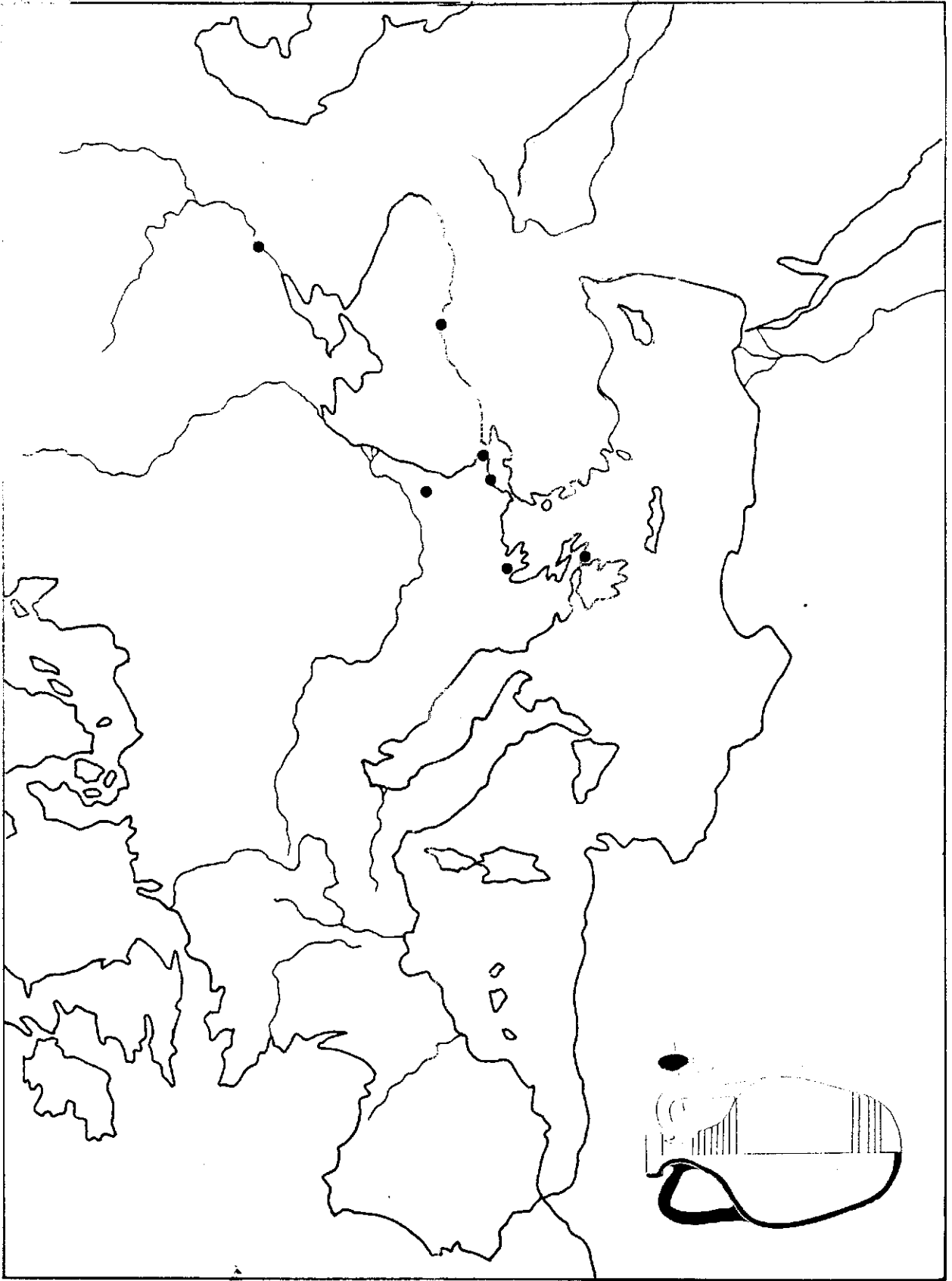


Fig. 14 - Carte de distribution du type IIb.

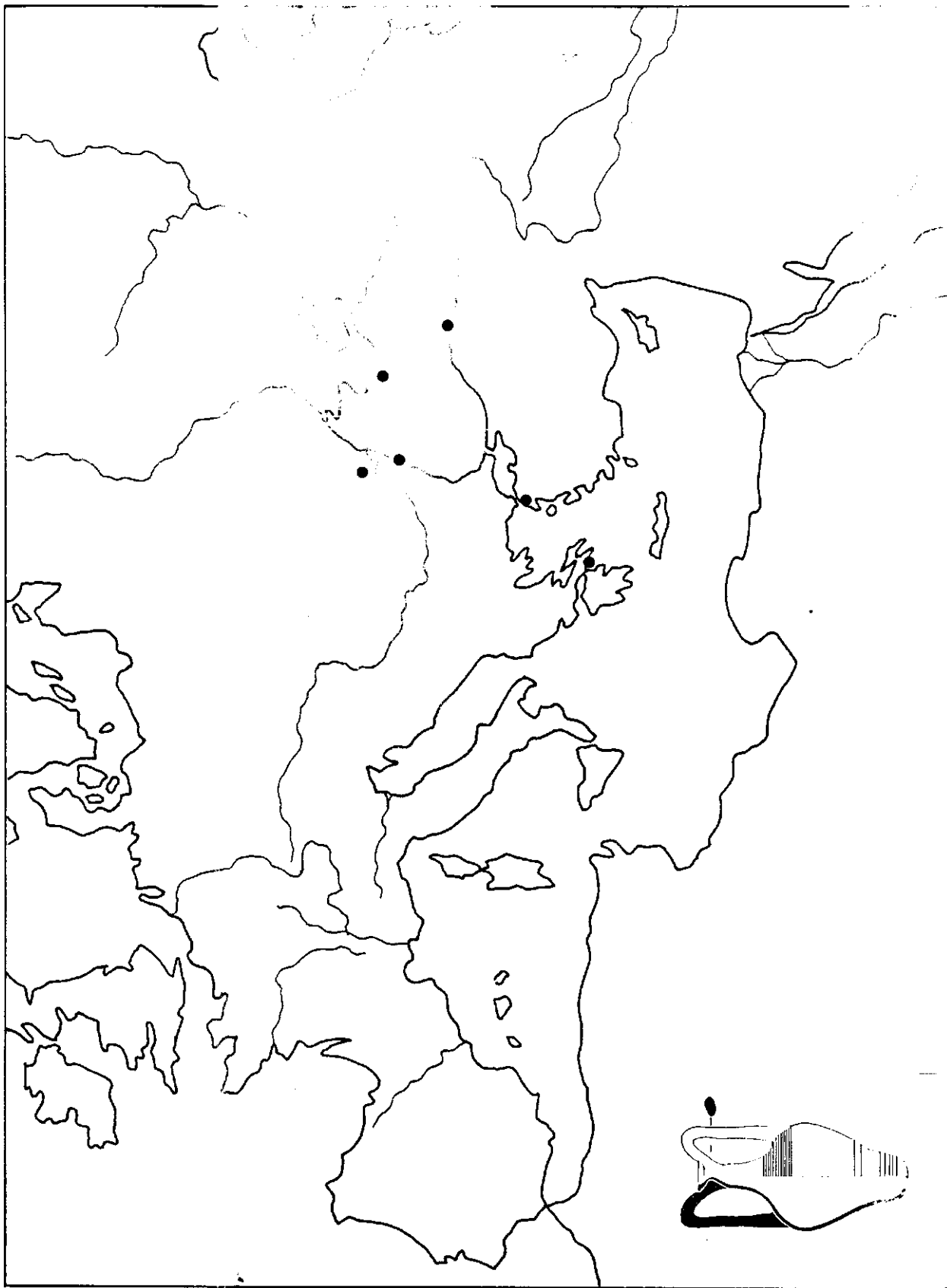


Fig. 15 - Carte de distribution du type II-III.

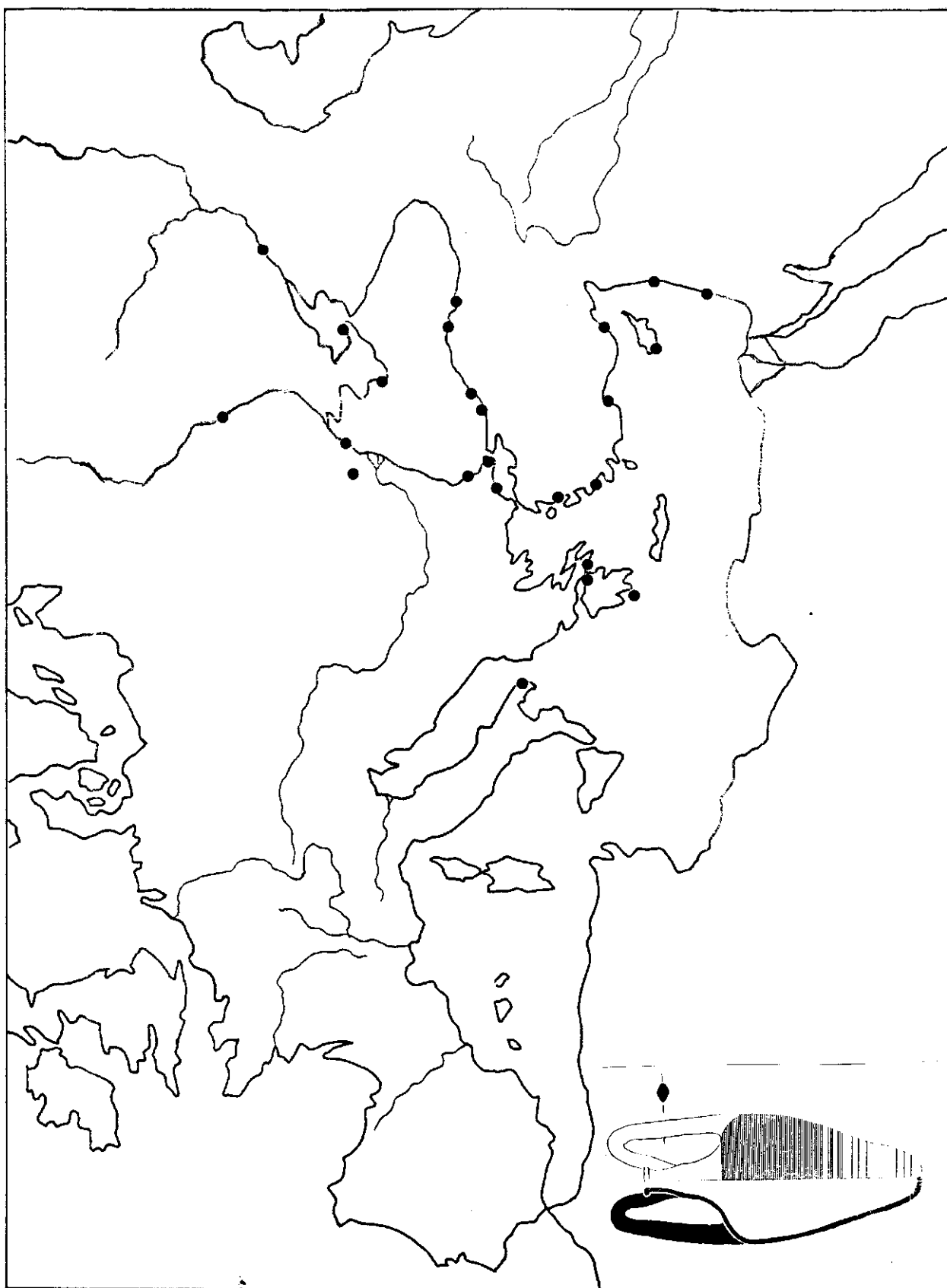


Fig. 16 - Carte de distribution du type III.

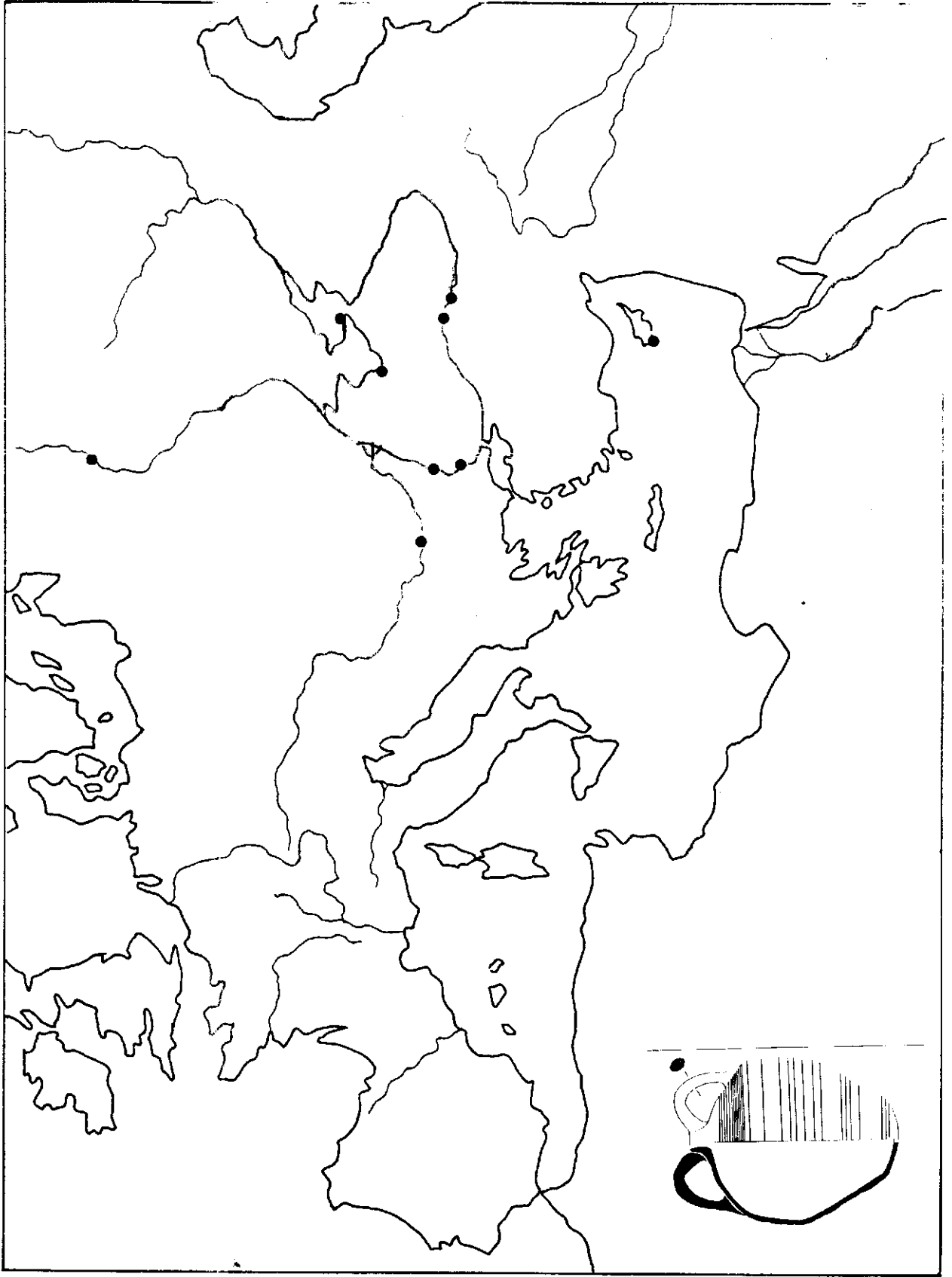


Fig. 17 - Carte de distribution du type IVa.

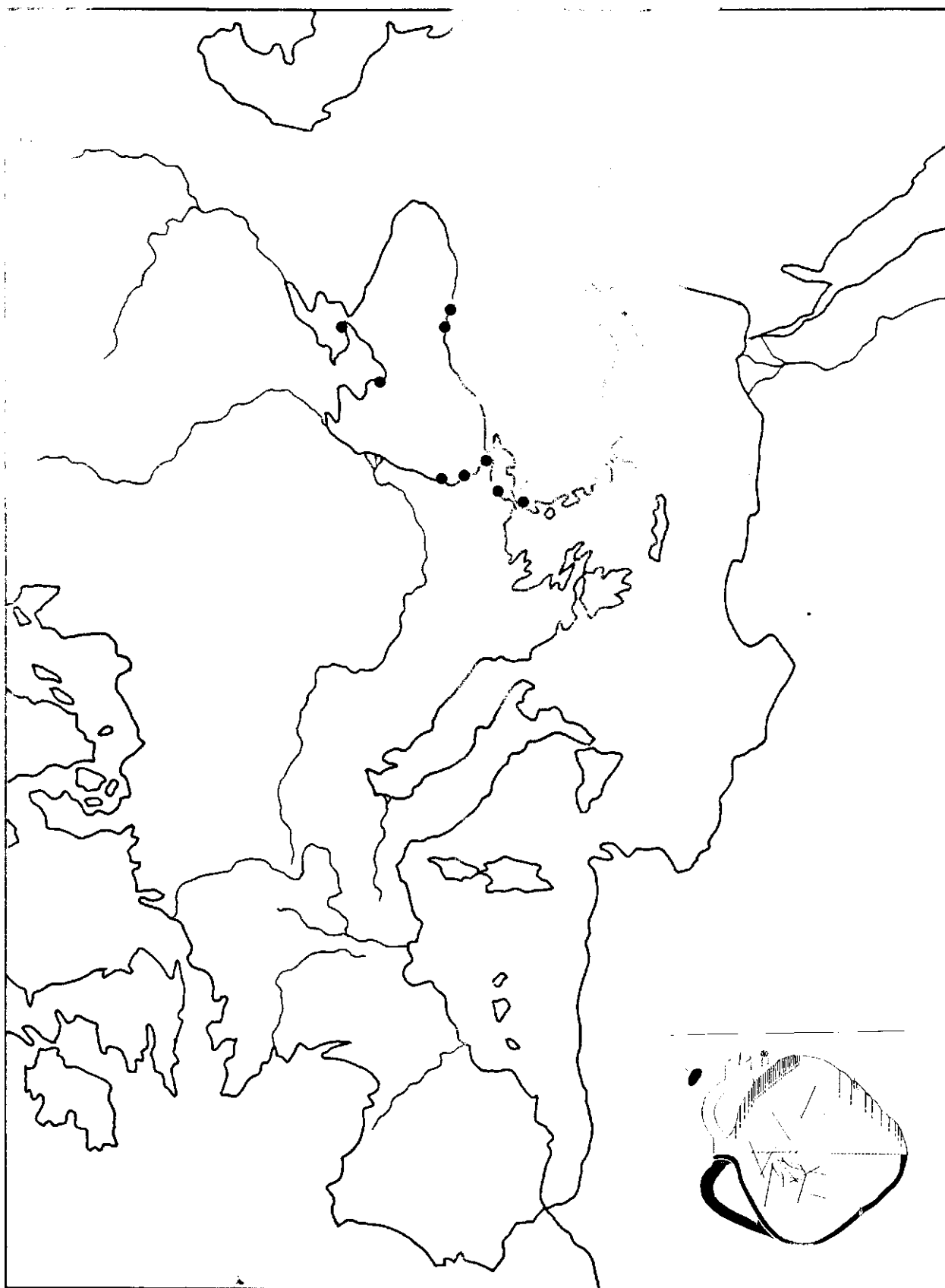
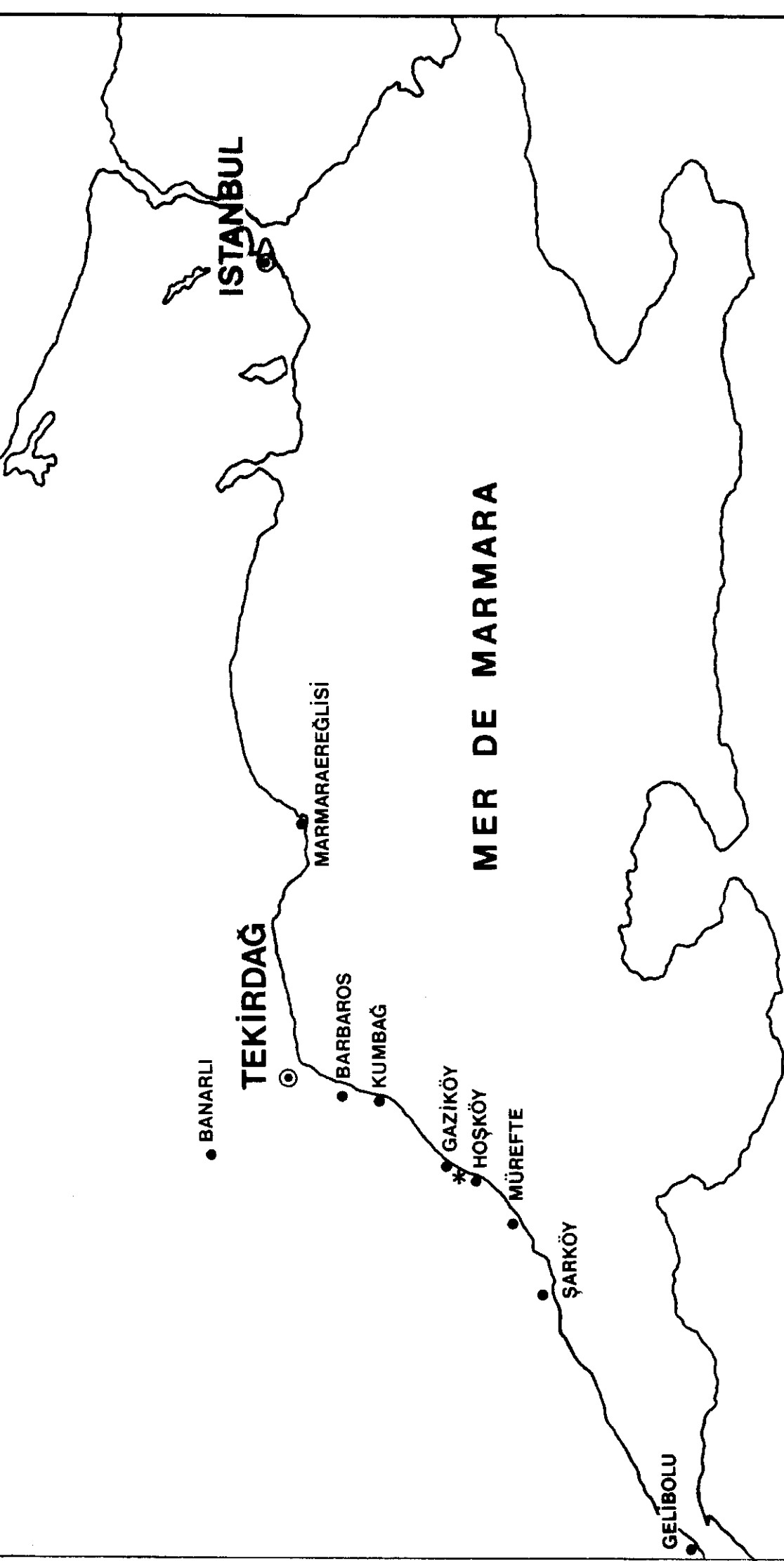


Fig. 18 - Carte de distribution du type IVf.



\* Ateliers d' Amphores

Fig. 19 - Carte de localisation des ateliers.





Fig. 20 - La route actuelle sur la côte à Gaziköy.



Fig. 21.



Fig. 21-22 - Champs cultivés (tomates et vignes), au-dessous du niveau de la route actuelle.



Fig. 23.



Fig. 24.



Fig. 23-25 - Fragments des céramiques brisées, ratés de cuisson, restes de four, fragments de parois vitrifiées.



Fig. 26.



Fig. 27.



Fig. 26-28 - Fragments d'amphores et de fours au bord de la plage.



Fig. 29.



Fig. 29-30 - Fragments d'amphores et de fours.



Fig. 31 - La coupe montre les couches de céramiques.





Fig. 32.



Fig. 33.



Fig. 32-34 - Les ateliers au-dessus de la route actuelle.



Fig. 35.



Fig. 36.



Fig. 35-37 - Couches de céramiques, alternants avec des amphores brisées.



Fig. 38.

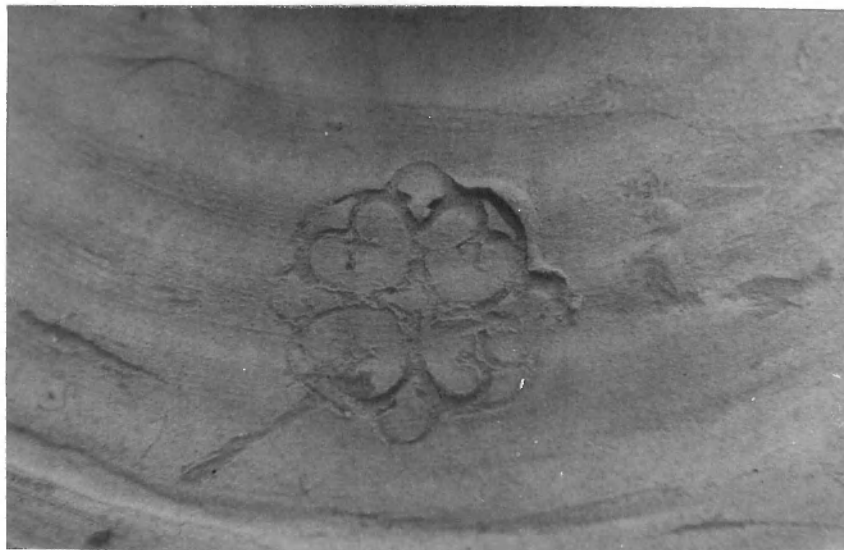
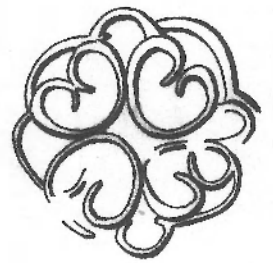


Fig. 39a.



39b.

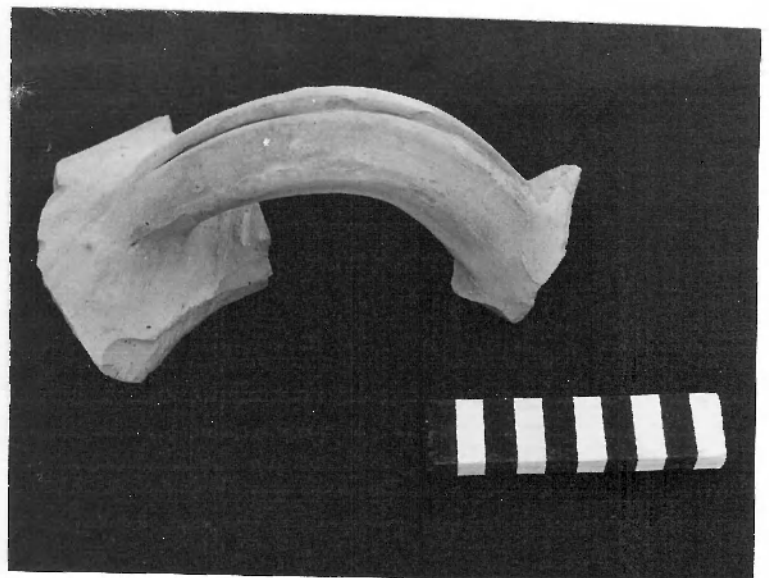
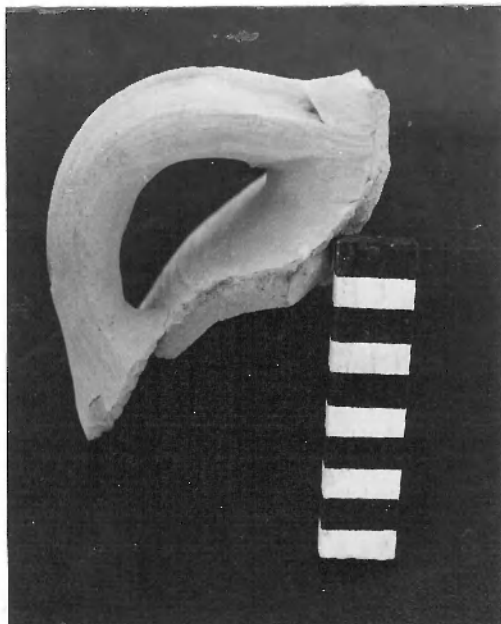


Fig. 38-41 - Détails des amphores produites à Gaziköy.

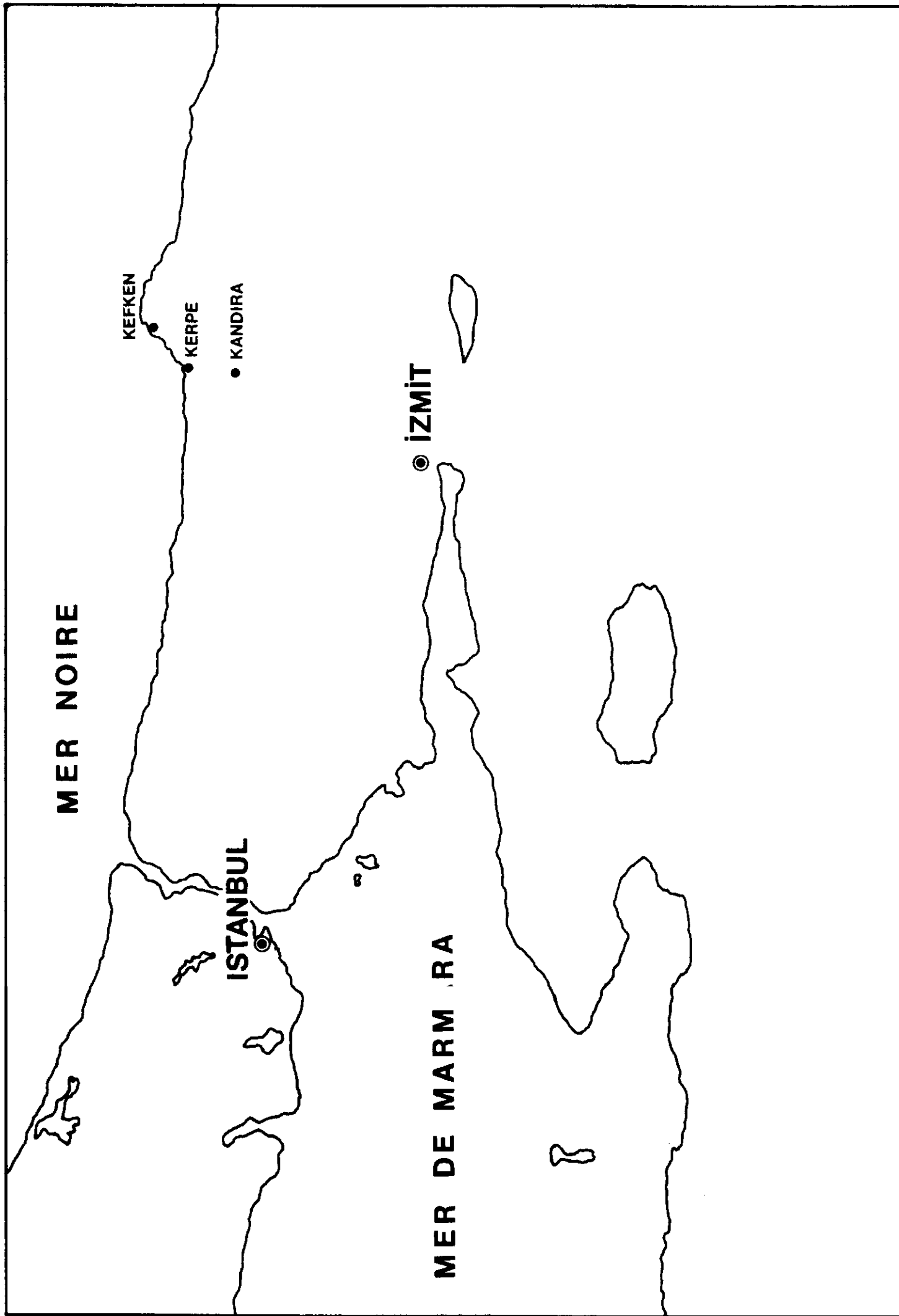


Fig. 42 - Carte de localisation de Kerpe et Kefken.



ISTANBUL	EDİRNE	SİNOP	SERÇE LİMANI	İZMİR	MERSİN (Mer Noire)	P. IBERIQUE	ATHENES	DINOGETA	SARKEL	SAMSUN	AMASRA
ΛΕΟΝ											
KX					Kδ						
ΚΑΛΟ							ΚΑΛΟ				

Fig. 43 - Tableau des timbres d'amphores identiques.

# **PLANCHES**

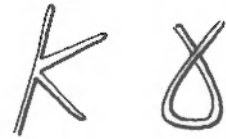
PL. I



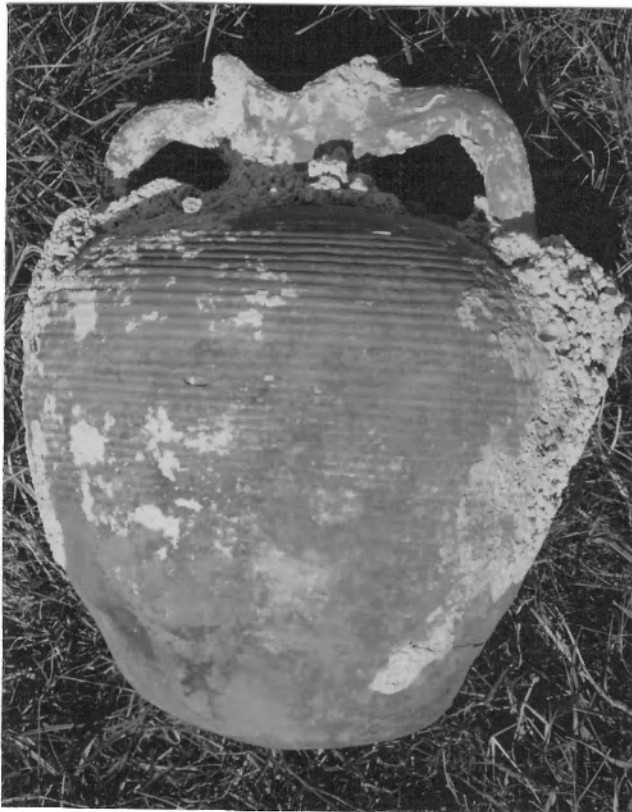
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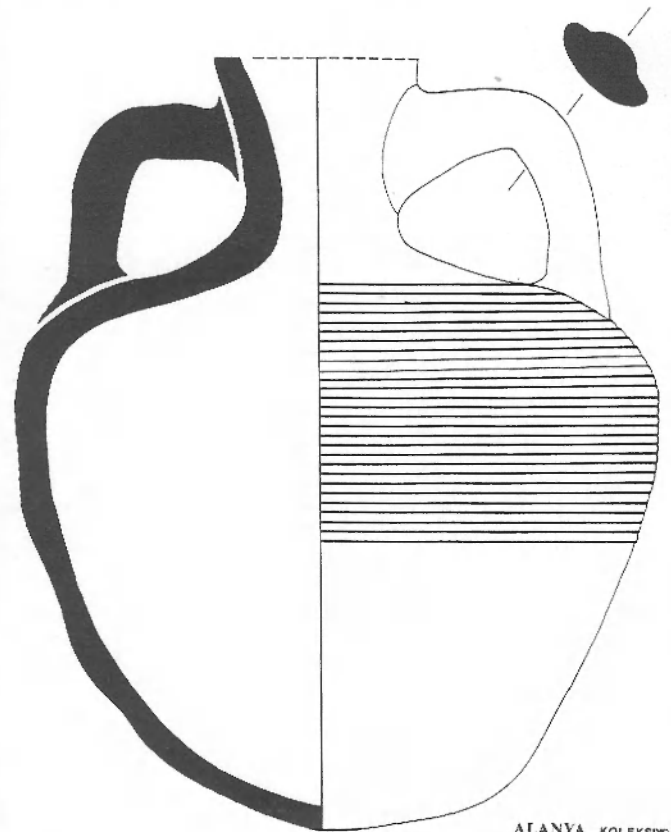
1b



1c



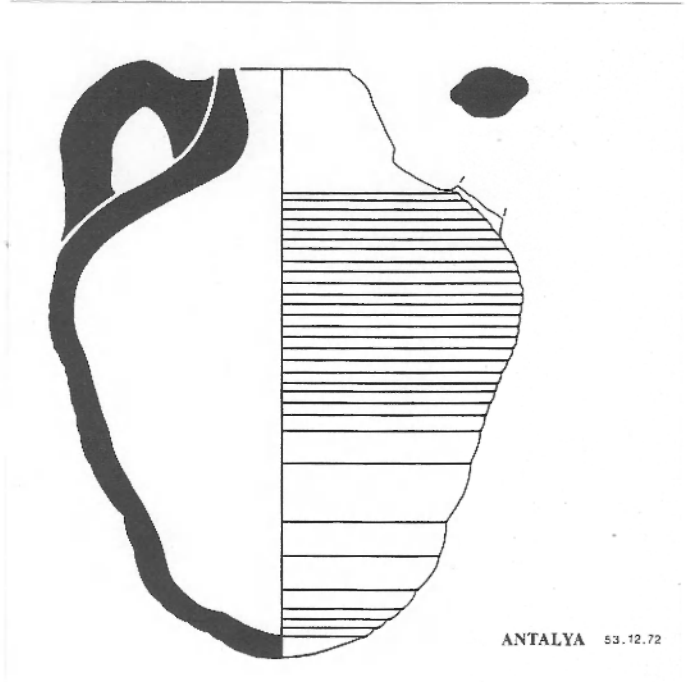
2a



2b

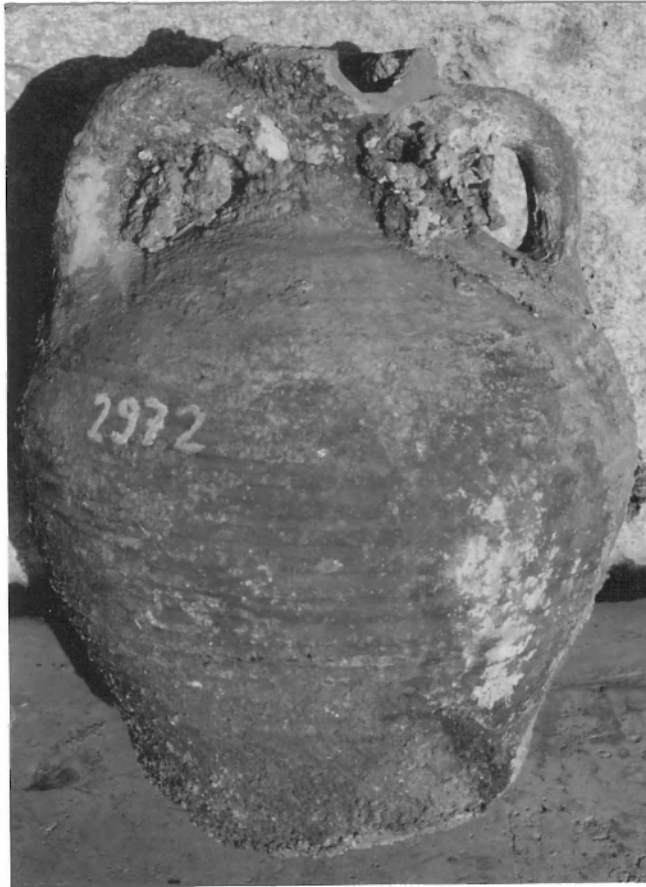


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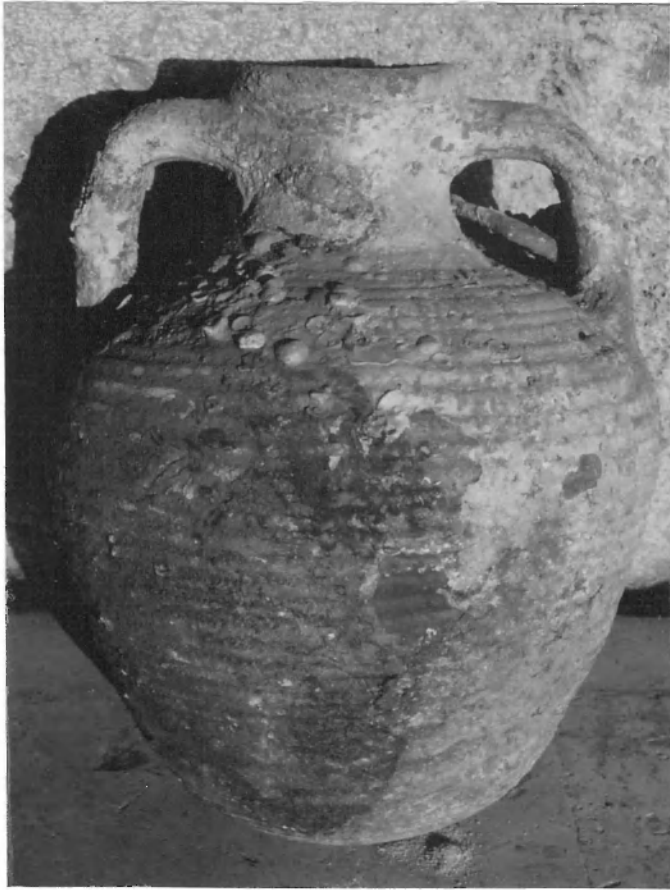


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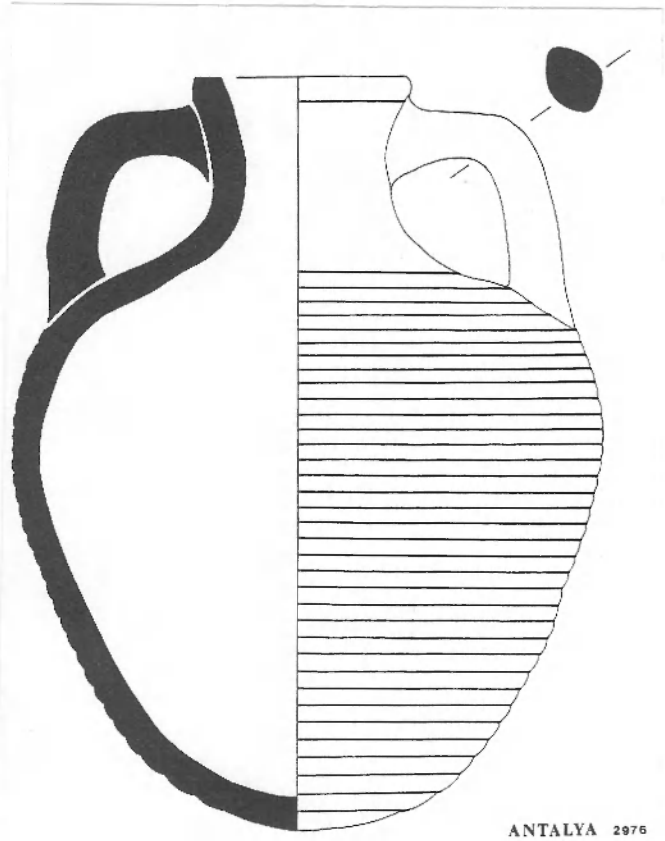
ANTALYA 53.12.72



2

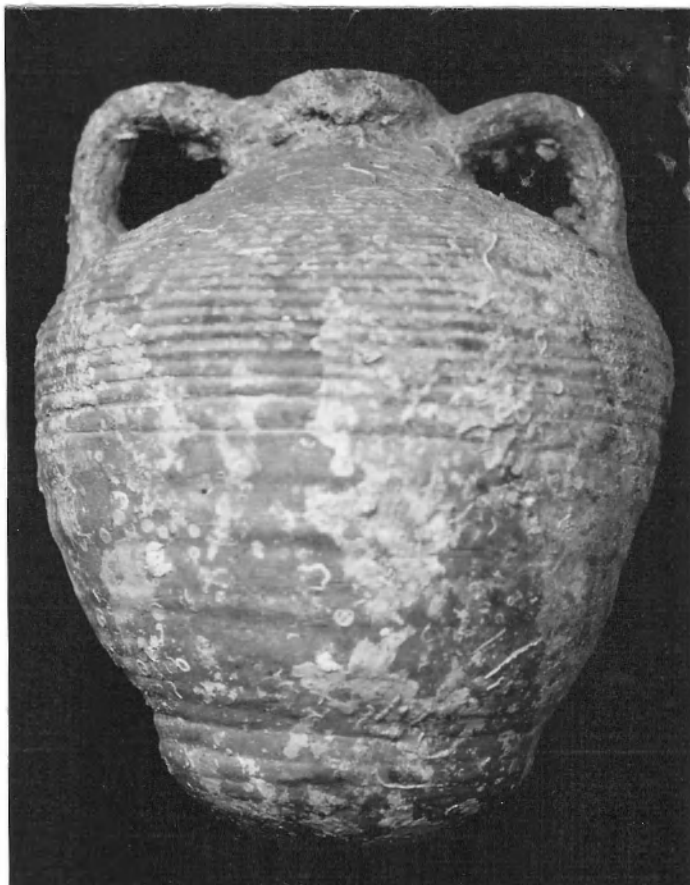


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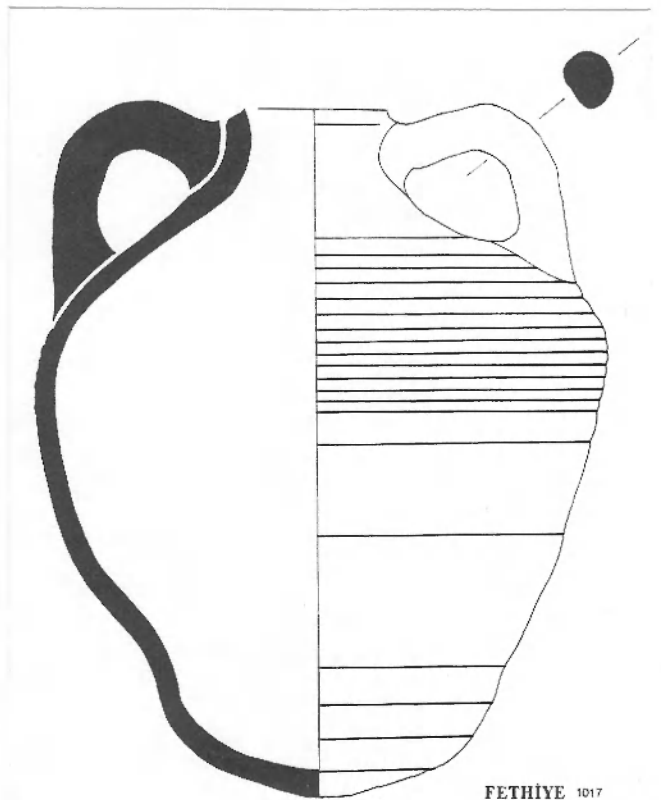


ANTALYA 2976

1b



2a



FETHIYE 1017

2b



PL. IV



1

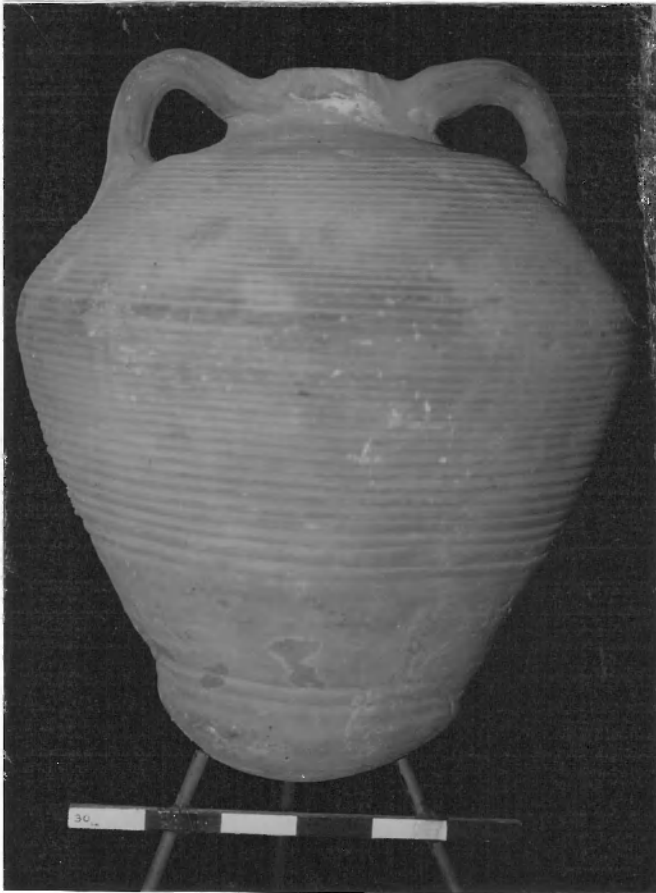


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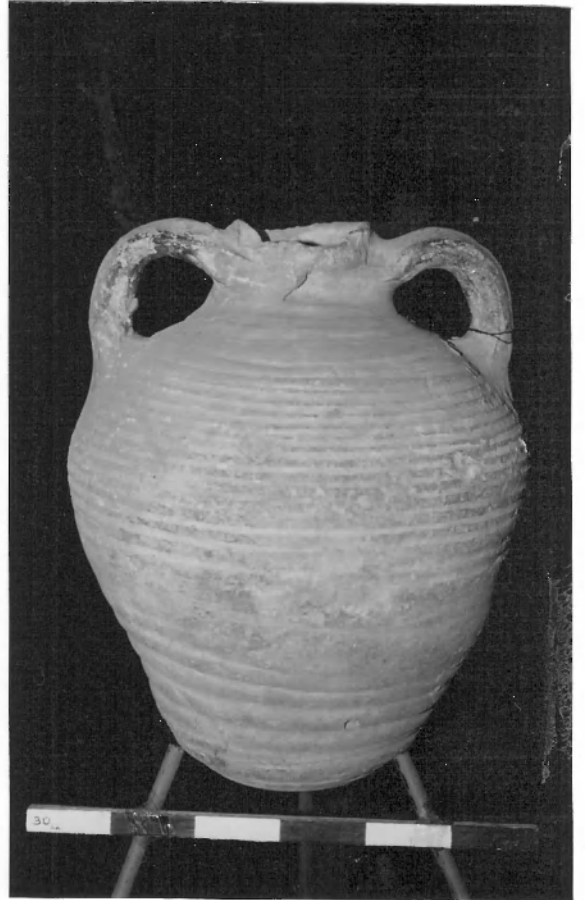


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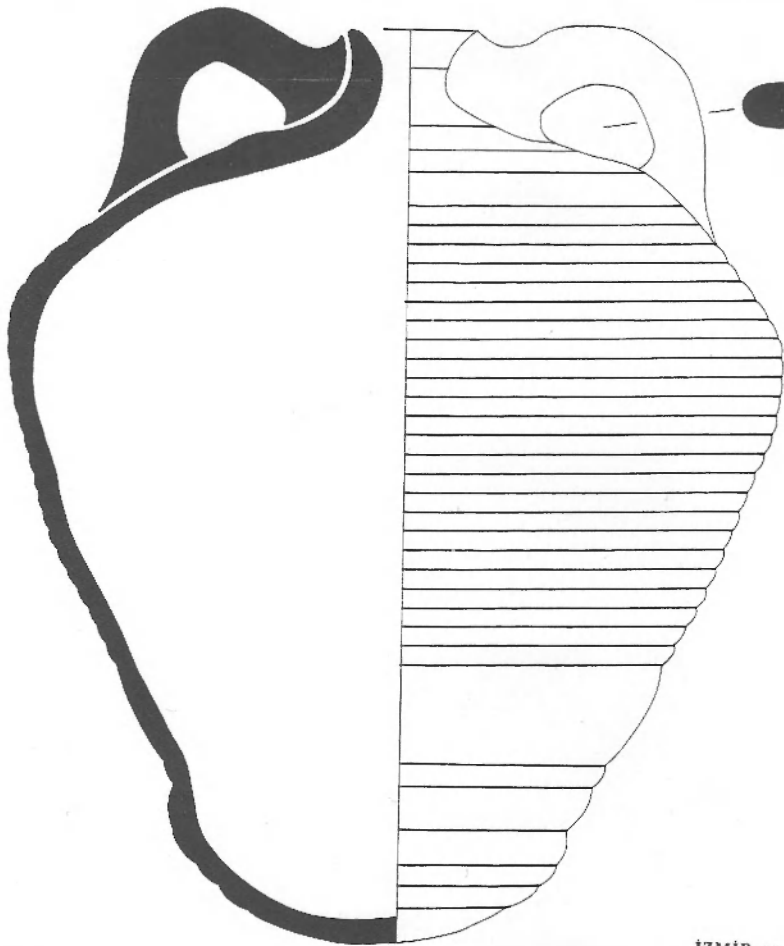
(l'ensemble de : pl. V/1, pl. VI/1, pl. V/2, pl. VI/2).



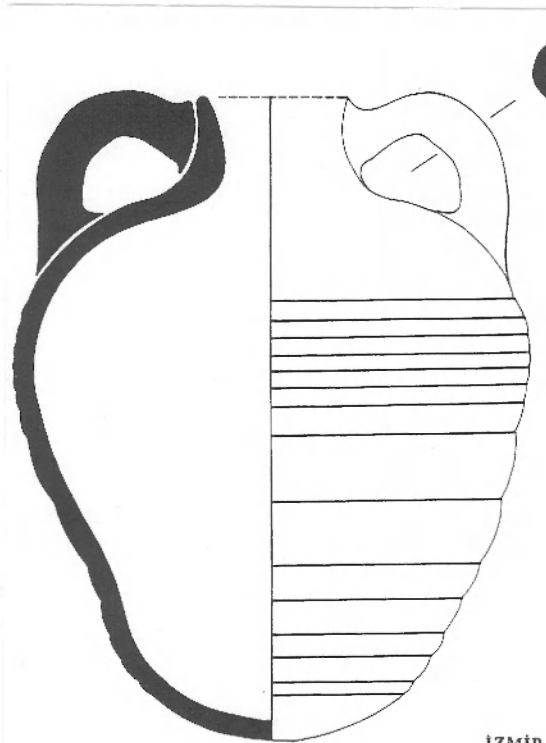
1a



2a



1b

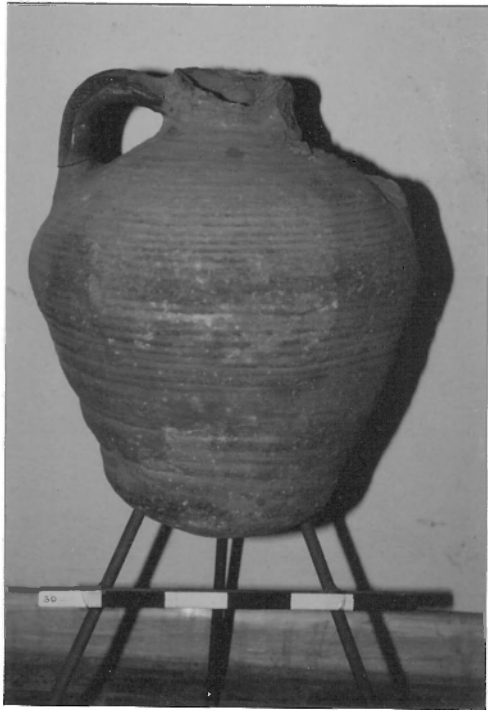


2a

IZMİR 2720

IZMİR 2040

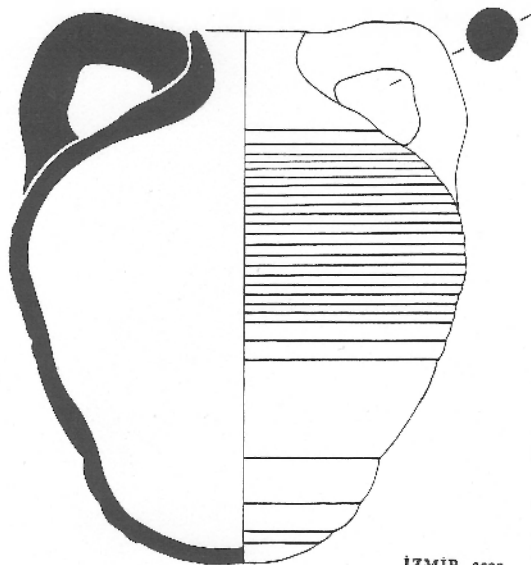
PL. VI



1



2



IZMIR 8523

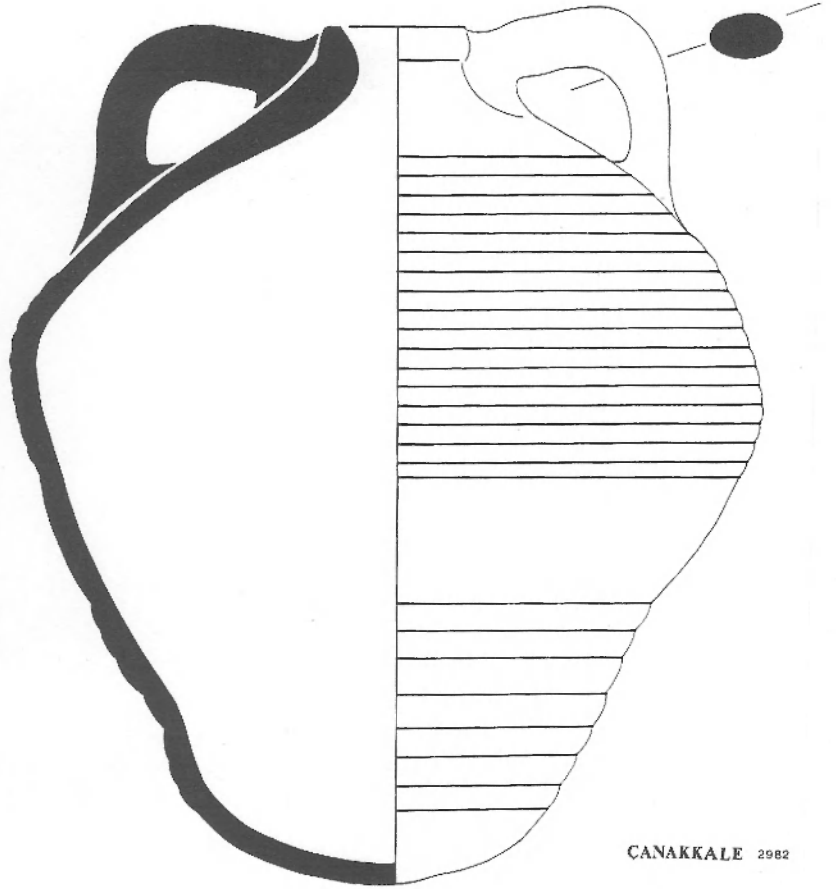
3



PL. VII



1a

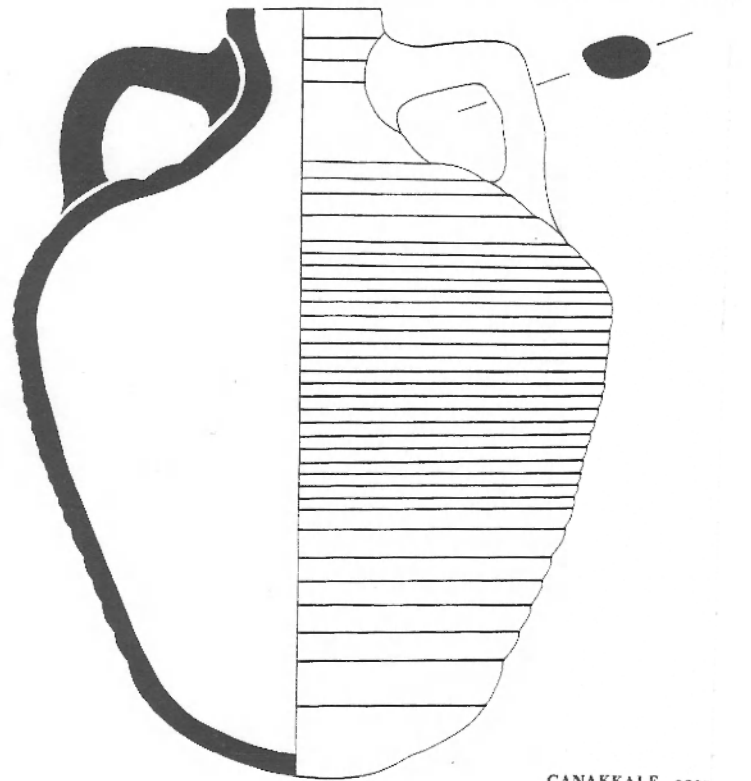


ÇANAKKALE 2982

1b



2a



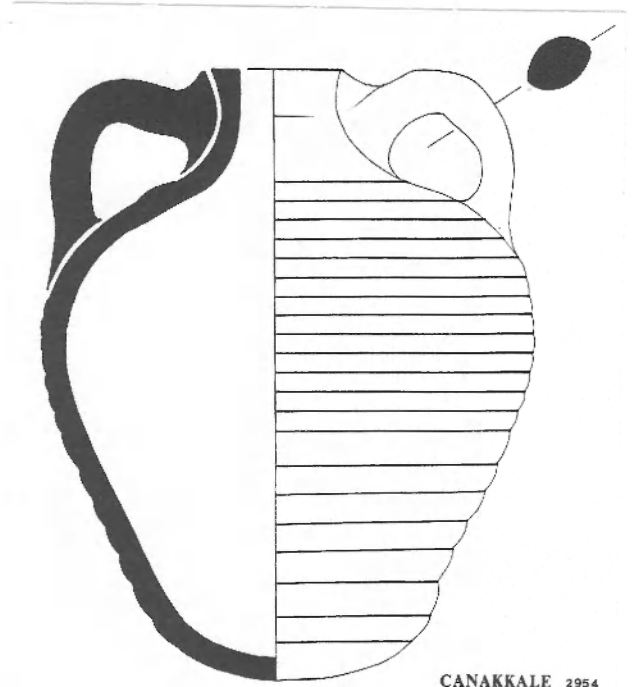
ÇANAKKALE 2962

2b

PL. VIII

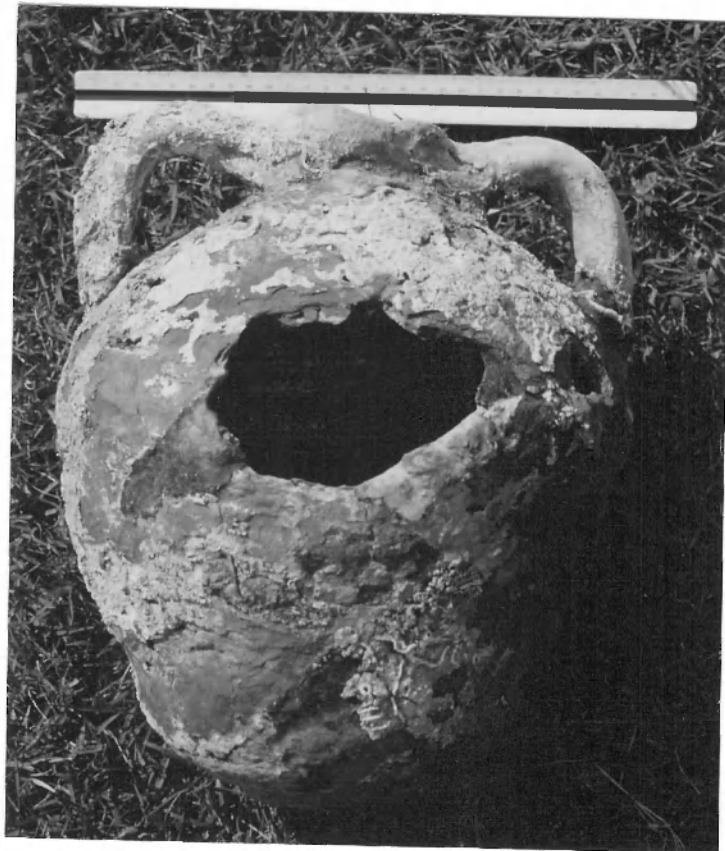


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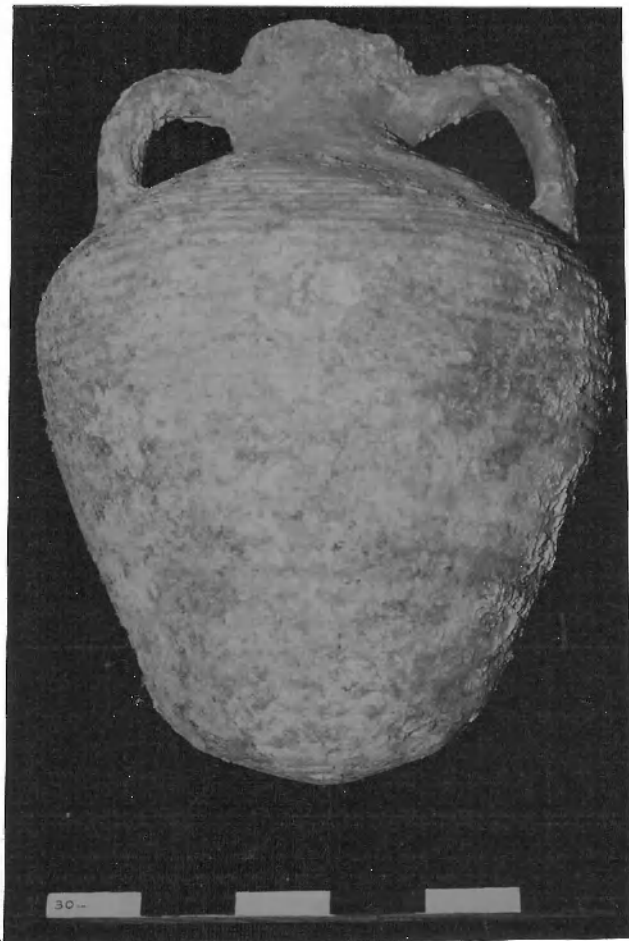


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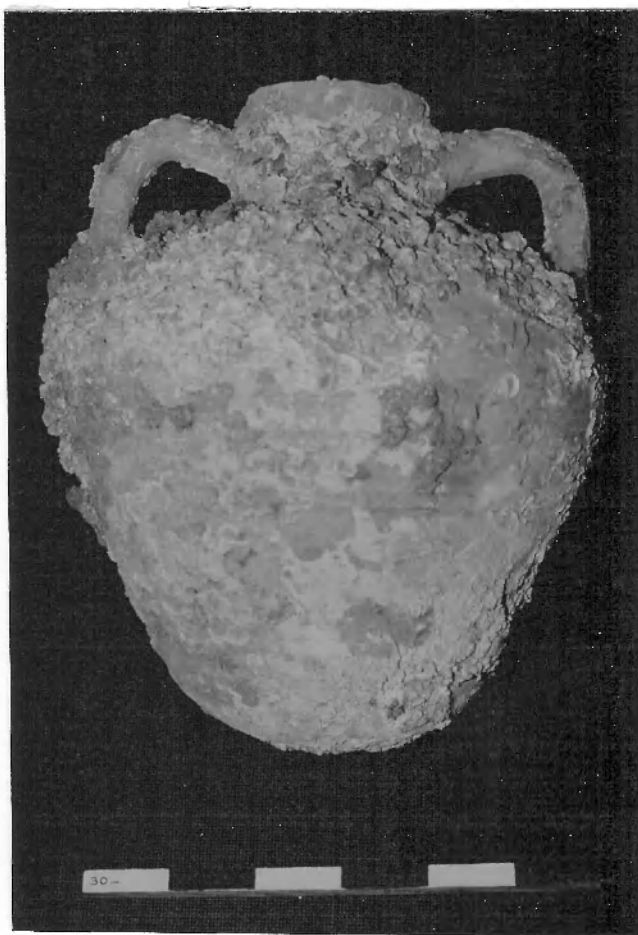
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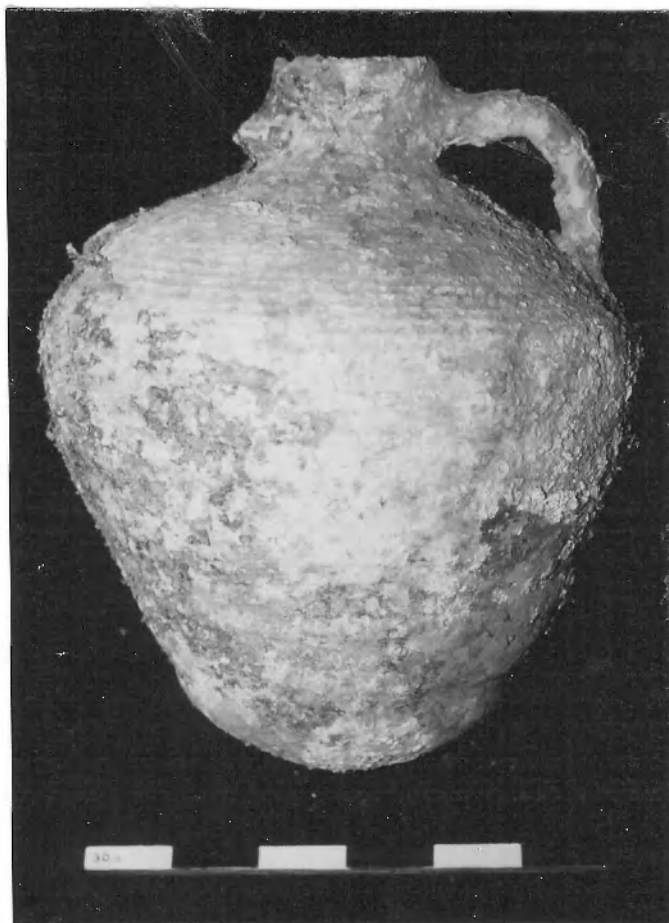
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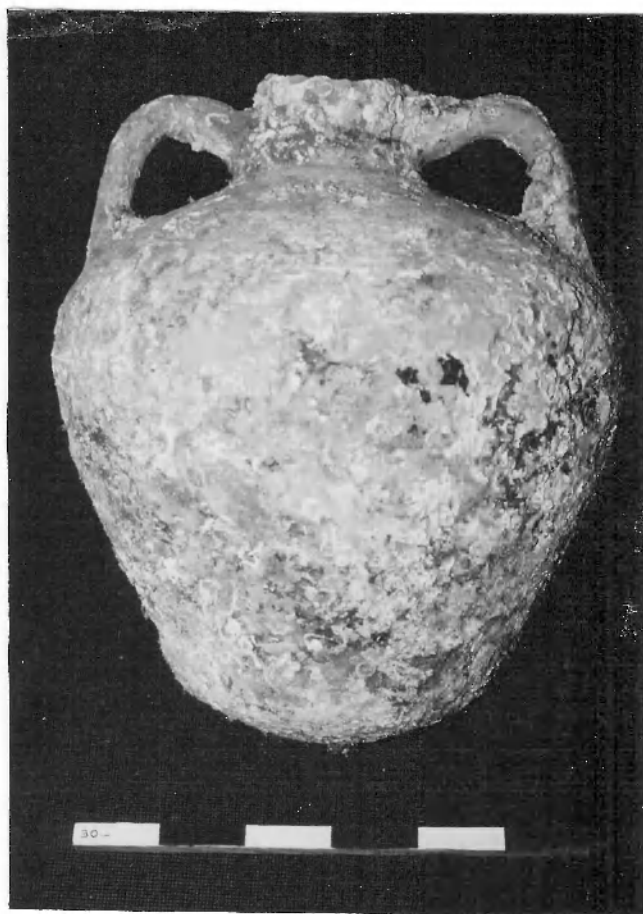
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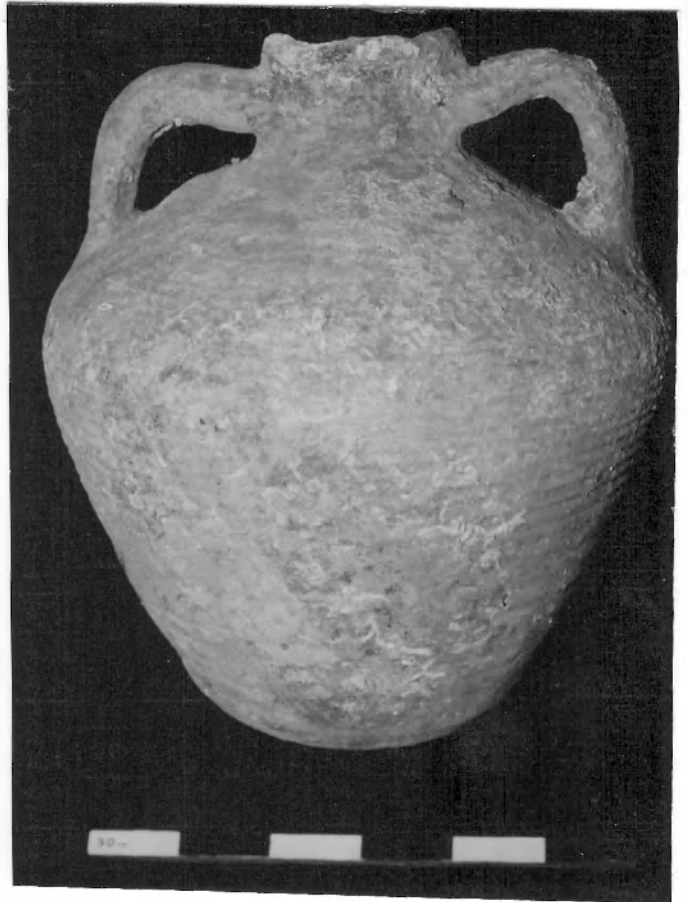
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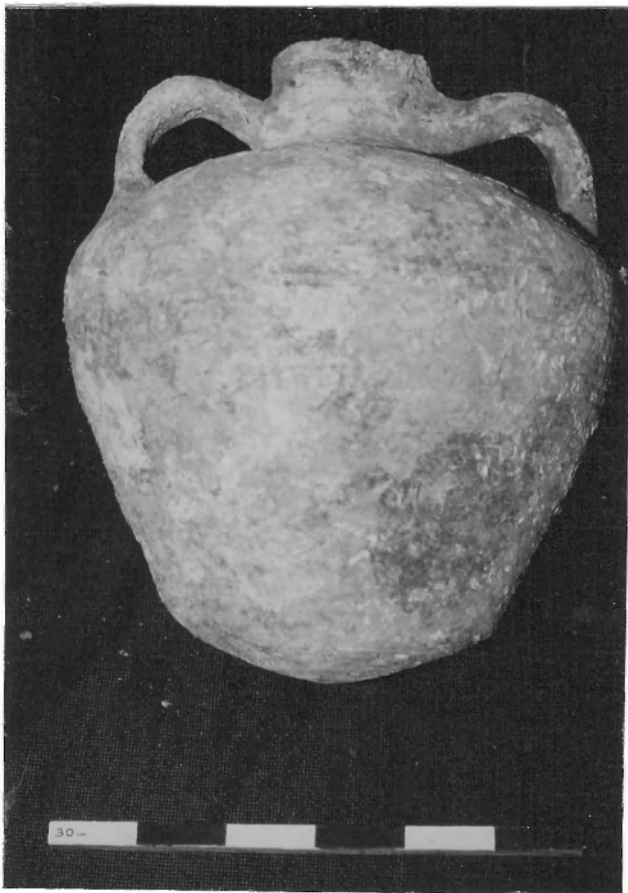
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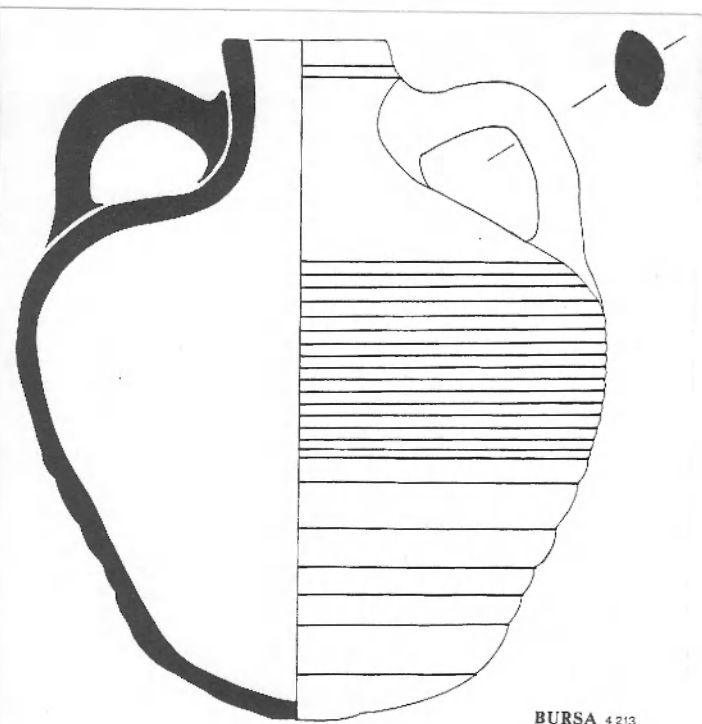
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2



3a

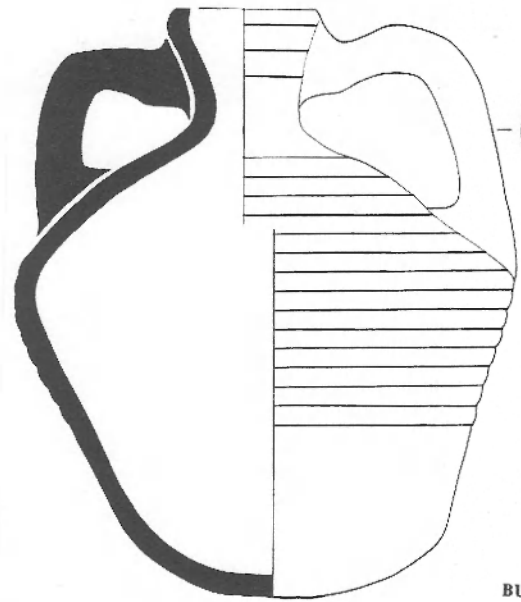


BURSA 4213

3b



1a



1b

BURSA 614

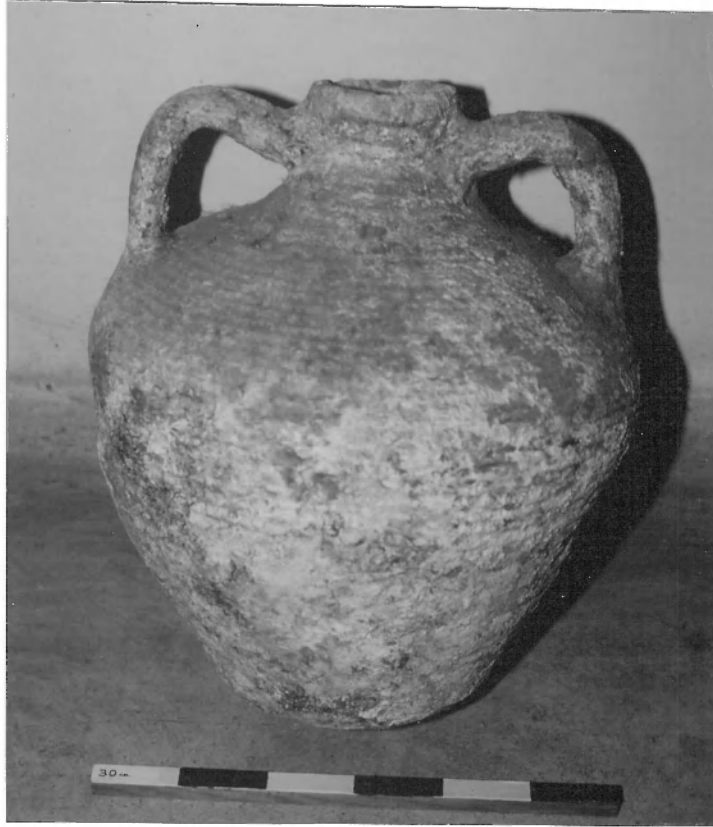


2

(l'ensemble de : pl. X/3a et pl. XI/3b)



PL. XII



1



2

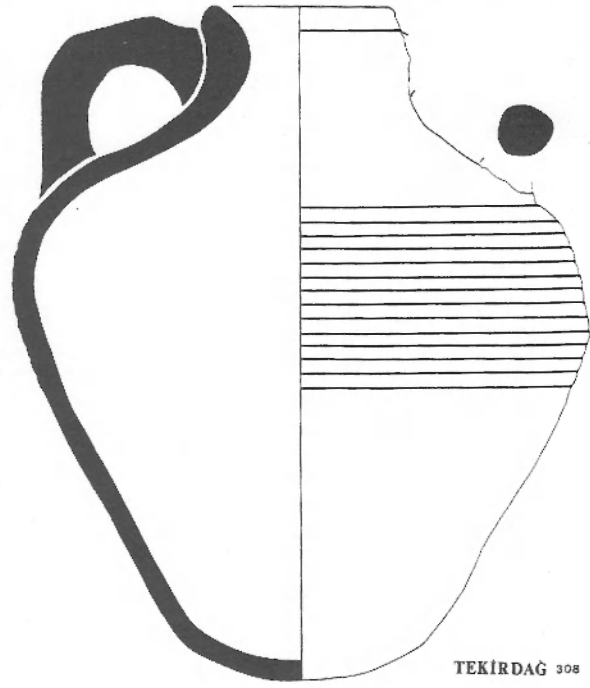


3

PL. XIII



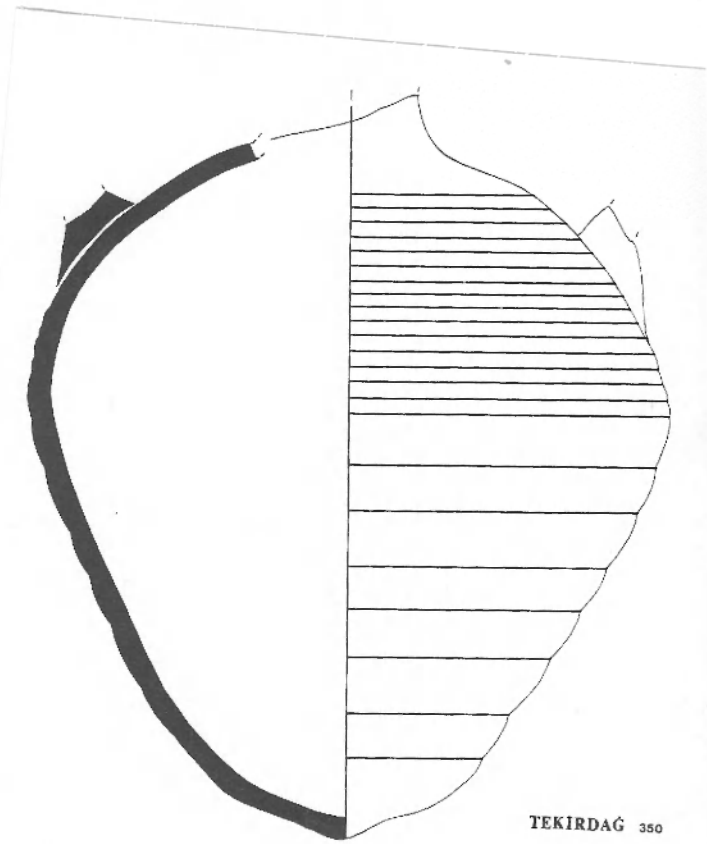
1a



1b



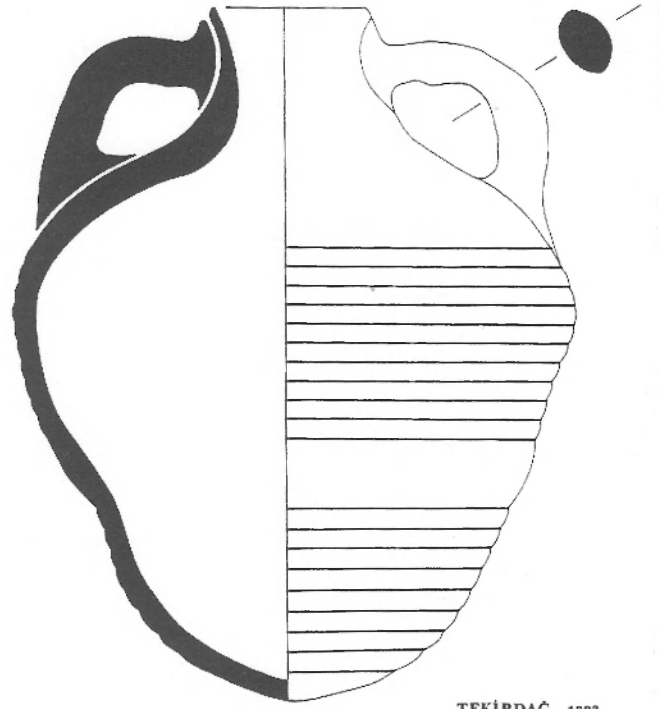
2a



2b



1a



1b



2



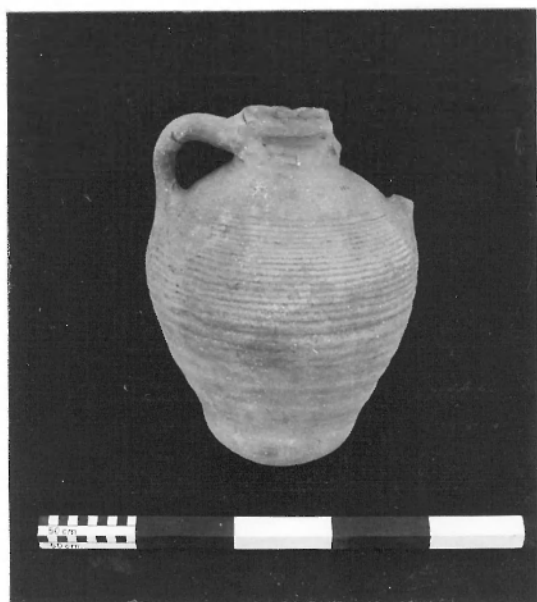
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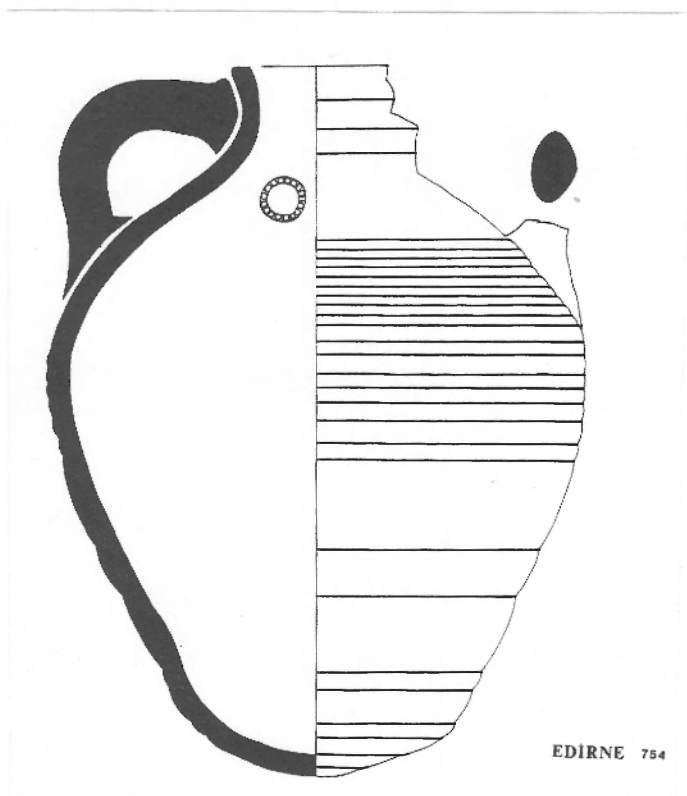
PL. XV



1a-b



2a



2b

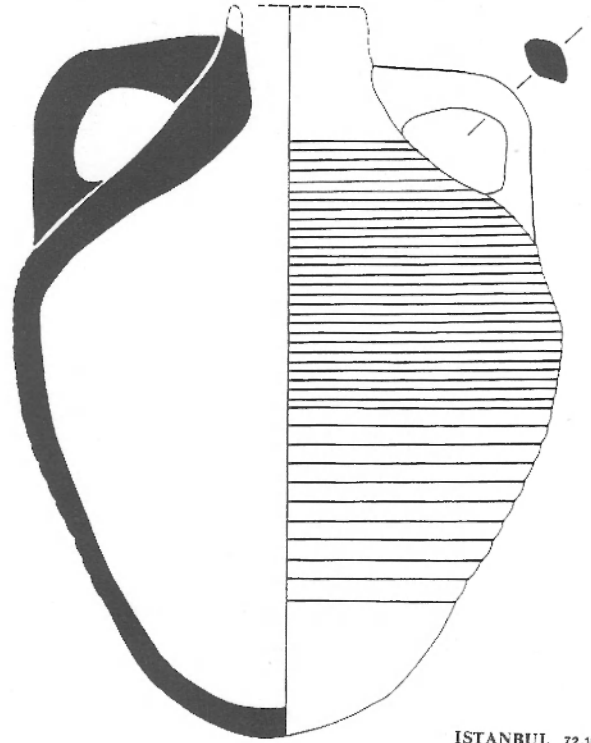


2c

PL. XVI



1a



1b



2

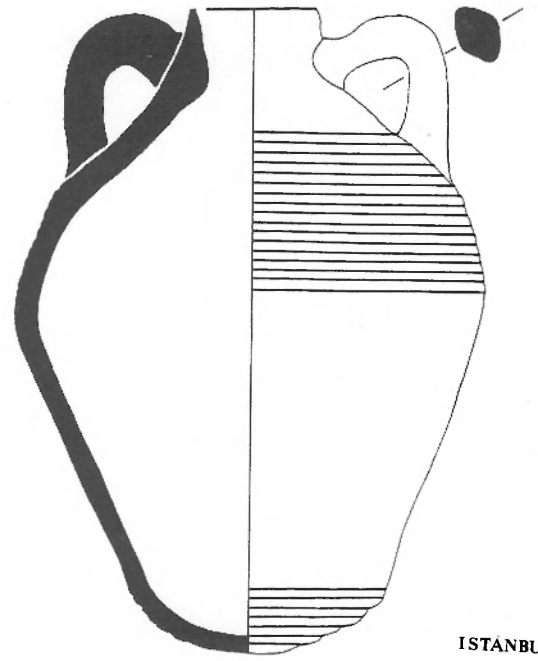


3

PL. XVII

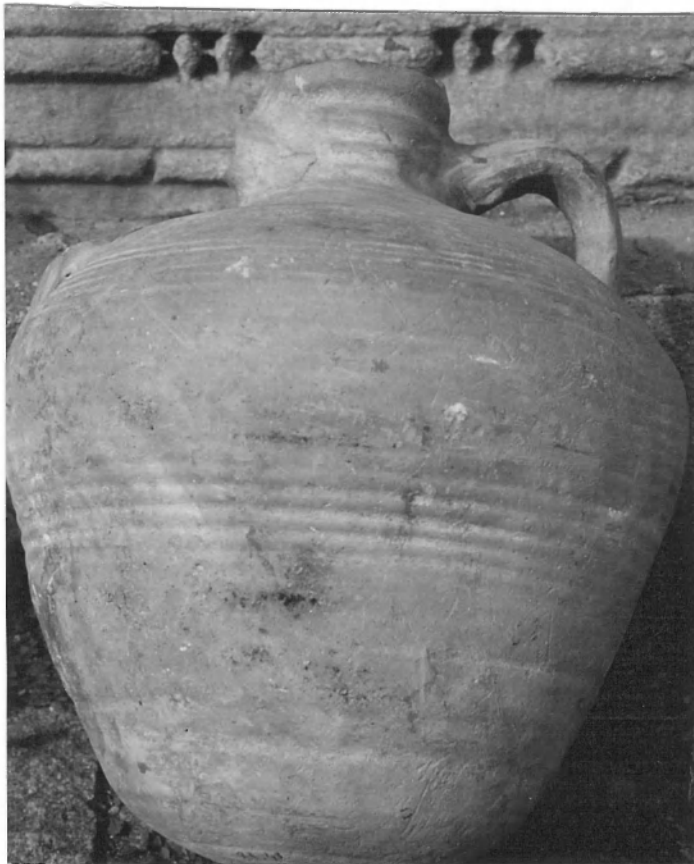


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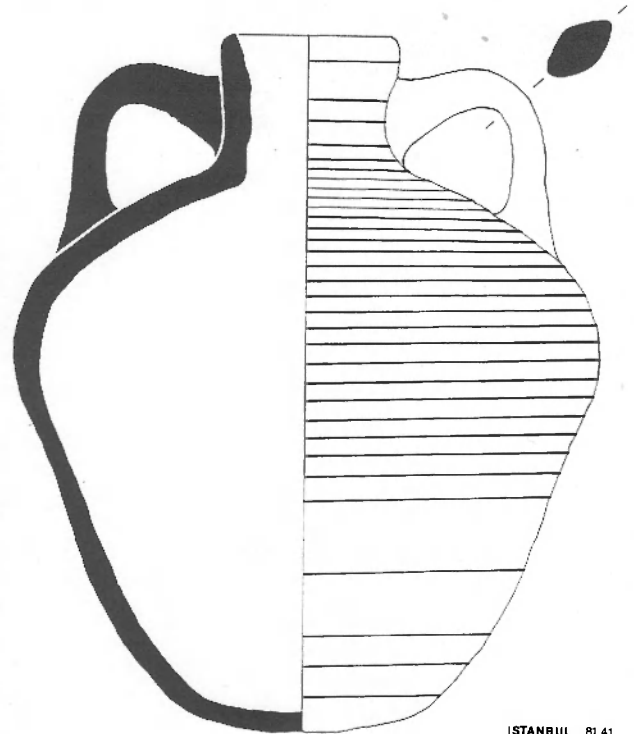


ISTANBUL 77.256

1b



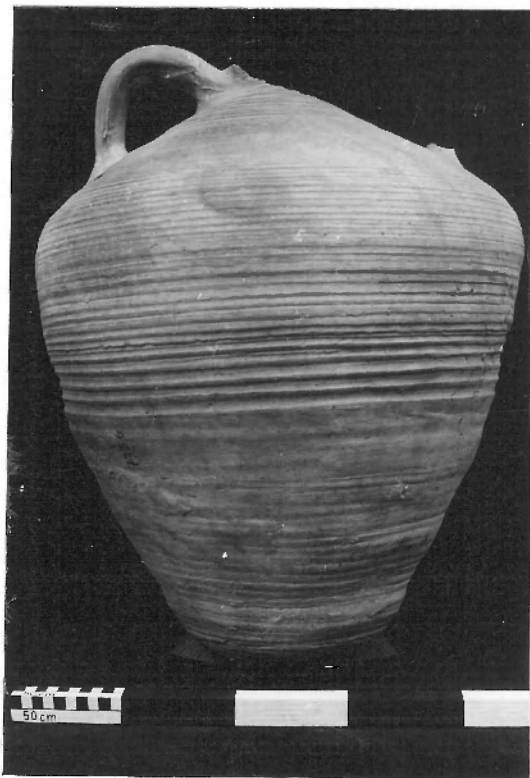
2a



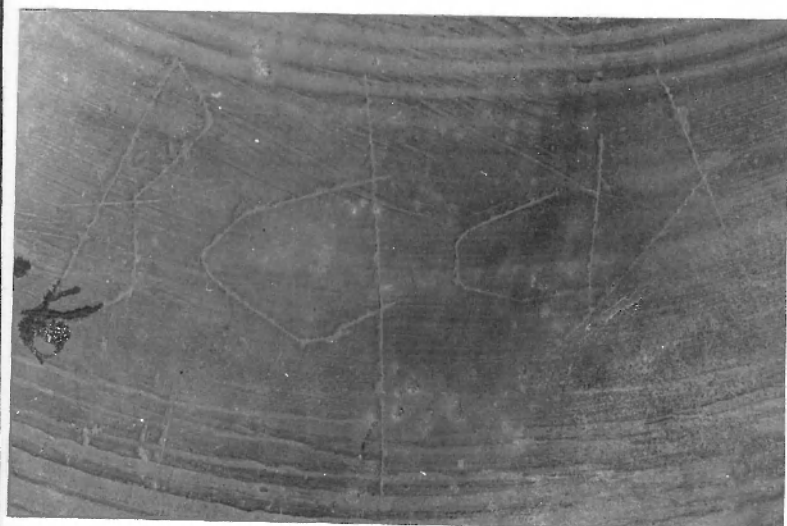
ISTANBUL 81.41

2b

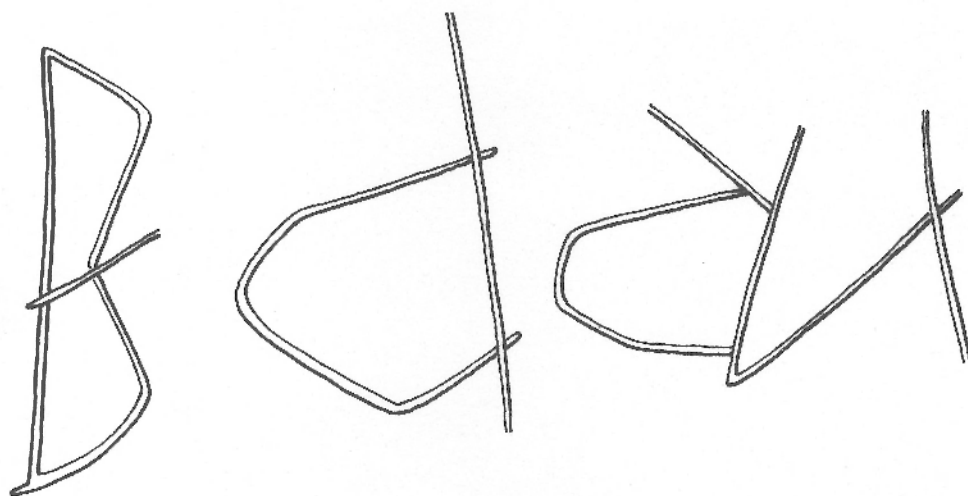
PL. XVIII



1a

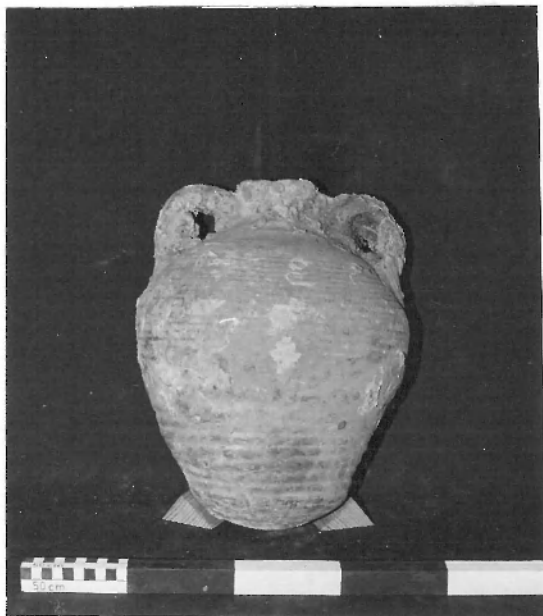


b

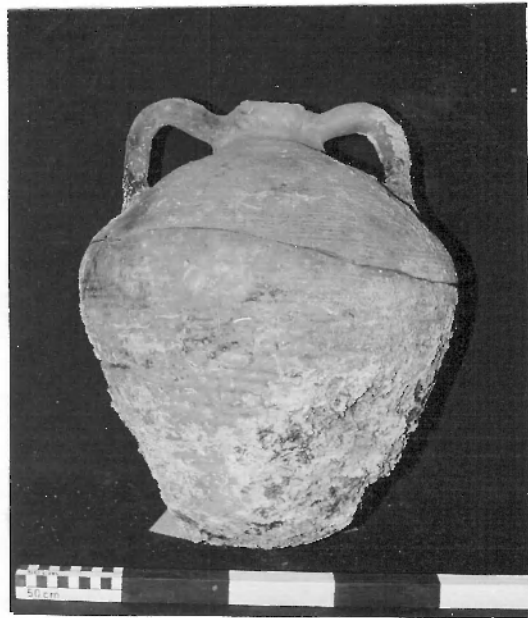


c

PL. XIX



1



2



3



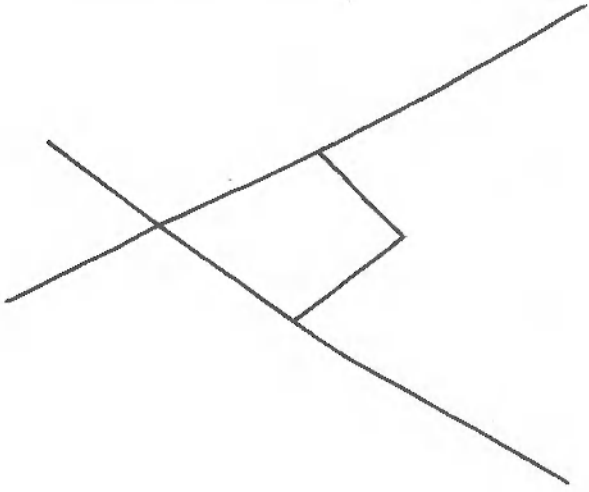
4a-b



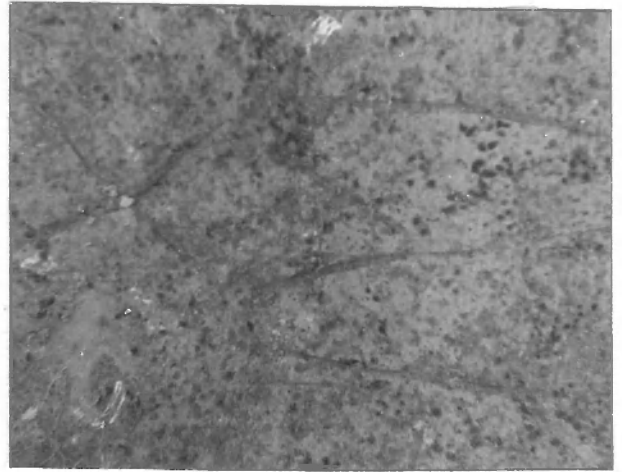
1a



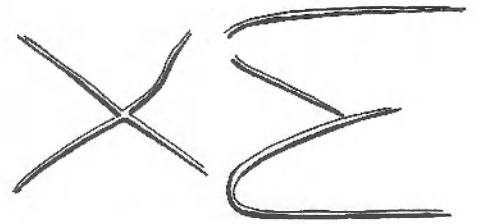
b



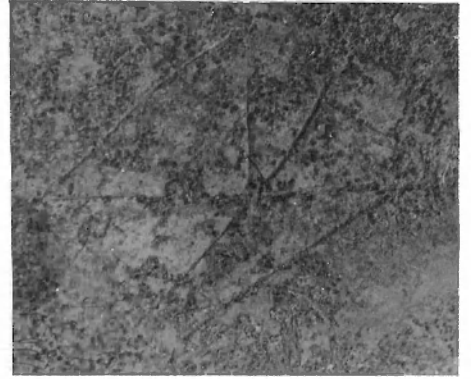
c



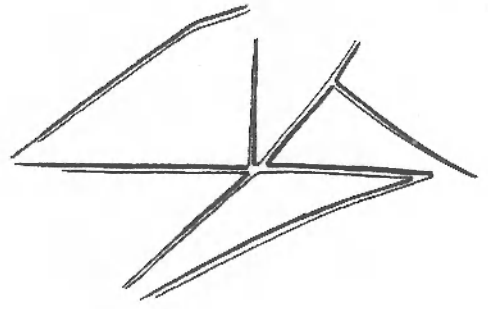
d



e



f

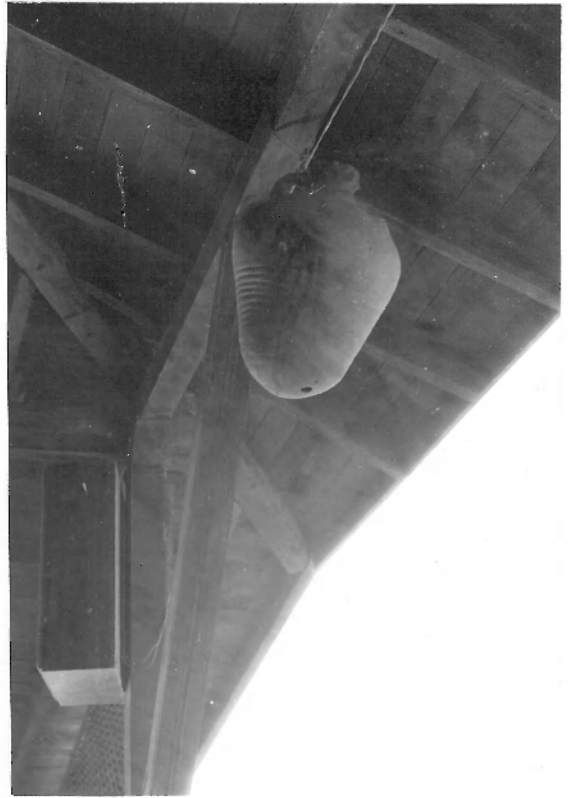


g

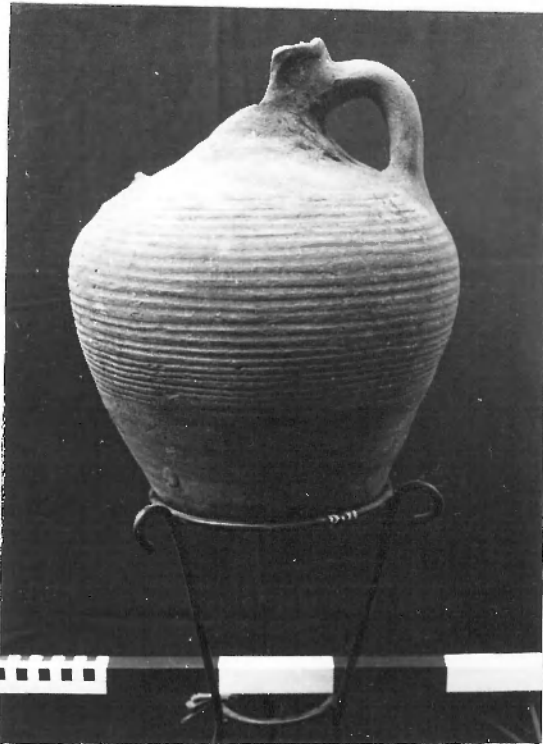




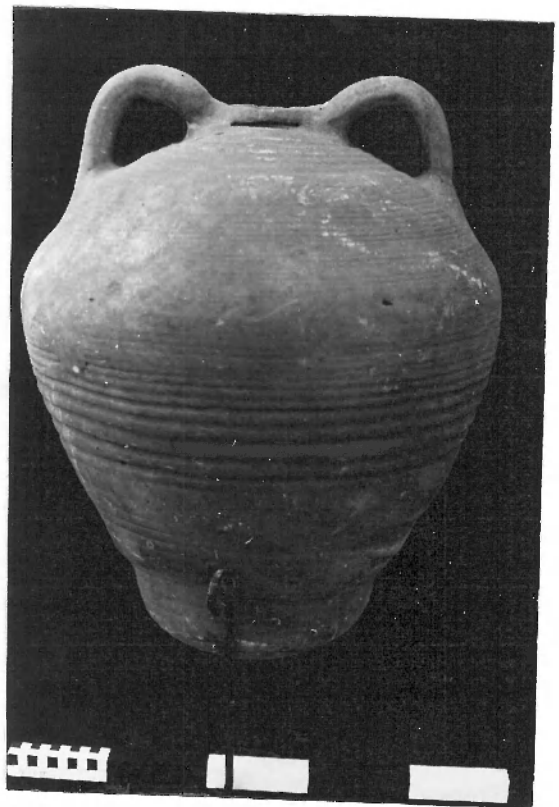
1



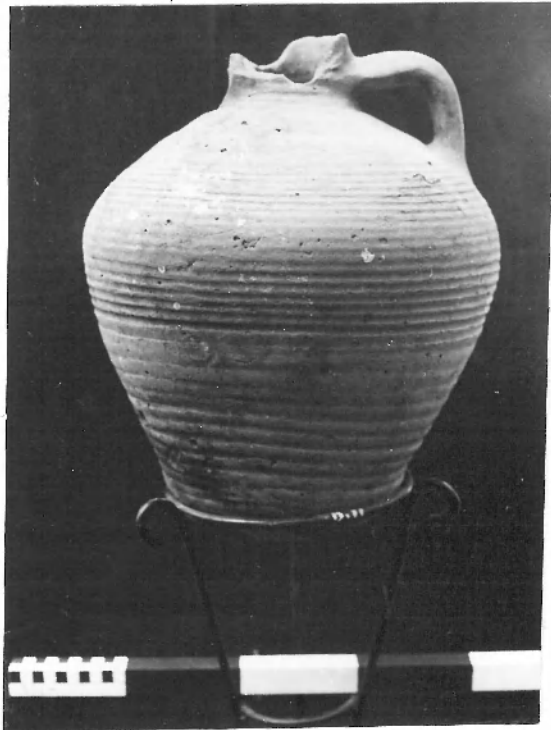
2



3



4



1a

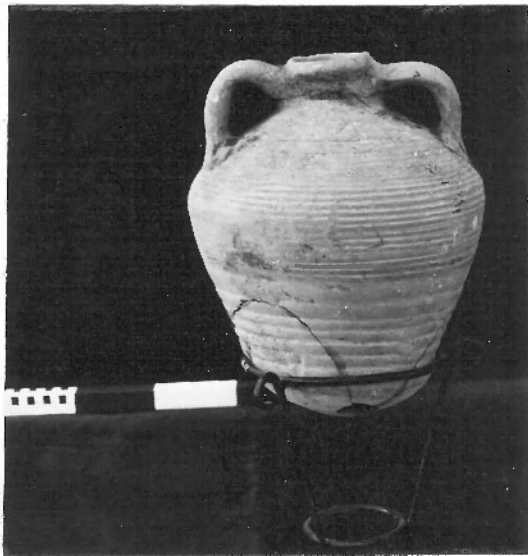


b



c

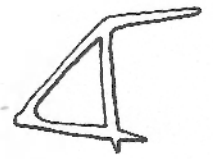




1a



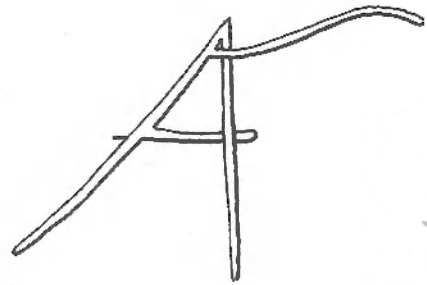
b



c



d



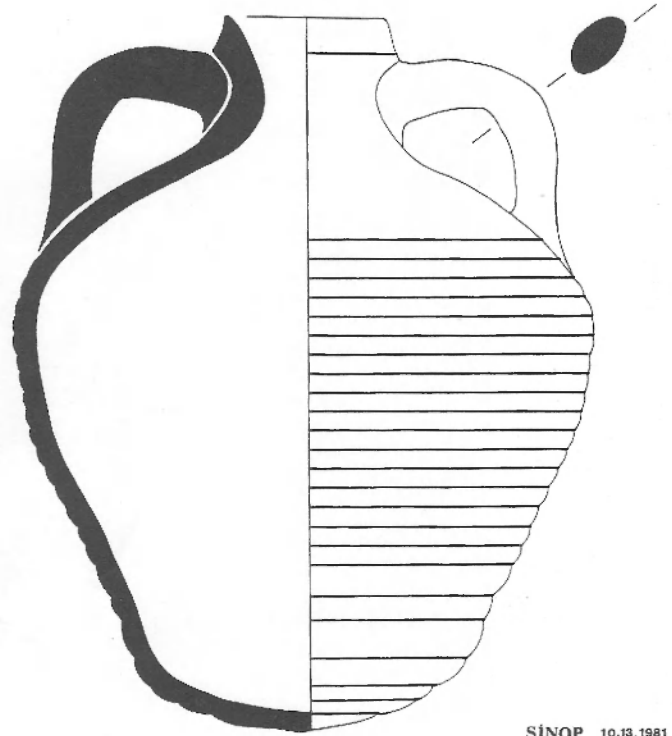
e



2a-b (l'ensemble de : pl. XXI/4 et XXIII/1)



1a



b

SINOP 10.13.1981



2



3



4



5



1a



1b



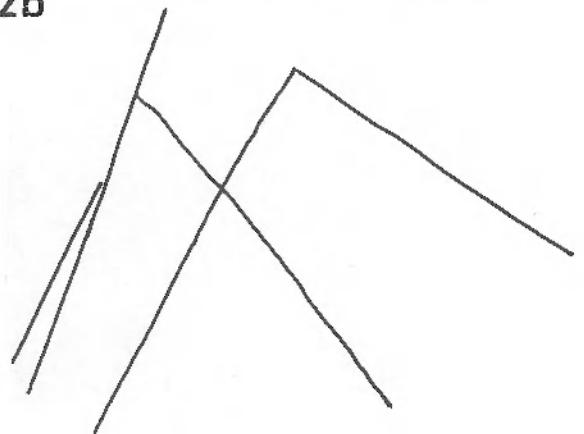
1c



2a

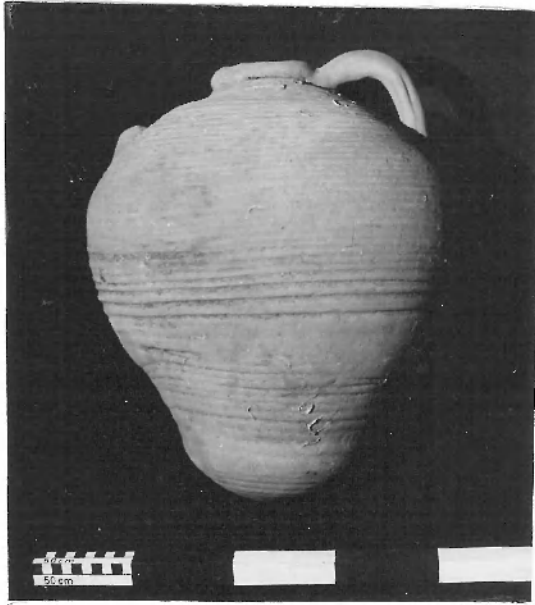


2b

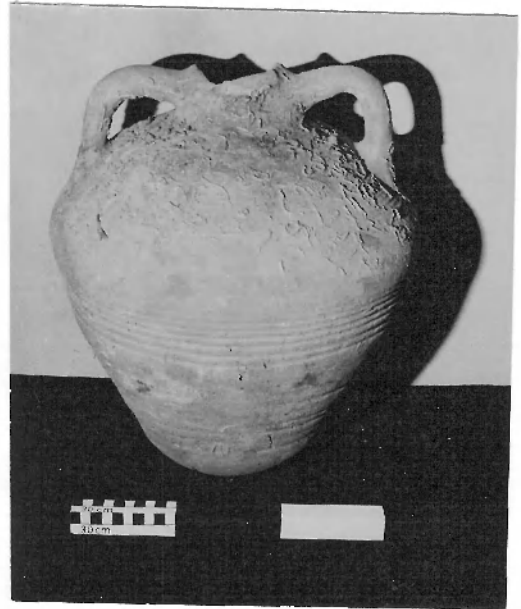


2c

PL. XXVI



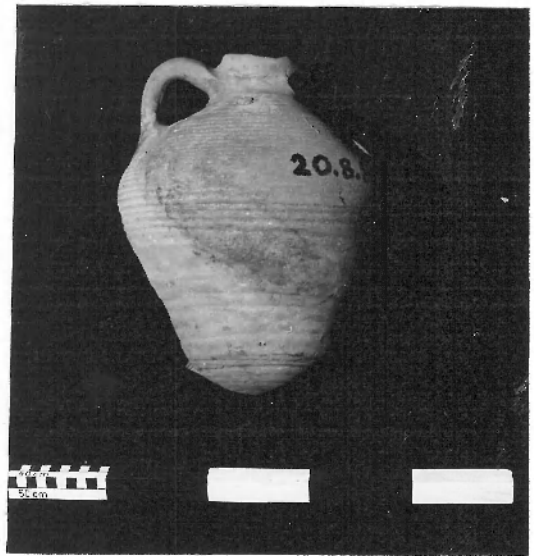
1



2



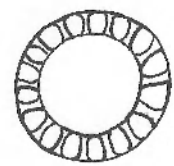
3



4a



b



c

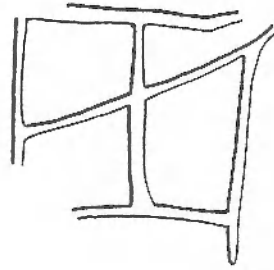
PL. XXVII



1a



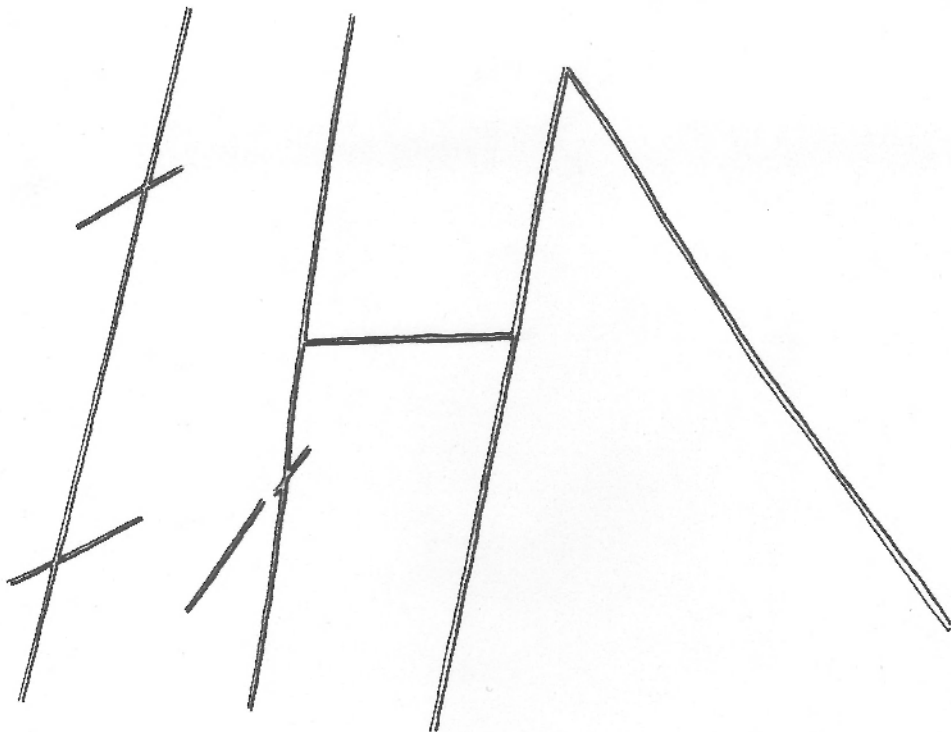
b



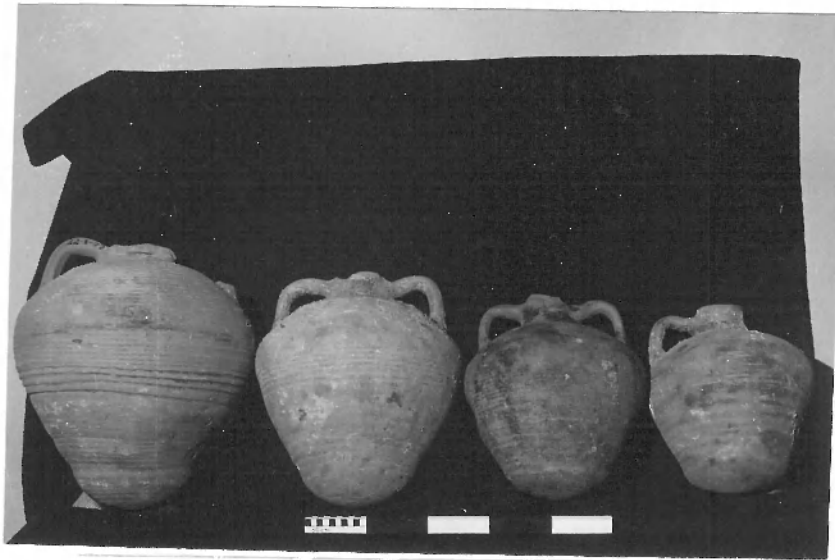
c



d



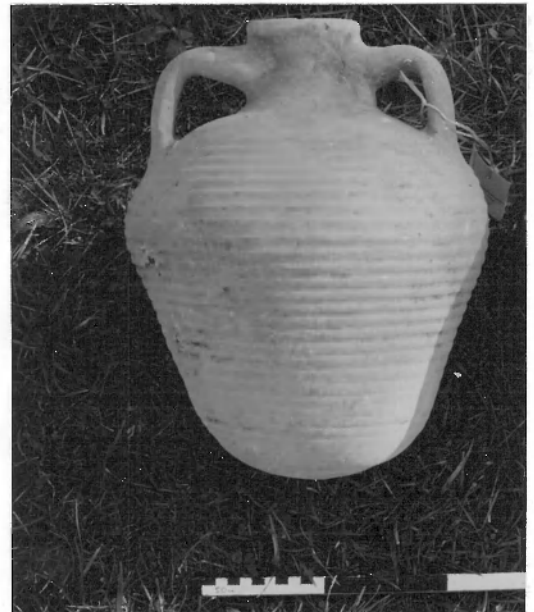
e



1 (l'ensemble de : pl. XXVI/1-2-3, pl. XXVII/1).



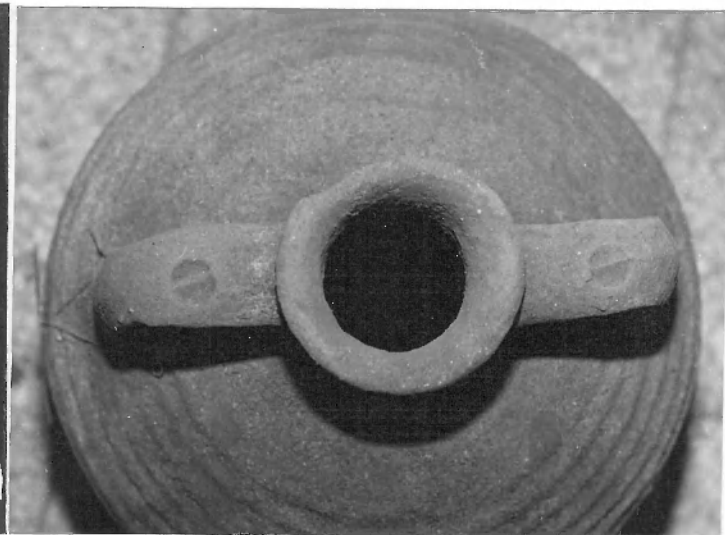
2



3



4a



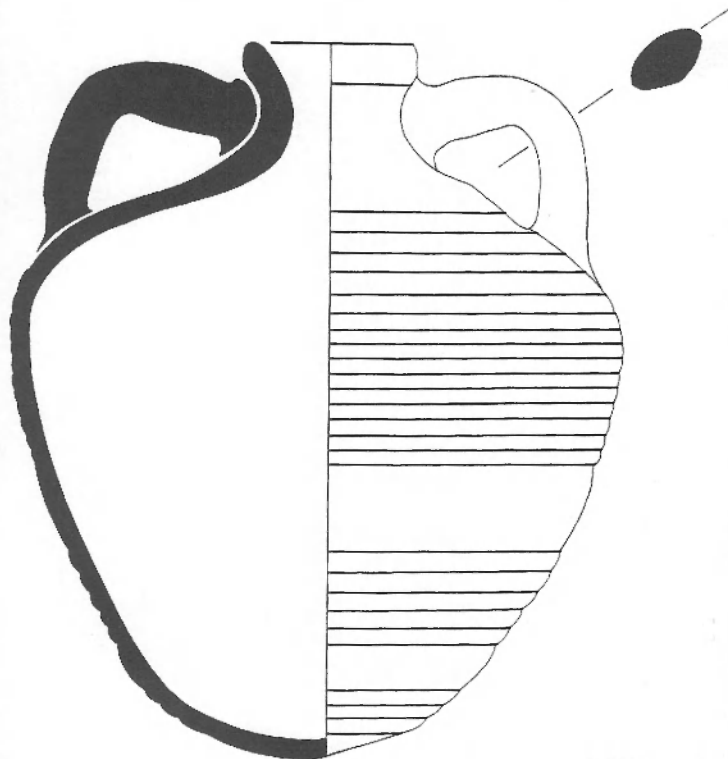
b



PL. XXIX

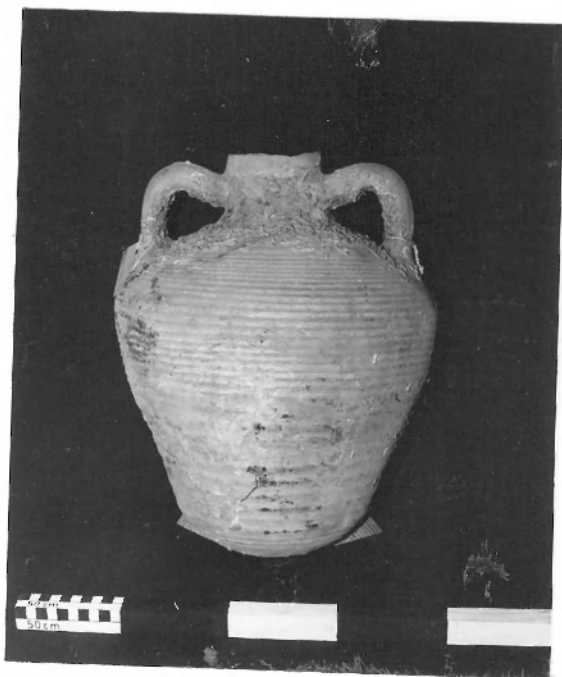


1a



SAMSUN 9.5.1981

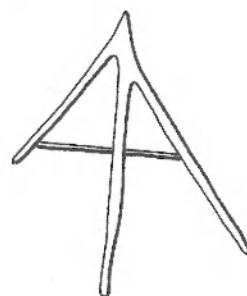
1b



2a

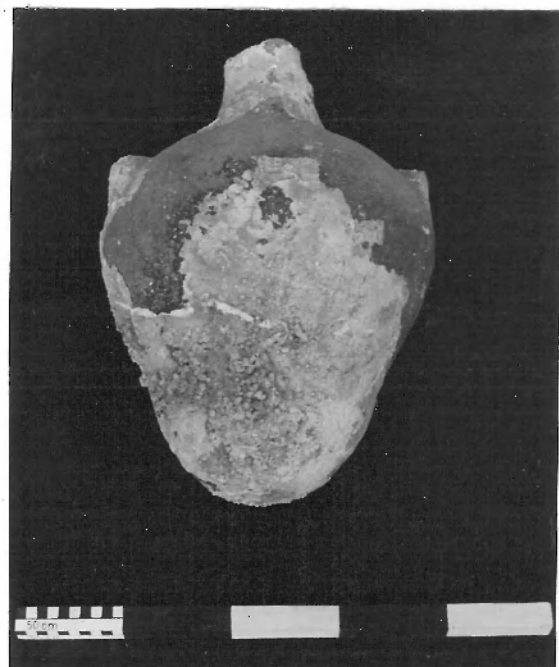


2b

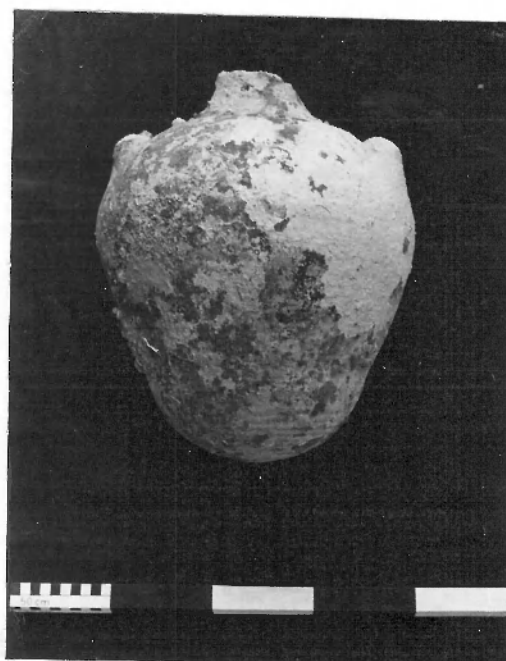


2c

PL. XXX



1



2



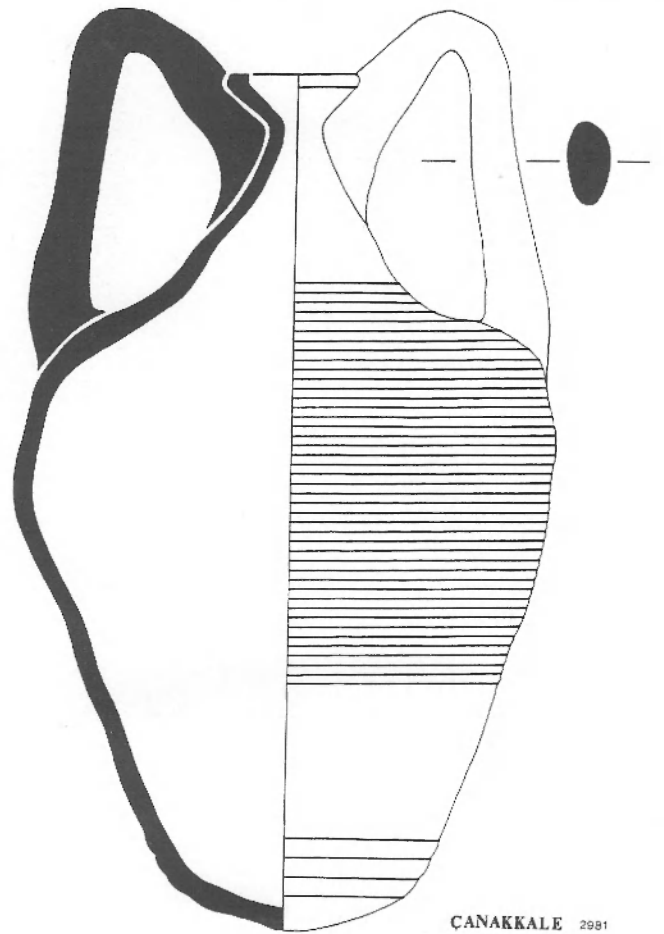
3



PL. XXXI

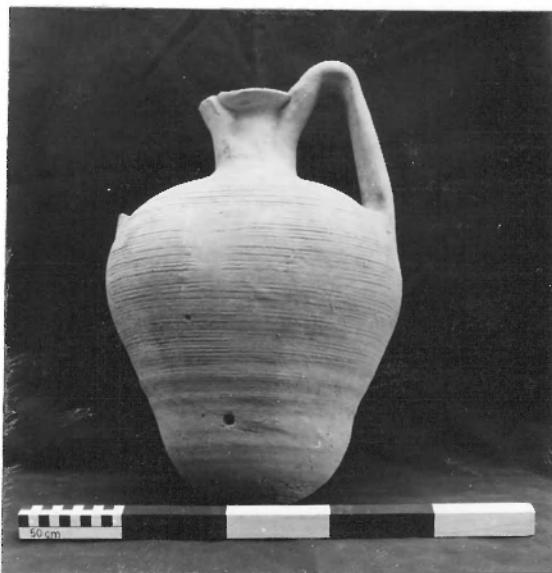


1a

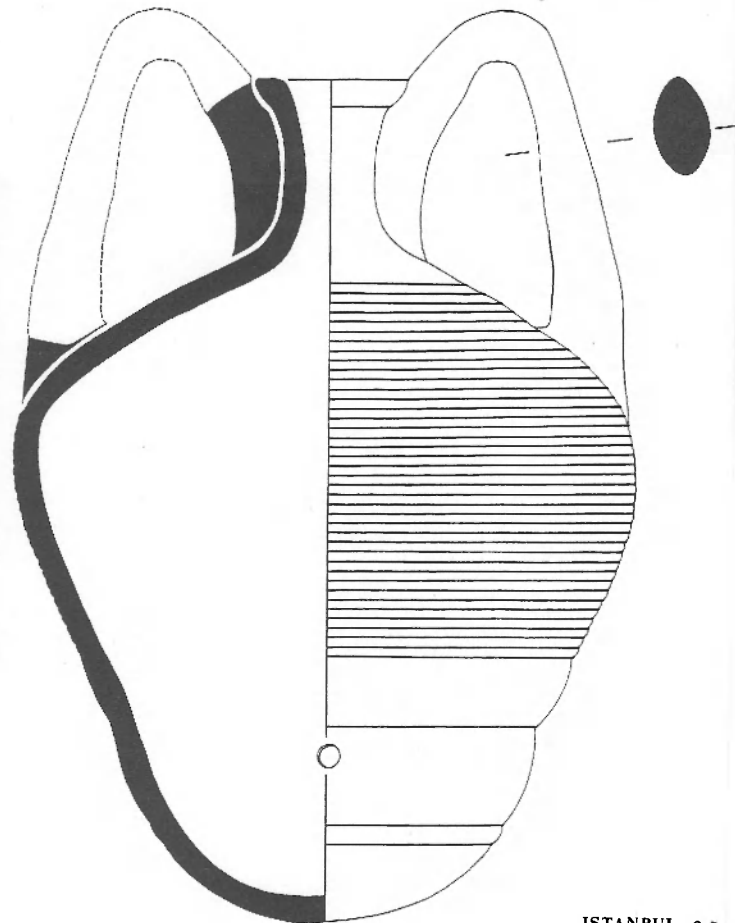


1b

CANAKKALE 2981

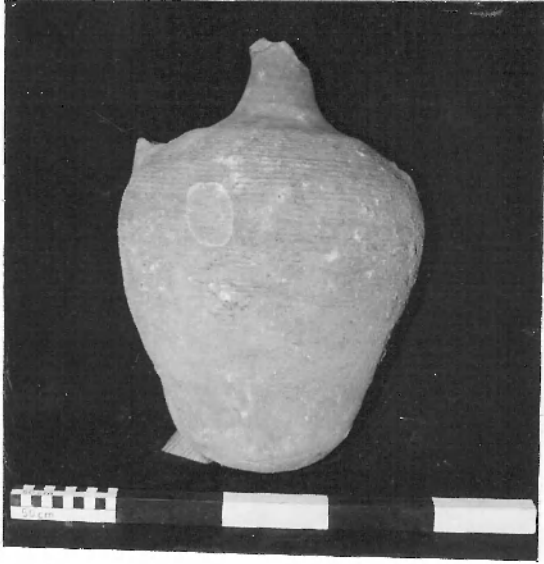


2a

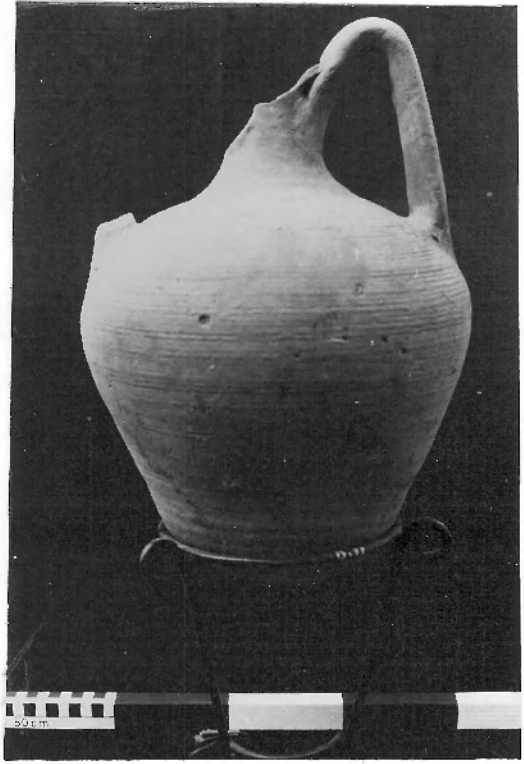


2b

ISTANBUL C.B.



1



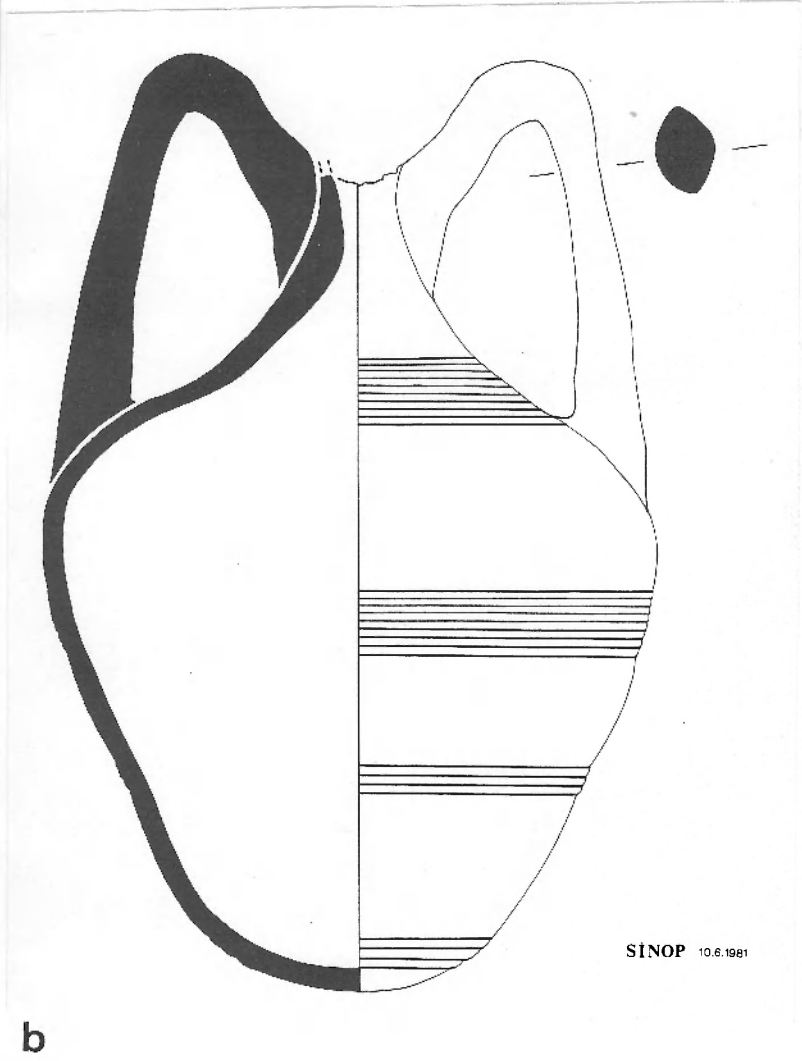
2



3

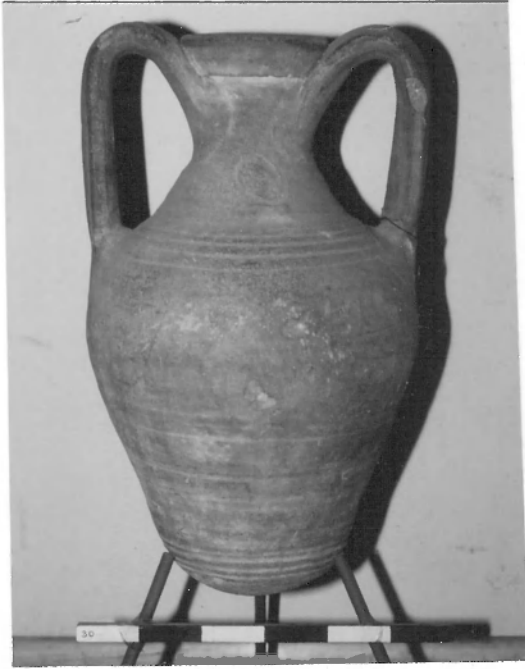


4a

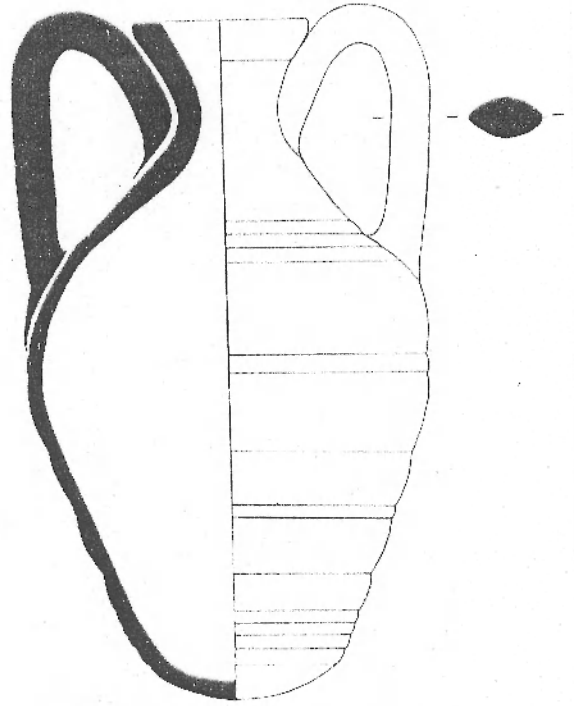


b

PL. XXXIII



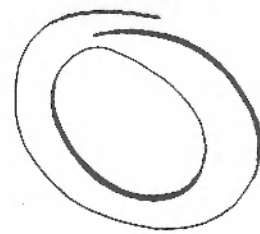
1a



b GÜNSENİN 1989; fig. 5, ech. 1/5.

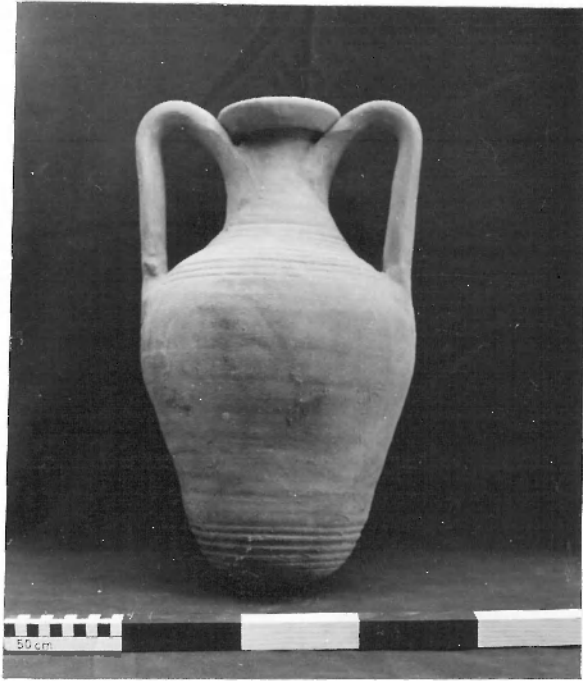


c

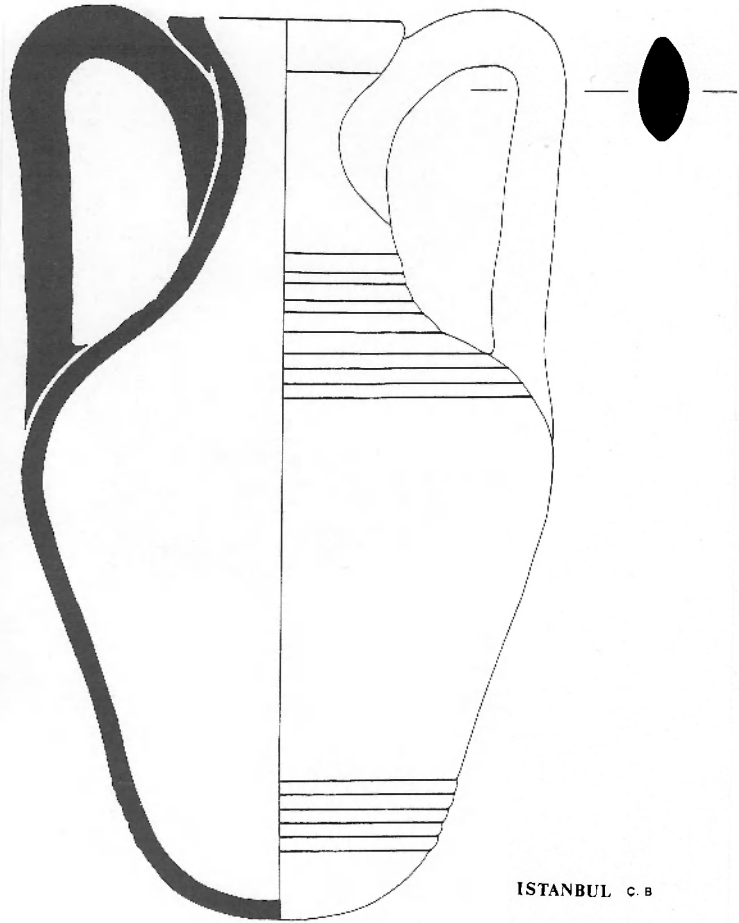


d

PL. XXXIV

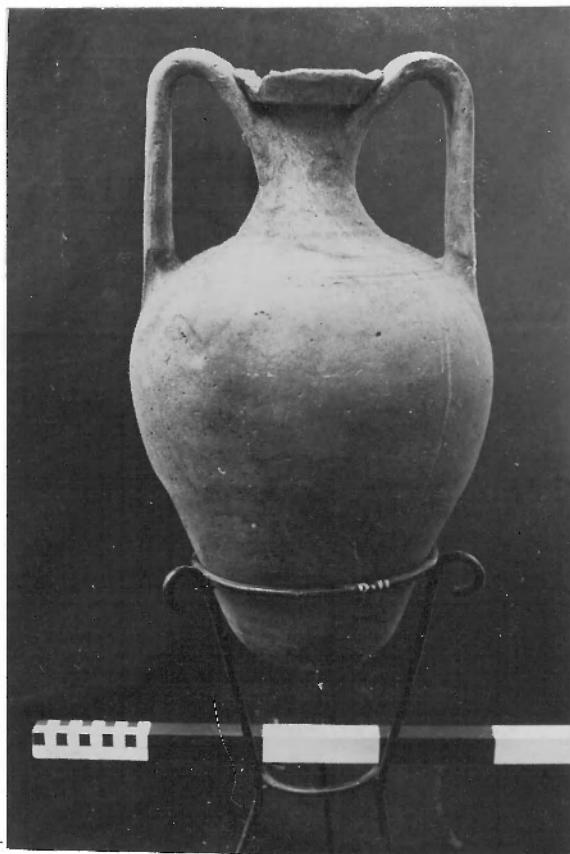


1a

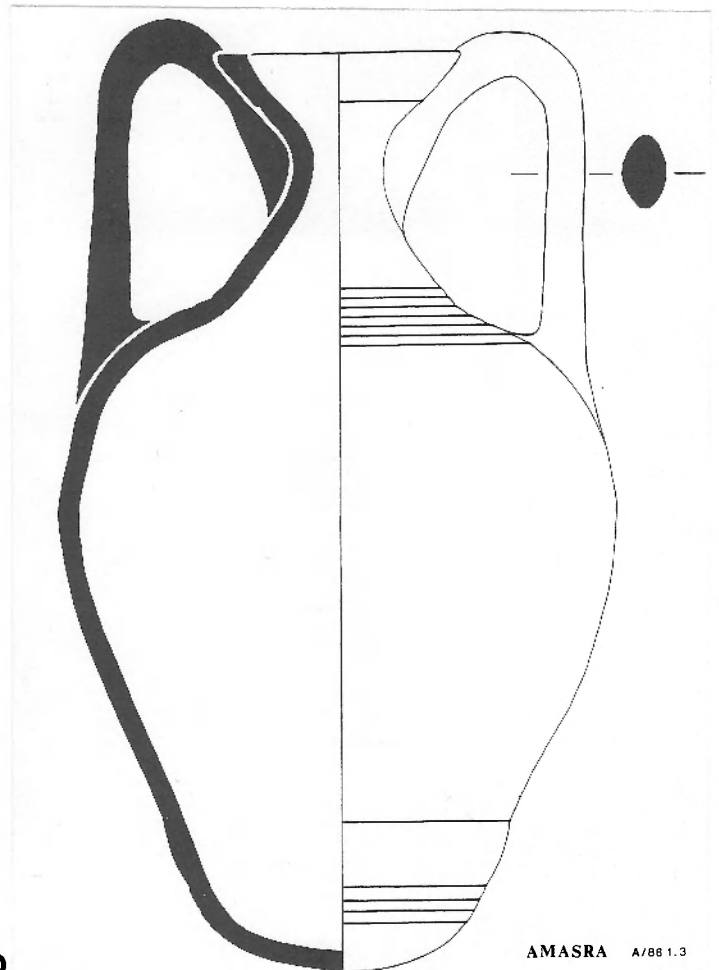


1b

ISTANBUL c. B



2a



2b

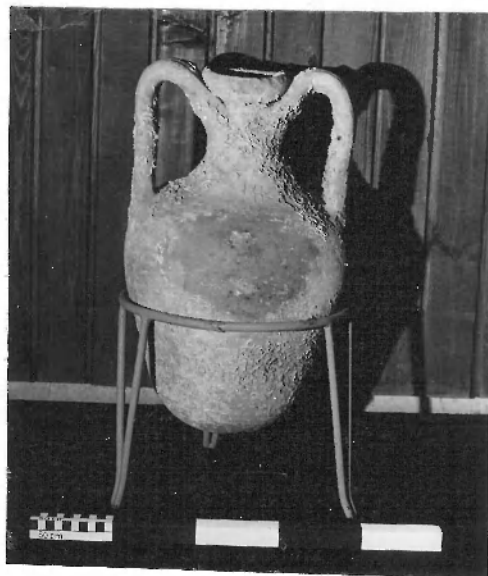
AMASRA A/88 1.3



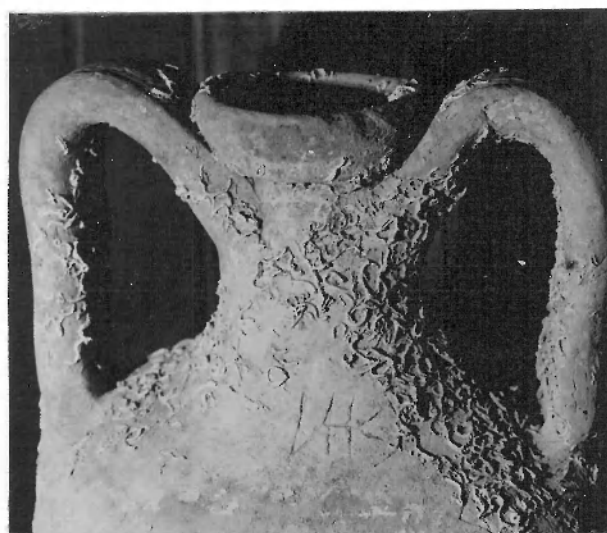
1



2



3a



b



c



d

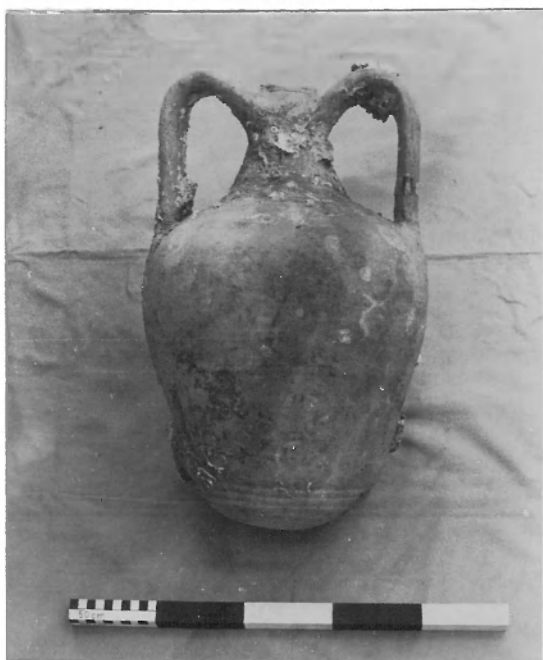
PL. XXXVI



1



2

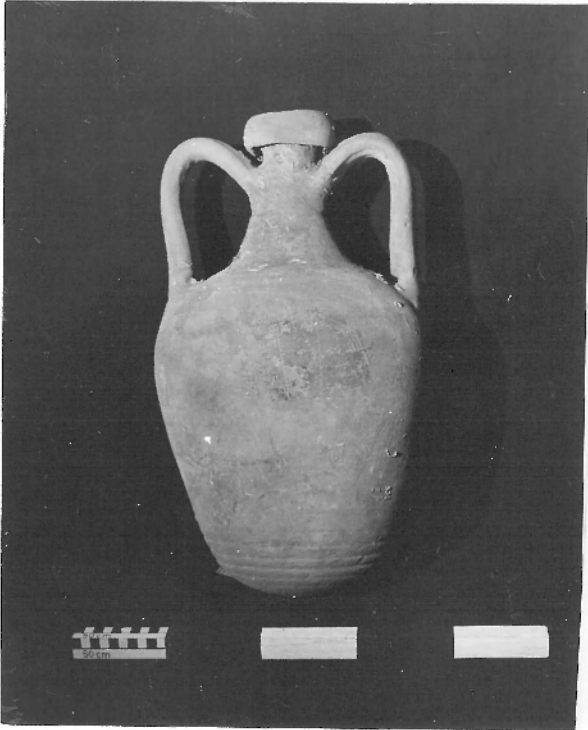


3

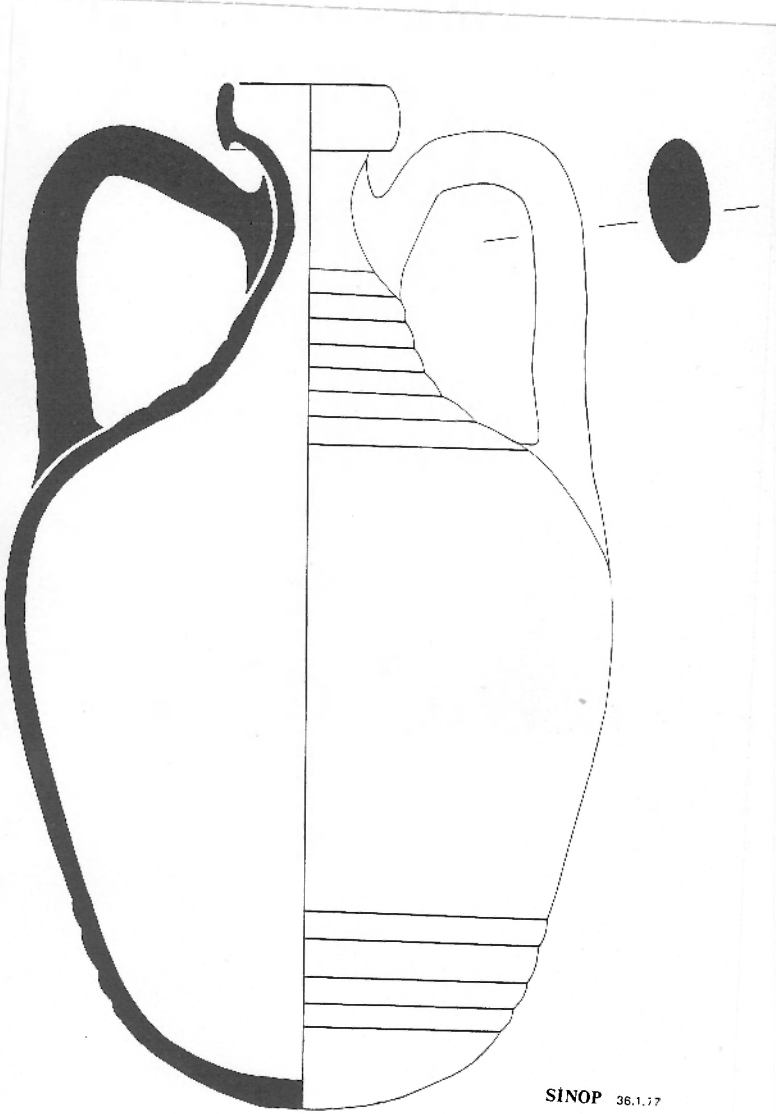


4

PL. XXXVII



1a



b

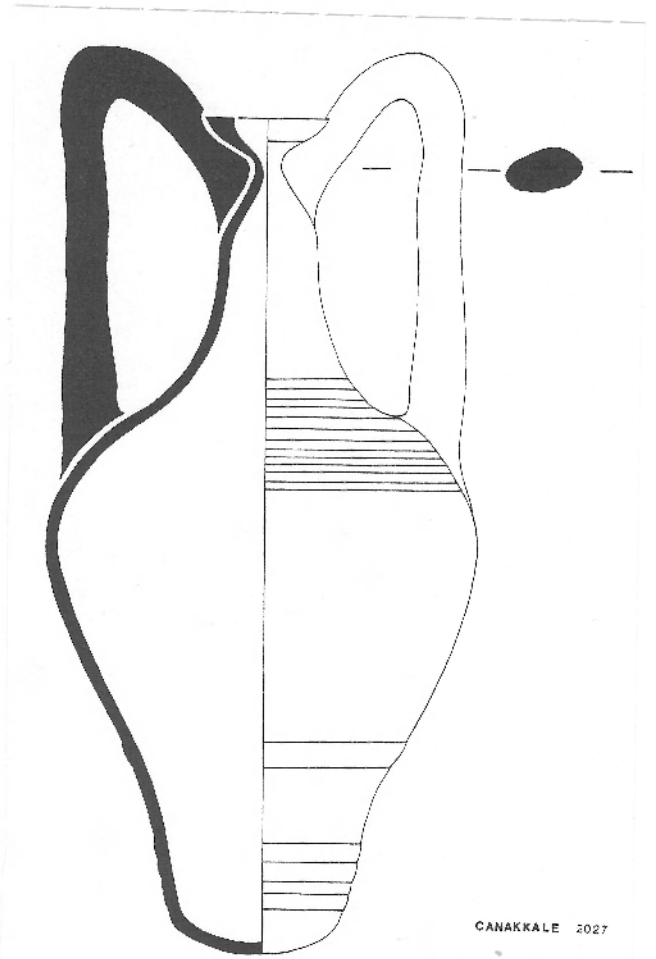
SINOP 36.1.17



PL. XXXVIII

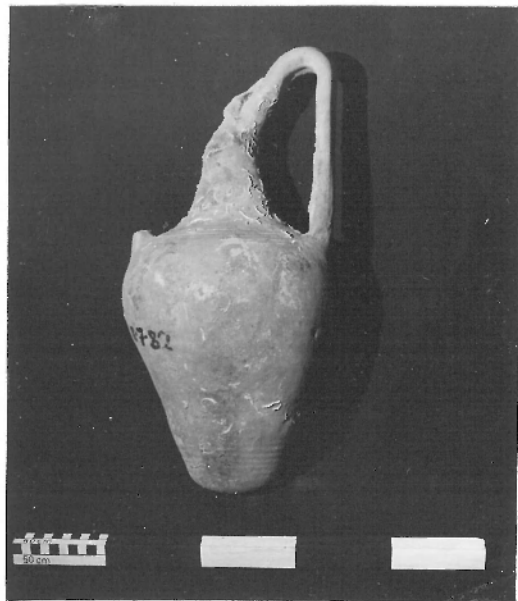


1a



b

CANAKKALE 2027



2





1



2



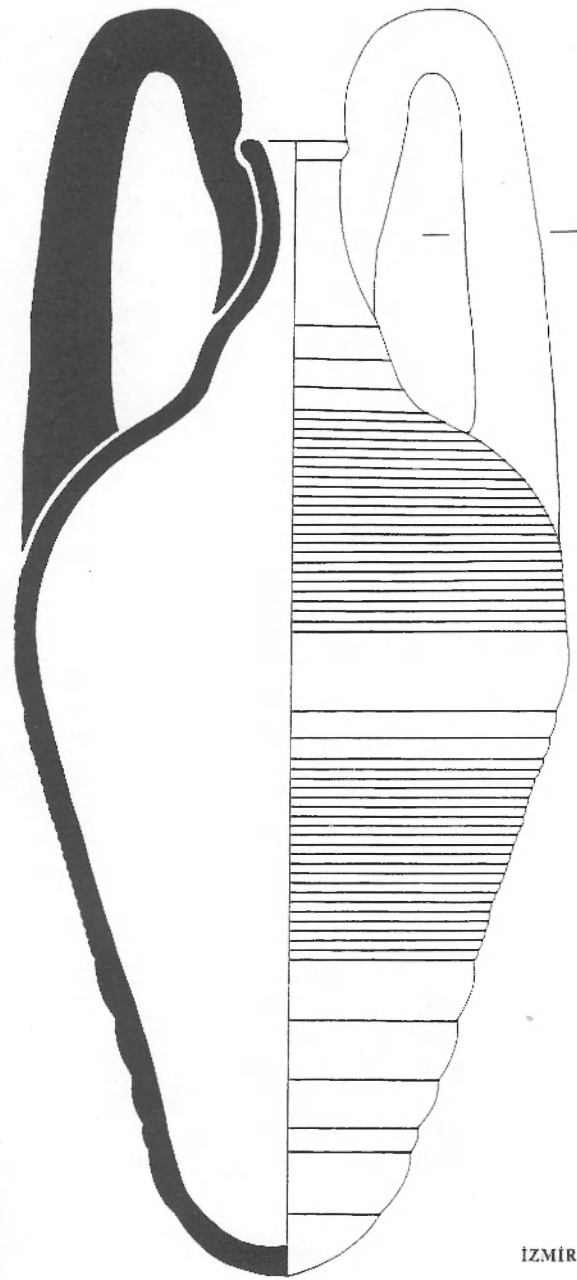
3a



b



1a

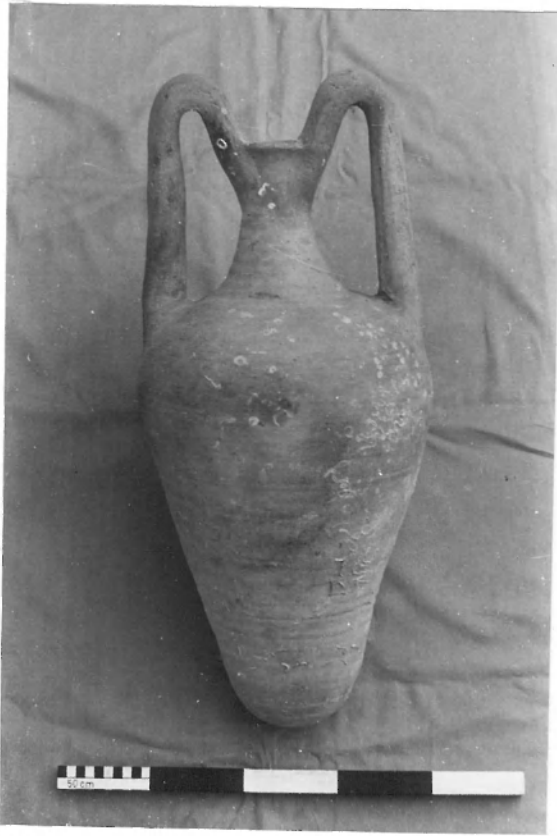


b

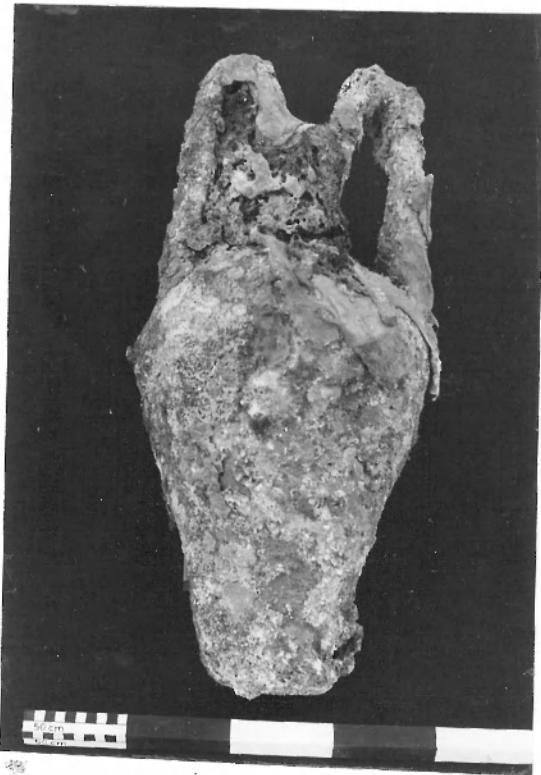
İZMİR 2719



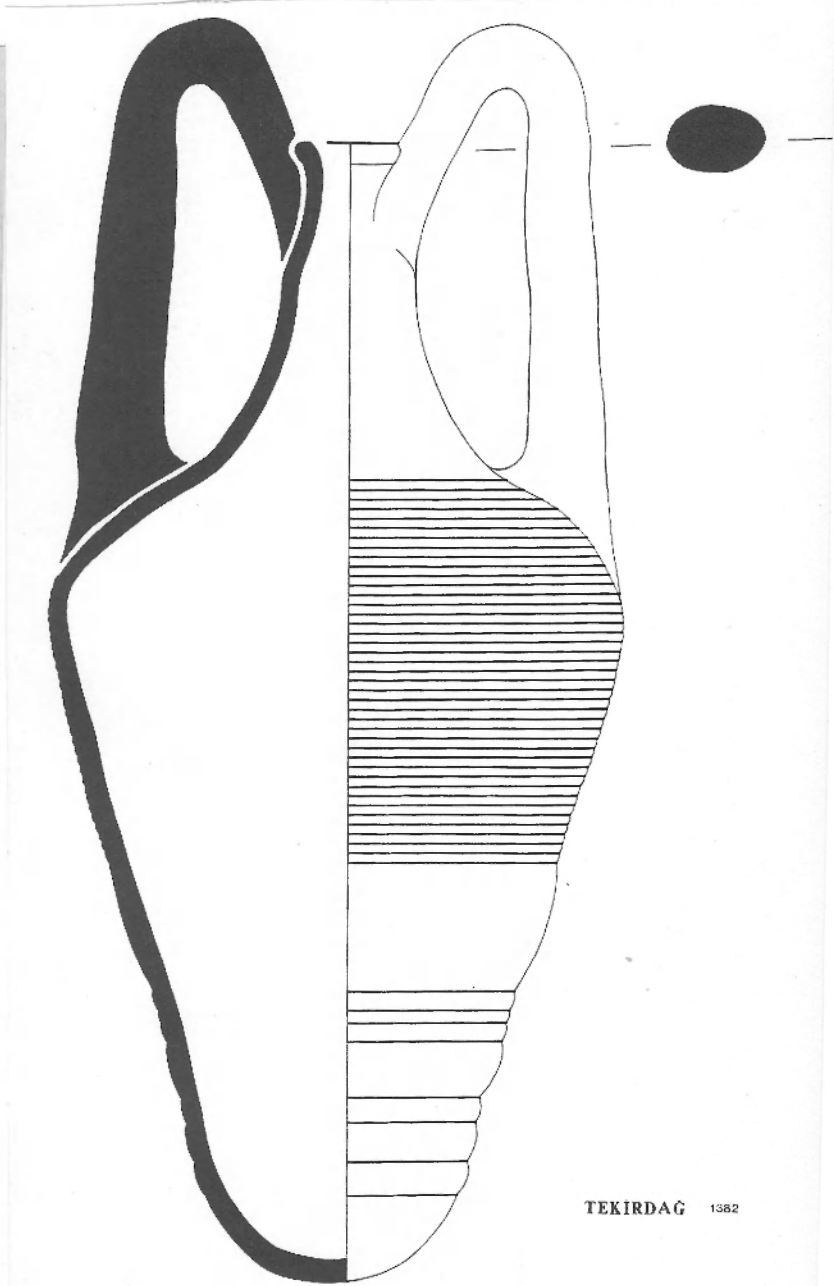
c



1a

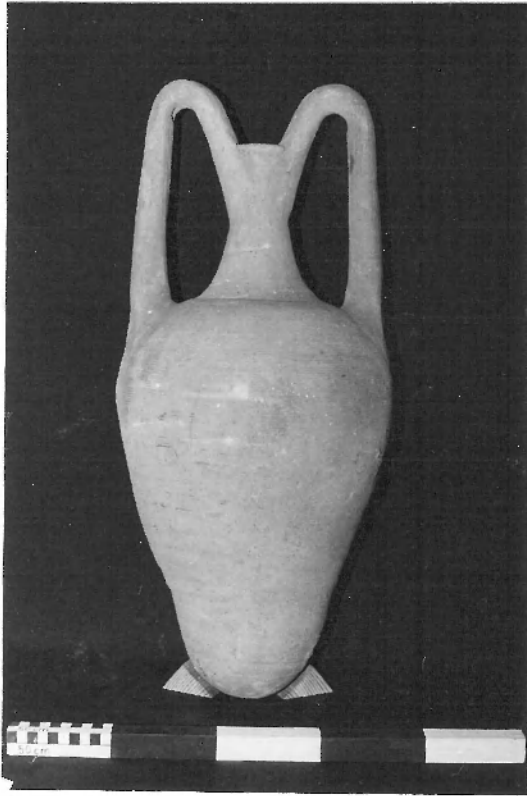


2

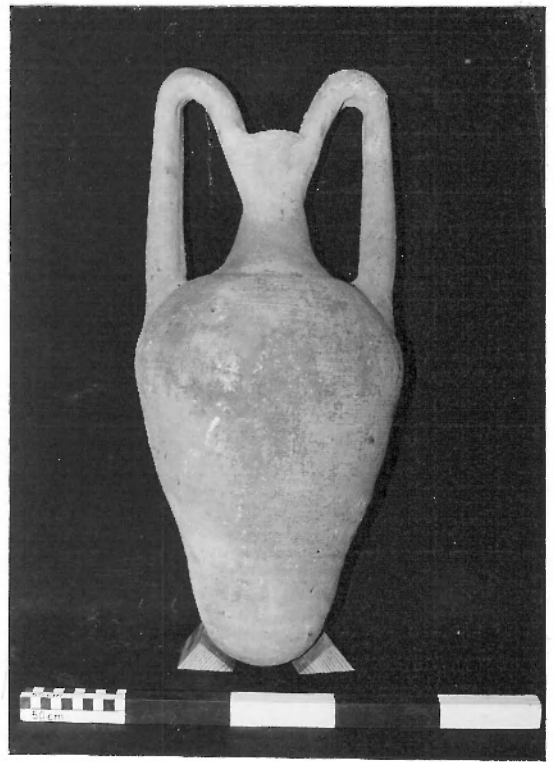


b

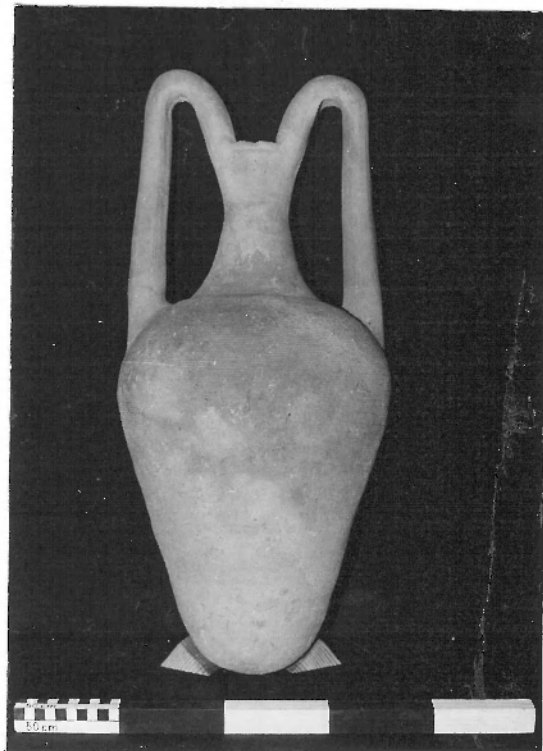
TEKIRDAG 1382



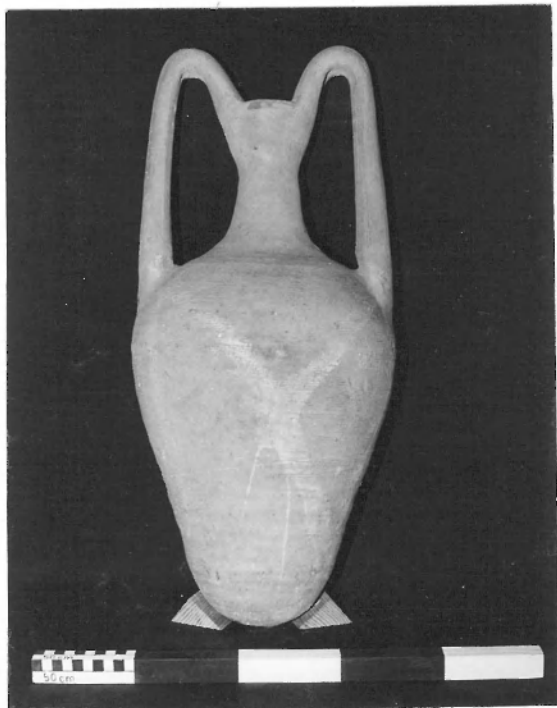
1



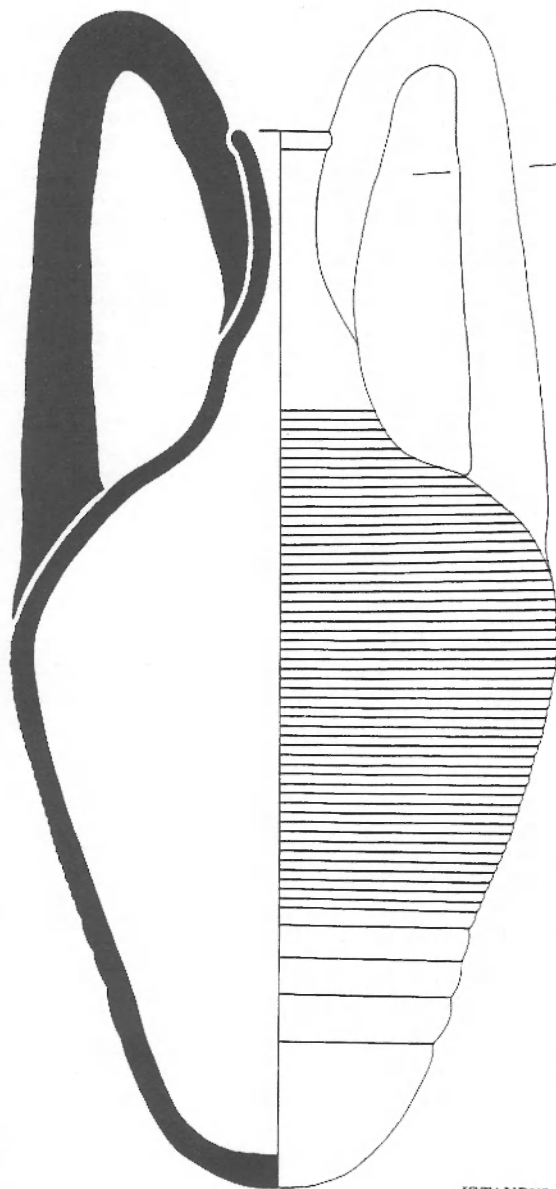
2



3



1a



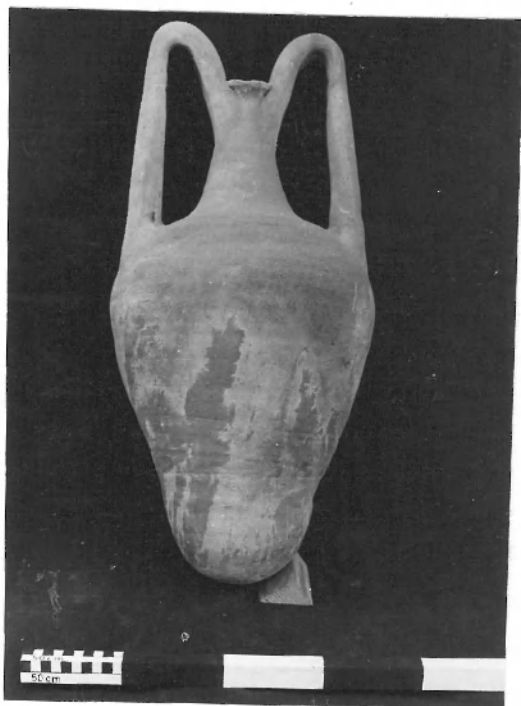
ISTANBUL FATİH 86.19



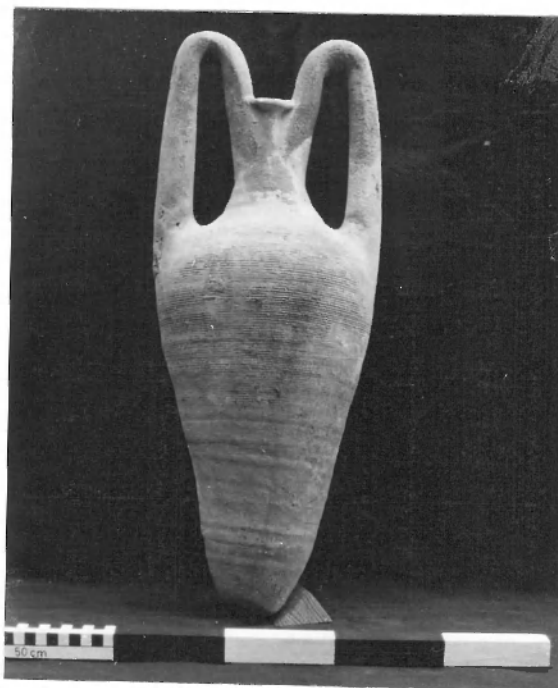
2

b

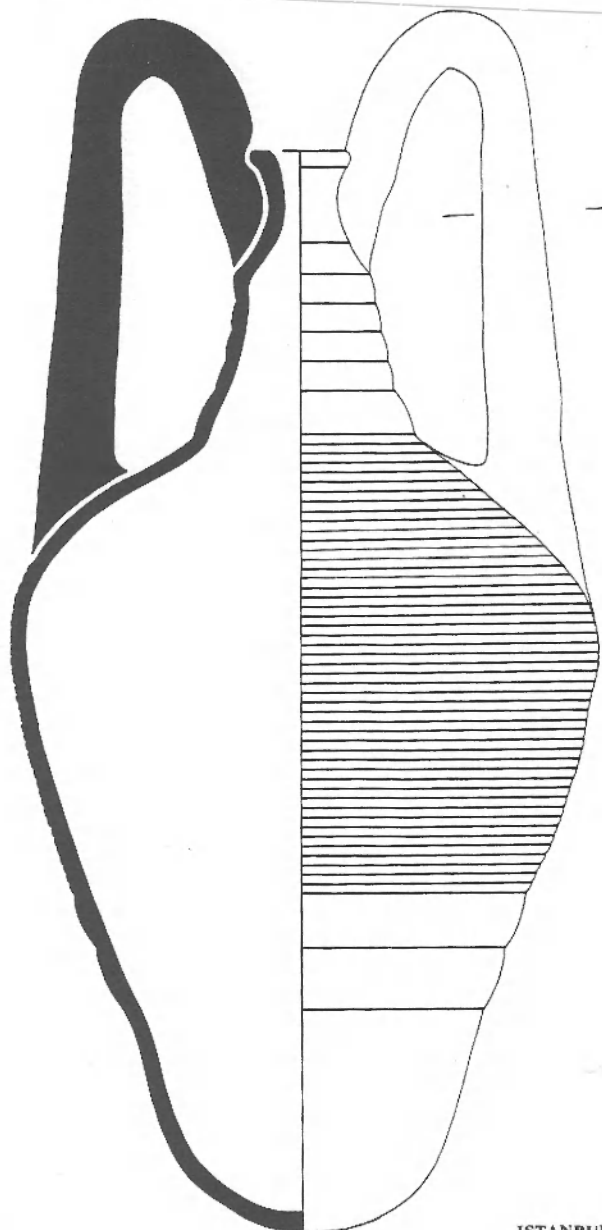
PL. XLIV



1a

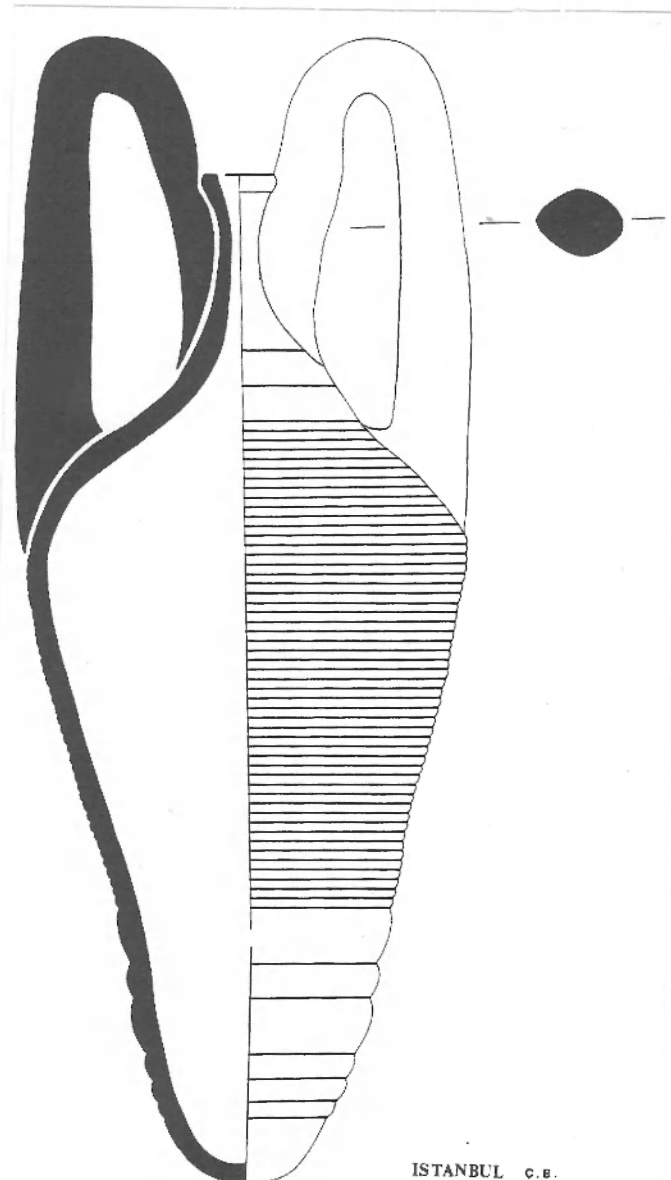


2a



ISTANBUL ç.B.

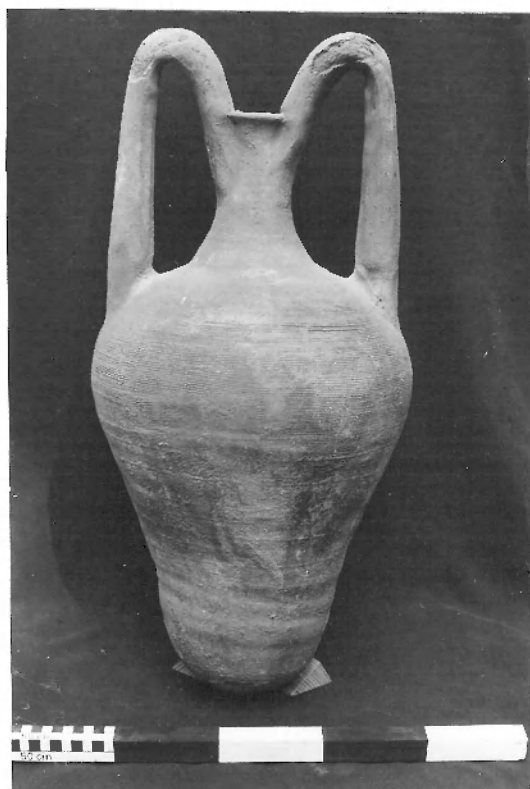
1b



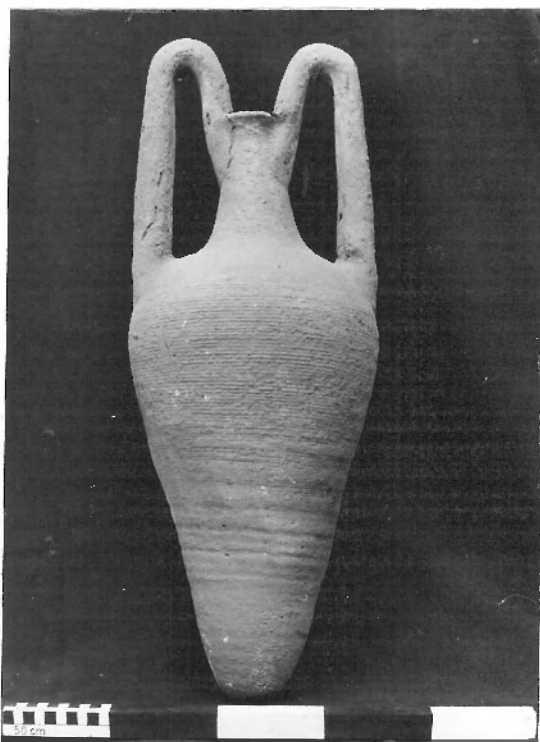
ISTANBUL ç.B.

2b

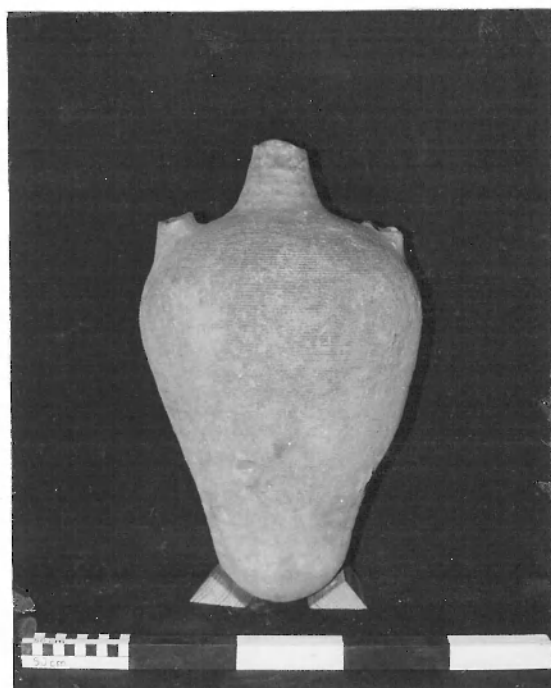




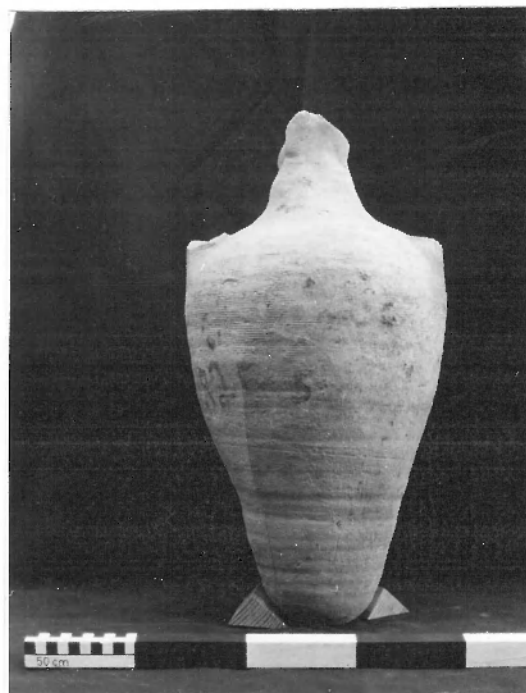
1



2



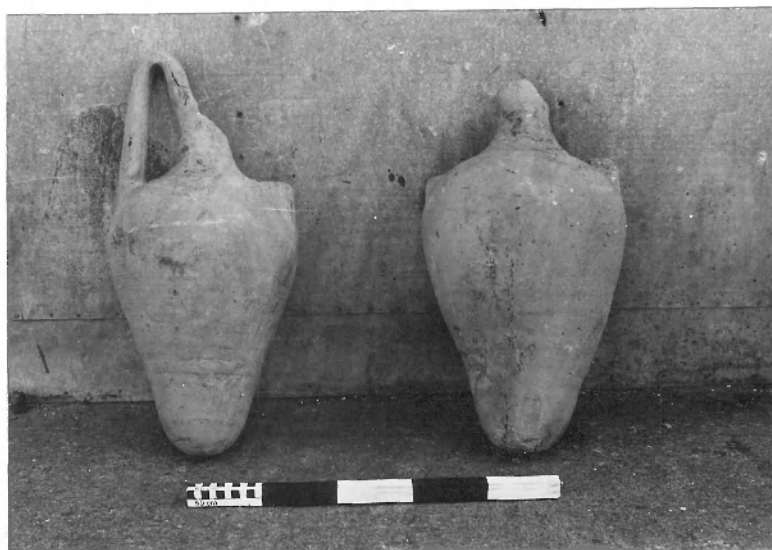
3



4



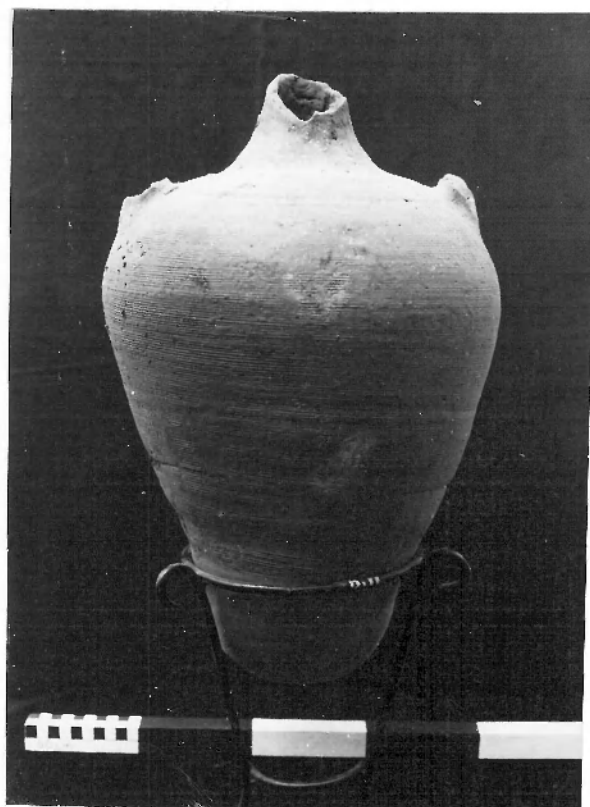
PL. XLVI



1a-b

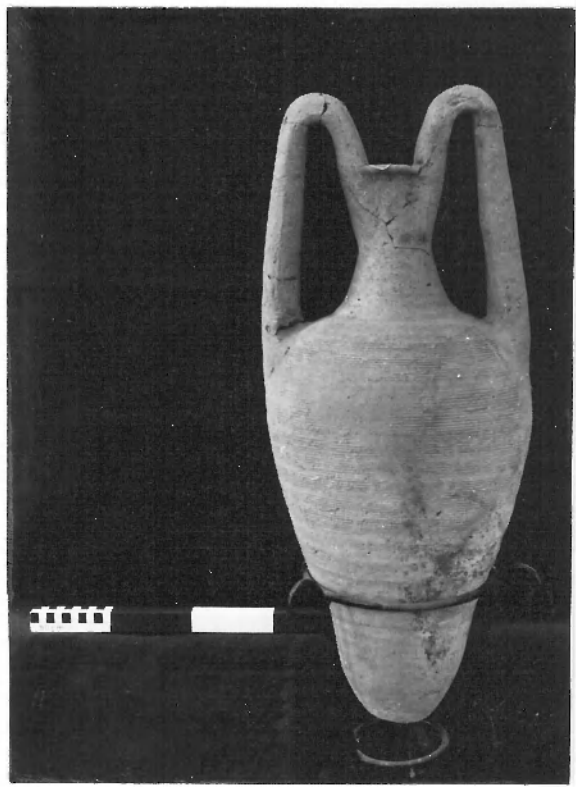


2

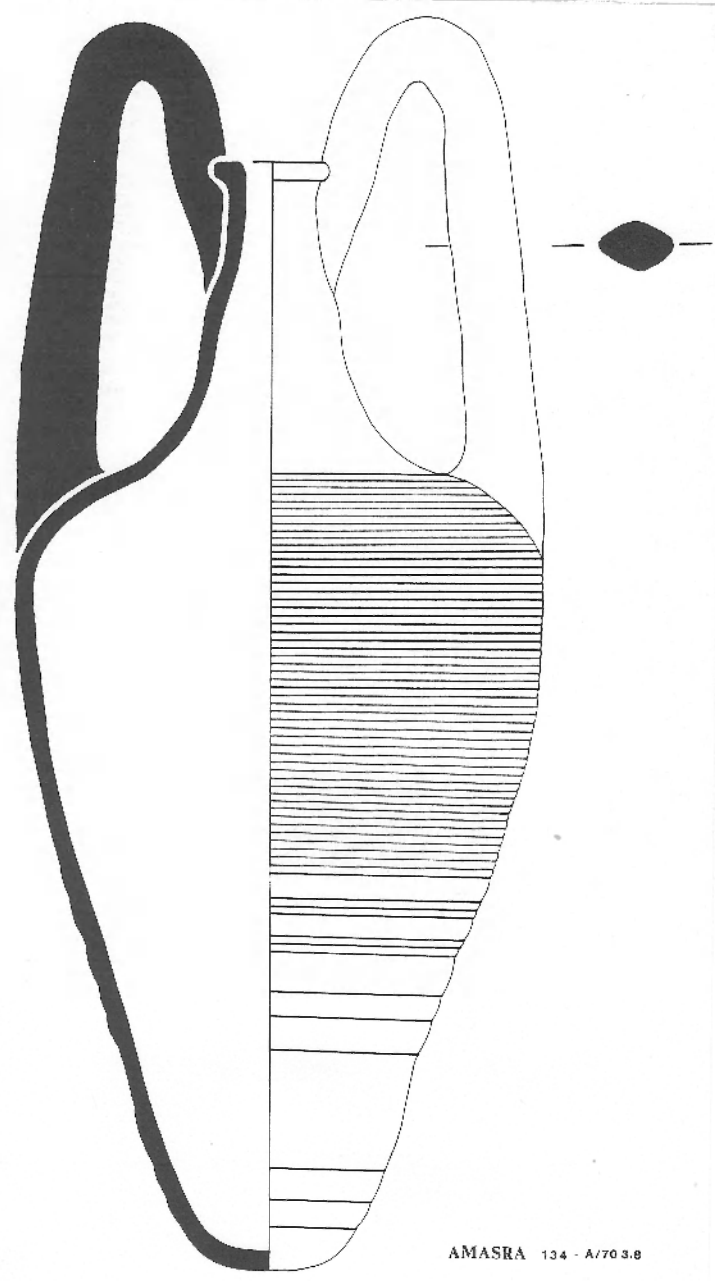


3

PL. XLVII



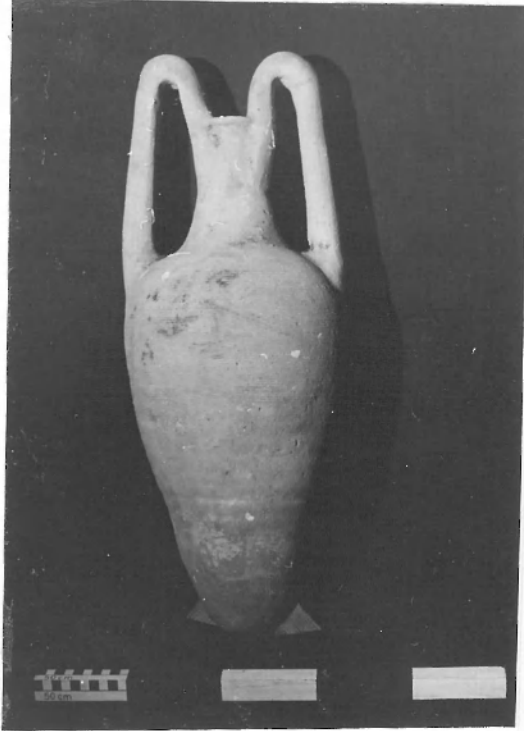
1a



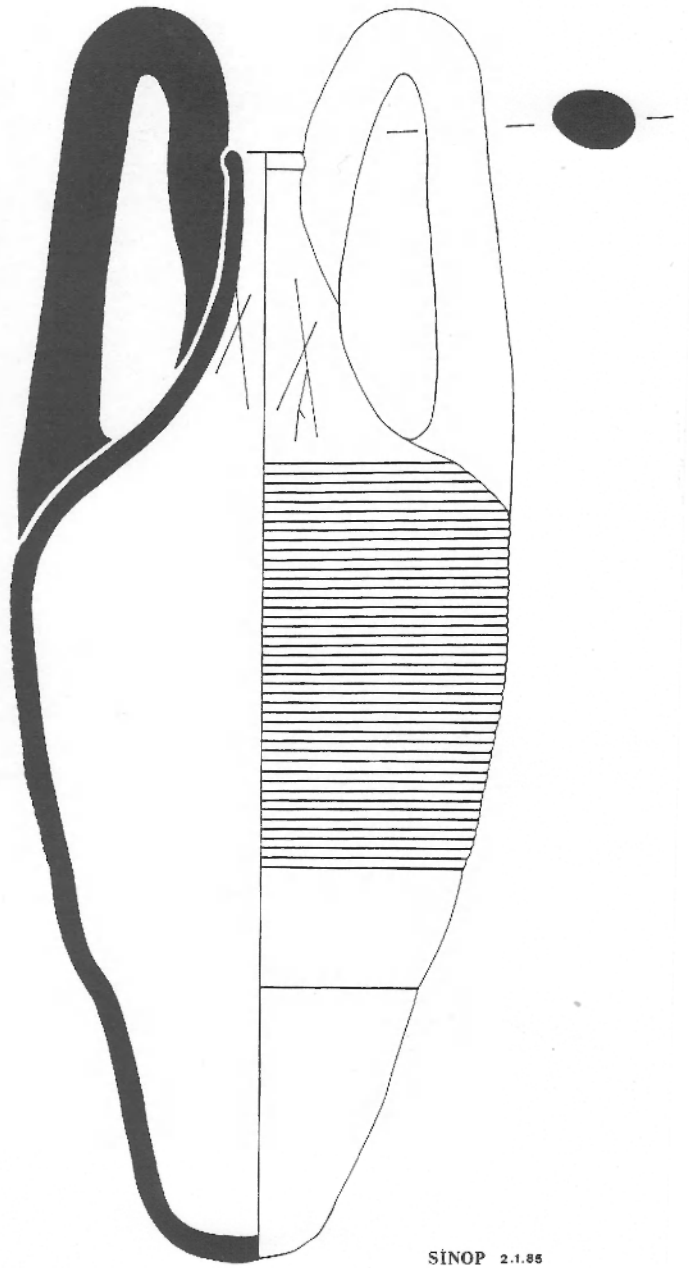
b

AMASRA 134 - A/70 3.8

PL. XLVIII

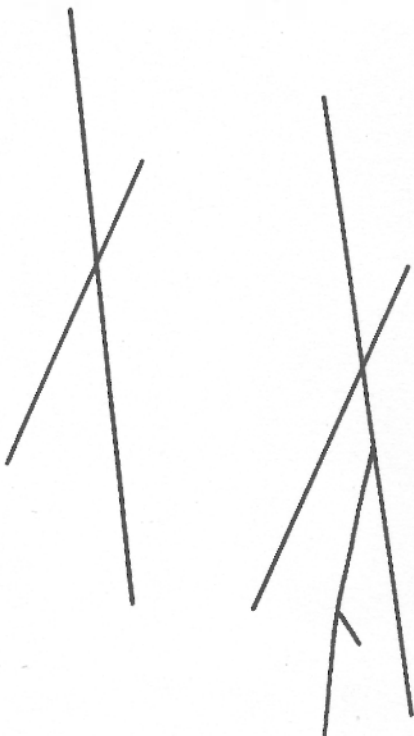


1a



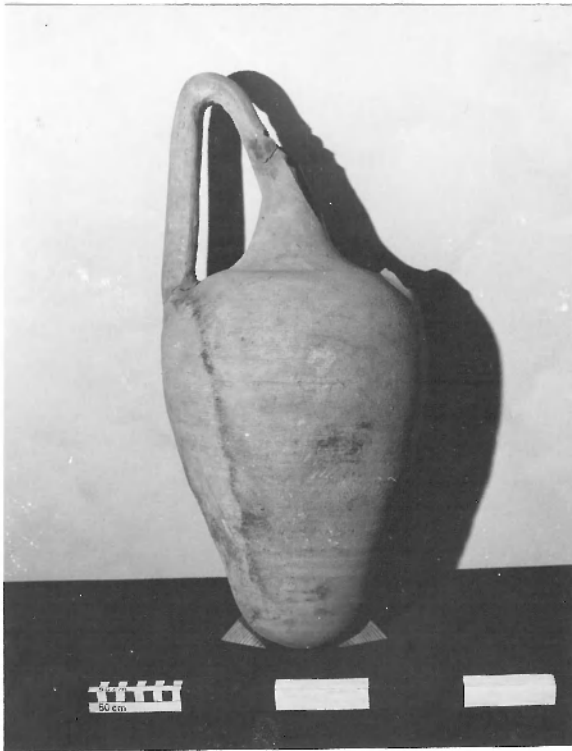
b

SINOP 2.1.85

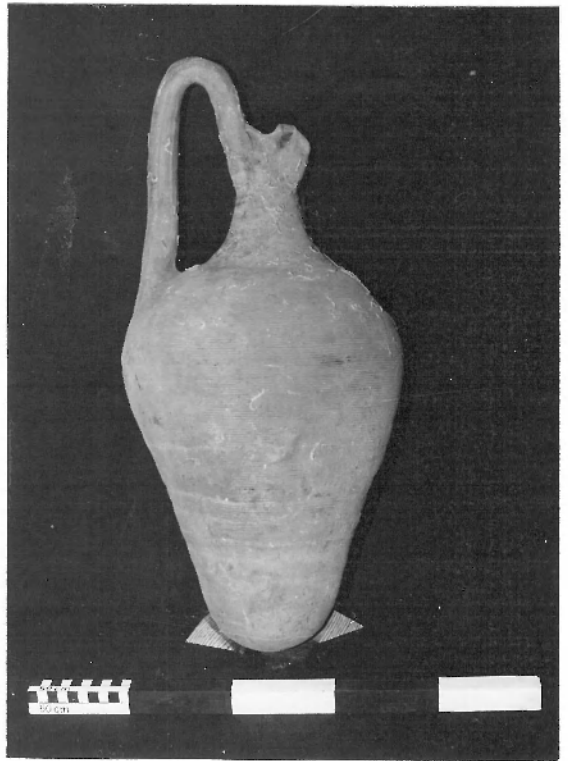


c

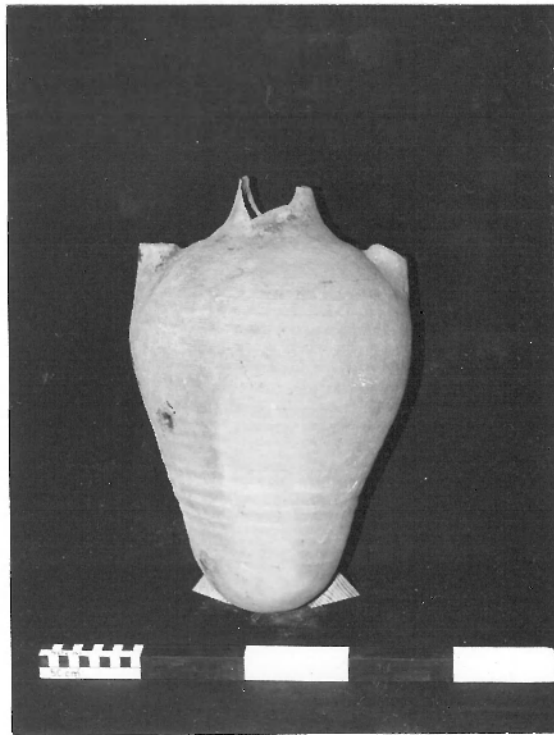
PL. XLIX



1

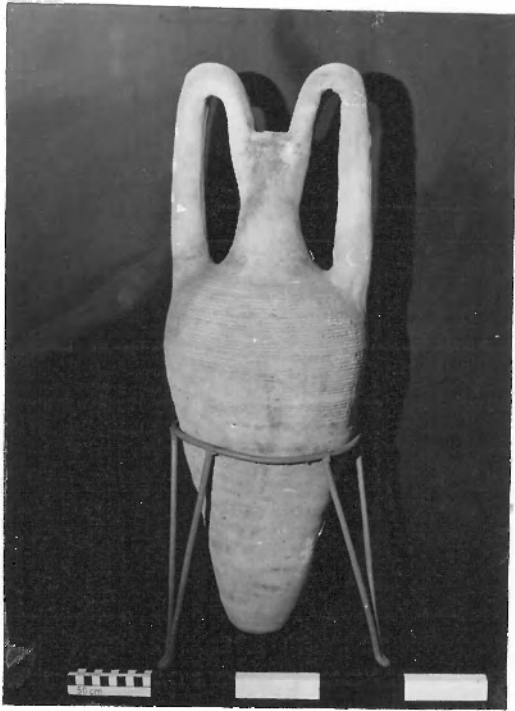


2

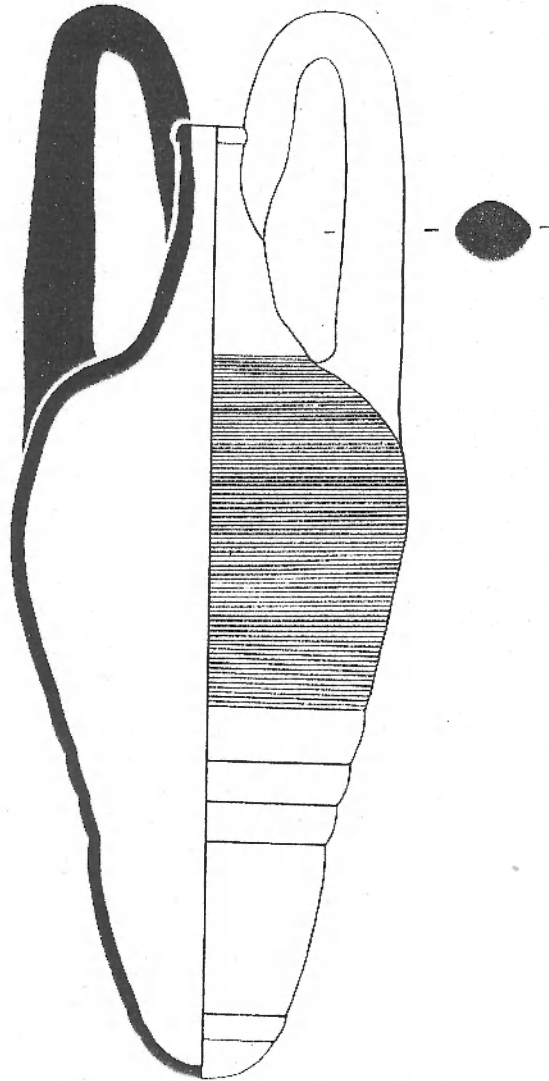


3

PL. L



1a



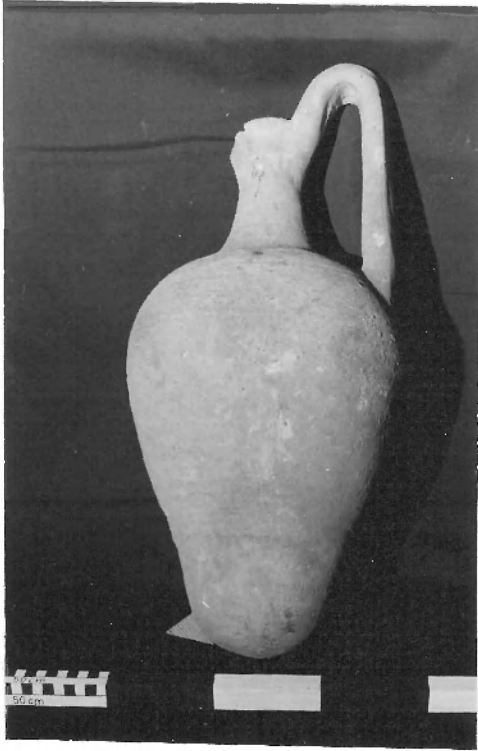
b



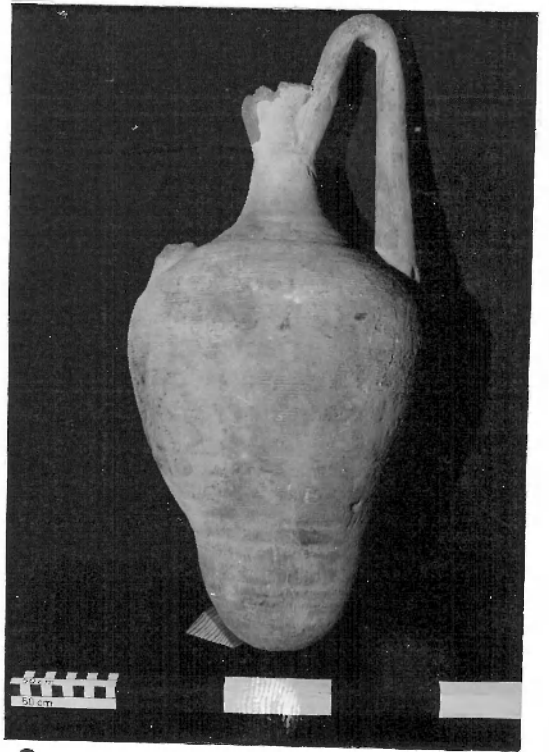
c

GÜNSENİN 1989; fig. 8, ech. 1/5.

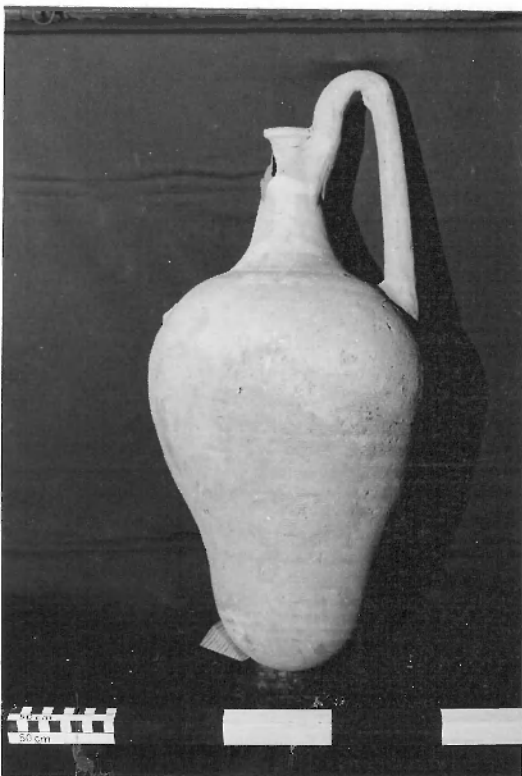
PL. LI



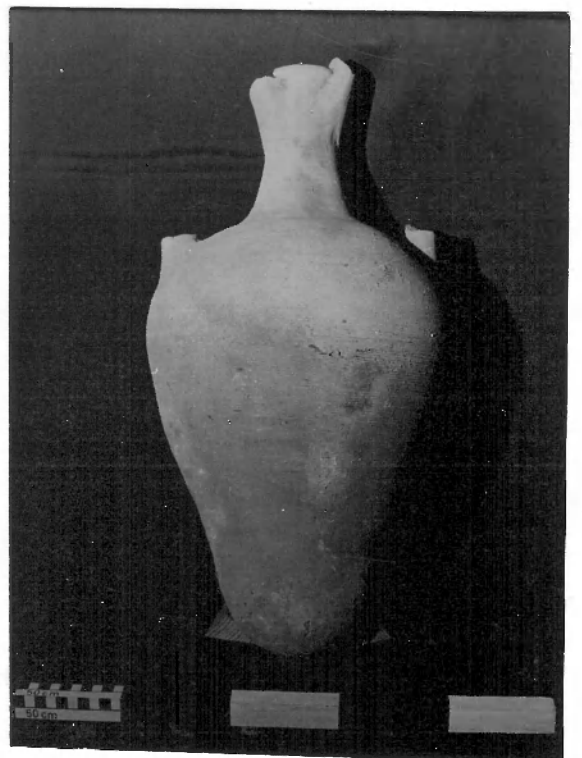
1



2

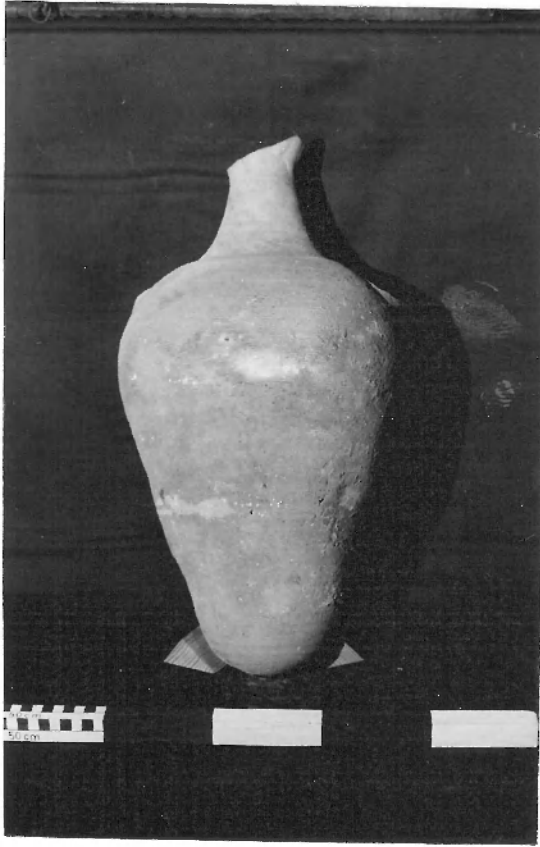


3

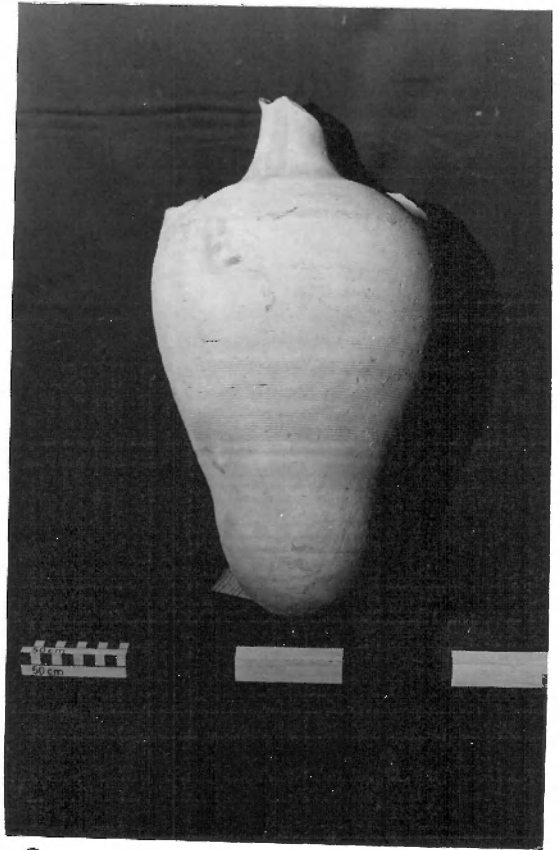


4

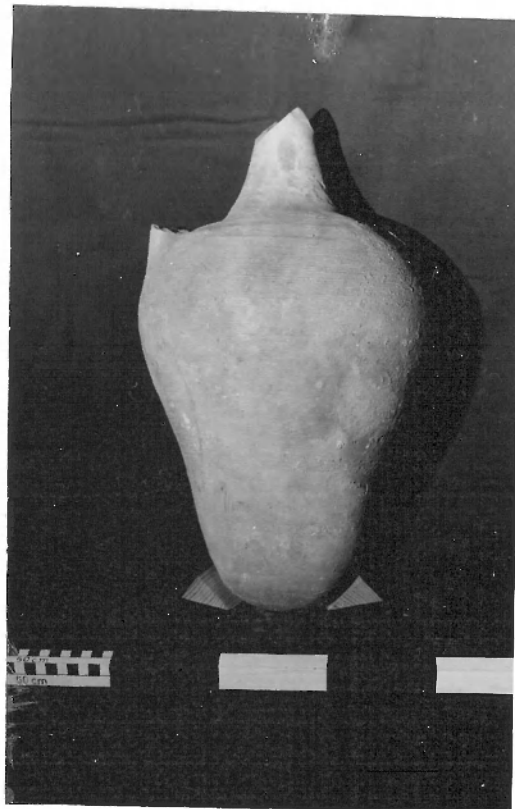
PL. LII



1



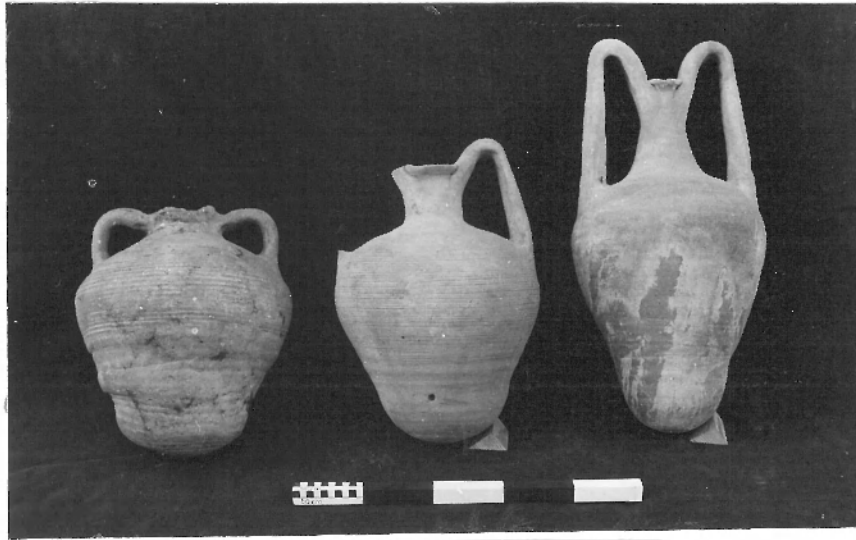
2



3



PL. LIII



1a-b-c (types : I, I-III, III)



2a-b-c-d (types : I, I-III, IIa, III)



1



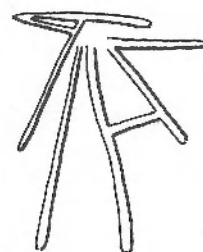
2



3a



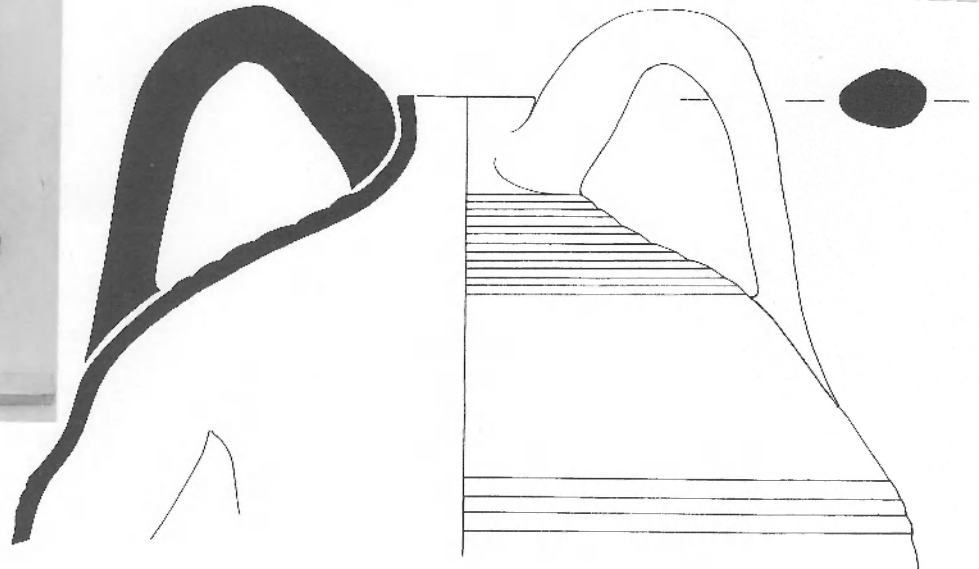
b



c

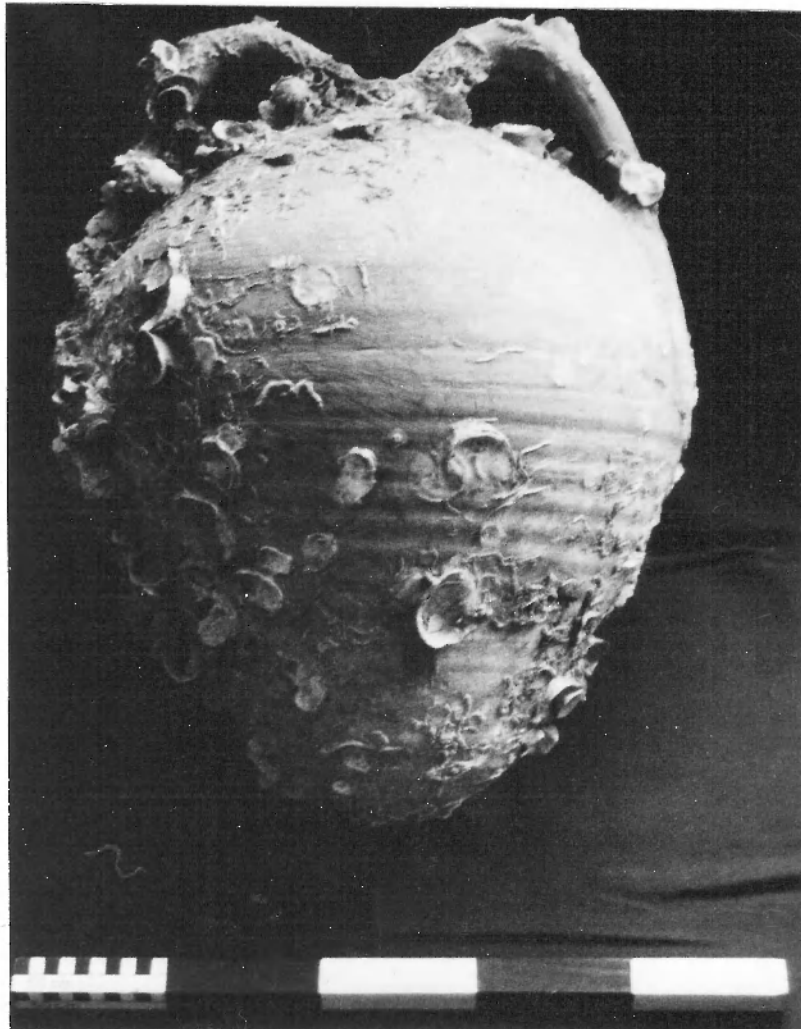


1a

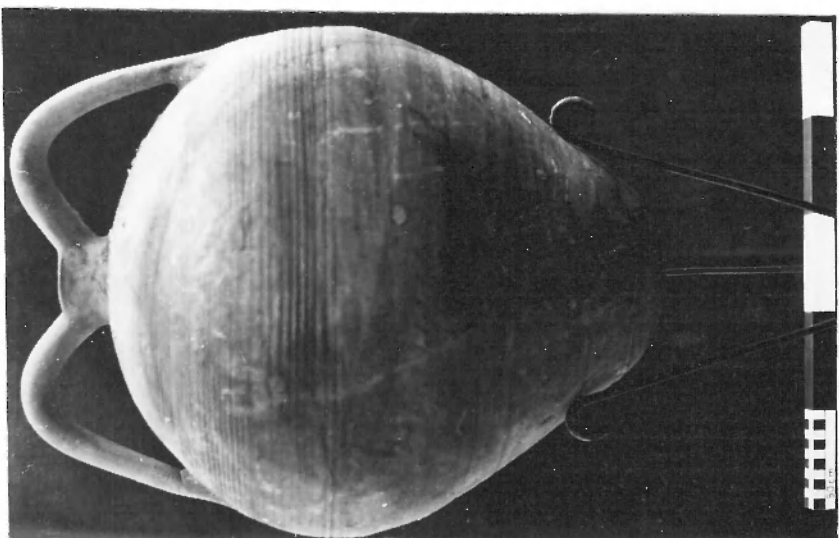


b

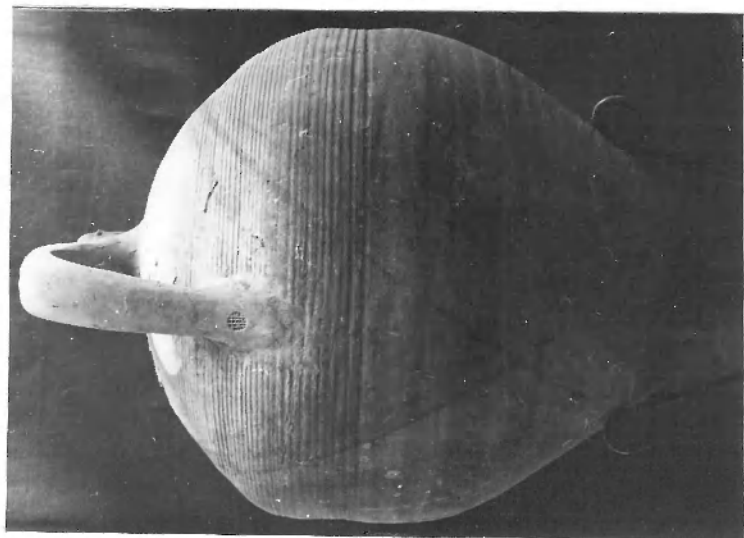
ÇANAKKALE



2



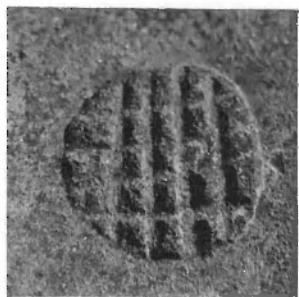
1a



b



c



d



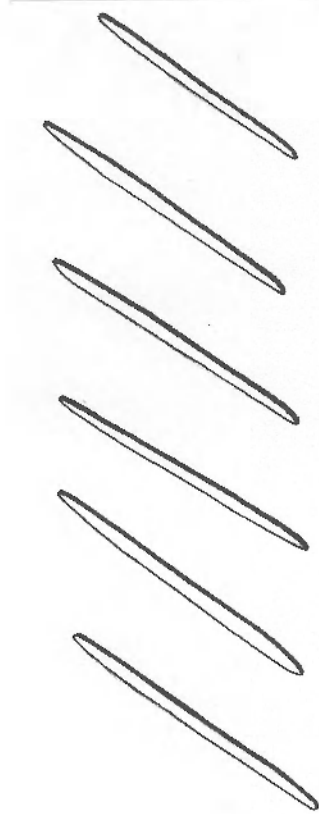
e



f



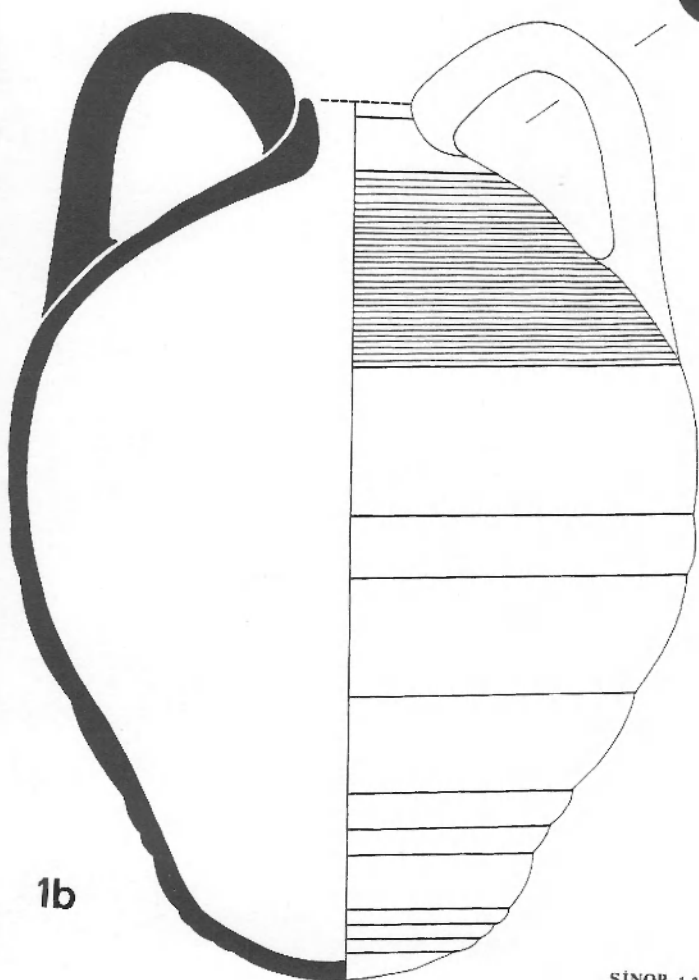
g



h

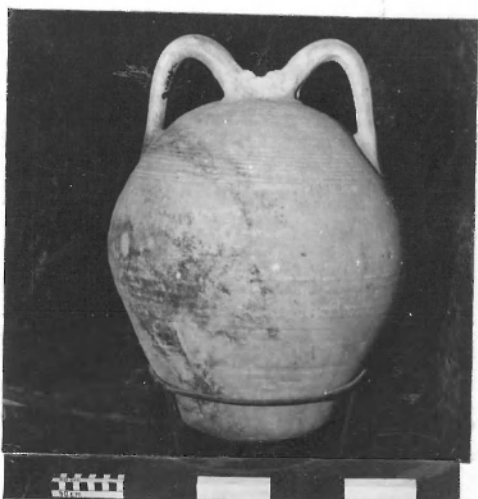


1a

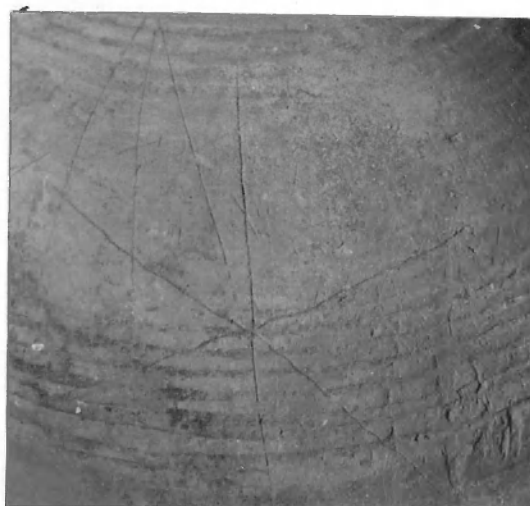


1b

SINOP 1.2.85



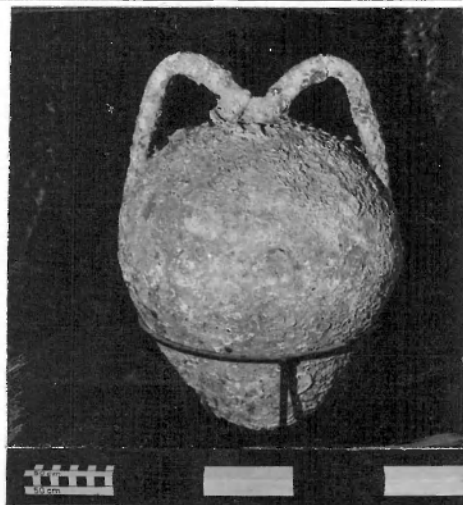
2a



2b



2c

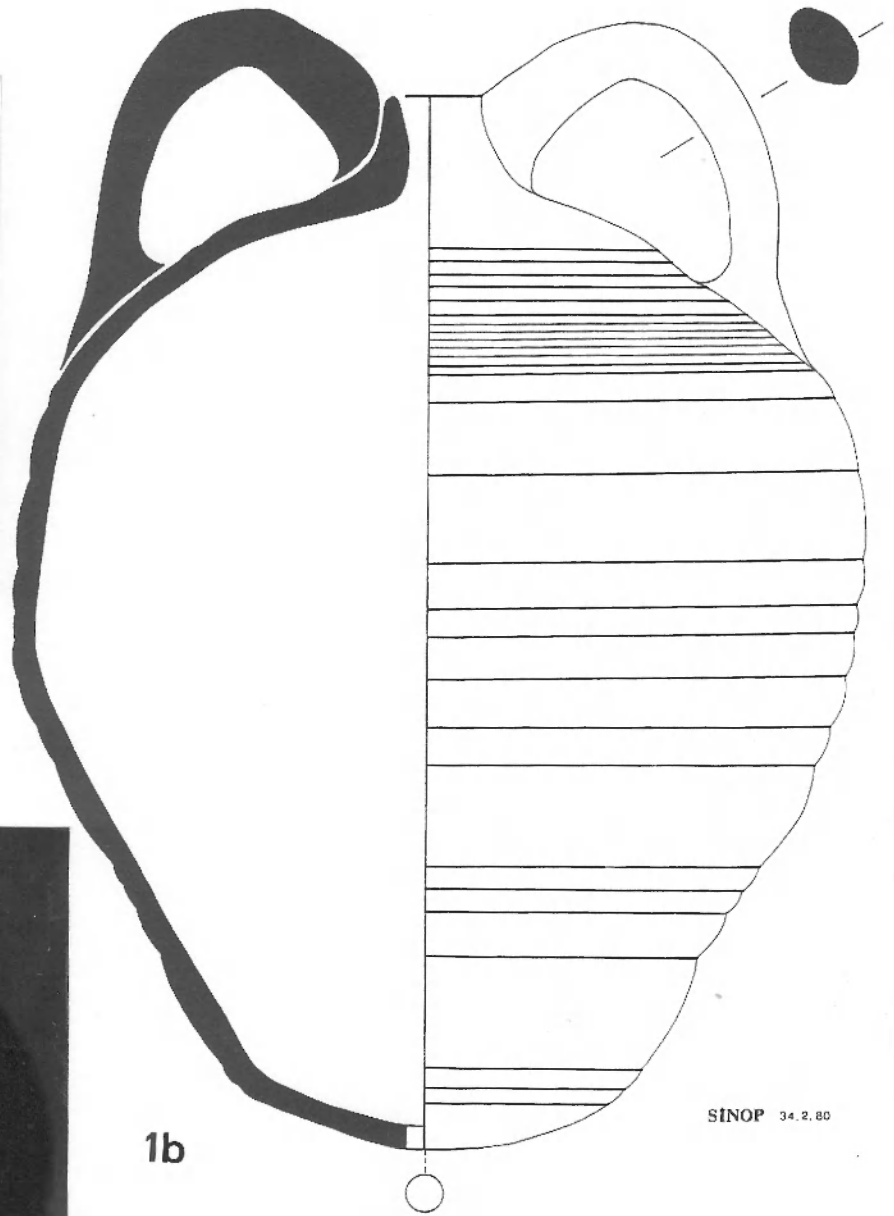


3

PL. LVIII

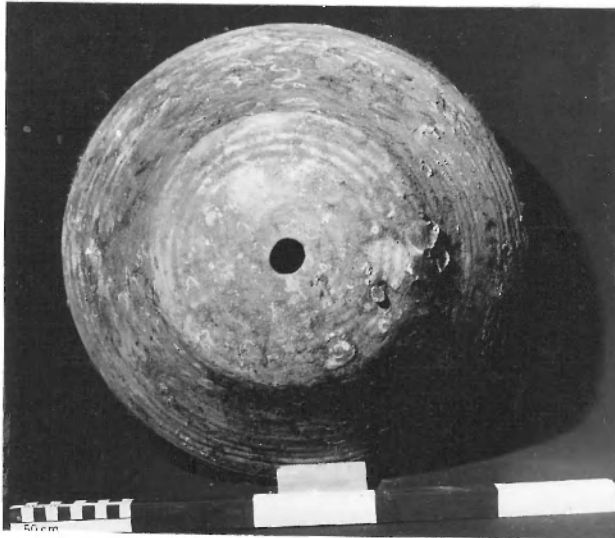


1a



1b

SINOP 34.2.80



1c



2a-b

(l'ensemble de : pl. LVIII/1 et pl. LVII/2)

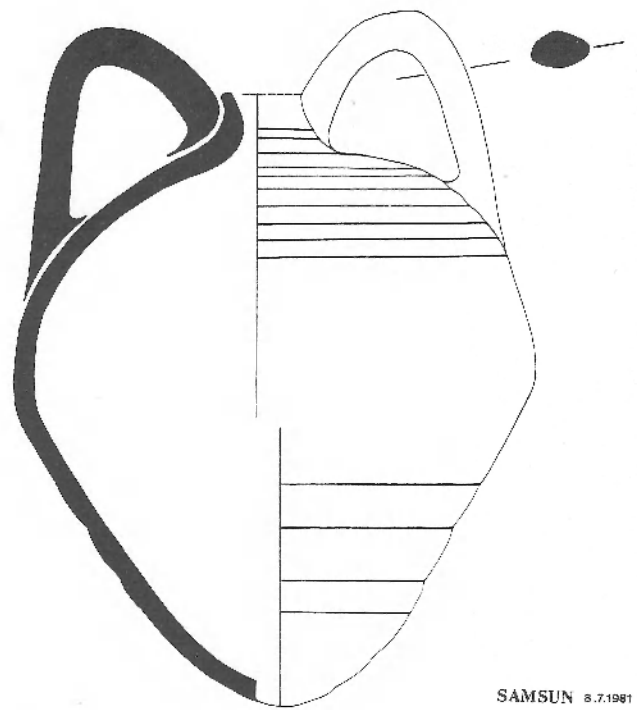


3a-b





1a



SAMSUN 8.7.1981

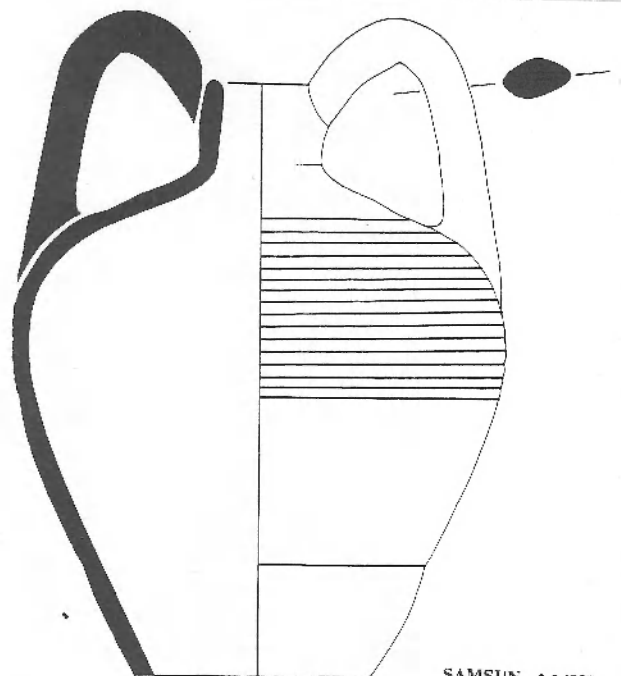
1b



2



3a



SAMSUN 9.5.1980

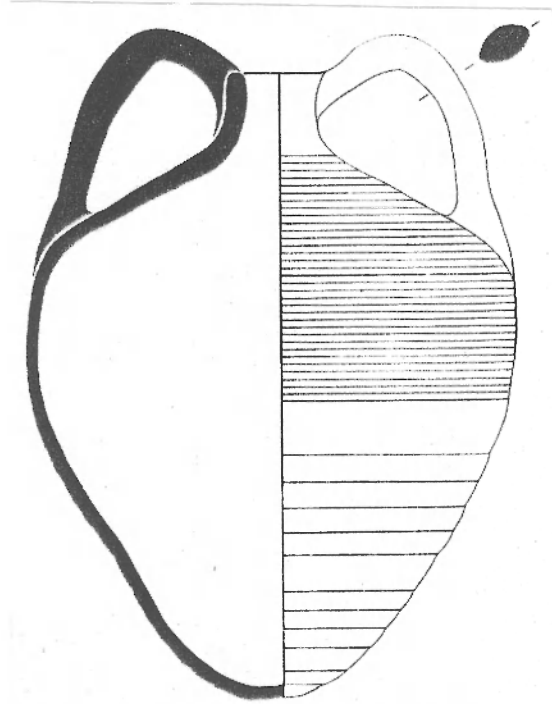
3b



PL. LX



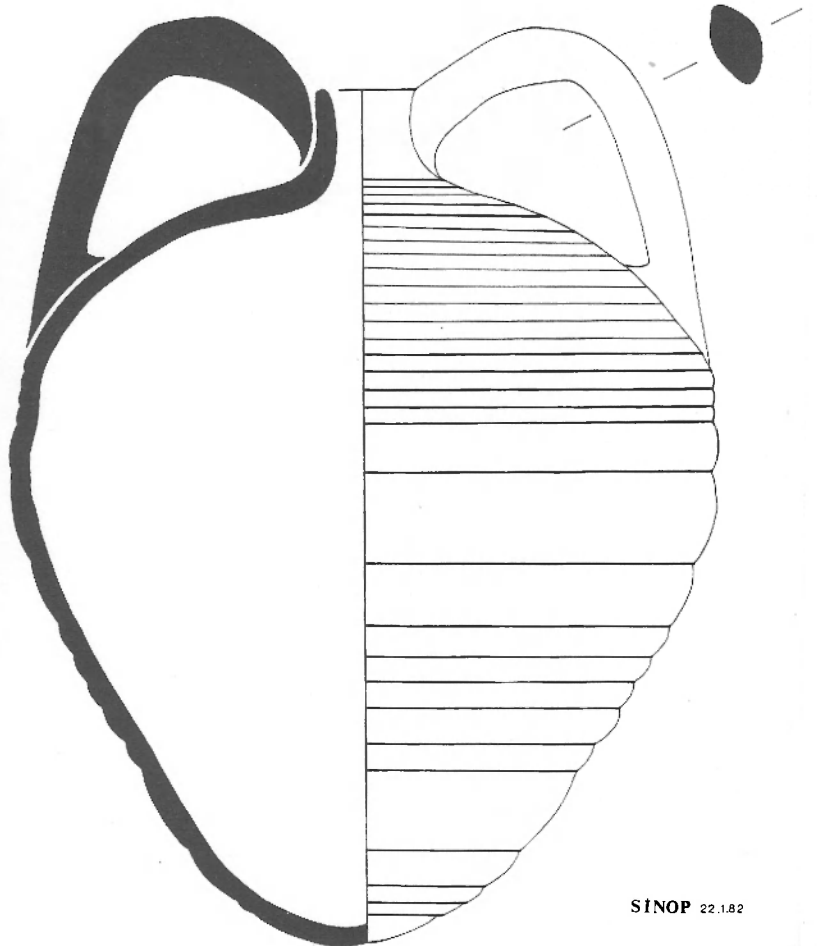
1a



1b GÜNSENİN 1989; fig. 12, ech. 1/5



2a



2b



1a



b



c



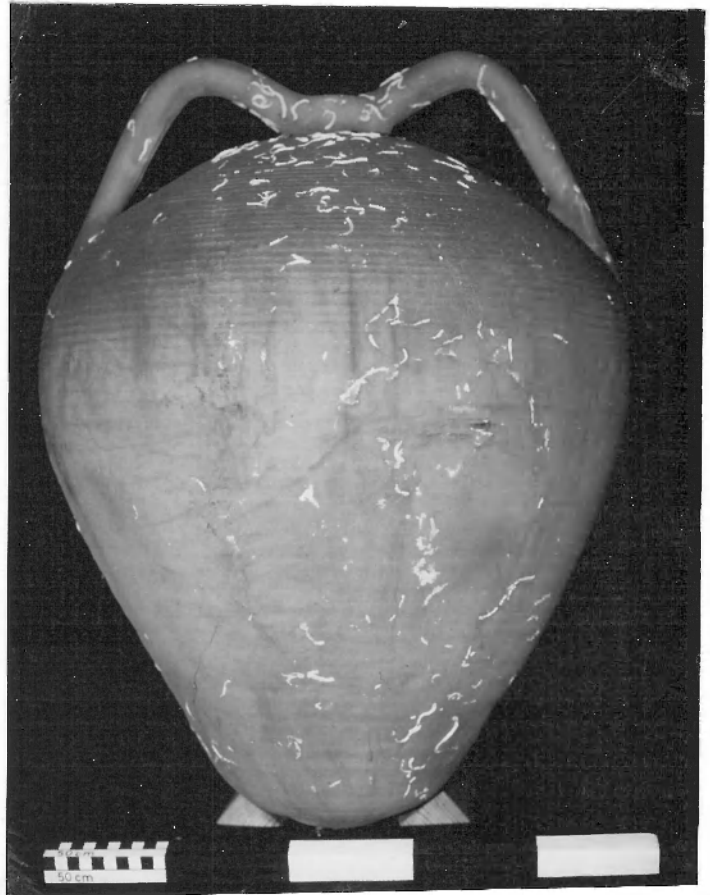
d



e



1



2a



b



c



d



1



2



3



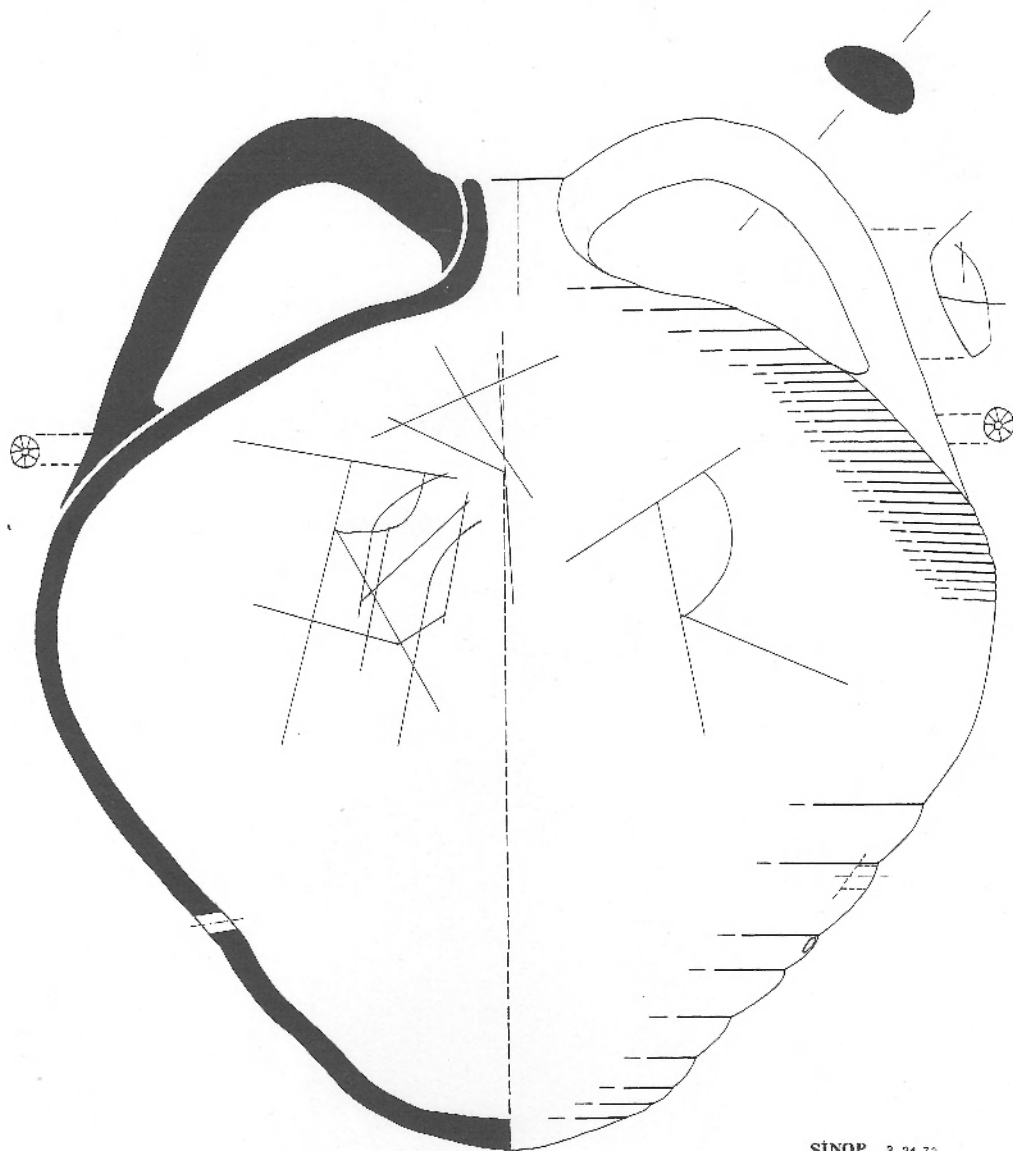
4



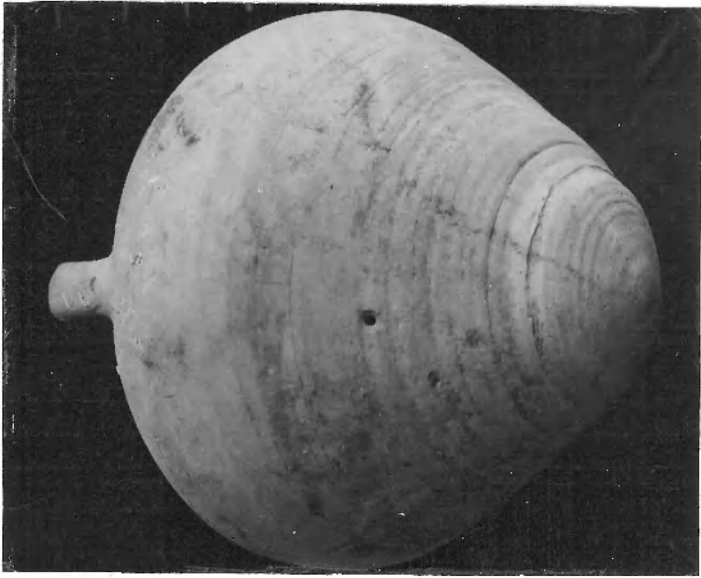
5



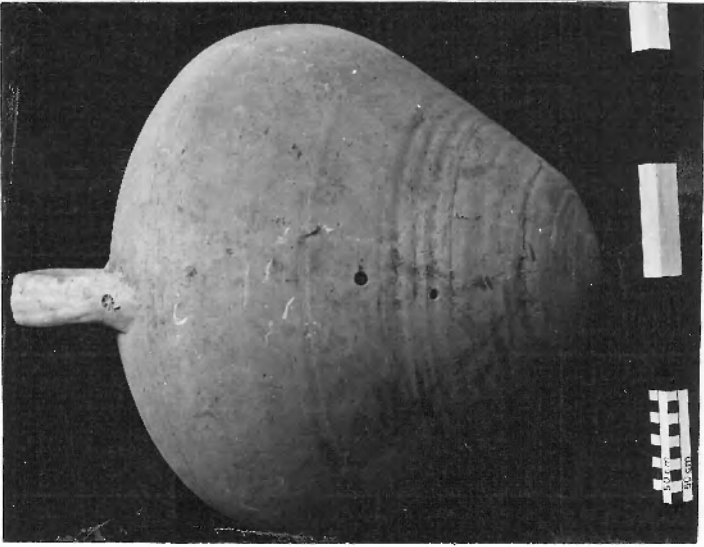
1a



b



c



b



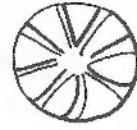
1a



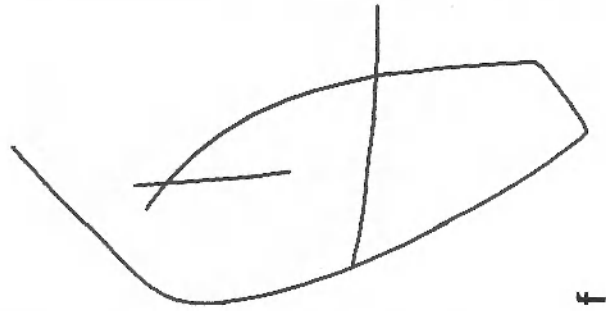
g



h



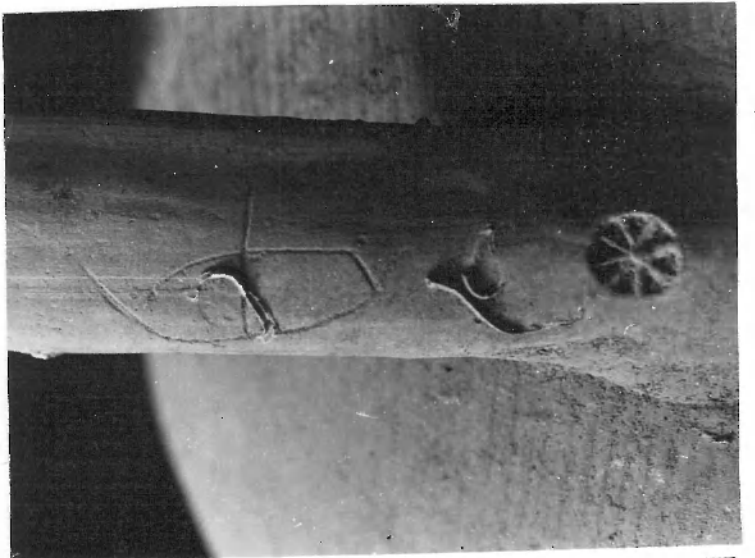
i



f



e



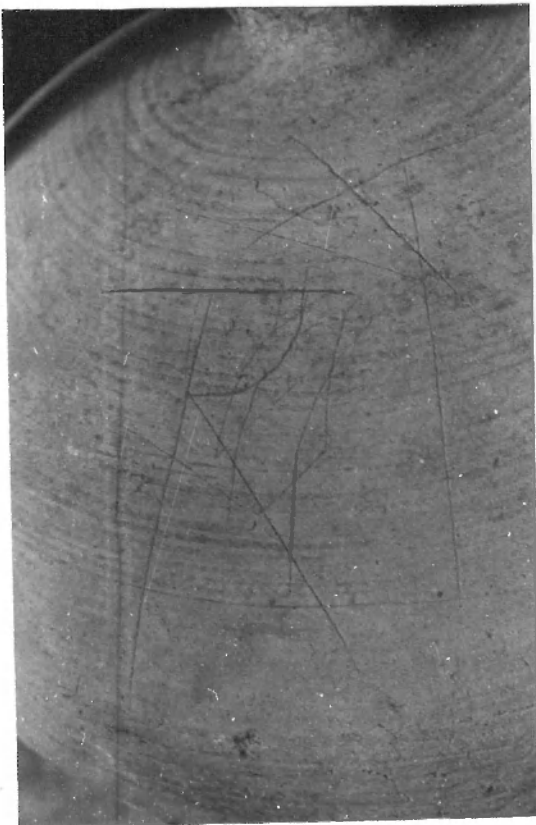
d



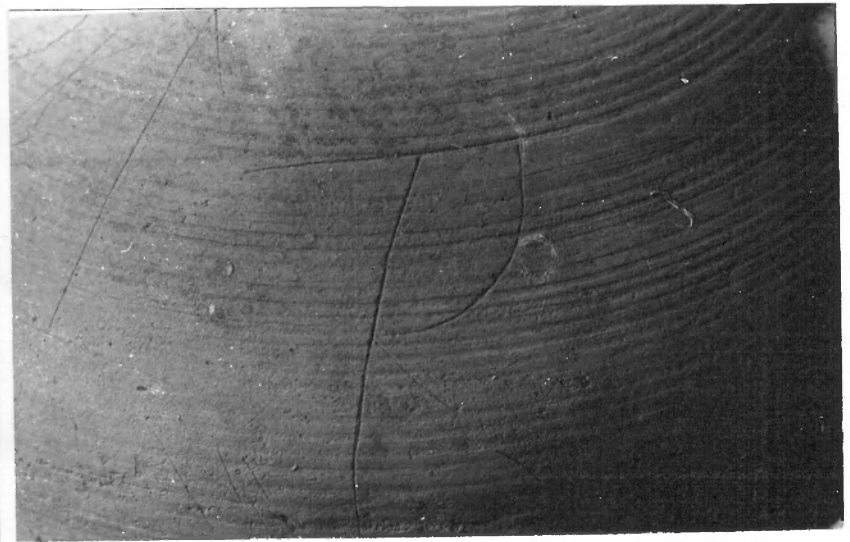
PL. LXVIa



1a



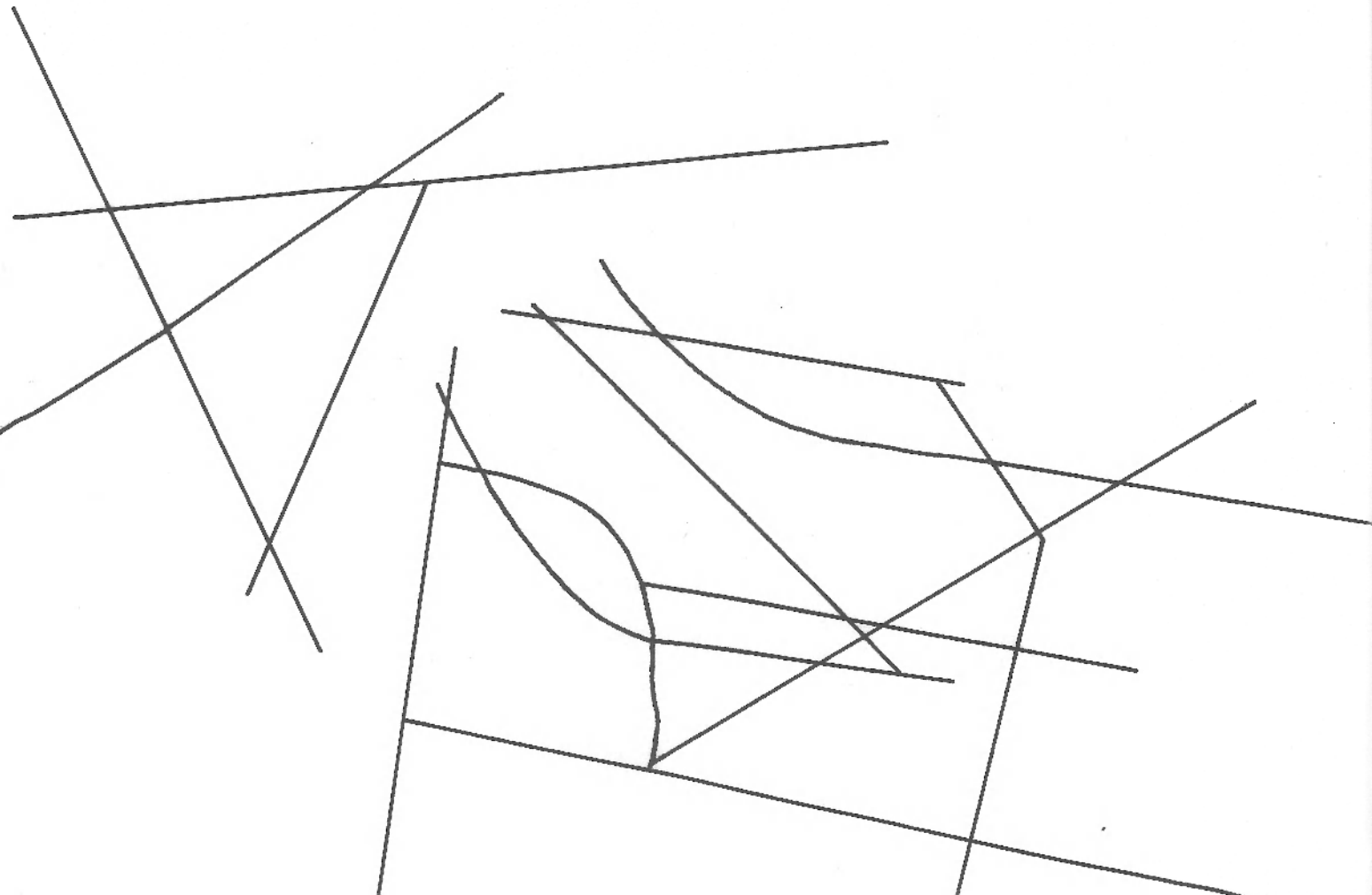
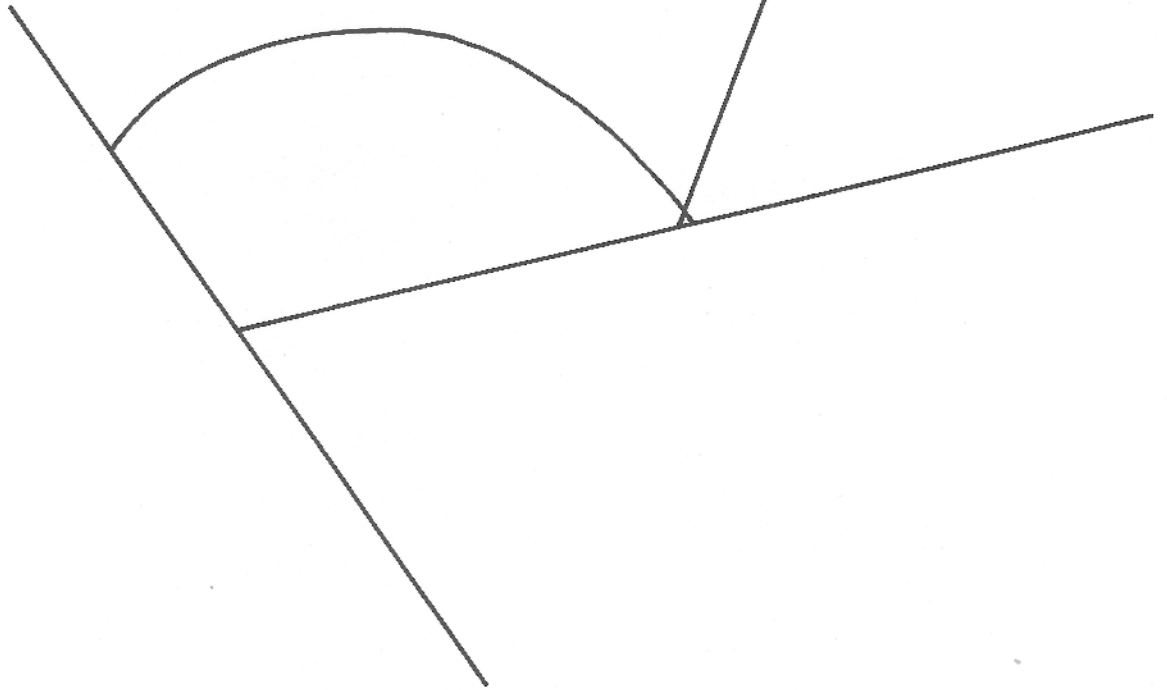
b



c



PL. LXVIb

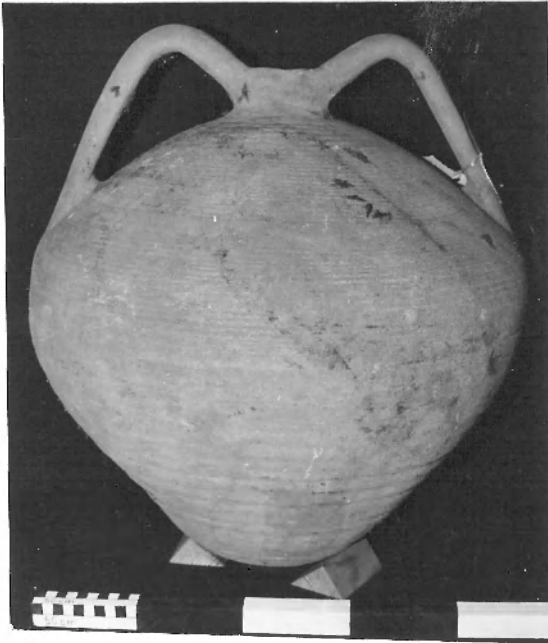




1



2



3



4



5



**1a-b-c** (l'ensemble de : pl. LXI/1, pl. LXVII/5-4)



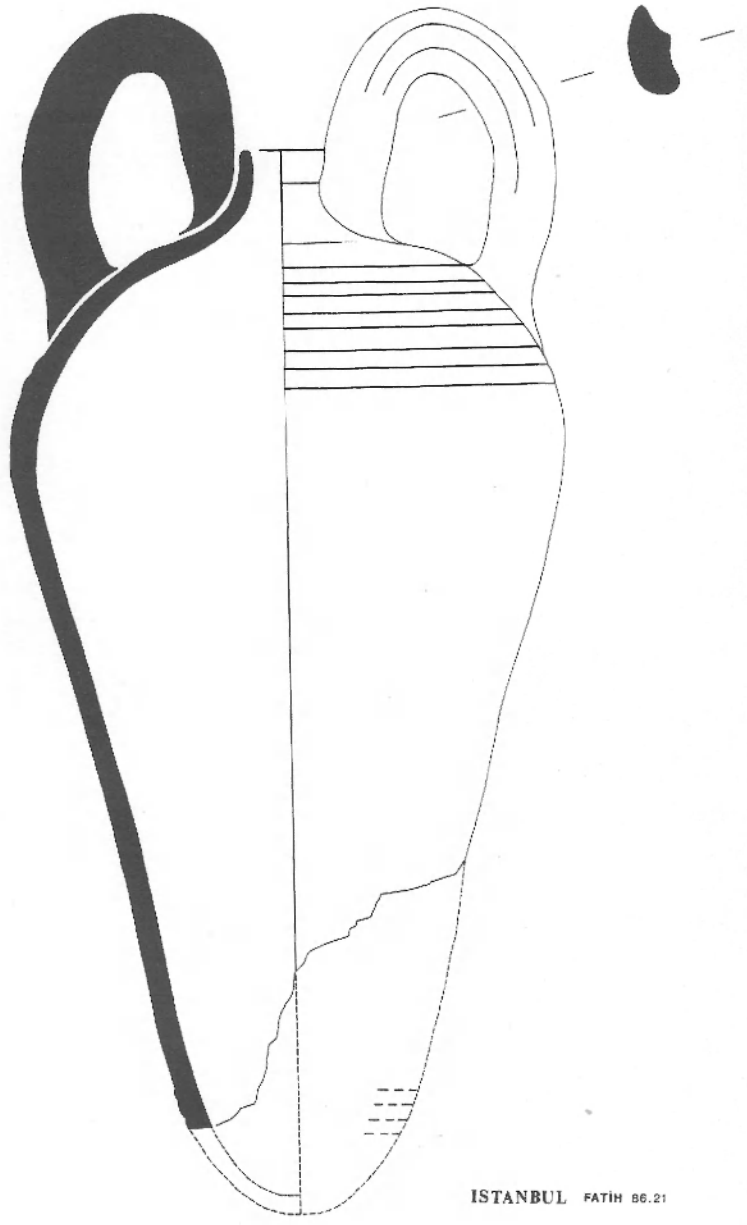
**2a-b** (l'ensemble de : pl. LXVII/1, pl. LX/2)



**3a-b** (l'ensemble de : pl. LVII/1, pl. LX/2)



1a

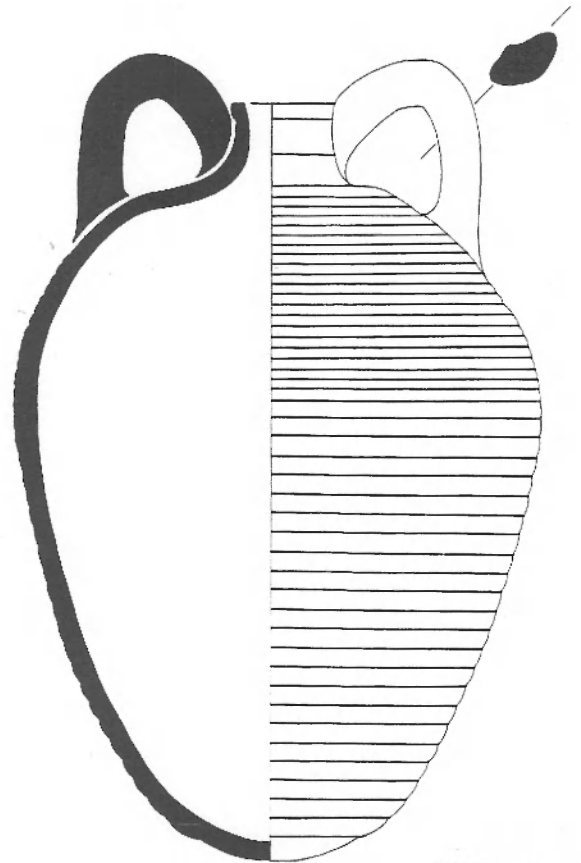


1b

ISTANBUL FATIH 86.21



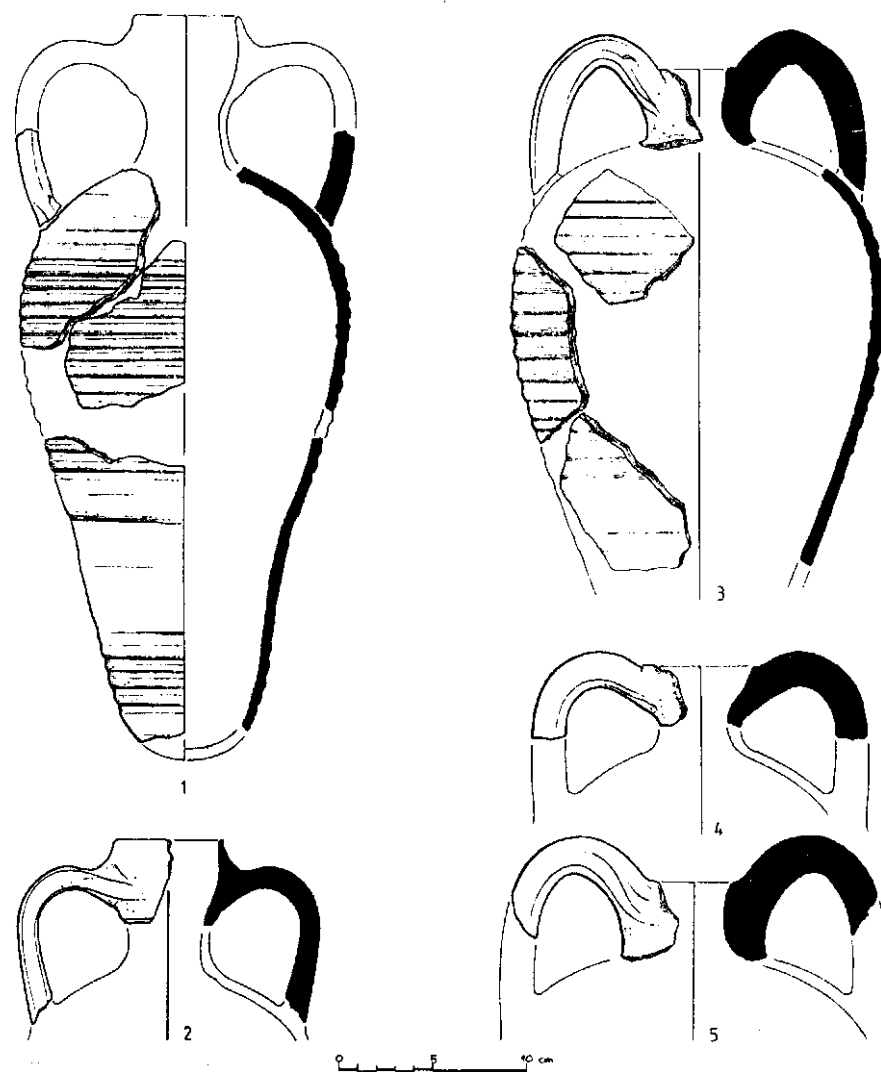
2a



2b

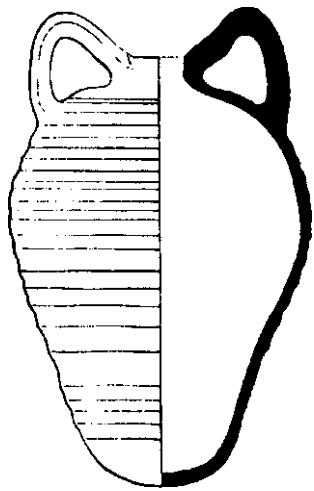
ÇANAKKALE 2979

PL. LXX



POPOVIC 1989 - Fig. 6. — Ras — Amphores (1 : 4).

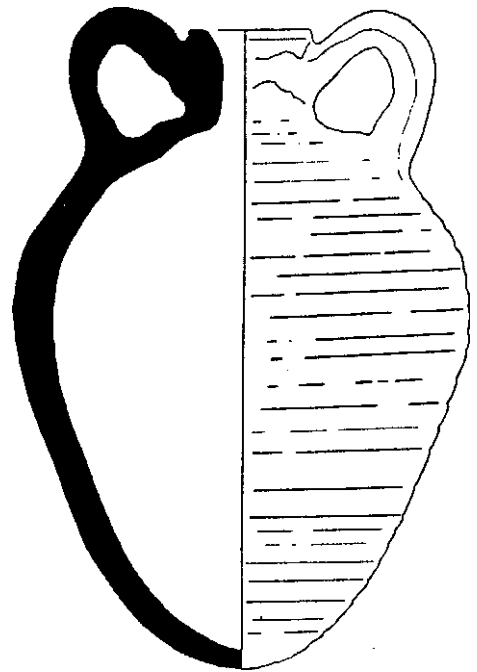
1a·b



BJELAJAC 1989 - Fig. 3.

BRUSIC 1986, P. IV, fig. 5.

1



2

BONIFAY-VILLEDIEU 1989 - Fig. 18. — Rade de Marseille, amphore byzantine médiévale (?) (éch. 1:4).



4

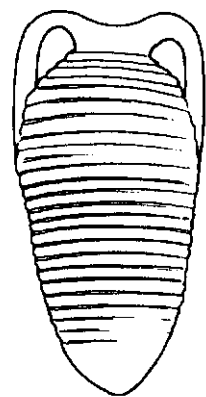


Fig. 7. — Type VII. From Mistra.

Archéologie Sous-Marine sur les Côtes de France, Nantes (1985)  
fig. 462.

3

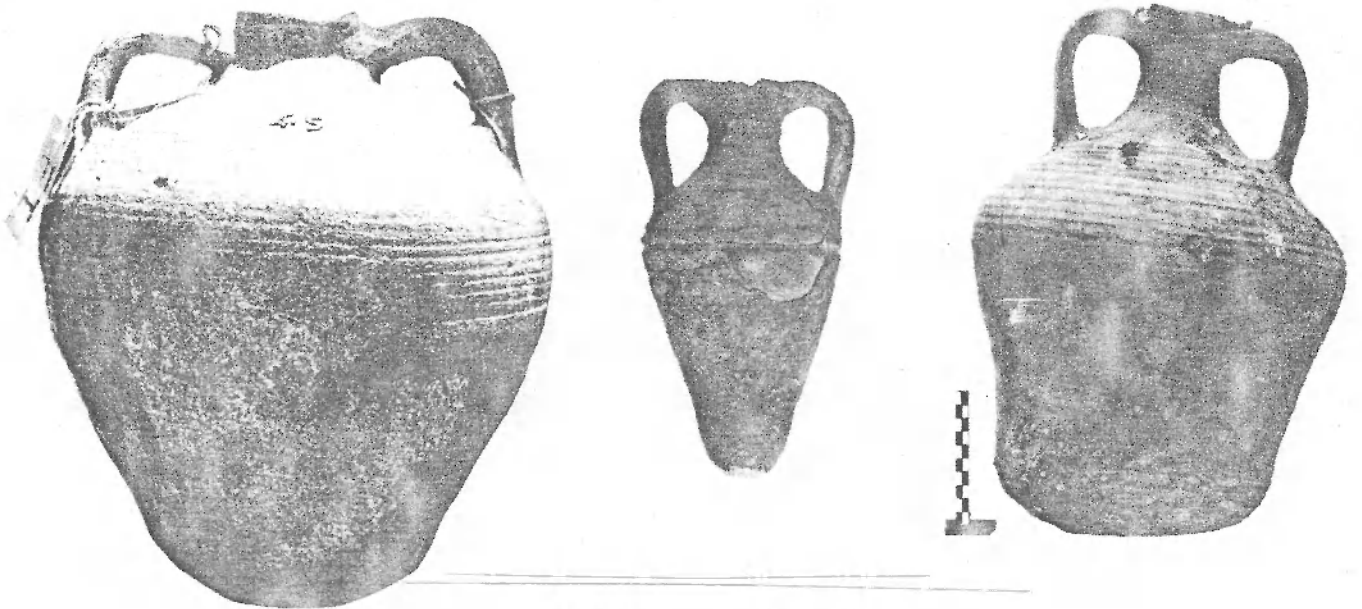
PL. LXXII



1a-b



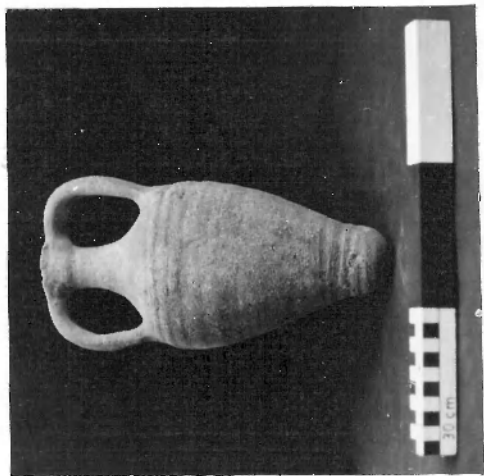
2a-b (Antioche, n° inv. 1187 C - 1156)



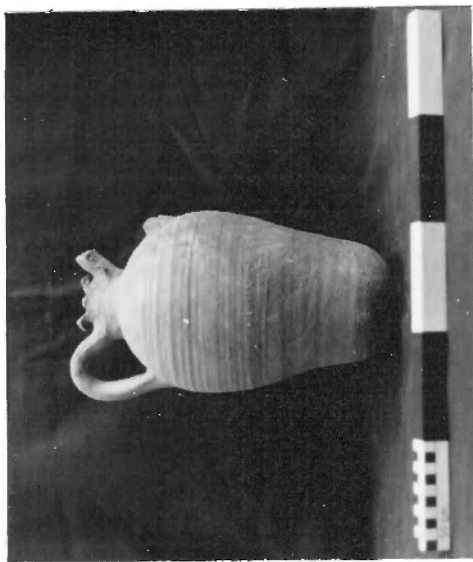
VAN DOORNINCK 1978, fig. 1.

3a-b-c

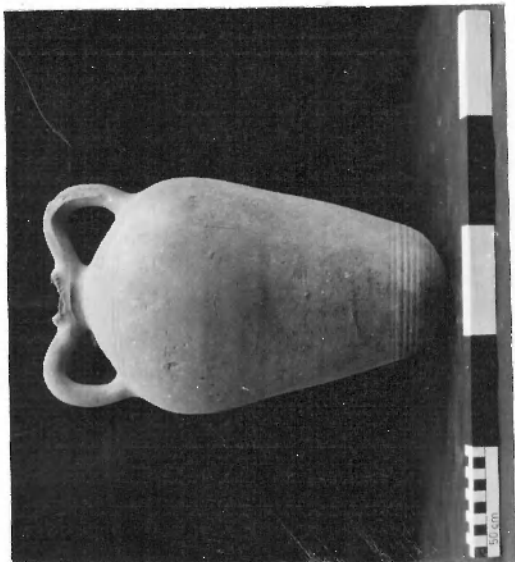




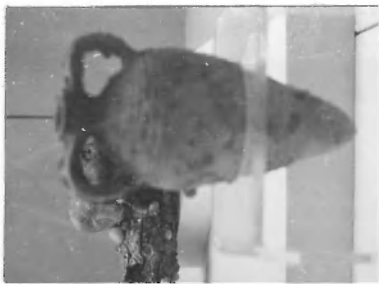
1



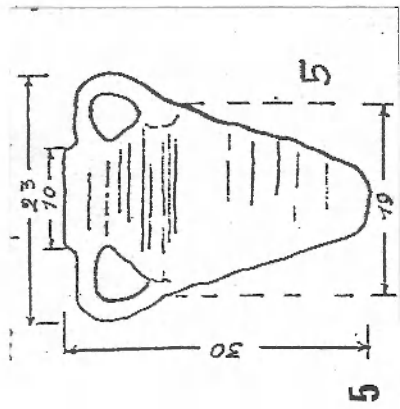
2



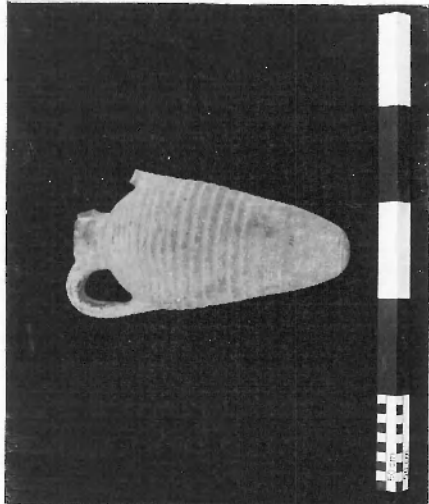
3



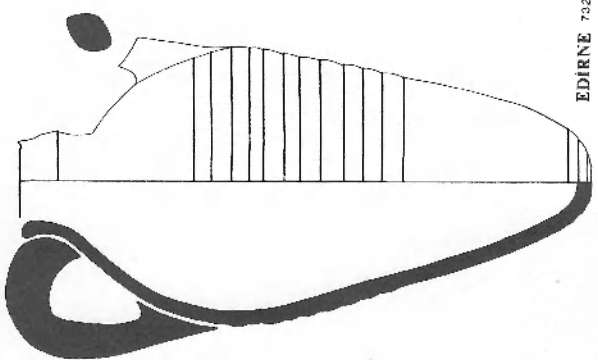
4



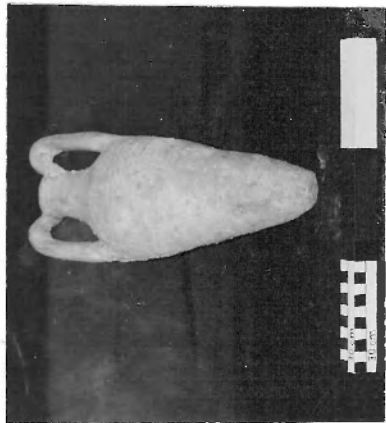
5



6a



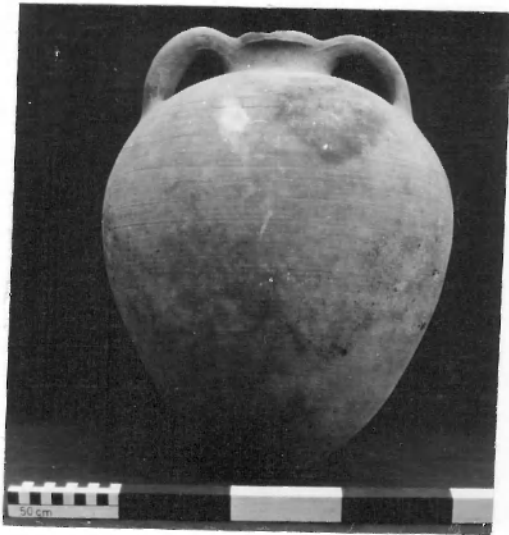
6b



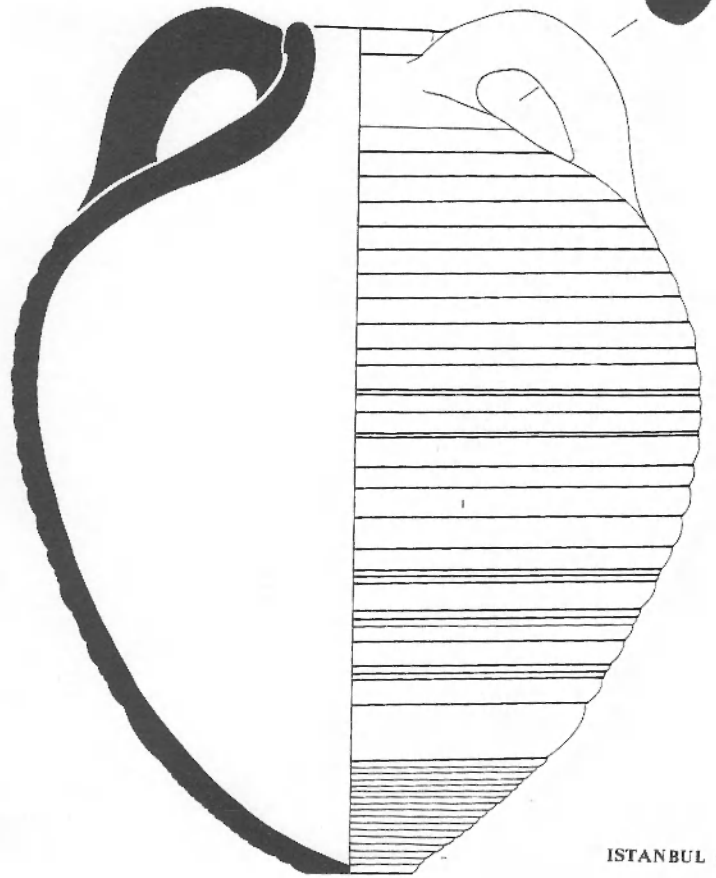
7

DEMANGEL-MAMBOURY 1939, fig. 198.

EDIRNE 732

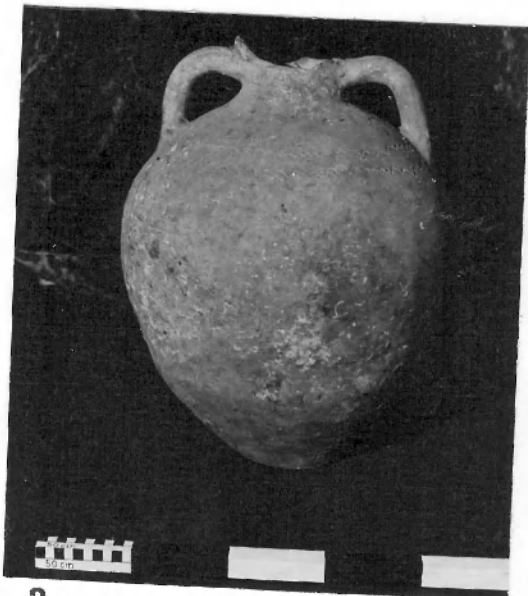


1a

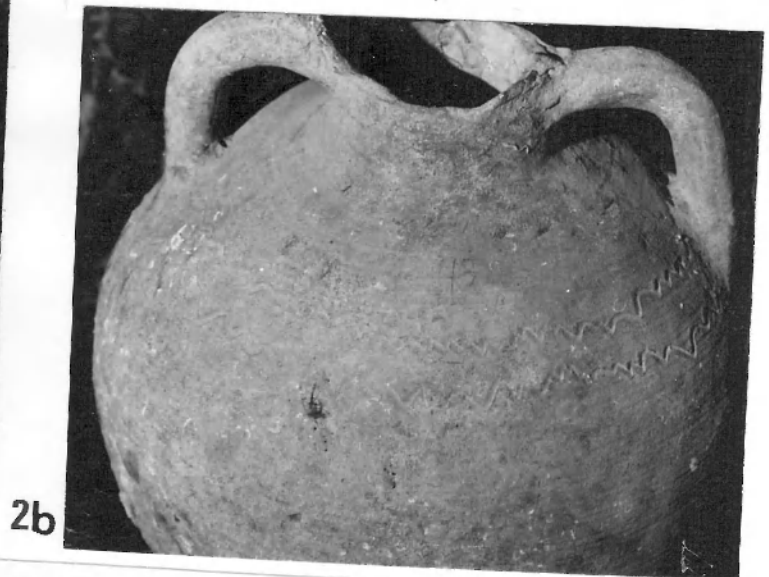


1b

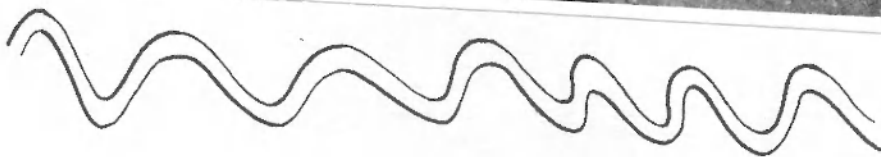
ISTANBUL 9821.7



2a

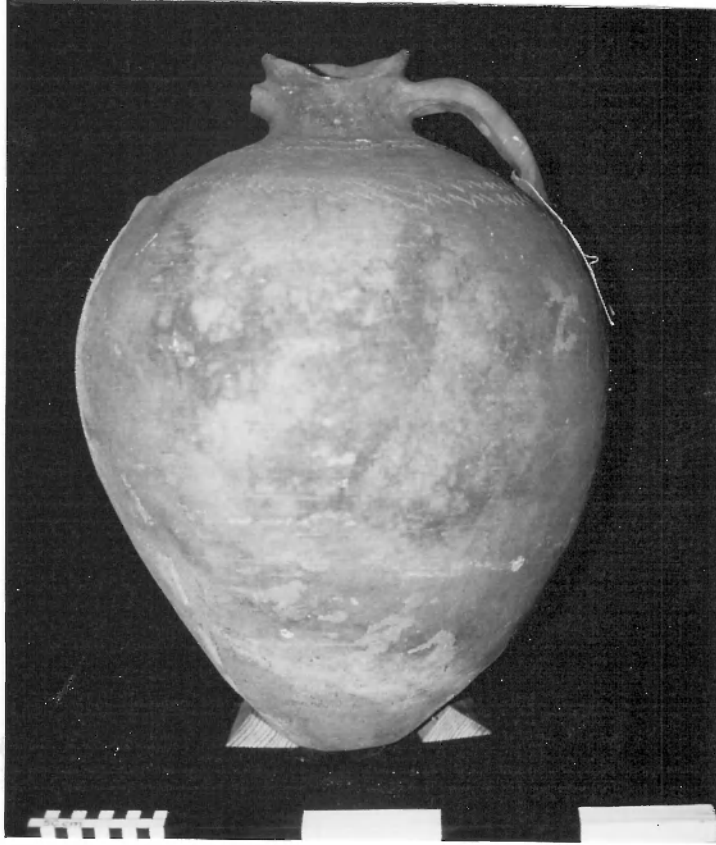


2b

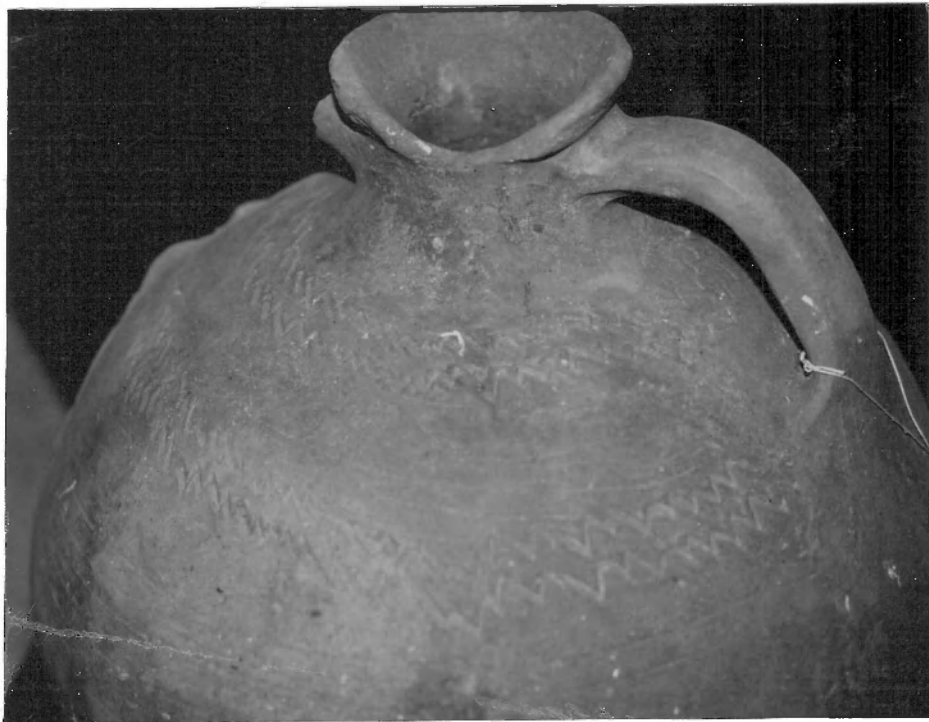


2c

PL. LXXV

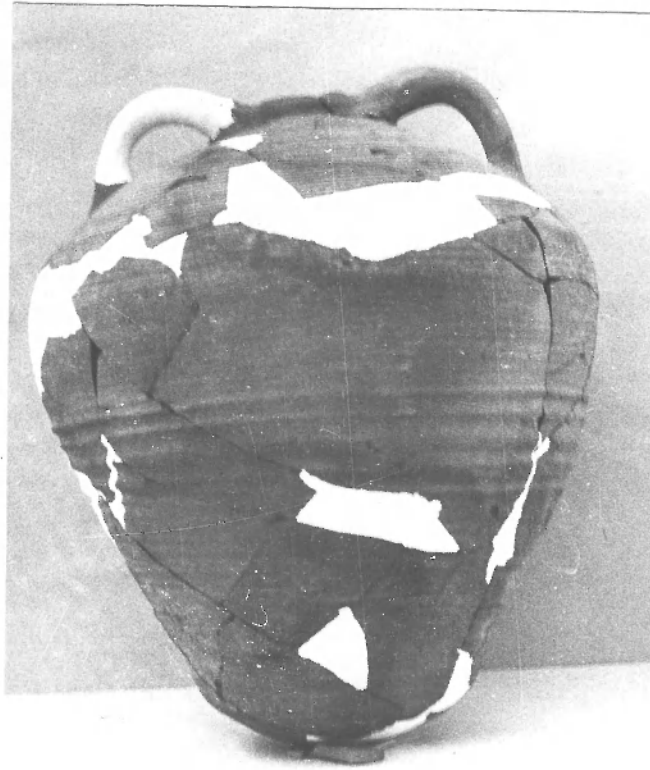


1a

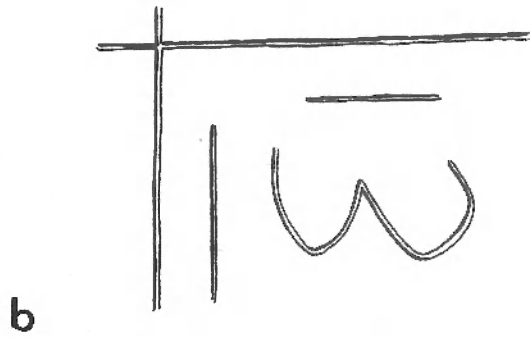


b

**PLANCHES DES AMPHORES DE L'AGORA  
D'ATHÈNES**



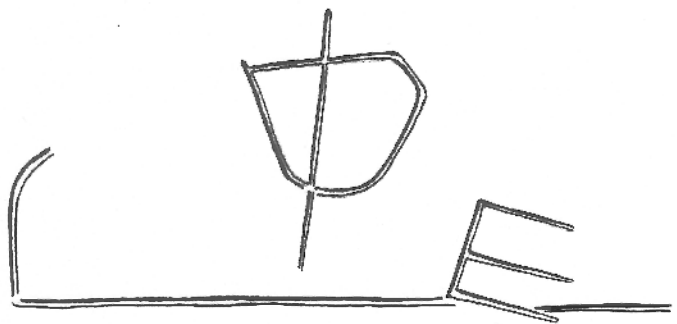
1a



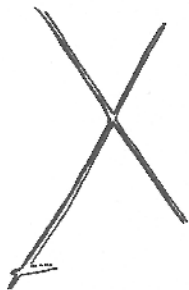
b



c



d



e



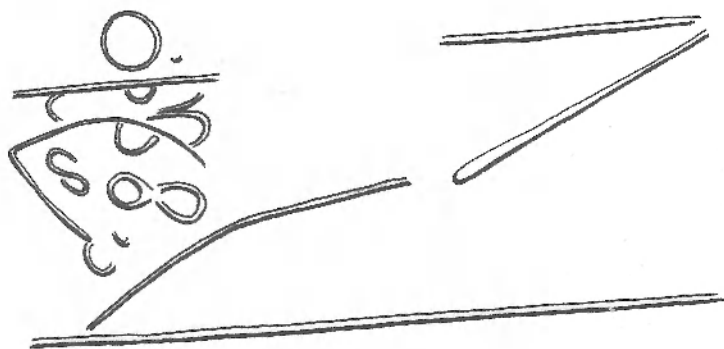
b



1a



e



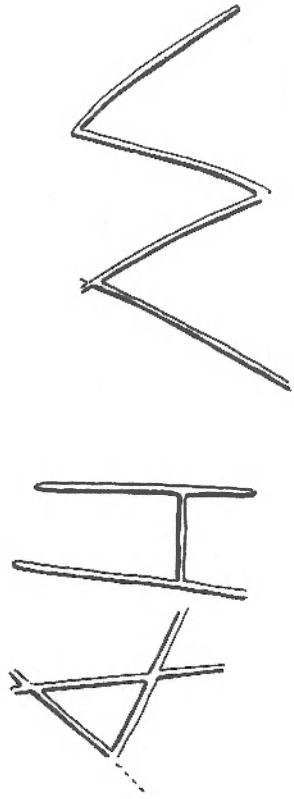
d



f



c



b



c

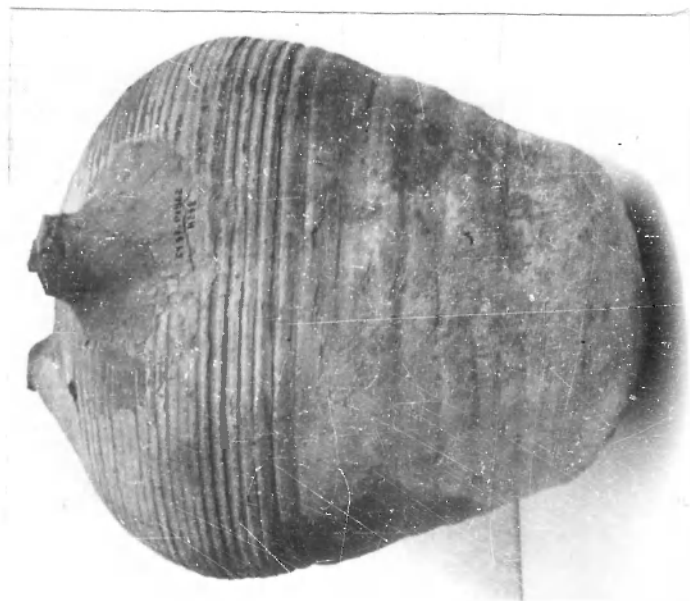


d



1a





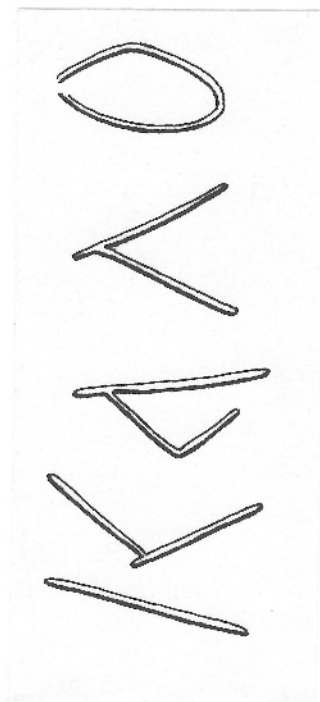
1a



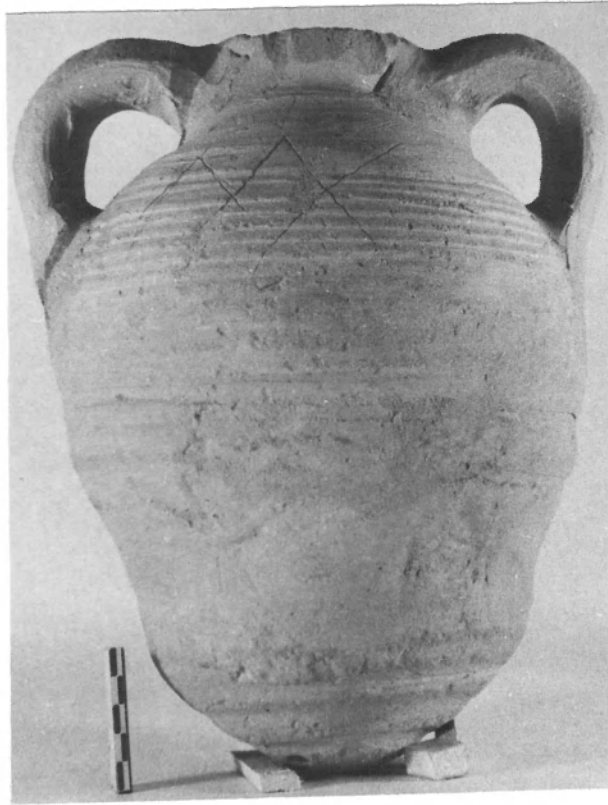
1b



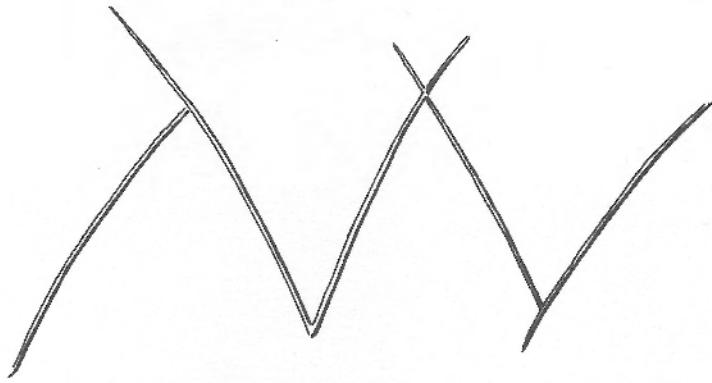
2a



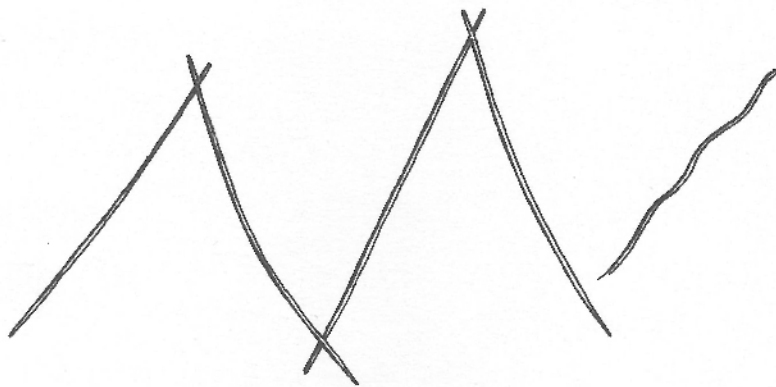
2b



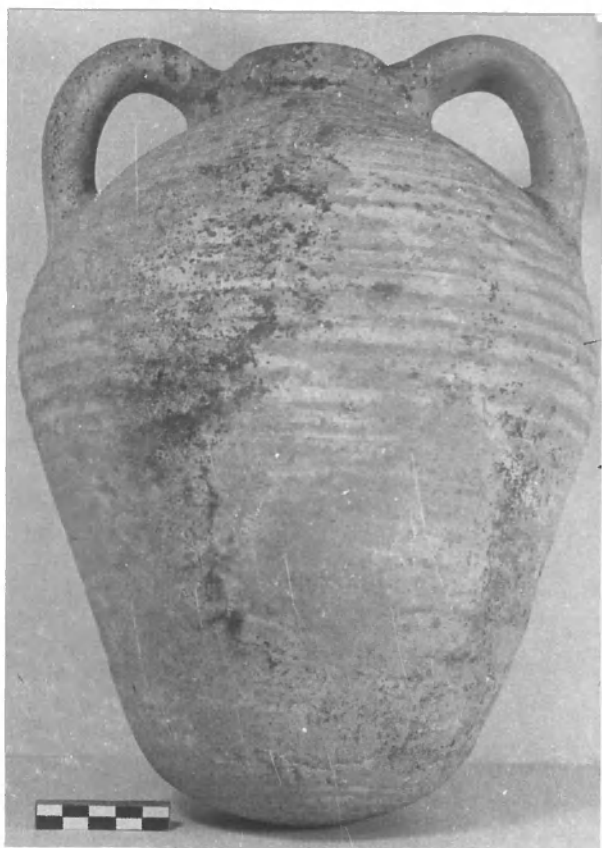
1a



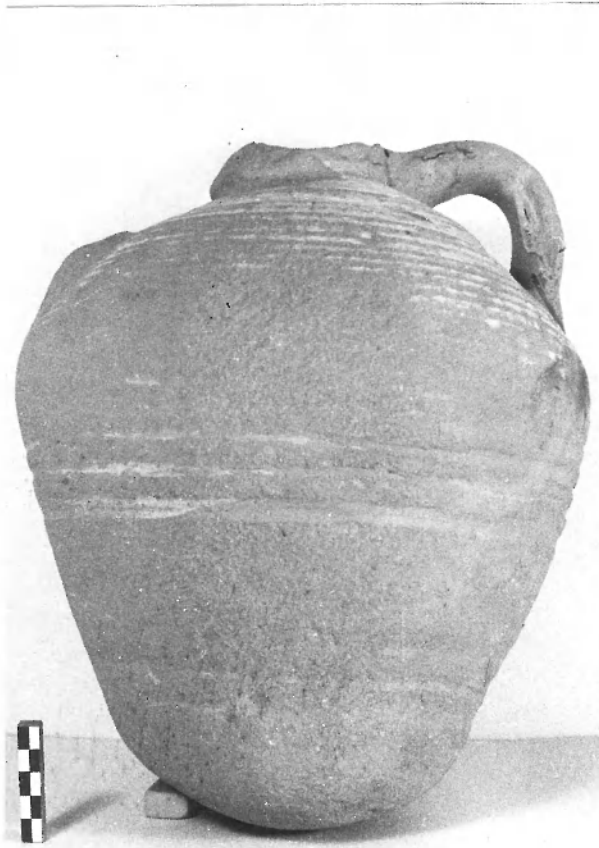
b



c



1



2



3a

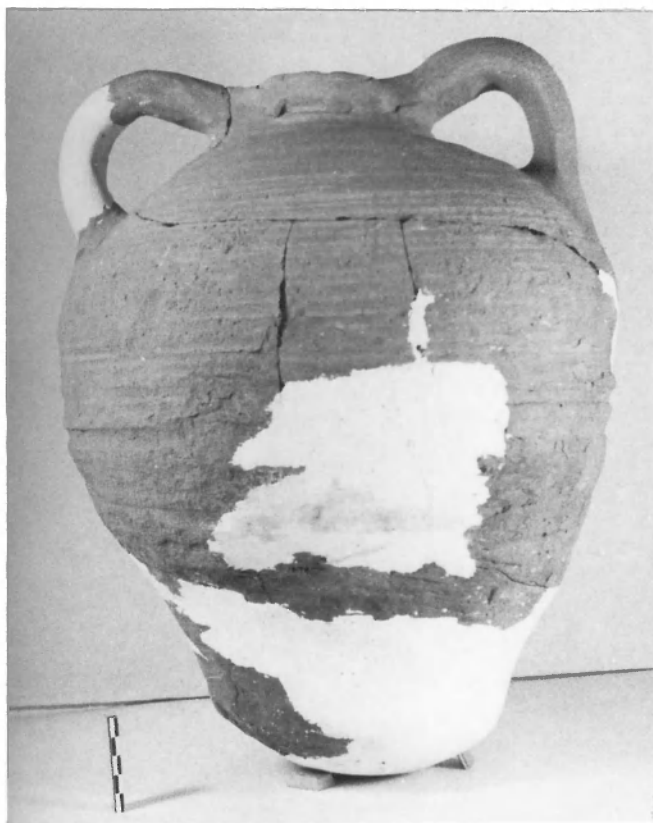


b

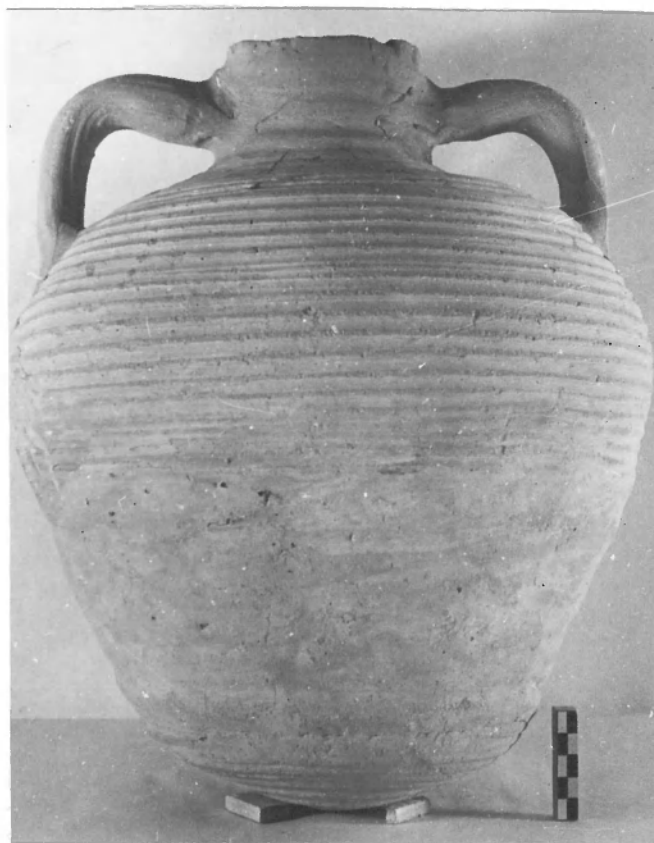
PL. LXXXII



1



2



3

PL. LXXXIII



1



2



3



4

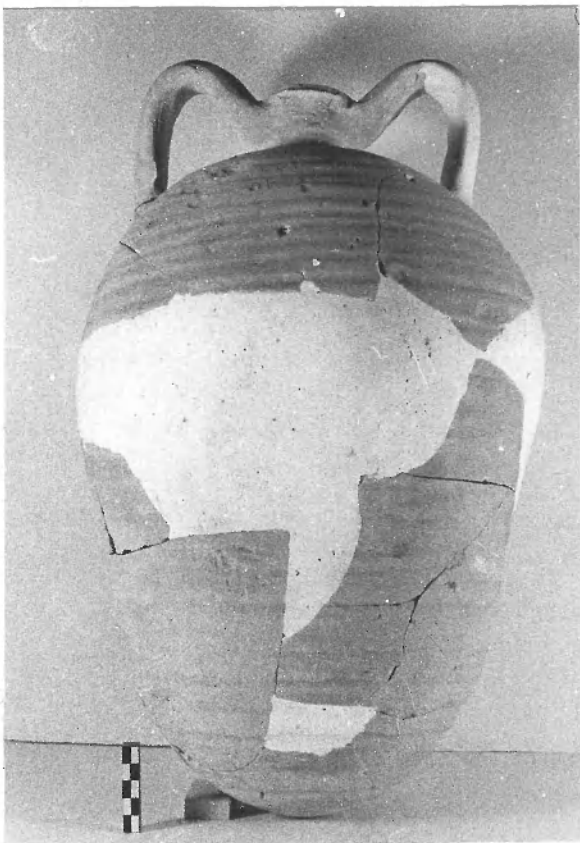




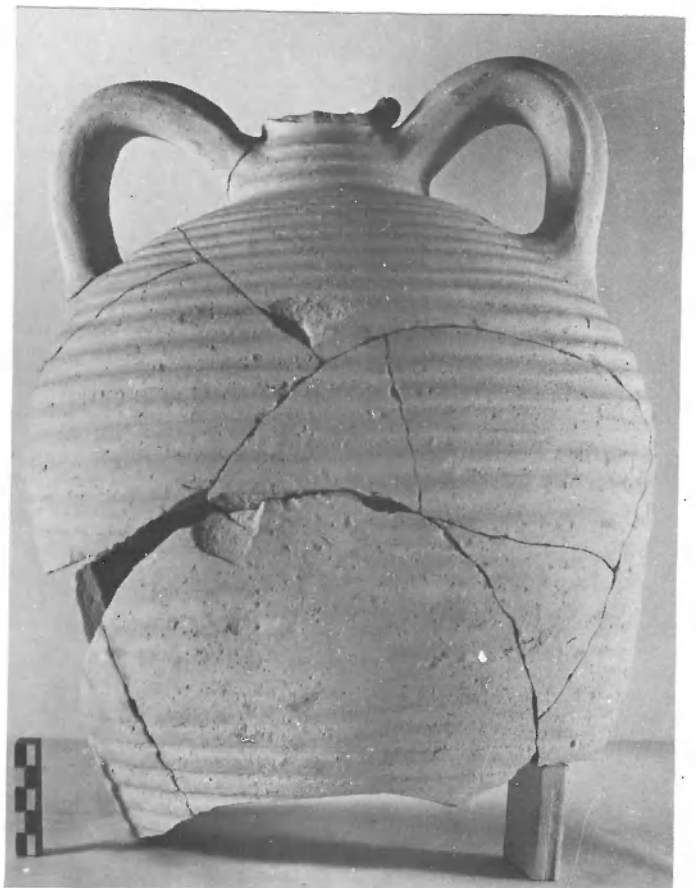
1



2



3



4



1a

HNK<sup>o</sup>

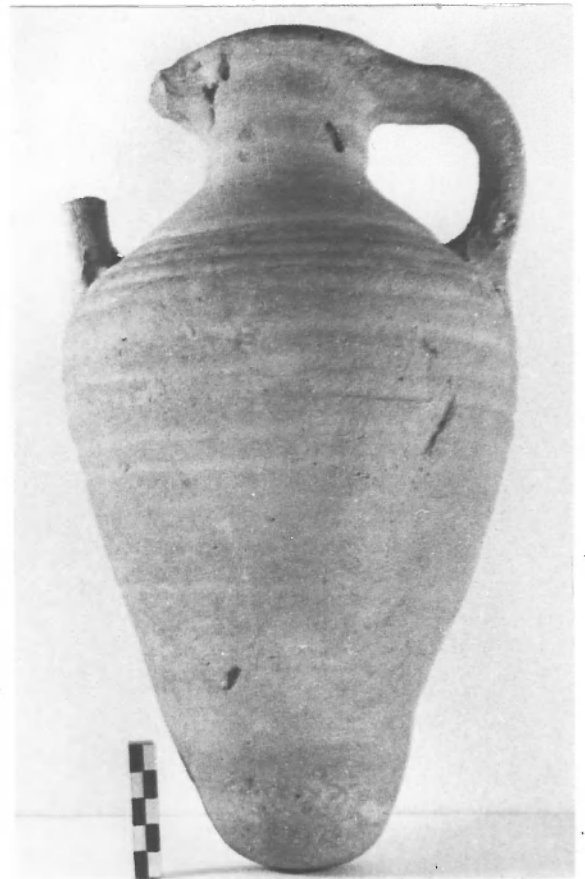
b

HNK<sup>o</sup>

c



2

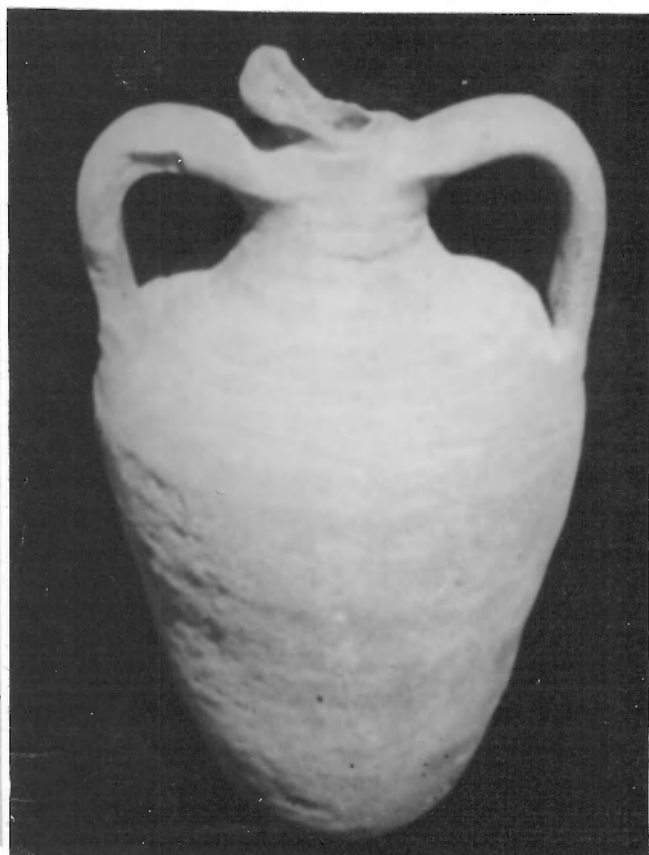


3

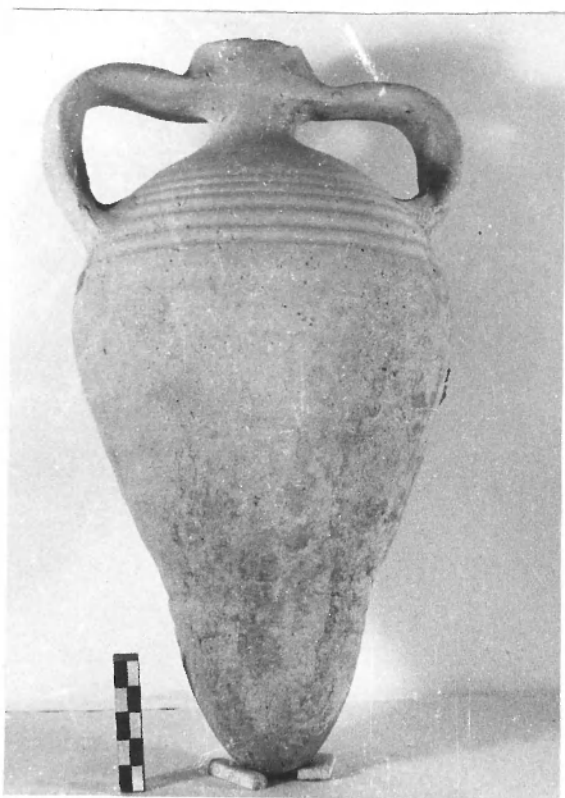




1



2

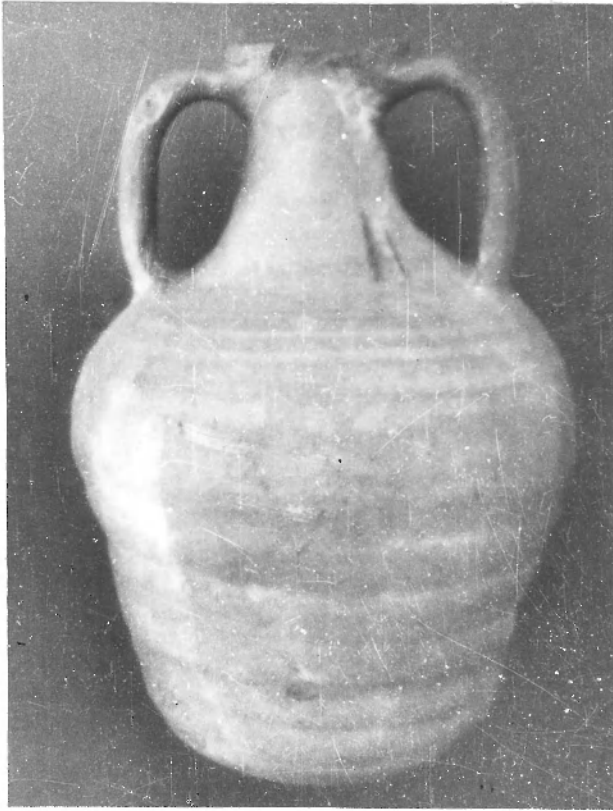


3a

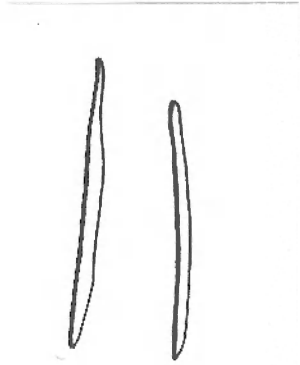


b

PL. LXXXVII



1a



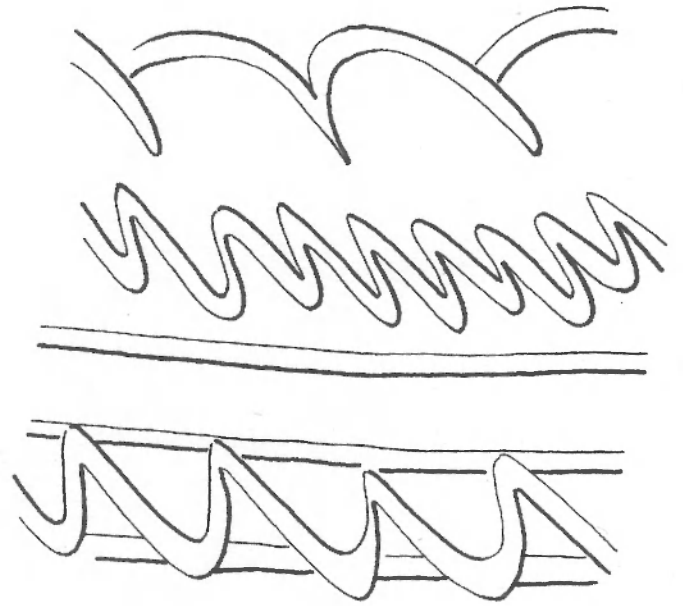
b



2



1a

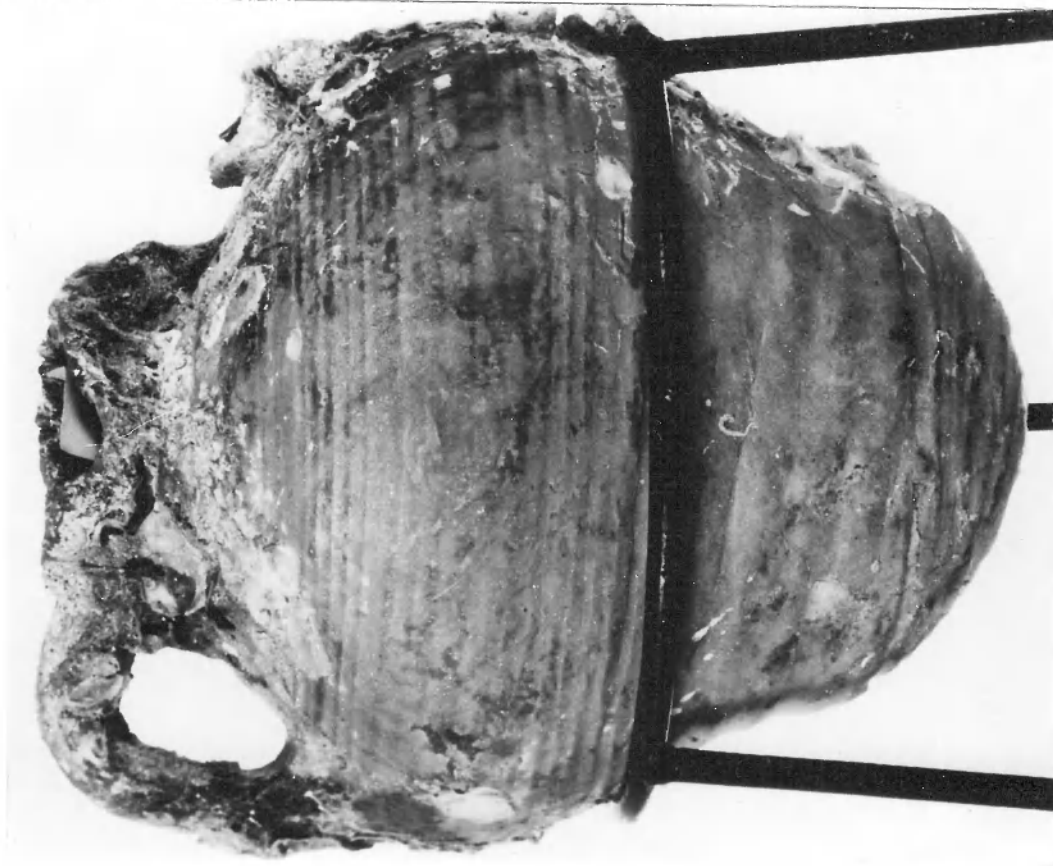


b

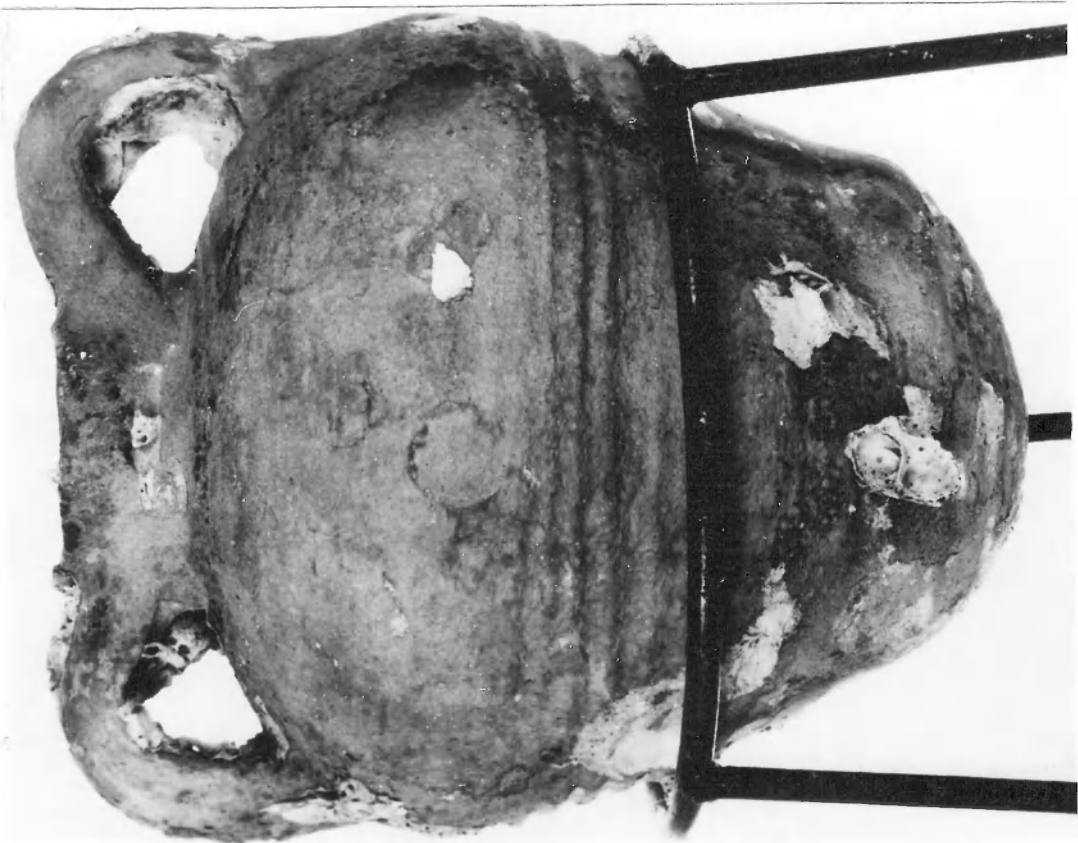


2

**PLANCHES DES AMPHORES DÉCOUVERTES DANS  
LE BASSIN OCCIDENTAL DE LA MER ÉGÉE**



2



1



1

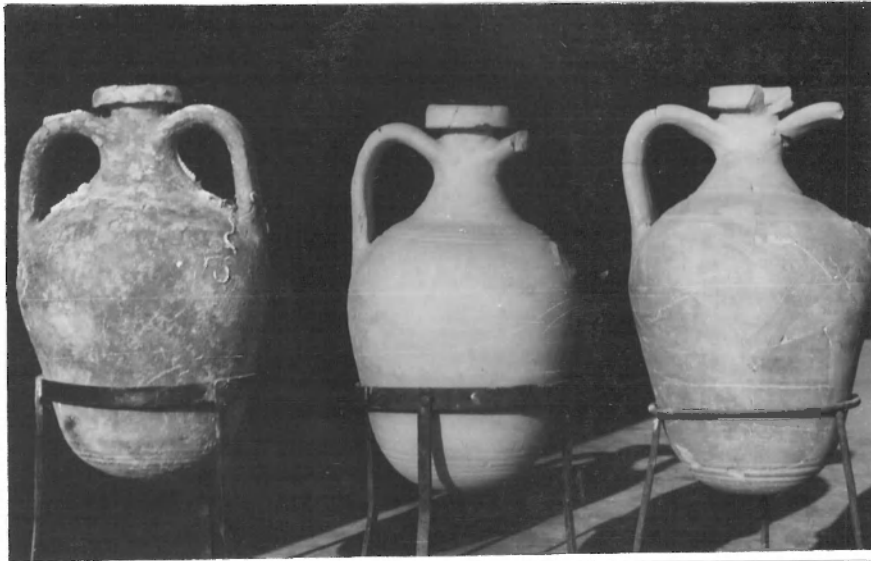


2



3

PL. XCI



1<sup>a</sup> A gauche, golfe de Thessalonique, à droit, Agora d'Athènes  
n° inv. P 3749, 3750.

2



3<sup>a</sup> Amphores exposées au Musée de Paphos : derrière à gauche, type III, au milieu Agora K 113. Devant, de gauche à droit : type IVa, type I, LR I, type I (je remercie A. PRALONG pour me donner ce photo).



