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Author(s)	Katsumata, Toshio
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Catalogue of Pottery Sherds from the 1991 and 1992 Expeditions

Introduction

This report presents data on pottery sherds collected during two expeditions conducted in 1991 and 1992 by Osaka University to Gemiler Ada and Karacaören Ada. It is hoped that the information gleaned from the new Lycian sites, and its comparison with that already published on other sites in the region, may prove of benefit to scholars.

Methodology

The sherds collected were gathered from the ground surface, not from excavations. Moreover, following the 1991 expedition, it was decided that, to facilitate the analysis of our finds, both islands should be divided along their respective mountain ridges into northern and southern sectors.

Classification

The sherds have been classified by ware type, shape, and clay fabric, according to categories employed by the University of Michigan for its excavations at Carthage.¹

Presentation

In all, 327 pieces of pottery were recovered. From amongst these, 69 items were selected on the basis that they appeared to be of greatest potential interest to the scholar. In order of location and year of collection,

each item is classified according to physical attributes, following which references are given. Measurements are in centimeters.

Key

S: shape	Dec.: decoration	H: height
C: clay fabric	Da.: date	L: length
M: measurements	Ref.: reference	T: thickness
Feat.: features	Dia.: diameter	W: width

- G91: from Gemiler Ada, second expedition, 1991.
GN92: from northern Gemiler Ada, third expedition, 1992.
GS92: from southern Gemiler Ada, third expedition, 1992.
K91: from Karacaören Ada, second expedition, 1991.
KN92: from northern Karacaören Ada, third expedition, 1992.
KS92: from southern Karacaören Ada, third expedition, 1992.

- Carthage: J. H. Humphrey (ed.), *The Circus and a Byzantine Cemetery at Carthage*, vol. 1, Michigan 1988.
Hautumm: W. Hautumm, *Studien zu Amphoren der spatromischen und frühbyzantinischen Zeit*, doctoral dissertation, Bonn University, 1981.
LPR: J. W. Hayes, *Late Roman Pottery*, Rome 1972.
P-W: D. P. S. Peacock and D. F. Williams, *Amphorae and the Roman Economy*, London 1986.
Saraçhane: J. W. Hayes, *Excavations at Saraçhane in Istanbul, vol.2, The Pottery*, Princeton 1992.
Sardis: J. Stephens Crawford, *The Byzantine Shops at Sardis*, Massachusetts and London 1990.
Bakirtzis: C. Bakirtzis, *Byzantine Tsoukalolagena* (in Greek), Athens 1989.

Gemiler Ada

G91—20 (fig.93)

S: stamped fragment of flat dish (African RS). C: fine, friable; orange (2.5YR6/8). M: 2.5 x 2.4; T, 0.5. Feat.: stamped criss-cross lines in two areas. Da.: 325-425/450.

Ref.: Carthage, pp. 457-469, plates 4, 5, 8; LRP, for decoration, Type 69, p. 241, for vessel form, pp. 100-107, 109-111.

GS92—1 (fig.94)

S: small part of amphora handle with body fragment. C: coarse; orange (5YR6/6). M: L, 9.6; H, 6; W, 3.7; T, 8.5. Feat.: flat, with two grooves.

Da.: early third-late fourth century.

Ref.: P-W, pp. 180-181, Class 42.

G91—1 (Ill. 1; fig.95; plate XIII a)

S: shoulder fragment of amphora with handle.

C: smooth; orange (5YR7/3). M: (body) H, 21.5; W, 12; T, 0.7-1.1; (handle) H, 10.9; W, 4.2;

T, 1.9-2. Feat.: close-set, horizontal, incised lines on body; incised lines on flat handle.

Da.: late fourth-fifth century.

Ref.: Saraçhane, p. 61, Type 1, p. 62, fig. 22, 1; P-W, p. 126, Class 20, p. 128, Class 21.



Ill. 1.

G91—11 (fig.96; plate XII g)

S: neck fragment of tsoukalion (fireproof cooking vessel) with handle. C: solid;

dark gray (5YR4/1). M: H, 8.1; W, (body) 4.1, (handle) 3.05; T, (handle)

0.6-0.8. Feat.: flat, three-ribbed handle, probably derives from metal form. Da.: fourth-sixth century.

GN92—9 (Ill. 2; fig.97)

S: tapering base fragment of amphora.

C: orange (2.5YR6/6), with fine buff

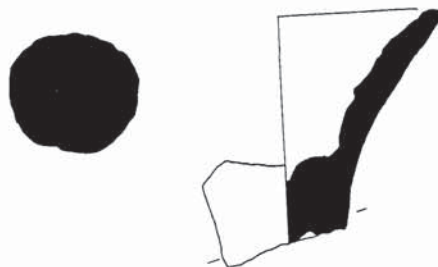
slip (10YR7/4). M: H, 10.5; W, 8.3;

Dia., 5.7. Feat.: vertical lines taper

to base. Da.: fourth-sixth century.

Ref.: Hautumm, Abb. 203, Dressel

Type 301.



Ill. 2.

G91—12 (fig.98)

S: neck fragment of bytina (jar). C: rough, fragile; orange (7.5YR7/6).

M: H, 7.2; Dia., (outer) 11.8, (inner) 8.5; T, (lip) 1.7. Feat.: overhanging

lip; shallow incised lines under rim. Da.: fifth-sixth century.

G91—18 (fig.99)

S: fragment of dish base (African RS). C: fine, smooth; orange (2.5YR7/

6). M: 5.4 x 4.2. Feat.: ring foot. Da.: fifth-sixth century.

G92—23 (fig.100; plate XII e)

S: body fragment of basin with handle. C: fine; pink buff (10YR8/4),

orange core (5YR7/6). M: (body) L, 12.5; H, 11.7; T, 1.05; (handle) L,

10.6; W, 3.8; T, 1.9. Feat.: widely spaced wavy lines incised under solid,

flat, three-ribbed handle. Da.: fifth-sixth century.

Ref.: for wavy lines, Bakirtzis, p. 38, pl. 4, 2.

GS92—5 (fig.101)

S: neck fragment of pithos (storage vessel) with spreading lip. C: coarse;

orange (5YR6/6), with gritty gray slip (7.5Y5/1). M: H, 17.9; L, 23; Dia.

(outer) 22. Feat.: two shallow incised lines on lip. Da.: fifth-sixth century.

G91—15 (fig.102)

S: overhanging lip fragment of tsoukalion with flat handle. C: fine; orange (7.5YR7/6) with dark gray slip (2.5GY6/1). M: (lip) H, 4.1; W, 3.5; (handle) L, 1.65. Da.: fifth-sixth century.

GN92—17 (fig.103)

S: rim fragment of shallow bowl. C: fragile; orange (5YR7/6) with slip in similar color (2.5YR6/8). M: L, 5.4; H, 1.3; T, 0.75. Feat.: heavy overhanging lip stamped with vertical wavy lines. Da.: early sixth century.

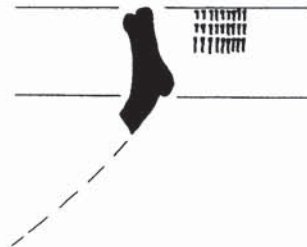
Ref.: LRP, p. 151, Form 98; Saraçhane, p. 94, fig. 33, D14, 8-11, Phocian RS Ware.

GN92—19 (Ill. 3; fig.104; plate XII a)

S: same as above. C: same as above.

M: L, 8.3; H, 3; T, 0.7. Feat.: outcurved rim stamped with three rows of close-set vertical lines, graded (top to bottom) from short to long. Da.: early sixth century.

Ref.: same as above.



Ill. 3.

G91—17 (fig.105)

S: base fragment of shallow bowl. C: fine; brown (2.5YR6/6), with orange core 92.5YR7/6). M: 5.1 X 6.15. Feat.: ring foot. Da.: early sixth century.

Ref.: LRP, p. 136, Form 88.

GN92—7 (fig.106)

S: shoulder fragment of amphora. C: coarse; reddish buff (2.5YR7/4) with fine buff slip (2.5YR7/4). M: H, 8; W, 7.8; T, 1.1-1.4. Feat.: Greek

letter M is incised. Da.: sixth century.

Ref.: Saraçhane, p. 225, fig. 28, 4; Hautumm, Abb. 23, Kat. Nr. 6; Bakirtzis, p. 83, pl., 23, 16.

GN92—10 (fig.107)

S: fragment of lower part of amphora. C: smooth; reddish brown (2.5YR6/8). M: 10.3 x 11.4; H, 9.25. Da.: sixth century.

Ref.: P-W, p. 8, fig. 2, Kuzmanov Type XIX.

GN92—14 (fig.108)

S: rim fragment of lamp with pinched handle. C: fragile; orange (2.5YR7/6). M: (body) L, 6.2; H, 3.2; (handle) L, 1.7. Feat.: three-and-a-half four-petaled flowers painted on rim. Da.: sixth century.

Ref.: Hautumm, Abb. 196, 197; Saraçhane, p. 84, Type 2, 10, pl. 18, 10.

G91—10 (fig.109)

S: handle fragment of amphora. C: coarse; reddish gray (10R5/1) with light brown core (2.5YR5/8). M: H, 4.8; W, 4.45; T, 0.7. Feat.: two wide, incised lines on handle. Da.: sixth-seventh century.

Ref.: Hautumm, Kat. Nr. 88, Abb. 187.

GN92—22 (fig.110)

S: base fragment of conical cup. C: smooth, fine; buff (7.5YR8/3) with lower part painted brownish gray (7.5YR5/1). M: (base) Dia., 5.45; (body) T, 0.6. Feat.: wide brown line on lower part. Da.: early seventh century.

Ref.: Sardis, p. 65, fig. 313, E7; Saraçhane, p. 101, fig. 42, D30, 96.

GS92—4 (fig.111)

S: upper body fragment of pithos with wide lip. C: smooth; orange (7.5YR7/6). M: H, 15.4; Dia. (outer), 31.5; T, (lip) 2.6, (body) 2. Feat.: two incised wavy lines are enclosed between two incised straight lines

on the lip. Da.: early seventh century.

Ref.: Sardis, p. 58, fig. 247, E5.

GN92—28 (fig.112)

S: basin fragment with handle. C: orange-tinted ivory (7.5YR8/4) with light brown core (5YR7/6). M: (body) H, 8.1; W, 4.7; (handle) L, 6.2; H, 4.2; W, 3.2; T, 2.65. Feat.: no lip, round handle. Da.: 655-670.

Ref.: Saraçhane, p. 101, fig. 41, D29, 68.

GN92-31 (Ill. 4; fig.113)

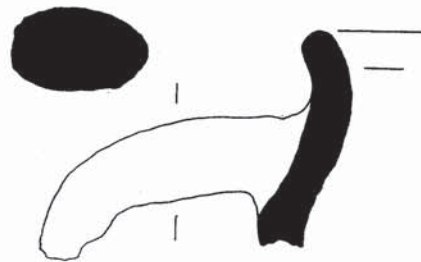
S: neck fragment of amphora with handle. C: solid; reddish orange (2.5YR6/6). M: (neck) L, 9.05; W, 6.2; T, 0.7-1.2, (lip) 0.8; (handle) L, 7.9; W, 3.5; T, 2.15.

Feat.: shallow, overhanging lip.

Da.: seventh century.

Ref.: Hautumm, Kat. Nr. 12, Abb. 32;

Saraçhane, p. 68, fig. 23, 3.



Ill. 4.

GN92—32 (Ill. 5; fig.114)

S: neck fragment of amphora with handle.

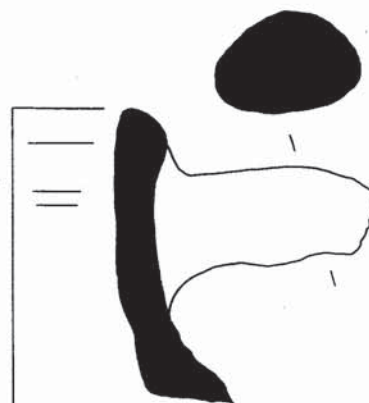
C: coarse; light orange (5YR7/6). M: (neck)

L, 7.9; H, 8.7; T, 0.8, (lip) 1.5; (handle)

L, 5.4; W, 1.15; T, 3.05. Feat.: overhanging lip, handle attached at neck ring.

Da.: late seventh century.

Ref.: Hautumm, Kat. Nr. 14, Abb. 35.



Ill. 5.

GN92—21 (fig.115)

S: neck fragment of tsoukalion. C: fine; dull orange (5YR7/4) with brownish-gray paint (5YR4/1). M: L, 8.5; H, 6.9; T, 0.65-0.9. Feat.: groove below thin lip. Da.: eighth century.

Ref.: Saraçhane, p. 110, fig. 55, D34, 60.

GN92—6 (fig.116)

S: neck fragment of tsoukalion. C: coarse; orange (2.5YR7/6) with dull orange core (5YR7/4). M: L, 5; H, 4.5; T, (body) 0.9, (lip) 0.8. Feat.: white plaster attached. Da.: eighth century.

Ref.: Saraçhane, p. 110, fig. 55, D34, 60.

GN92—3 (Ill. 6; fig.117)

S: neck fragment of tsoukalion. C: smooth; brownish gray (7.5YR5/1) with orange core (7.5YR7/6). M: L, 7.3; H, 5.65; T, (neck) 0.4, (lip) 0.8. Feat.: slightly concave neck with upright rim. Da.: eighth century.

Ref.: Saraçhane, p. 110, fig. 55, D34, 60.



Ill. 6.

GN92—4 (Ill. 7; fig.118; plate XII c)

S: neck fragment of tsoukalion. C: coarse with white grains; dull orange (7.5YR7/4). M: H, 4.8; W, 9.8; T, (rim) 0.75, (shoulder) 0.9. Feat.: brown paint drips on inner rim. Da.: mid- to late-eighth century.

Ref.: Saraçhane, p. 110, fig. 55, D34, 60.



Ill. 7.

GN92—33 (Ill. 8; fig.119)

S: neck fragment of amphora with handle. C: fine; orange (5YR7/6) with pale orange core (5YR8/4). M: (body) H, 8.5, ; W, 7.3; T, 8.5; (lip) L,

1.5; T, 0.9; (handle) L, 3.7; W, 4; T, 2.15.

Feat.: traces of orange (2.5YR6/6) paint down length of neck from handle. Da.: early ninth century.

Ref.: Saraçhane, pp. 113-114, fig. 58, D36, 17, and pl. 15, h.



Ill. 8.

GN92—8 (fig.120)

S: base fragment of tsoukalion with body. C: solid; light yellowish orange (7.5YR8/4). M: (body) H, 3.6; W, 4.2, (base) 6.45. Feat.: traces on base of concentric rings of the wooden wheel on which vessel was turned. Da.: thirteenth century.

Ref.: Bakirtzis, pl. 1, 2.

GN92—11 (fig.121; plate XIII e)

S: upper fragment of pithos with spreading neck. C: solid; dull orange (5YR7/4). M: H, 19.5; W, 19.8-14; T, (rim) 3, (body) 2.4. Feat.: under horizontal groove on neck has pattern comprising an incised wavy line superimposed on two horizontal incised lines, below which are two close-set wavy lines. Da.: thirteenth century.

Ref.: Sardis, p. 58, E5; Saraçhane, p. 101, fig. 41, D30, 83.

Karacaören Ada

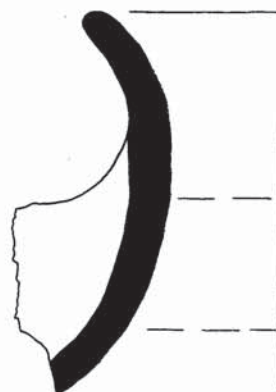
KS92—35 (fig.122)

S: neck fragment of stamnos (transport vessel) with handle stump. C:

fine; orange (5YR7/6). M: (neck) H, 10.2; W, 8; T, 0.9, (lip) 1.2; (handle) L, 1.1. Feat.: sloping lip rests on handle stump. Da.: third-fifth century. Ref.: Hautumm, for shape, Abb. 274-278; for chronological table, Abb. 297.

KS92—18 (Ill. 9; fig.123)

S: neck fragment of amphora. C: coarse; light yellowish orange (7.5YR8/4). M: L, 10.2; H, 9.5, (lip) 1.8; T, (lip) 0.6; Dia., (handle) 4. Feat.: shallow lip, trace of handle. Da.: third-fifth century. Ref.: Hautumm, Abb. 274-278, 297.



Ill. 9.

KN92—17 (Ill. 10; fig.124)

S: fragment of upper part of amphora body. C: fine; orange (2.5YR6/8). M: L, 13.3; H, 5.5; W, 7.8—11.3, (handle) 4.1; T, 1.7. Feat.: angular, overhanging lip spreading from short neck; wide, flat handle. Da.: third-mid-fifth century. Ref.: P-W, p. 32, Class 23.



Ill. 10.

KS 92—23 (fig.125; plate XIII b)

S: neck fragment of amphora with handle. C: fragile; pale orange

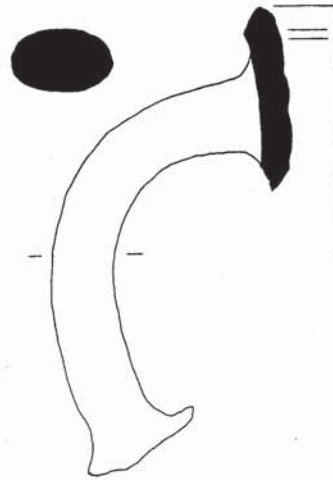
(2.5YR7/3). M: L, (handle) 7.3; H, 12; W, (neck) 5.2, (handle) 3.4; T, (neck) 0.9, (handle) 2.4. Feat.: overhanging lip; incised lines on neck; neck ring; wide, flat handle. Da.: third-sixth century.

Ref.: Hautumm, Abb. 286, 287, chronological table

KS92—28 (Ill. 11; fig.126)

S: neck fragment of amphora with handle. C: fine; light orange (5YR8/6) with orange core (5YR6/6). M: L, (neck) 7; H, 17.2; W, (neck) 4.8, (handle) 3.9; T, (rim) 1.2, (neck) 0.6, (handle) 2.4. Feat.: sloping lip; solid, C-shaped handle. Da.: third century.

Ref.: P-W, pp. 175-176, Class 40 B; Hautumm, Abb. 331.



Ill. 11.

KN92—12 (fig.127)

S: fragment of stamped base of dish (African RS). C: same as G91-20. M: 2 x 2. Feat.: criss-cross lines in one corner, concentric lines in another. Da.: 325-425/450.

Ref.: LRP, for motif (Type 69) p. 241, for shape, pp. 100-107, 109-111.

KN92—1 (fig.128)

S: rim fragment of lamp. C: smooth; orange (2.5YR7/8). M: L, 5.1; W, 1.8; T, 1.3. Feat.: shallow relief of plants on rim. Da.: fourth-fifth century. Ref.: Hautumm, Abb. 196—197; Saraçhane, p. 85, Type 4, 20 and pl. 19, 20.

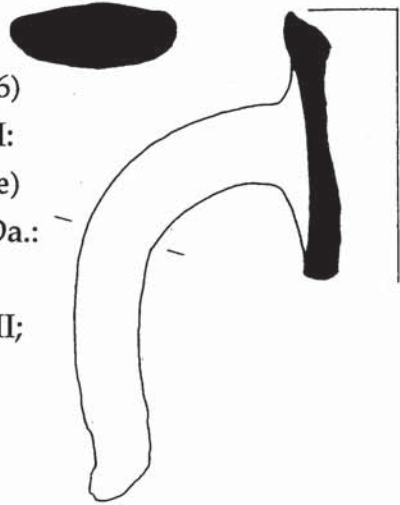
KN92—18 (fig.129)

S: upper fragment of amphora with handle. C: coarse; yellowish brown (7.5YR7/6) with dark orange core (2.5YR6/6). M: (body) H, 10.5; W, 13; T, (lip) 1.4; (handle) L, 9.3; W, 3.5; T, 2.7. Feat.: long neck.

KN92—29 (Ill. 12; fig.130)

S: part of amphora handle with neck fragment. C: solid; dark orange (2.5YR6/6) with yellowish-brown core (7.5YR7/6). M: H, (total) 14.4, (neck) 7.2; W, 4.9; T, (handle) 2.9, (neck) 1.1. Feat.: broad, flat handle. Da.: fifth century.

Ref.: P-W, p. 8, fig. 2, Kuzmanov's Type XII; Hautumm, Kat. Nr. 186, Abb. 331.



Ill. 12.

KS92—6 (fig.131)

S: fragment of upper part of shallow bowl. C: coarse; orange slip (5YR6/4). M: H, 3.9; W, 8.2; T, 0.9-1.15. Feat.: incised open wavy line between two incised straight lines near rim. Da.: fifth century.

Ref.: Saraçhane, p. 101, fig. 41, 83.

K91—1 (fig.132; plate XIII g)

S: rim fragment of unidentified vessel (African RS). C: fine; orange (2.5YR6/8). M: L, 7.1; H, 4.6; T, 2.3. Feat.: bird³ stamped in hollowed-out oval on rim. Da.: fifth-sixth century.

Ref.: Carthage, p. 522, fig. 28, 512; LRP, for date, pp. 346-347, 349, for stamp motif (Motif 49), p. 361, fig. 77, 49.

KN92—25 (fig.133)

S: body fragment of bytina. C: coarse, mixed with limestone and crystal; orange (7.5YR7/6. M: H, 6.3, W, (body) 9.5, (handle) 2.5; T, (body) 0.75-0.65, (handle) 1.5. Feat.: solid body; wide, flat handle with groove along center that probably derives from metal form. Da.: fifth-sixth century.

KS92—32 (Ill. 13; fig.134)

S: handle of amphora. C: fine; dull orange (5YR7/4) with fine, pale orange slip (5YR8/4). M: L, 10.4; W, 3.4; T, 2.5. Da.: fifth-sixth century.



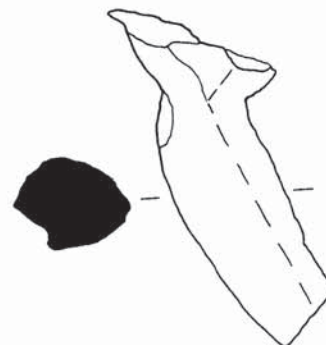
Ill. 13.

KN92—7 (fig.135; plate XIII f)

S: upper-body fragment of basin with handle. C: coarse; orange (5YR7/6) with fine, pink buff slip (2.5YR5/6). M: (body) H, 14.9; W, 22.2; T, 1.65, (lip) 3.4; (handle) L, 1.3; W, 4.9; T, 3.1. Feat.: open, wavy incised line along wide lip; carefully made three-ribbed handle. Da.: fifth-sixth century.

K91-9 (Ill. 14; fig.136)

S: handle fragment of stamnos. C: gritty; orange (7.5YR7/6) with buff core (10YR7/3). M: L, 10.4; W, 3.2; T, 2.6. Feat.: round, ridged handle with trace of body. Da.: fifth-sixth century.



Ill. 14.

KS92—1 (fig.137)

S: upper body fragment of pithos. C: smooth, with rough core; pale orange (5YR8/4) with orange core (2.5YR7/6). M: H, 20.7; W, 14.5; T, 1.7-1.8. Feat.: wide band with clay scooped out to create motif of diamond-shaped cut-outs; traces of orange (2.5YR6/8) below band. Da.: fifth-sixth century.

KS92—30 (Ill. 15; fig.138; plate XII f)

S: neck fragment of tsoukalion.

C: coarse; gray (5YR5/1) with faintly brownish core 7.5YR6/2). M: L, (total) 9.2, (neck) 4; W, (neck) 6.5, (handle) 4.3; T, (neck) 0.7, (handle) 1.7. Feat.: concave neck with no lip; flat handle with four ribs (rare).

Da.: fifth-sixth century.

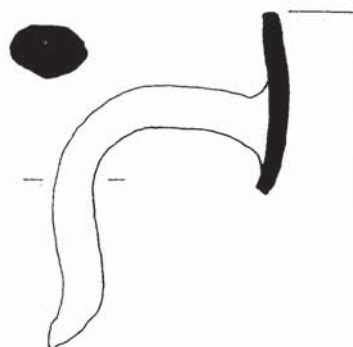


Ill. 15.

K91—7 (Ill. 16; fig.139; plate XIII d)

S: neck fragment of amphora with rounded, elbow-shaped handle. C: coarse; brown (19YR6/2) with pink buff slip (10YR6/4). M: (body) H, 4.2; T, 0.55; (handle) W, 2.85; T, 1.2. Feat.: spreading rim. Da.: fifth-sixth century.

Ref.: Hautumm, Kat. Nr. 28, Abb. 59.



Ill. 16.

KN92—30 (fig.140)

S: base fragment of unidentified vessel (hanging lamp?) with discus. C: fine; buff (7.5YR8/4). M: L, 8.5; H (total) 3.8; Dia., 5.2; T, (discus) 1.4. Feat.: tapering base. Da.: fifth-sixth century.

K91—6 (fig.141)

S: neck fragment of tsoukalion with handle. C: coarse; dark orange (5YR7/6) with yellowish-brown core (7.5YR7/6). M: (neck) H, 3.45; W, 4.4; T, 1.05; (handle) W, 2.25; T, 1.7. Feat.: overhanging lip. Da.: fifth-sixth century.

KS92—17 (Ill. 17; fig.142)

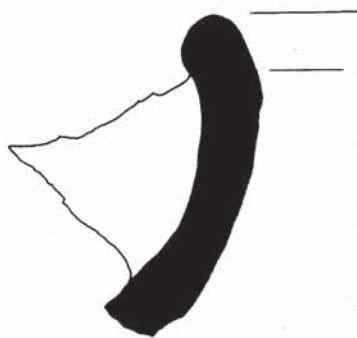
S: neck fragment of amphora with handle.

C: solid; light brown (7.5YR7/4). M: H, (total) 10.2; Dia., (handle) 4; T, (lip) 1.8.

Feat.: roughly made overhanging lip; three vertical scratches on shoulder.

Da.: fifth-sixth century.

Ref.: Hautumm, Kat. Nr. 159, Abb. 203.



Ill. 17.

KN92—19 (fig.143)

S: neck fragment of amphora with handle. C: fine; yellowish brown (7.5YR6/6). M: (body) H, 10.5; W, 8; T, 0.8, (lip) 1.4; (handle) L, 5; W, 3.7; T, 2.9. Feat.: well-made, overhanging lip. Da.: fifth-sixth century.

KN92—28 (Ill. 18; fig.144; plate XII b)

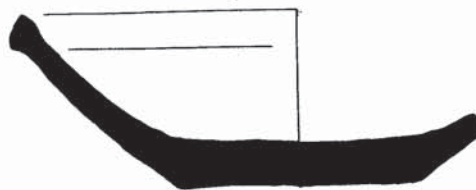
S: dish fragment. C: fine; buff

(7.5YR8/4). M: (body) L, 13;

H, 4.8; T, 0.7, (lip) 1; (base)

Dia., 6.3; T, 1.3. Feat.: angular

lip. Da.: fifth-sixth century.



Ill. 18.

KN92—15 (plate XIII h)

S: complete neck of amphora. C: solid; buff (10YR8/4) with yellowish-brown core (5YR7/6) M: H, 12.2; W, 13.2; Dia., (inner) 9.5, (outer) 5.7.

Feat.: slightly overhanging, rounded lip; uneven neck with traces of handle. Da.: fifth-seventh century.

Ref.: P-W, pp. 185-187, Class 44 A

K91—5 (Ill. 19; fig.145)

S: lower part of slender fusiform vessel (late Roman unguentaria). C: smooth; dark gray (2.5YR6/1) with reddish-gray core (7.5YR7/1). M: H, 9; Dia., (top) 3.7, (bottom) 1.2; T, 0.75-1. Feat.: X stamped near where base roughly cut off. Da.: mid-sixth century.

Ref.: Saraçhane, p. 8, pl. 16, 3, 9.2



Ill. 19.

KN92—10 (fig.146)

S: fragment of lid with knob. C: coarse; orange (5YR6/6). M: 7.2 x 7.8; H, (body) 3.7, (knob) 1.8; Dia., (knob) 3.35. Feat.: outer rim of lid has three concentric, incised lines. Da.: 526-527.

Ref.: Saraçhane, p. 10, pl. 19, 9, p. 96, D15, 7, fig. 34.

KS92—13 (fig.147)

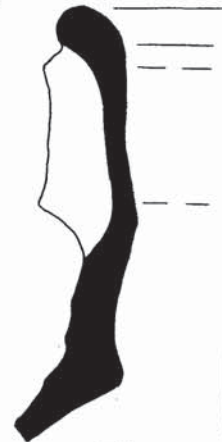
S: fragment of lower part of bell-shaped bowl with discus (Egyptian RS). C: smooth; buff (10YR8/3) with orange core (7.5YR7/6). M: Dia., 4.5; H, 3.3; T, 4.5. Feat.: discus base. Da.: sixth century.

Ref.: LRP, p. 389, fig. 86 C.

KS92—15 (Ill. 20; fig.148)

S: ring foot of small bowl (Egyptian RS). C: fine; yellowish brown (7.5YR7/6). M: H, 0.5; T, 0.55; Dia., 4.55. Da.: sixth century.

Ref.: LRP, p. 392, fig. 86, O.



Ill. 20.

KS 92—14 (fig.149)

S: ring foot of small bowl (Egyptian RS). C: smooth; buff (7.5YR8/3).

M: H, (total) 1.9; (foot) H, 0.8; T, 0.7; Dia., 5.3. Da.: sixth century.

Ref.: LRP, p. 398, fig. 86, C.

KS92—10 (fig.150)

S: body fragment of amphora. C: solid; grayish brown (5YR7/3) with buff core (10YR8/3). M: H, 12; W, 11; T, 0.9. Feat.: close-set incised lines on entire surface. Da.: sixth-seventh century.

Ref.: Hautumm, Kat. Nr. 659, Abb. 113; Carthage, p. 492, fig. 16.

KS92—11 (fig.151; plate XII h)

S: body fragment of tsoukalion. C: fine; pink buff (2.5YR6/6). M: H, 9.6; W, 9.9; T, 1.1. Feat.: close-set incised lines on entire surface. Da.: sixth-seventh century.

Ref.: Hautumm, Kat. Nr. 69, p. 43, Abb. 113; Carthage, p. 482, fig. 16, 317.

KS92—27 (fig.152)

S: neck fragment of amphora with handle. C: solid; reddish brown (2.5YR6/6) with yellowish-brown core (7.5YR7/6). M: L, (total) 14.4; (neck) H, 7.2; T, 1.1; (handle) W, 4.9; T, 2.9. Feat.: broad, solid handle. Da.: sixth-seventh century.

Ref.: P-W, p. 204, fig. 122, A, Class 52; Hautumm, Kat. Nr. 44, p. 196, Abb. 89.

KS91—13 (fig.153; plate XII d)

S: part of basin with handle fragment. C: fine, solid; orange (5YR7/6). M: (body) H, 9.8; W, 9.4; T, (lip) 2.2; (handle) W, 2.2. Feat.: curved, incised line on body; incised line on handle. Da.: early seventh century.

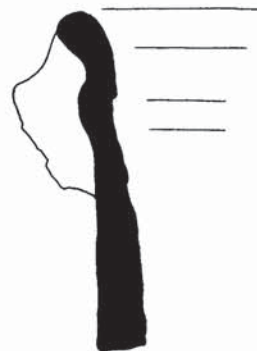
Ref.: Sardis, fig. 369, E5, E10.

KS92—20 (Ill. 21; fig.154; plate XIII c)

S: neck fragment of amphora. C: fine; buff (10YR8/4). M: H, 9.5; W, 1; T, 1.5 (rim) 1.1.

Feat.: slightly overhanging lip; neck ring; trace of handle. Da.: 655-670.

Ref.: Saraçhane, pp. 100, 103, Type 5 amphora; Hautumm, Abb. 167.



Ill. 21.

KS92—7 (fig.155)

S: body fragment of stamnos. C: coarse; orange (5YR7/6) with light orange core (10YR8/3). M: H, 11.6; W, 9; T, 0.75. Feat.: horizontal incisions on upper and lower parts. Da.: seventh century.

Ref.: Hautumm, Kat. Nr. 2, Abb. 18; P-W, pp. 185-187, Class 44.

K91—12 (fig.156)

S: amphora base with part of body attached. C: coarse; orange (7.5YR7/6). M: Dia., (top) 10.2, (bottom) 4.5. Feat.: rounded toe. Da.: seventh century.

Ref.: Hautumm, Kat. Nr. 101, 102, Abb. 305, 306.

K91—8 (fig.157)

S: neck fragment of stamnos with handle. C: coarse; grayish buff (7.5YR5/2) with dull orange core (7.5YR6/4). M: (neck) H, 3.3; W, 6.65; T, (lip) 1.2; (handle) W, 2.1; T, 1.4. Feat.: slightly overhanging lip; neck ring; round handle with groove in center. Da.: seventh century.

Ref.: Hautumm, Kat. Nr. 14, Abb. 35.

K91—2 (fig.158)

S: shoulder fragment of amphora. C: fine; orange (5YR7/6). M: 14.9 x 17; T, 0.95. Feat.: seven Greek letters (meaning unknown) at top of

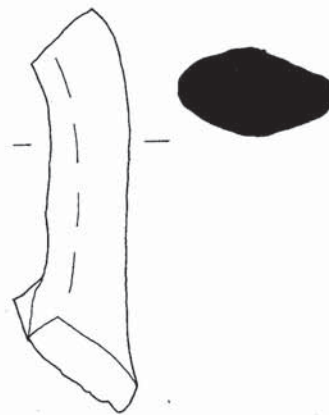
fragment above horizontal incised lines. Da.: 650-675.
Ref.: Hautumm, 182, Kat. Nr. 2, Abb. 18.

KS92—12 (fig.159)

S: amphora stopper. C: coarse; light brown (5YR7/6) with buff core (5YR7/6). M: H, 4.6; Dia., 5.1; T, 0.5. Da.: twelfth century.
Ref.: Saraçhane, 133, fig. 75, D49, 43.

KS92—31 (Ill. 22; fig.160)

S: piece of amphora handle with fragment of body attached. C: fine; yellowish brown (5YR7/6) with light orange core (7.5YR8/6). M: (handle) L, 11; W, 4.1; T, 2.3; (body) W, 5.7. Feat.: handle broad, well made. Da.: thirteenth century.
Ref.: Bakirtzis, pl. 19, 5.



Ill.22.

Conclusion

On the basis of the pottery finds catalogued above, it is possible to establish a chronology of human activity on Gemiler Ada and Karacaören Ada, as well as to extrapolate its significance in terms of the Byzantine empire. To this end, the 69 sherds have been divided into five ware groups and, further, into ware types,⁴ as follows. Fine Wares, restricted to table use and characterized by the use of a slip or smooth clay, represented by the dish and bowl; Plain Wares, used at the table and for the preparation and storage of food, represented by the basin, bell-shaped cup, bytina, conical cup, small bowl, stamnos and tsoukalion;⁵ Fireproof Cooking Vessels, represented by the tsoukalion; Transport Vessels,

represented by the amphora and stamnos; and Storage Vessels, represented by the basin, bytina, pithos, and tsoukalion.

The amphora, basin, bytina, dish, lamp, pithos, shallow bowl and tsoukalion were found on both islands; the bell-shaped bowl, small bowl, stamnos and fusiform vessel only on Karacaören Ada; while the conical cup was found only on Gemiler Ada. Although the number of finds is weighted in favor of Karacaören Ada, a greater variety of ware types was clearly in evidence on Gemiler Ada.

Fine Wares were found on both islands in what appear to have been residential areas. The sherds of two dishes and three shallow bowls are from Gemiler Ada,⁶ while two dishes and a single shallow bowl are from Karacaören Ada.⁷ Looking at these finds on the basis of the north-south division applied to the 1992 expedition, it appears that Fine Wares came only from the north of Gemiler Ada (two shallow bowls),⁸ but from both the north and south of Karacaören Ada (two dishes, one shallow bowl).⁹ Meanwhile, the finds of Plain Wares that were probably intended for table use indicate the presence of a residential area in the north of Gemiler Ada¹⁰ and in the south of Karacaören Ada.¹¹

In terms of color, all but six of the 69 sherds are orange (hue 2.5YR, 5YR, or 7.5YR).¹² Only one of the Fine Ware sherds of a different color (pls. 1, 2),¹³ and most of the Plain Ware sherds are of the same color (pls. 3, 4),¹⁴ with just six of them having a subtly different colored buff (hue 7.5YR or 10YR) (pl. 5).¹⁵ Since only three Fireproof Cooking Vessel sherds (one from Gemiler Ada, two from Karacaören Ada) were found, no color can yet be assigned to this vessel type (pls. 6, 7, 8).¹⁶ Transport Vessel sherds of orange, buff, and grayish brown clay were found: those of orange clay, varying from dull to pale reddish hues, predominated on both islands (pls. 9, 10);¹⁷ those of buff clay (hue 7.5YR or 10YR) were only on Karacaören Ada¹⁸ and were less common (pls. 11, 16); and those of grayish-brown (hue 7.5YR, 10YR)¹⁹ were also found on Gemiler Ada and Karacaören Ada and were the least common (pl. 12). The clay of

the Storage Vessels is also orange, and varies from dull to pale hues (pls. 13, 14).²⁰

On the basis that most of the finds were of orange clay, it seems likely that they were made locally, from the locally available orange clay.²¹ This may also be true of the Plain Wares of buff clay²² and the Transport Vessels from Karacaören Ada, since the buff clay from which they are made is of a similar color to the orange clay found on the island. Some of the items in the latter group could, however, have been imported, as it seems likely were all the grayish-brown Transport Vessels from Gemiler Ada and Karacaören Ada. Since the clay has so far been found used only for this group of vessels, the containers could have been produced somewhere else and used to transport oil or wine to the island.

The finds all date from between the third and the thirteenth century. From the earlier part of this time frame, one sherd from Gemiler Ada is from the Late Roman period,²³ as are five from Karacaören Ada.²⁴ 25 sherds from Gemiler Ada are dated between the fourth and the eighth century,²⁵ and 33 from Karacaören Ada between the fourth and seventh century.²⁶ From the later part of our time frame, one sherd from the early ninth century and two from the thirteenth century are from Gemiler Ada, while there are only two sherds from between the twelfth and the thirteenth century from Karacaören Ada.²⁷

Human activity on both islands dates back to the third century, the Late Roman period, with all the finds (except one from Karacaören Ada) dated between either the third and fifth, or the third and sixth century.²⁸ Activity seems to have reached its acme in the Early Byzantine period, since 25 of the 29 sherds from Gemiler Ada are dated between the fourth and eighth century, while 33 of the 40 from Karacaören Ada are dated between the fourth and seventh century.²⁹ The dearth of finds for the following, Middle Byzantine period (one early ninth-century sherd from Gemiler Ada³⁰), leads one to speculate that human activity stopped abruptly toward the end of the Early Byzantine period and that

the islands were abandoned in the Middle Byzantine period.³¹ The two sherds from Gemiler Ada³² dated to the thirteenth century and the two from Karacaören Ada dated to the twelfth and thirteenth century, respectively, indicate that the islands were briefly reoccupied in the twelfth or thirteenth century.³³

Notes

1. Carthage, pp. 437-440.
2. J. W. Hayes proposes the term Late Roman unguentarium in "A New Type of Early Christian Ampulla," *BSA* 66 (1971), pp. 243-48. There he also suggests a Palestinian source for the ware fabric (*ibid.* p. 246).
3. According to a *Portulan* from the early fourteenth century (Mario Sanudo, No. 26), Gemiler Ada was called *ixola de Pernixe* (Island of the Partridge). This is of interest, since the bird on the rim looks like a partridge. For reference, see K. Kretschmer, *Die italienischen Portolane des Mittelalters*, Berlin 1909, pp. 202, 220, and W. Tomascheck, "Zur historischen Topographie von Kleinasien in Mittelalter," *Sitzungsberichte der philosophisch-historischen Class der kaiserlichen Akademie der Wissenschaften*, Bd. 124, Wien 1891, VIII, Abhandlung 43-45. Also for a discussion of the name of the island, see T. Masuda, "The Island of Agioi Nikolaoi: A Byzantine City in Lycia and the Early Cult of St. Nicholas," *MEDITERRANEUS* (Annual Report of the Collegium Mediterranistarum), XVII, 32 and note 55.
4. There are 13 ware types, namely, amphora, basin, bell-shaped cup, bytina, conical cup, dish, lamp, pithos, shallow bowl, small bowl, stamnos, tsoukalion, and fusiform vessel.
5. Basin, bytina, conical cup and tsoukalion from Gemiler Ada; basin, bell-shaped bowl, bytina, small bowl, stamnos, tsoukalion from Karacaören Ada.
6. Dishes, G91—20, G91—18; shallow bowls, GN92—17, GN92—19, and GN91—17.
7. Dishes, KN92—12, KN92—28; shallow bowl, KS92—6.
8. GN92—17 and GN92—19.
9. See *supra* 6.

10. Conical cup, GN92—22.
11. Bell-shaped bowl, KS92—13; small bowls, KS92—15, KS92—14. *E x c l u d e s* stoukalion, KS91—6, the location of which was not recorded.
12. See GN92—19, GN92-4, G91—1, GN92—11, KN92—28, K91—13, KS92—23, and KS92—7.
13. See G91—20, G91—18, G91—7, GN92—17, GN92—19, KN92—12, and N 92—28 for orange sherds; KS92—6 for different color.
14. See G91—12, G91—15, GN92—21, GN92—6, GN92—3, GN92—4, K91—9, K91—6, K91—13, and KN92—10.
15. See GN92—23, GN92—22, GN92—28, GN92—8, KS92—13, and KS92—14.
16. G91—11 and G92—30, grayish brown; KS92—1, light brown.
17. See GN92—9, GN92—7, GN92—10, GN92—31, GN92—3, GS92—1, G91—1, GN92—32, KN92—17, KS92-23, KS92—29, KN92—27, KS92—35, KS92—32, KS92—10, KS92—7, K91—2, KS92—12, KS92—31, KN92—18, KS92—17, KS92—19, and K91—12.
18. See KS92—18, KS92—28, KN92—15, and KS92—20.
19. See G91—10, K91—8, and K91—7.
20. See GS92—5, GS92—4, GS92—11, KN92—25, KN92—7, and KS92—1.
21. Four are African RS Wares: G91—20, G91—18, KN92—12, K91—1 (pl. 15). For African RS Wares see LRP, pp.13 ff., *passim*.
22. Two are Egyptian RS Wares: KS92—13 and KS92—14. For Egyptian RS Wares see *ibid.* pp. 387 ff., *passim*.
23. See GS92—1.
24. See KS92—35, KS92—18, KN92—17, KS92—23, and KS92—28.
25. See G91—20, G91—1, G91—1, GN92—9, G91—12, G91—18, GN92—23, GS92—5, G91—15, GN92—17, GN92—19, G91—17, GN92—7, GN92—10, GN92—14, G91—10, GN92—22, GS92—4, GN92—28, GN92—31, GN92—32, GN92—21, GN92—6, GN92—3, and GN92—4.
26. See KN92—12, KN92—1, KN92—18, KS92—29, KS92—6, K91—1, KN92—25, KS92—32, KN92—7, K91—9, KS91—1, KS91—30, K91—7, KN92—30, K91—6, KS92—17, KN92—19, KN92—28, KN92—15, K91—5, KN92—10, KS92—13, KS92—15, KS92—14, KS92—10, KS92—11, KS92-29, K91—13, KS92—20, KS92—7, K91—12, K91—8, and K91—2.
27. See GN92—33 for early ninth century; GN92—8 and GS92—11 for thirteenth century; KS92—12 and KS92—31 for twelfth and thirteenth century, respectively.
28. See *supra* 18, and 19.

29. See supra 20, and 21.
30. See supra 22.
31. Arab invasions are the most likely cause.
32. See supra 26.
33. It is reported that the frescoes in the chapel of Church III have been dated to a later period than the construction of the original basilica. This could indicate that the island was reoccupied, since the later decoration coincides with the later sherd finds.

Postscript

I would like to express my deep gratitude to Professor Chalarambos Bakirtzis for having taken the time to discuss the materials and for the comments and suggestions that helped me evaluate and understand the significance of the finds. The responsibility for any errors is exclusively my own. I am also most grateful to the members and staff of the Archaeological Museum of Fethiye, Lycia, whose kind assistance made it possible for me to benefit from their immense resources. Last but not least, I wish to express my sincere thanks to the Takanashi Scientific Fund, which supported my research in Greece and Turkey in 1993.

(Toshio Katsumata)