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Panormos tetradrachms

1-10 (Plate 7)

This first group has already been discussed by Kraay in *Schweizer Münzblätter* 51/54, 1964, 61 ff. ¹⁵, and to his material there are two significant additions to make. First, no. 3, where the standing river-god of Selinuntine type is accompanied by a ram instead of a bull; the precise interpretation of this must remain speculative though it inevitably recalls the Zeus Ammon with ram on the gold coins of Cyrene ¹⁶. A ram alone occurs on later bronzes of Panormos ¹⁷. The female head of no. 4 is copied from Syracuse, apparently from the type of Boehringer Reihe XVIII; while that of a newly-discovered specimen no. 4 A (p. 44, fig,) is clearly modelled the Syracusan type with the sakkos Boehringer Reihe XX. Next come nos. 5–6 with an Apollo head of the Leontinoi-Katana type; and finally nos. 7–10 are copied from Syracusan coins by Eumenes, complete with the Syracusan legend and even the signature of the engraver. The addition of the Punic legend sys to obverse die 2 (no. 10) forms a further element in the evidence for this legend; the obverse die in question is also used with reverses inscribed *Panormitikon* (Plate 7, 5–6). So far as this goes, it tends to reinforce our previous discussion (p. 29–31 above).

Kraay places no. 10 at 410 B.C.; it may have to be a little later in view of the dating necessary for the following group (see below) which seems to continue closely from the Eumenes style of the present group.

In this group there are two obverse dies O₃ and O₄ linked by R₁₃. The «Eumenes» style and the arrangement of dolphins as seen in R₁₀ (no. 11) forms a natural continuation to the reverse dies of the previous group. Important for the chronology are two reverses copied from Syracusan coins of the period after 412 B.C.: R₁₃ is based on a head by Eukleidas, Tudeer reverse 35 with sphendone and fivefold earring, and R₁₄ is clearly derived from Tudeer reverse 38 with the topknot. The last-mentioned Syracusan coin must be of c. 410–405, so that as the Punic imitation cannot be earlier it seems most feasible to start the present group at c. 405 at earliest; this may indicate that the previous group (nos. 1–10) should finish a little later than 410, where Kraay placed no. 10 with the first Punic legend. The remaining

¹⁵ Kraay, nos. 1-2 = my nos. 1-2; Kraay, nos. 3-9 = my nos. 4-10.

¹⁶ L. Naville, Monnaies d'or de la Cyrénaique, nos. 69–76. – The resemblance may perhaps go further, if it is conceivable that the new Panormos coin (no. 3) might be intended to represent Baal Hammon, who may, in turn, have been to some extent assimilated with Ammon (on which cf. Gsell, Histoire ancienne de l'Afrique du Nord, IV, pp. 281 f.).

¹⁷ Gabrici, Monetazione del bronzo, tav. VIII, 13 (II-Ic B.C.?).

reverses seem to show a further adaptation of the «Eumenes» style but without close Syracusan parallels. The direction of the sequence is indicated by the absence of the shell in the exergue of O₄ (no. 16) though it is present on O₄ (nos. 17–21). It is noteworthy that the dolphin above the head is replaced by a fish on R 17 and R 19 (nos. 19 and 21 respectively).

22-24 (Plate 9)

This short group contains only one obverse die O 5 which is I think basically the same at no. 22 and at nos. 23–24; though if so there are numerous alterations, the most important of which is the addition of the column suggested by the Catana die Rizzo xiv 6. The single surviving specimen of no. 22 does not permit any certainity as to whether the crayfish was already present in the exergue. The reverse of no. 22 links by its style to the reverses of the previous group. R 21 however (no. 23) is an original head not closely copied from any obvious Greek prototype, though the hair flowing out behind recalls the head by IM at Syracuse (Tudeer, rev. 45). The epigraphic form of the legend, nowhere completely preserved, is interesting and unusual. Most original is the way in which the dolphin looking out below the neck is for some reason transformed into a corn grain at no. 24; the addition of corn grains can be seen again at nos. 43 and 51, and often at the Ršmlqrt mint. A newly-discovered specimen. no. 24 A (p. 44, fig.) combining obverse O 5 with reverse R 22 (of no. 25) creates a direct link with the following group and satisfactorily confirms the sequence already adopted.

25-43 (Plates 9-10)

This group contains three obverses, of which O 6 is linked to O 7 by R 23, and O 7 to O 8 by R 27. O 6 has no legend, though this is supplied by the reverse, and instead of the normal exergual line there is a maeander pattern. R 22 (no. 25) is a clear copy from the late Eukleidas head with floating hair (Tudeer R 60, etc.), with the addition of a bunch of corn ears behind and the legend \$9.5 in front between the dolphins. The style of the next reverses, R 23–27, is interesting as apparently a free adaptation from the type of Kimon's decadrachms, with a triple-drop earring but without a hair net, and emphasising the characteristic curls on the top of the head. The result admittedly seems remote from Kimon, whereas the final reverses of this group, R 28–29 are in fact closely copied from the Kimonian types. On the obverses O 7 and O 8 the legend is accompanied by a hippocamp which does not come direct from any Greek prototype, though it could conceivably have been suggested by the ketos on the last Himera coin, Rizzo xxi 23, or by the earlier Syracuse ketos.

This group is well represented in the Contessa hoard, buried c. 390–380 B.C. and in the very similar Vito Superiore hoard of similar date ¹⁸; this gives a satisfactory

¹⁸ Contessa hoard, NSc, 1888, pp. 302 ff. – Vito Superiore hoard, G. Procopio, Rendiconti del-l'Academia di Archaeologia, Lettere e Belle Arti di Napoli 27, 1953, 3 ff.

terminus for the series so far examined. The Ognina hoard, buried perhaps a little earlier, apparently contained a specimen of no. 21 from the previous group (by the reference given in *Atti e Mem. 5*, 1925, p. 18, «Hill Sicily x, 10») but this cannot be confirmed ¹⁹.

Here there are three obverses, of which the first two O 9 and O 10 are linked by R 30. O 11, the only die of this group on which the legend sys occurs, is not dielinked with the rest of the group, but the close resemblance between R 33 (no. 39) and R 34 (no. 40) seems to me to establish a sufficiently reliable connexion. O 9 and O 10 have no legend but symbols, ketos and swan respectively. On account of the swan, Lederer (ZfN 1924, 284) wished to assign this group of coins to the mint of Camarina. But O 9 and O 10 must nevertheless belong to a Punic mint, as is evident from the addition of a Tanit symbol to O 10 (no. 39), and as has been said the connexion with the sys coin (no. 40) seems adequately indicated. The style of the reverses in this group is extremely «Greek»; but as so often it is difficult to point to any precise model, though R 33 (no. 39) seems to me to recall strongly the style of Phrygillos at Syracuse (Tudeer, obv. 16) but without the sphendone which is however present on R 35 (no. 41). There is no direct indication of the chronology of this group as none of the specimens have appeared in any hoard. However there may well have been a gap after the previous group, and a reasonable date might be c. 370-360.

Here there are only two obverse dies of which the first, O12, is exceptional for depicting a standing or walking quadriga. It is linked to O13 by means of R37 and R39; and in fact both these obverses may have been in use at once, as the sequence contains some contradictory indications (see catalogue at no. 49). The dolphin in the exergue of O13 is picked up again by O14 of the next group. R36, to which a corn grain is added (no. 43), seems to be a distant derivative of the Kimon style, but perhaps we may also see some affinity to a style present in the Carthage series (e.g. McClean 3035) which should be of the mid-fourth century. R37 may be regarded as a rather strange copy from the late Eukleidas style already used more recognisably at no. 25 above, and it undergoes some peculiar alterations (see catalogue nos. 45, 46). R38, 39, 40 also seem to be remote descendants of the Kimonian style, also having some relation to a Carthage style (e.g. SNG II 1625) which may be rather after the mid-century. R40 has a prominent corn grain.

The resemblances to Carthage styles noted here should give us at least a rough indication for chronology, showing that this group belongs at about the middle or

¹⁹ Another hoard, from Termini Imerese (Noe 1092, NSc 1900, 205 f.) contained specimens which appear to have been of my group nos. 11–21 and nos. 27–34; but as the burial was much later, probably c. 320 B.C., it gives no useful indications.

even third quarter of the fourth century. This is to some extent confirmed by the presence of two specimens of this group (nos. 43, 50) in the Megara Hyblaea hoard of 1949, probably buried, as Vallet-Villard rightly suggest, «vers la fin du 3e quart» ²⁰. The hoard specimen of no. 43 is quite worn however, and the coins of this group need not be quite so late as the hoard limit suggests. Perhaps c. 360–340 might be a reasonable approximation, though probably too wide a bracket.

The two obverses O 14 and O 15 are not directly linked but the homogeneous style of all the reverses attests that the group must be placed together. The dolphin of O 14 seems to link back to the dolphin of O 13 in the previous group. Little can be said of the style of the reverses; it has no very obvious derivation, and a certain likeness to such a Carthage style as that of e.g. SNG II 1638 may well be misleading, as the latter can hardly be before the last quarter of the century. A style similar to our R 41–45 continues into the next group at nos. 57–58.

57–68 (Plates 12–13)

In this group there are three obverses O 16-18. O 16 has at first two dolphins alone (no. 57) and then at no. 58 two dolphins with the legend sys added; it is linked to O17 by R49, in the latest of that die's transformations. Whether O17 is directly linked to O 18 depends on whether R 53 and R 54 are basically the same die or not. In this group the style of Euainetos first makes its appearance, as it does in the Carthage series only during the third quarter of the century. It is interesting to observe that one of the first dies of this style, R 49, is remodelled once to make a more plausible imitation of Euainetos (no. 61) and then remodelled again (no. 62). No. 63 however gives a very authentic and Greek version of the Euainetos decadrachm style (based in this case on the issue with the dot as Gallatin J III, etc.), and no. 68 another version based on the issue with the shell, Gallatin E I, etc. but with the shell transferred from behind the head to below the chin. This latter occurs also in the Carthage series e.g. MMAG 43, 1970, 23 (with the horse rev.) and SNG III 1051 (with horse's head rev.) at a point which should be c. 325-320. Probably then the present group of sys should be of comparable date, and we may suggest as the limits c. 340-320 B.C. 21. The regular style of the obverses O 17 and O 18 is equally due to the influence of the Euainetos prototype and leads on to that of the next groups 22.

²⁰ Kokalos 4, 1958, p. 105.

²¹ The only hoard specimens which I can trace are those from the Mineo hoard (Noe 697, NSc 1905, 438 f.); by the reference there given to Hill, Sicily pl. X, 11, the coins should be my no. 66 but the hoard is not indicative for the date as the burial must be of the early third century B.C.

²² Perhaps at about this same time should be placed the late Syracuse tetradrachm of the Euainetos style (Tudeer 106) together with the very similar coin of Morgantina (Rizzo lx, 6); on the latter, the pellet is transferred to between the dolphins in the same way as on the \$y\$ coins no. 63, 69.

69-74 (Plates 13-14)

This group comprises a single obverse die whose style is anticipated by that of the preceding dies. The star in the field above, which reappears on O 20, does not seem to be copied from any Greek prototype. Of the reverses, R 56 and 57 (nos. 69–70) are of the pure Euainetos style already found at nos. 63 and 68; R 56 with the pellet recalls R 50 (no. 63) and its Greek model, whereas R 57 has a swastika below the chin recalling earlier didrachms of Motya (no. 10) and Panormos (no. 8), as well as a \$y\$ litra (Plate 24, 13). The relative condition of O 19 seems to show that after these coins of pure Greek style there comes a group of dies in a later and harder style, R 58–61 (nos. 71–74). This style has some affinity, though distant, with such dies in the Carthage series as SNG II 1635, 1632, which should be of the last quarter of the century. A related style is found in some of the \$y\$ bronze as Plate 24, 19.

The two obverse dies of this group are not linked, but the reverses of the group are very homogeneous. O 20 has the same star above the quadriga as O 19 of the previous group; it also has the legend flanked by dolphins in the exergue, and this serves as a further connexion to O 21, which however lacks the star. The style of the reverses is clearly late as it recalls very intimately that of the quadriga with triskelis tetradrachms of Agathokles of Syracuse (e.g. Kraay-Hirmer 134). This comparison must serve as the only evidence for the date of this group, since none of the coins is represented in any hoard.

83 (Plate 14)

This single specimen is not easy to place accurately in the series, as some of the details are not clear. The style of the head resembles that of R 58 (no. 71), but the weight is low and it may be an irregular issue.









4 A

24 A

Catalogue: Panormos tetradrachms

I	o (O 2")	F N F	52 (O 14)	ドッド
I	I (O 3)	ドベド	53 (O 15)	ドッド
I	5 (O ₄)	ゴケリ	57 (O 16)	ドッド
2	3 (R 21) incomplete	p~	62 (O 17)	huh
2	5 (R 22)	ror	67 (O 18)	dr d
2	7 (O 7)	トシト	69 (O 19)	Awk
3	2 (O 8)	rnr	75 (O 20)	عالدما
4	o (O 11)	141	77 (O 21)	عاد ما
4	2 (O 12)	Paf	83 (O 22) indistinct	
4	9 (O 13)	12 4 12		

Plate 7

I	Оі	Galloping quadriga l., dolphin above; dog in ex.				
	RI	River-god sacrificing at altar, as on coins of Selinus; behind, bull and palm-tree. Legend ΠΑΝΟΡΜΟΣ				
		16.94 * Nav. 4, 285				
2	Οı					
	R 2	Similar				
		16.90 * Bordonaro = NC 1931				
		vi, 1 = Rizzo lxiv, 25				
3	Οı					
	R 3	Similar, but instead of bull, ram				
		standing in 3/4 facing position.				
		17.26 * Priv. coll. Y				
4	Οı					
	R 4	Female head r. with hair in top-				
		knot; four dolphins.				
		$\Pi\Lambda$ NOPMITON				
		16.53 Hirsch 18, 2262				
		16.71 Palermo = Hirsch 19,				
		216 = NC 1931 vi, 3				
		16.10 * MMAG 43, 1970, 41				

5	O 2	Walking quadriga r., Nike above
	R 5	Head of Apollo r., legend
		IIANORMIT
		17.14 * Paris Luynes 1074
_	0	1/.14 Falls Luylles 10/4
6	O 2	
	R 6	Same, but IIANORMITIKON
		(retrograde)
		17.18 * London BMC 1
		17.10 Palermo = NC 1931 vi, 2
		16.71 Priv. coll. Y
		- Pennisi
7	O 2	
	R 7	Female head with rolled hair;
	10-M01 9#1	dolphins; ΣΥΡΑΚΟΣΙΟΝ
		16.70 * Cambridge McC 2678
		16.14 Hamburger 98, 383
		16.72 Oxford $2136 = \text{Hirsch } 8$,
		984 = Hirsch 14, 202 =
		Jameson 787 = Hess-Leu
		1957, 107; also = Tudeer
		108a = Boehringer Syra-
		kus, Taf. 29 B 13

- 8 O₂
 - R 8 Similar, but $O\Sigma I\Omega NM$ top 1. and EVMENOV below
 - 16.97 Hirsch 19, 252 = Tudeer
 - 16.53 * Jameson 1913 = Hirsch 32, 298; also = Tudeer 107b = Boehringer Syrakus, Taf. 19 B, 12
- O 2' Same die somewhat recut
 - R 9 Similar, ampyx; OΣION? above 17.18 * Nav. 4, 333
- O 2" Same die; grain added in ex., Punic legend ş y ş added above
 - R9
- 17.01 Cambridge McC 2481
- 17.21 * London Lloyd 1579
- 16.91 Paris Luynes 1086

Plate 8

- O 3 Fast quadriga l., with Nike above; in ex. Punic legend sys
 - R 10 Head with ampyx, r., similar to R 9; no legend
 - 17.17 Egger 45, 322
 - 17.20 Hague
 - 16.66 * Nav. 4, 287 = do. 10, 241 = Priv. coll. Y
 - Pennisi
 - 16.40 Reggio, Vito Superiore
- 12 O 3 R 11
- 16.88 Egger 7. 1. 1908, 61 = Glend. xii 1963, 136
- 17.15 Hess 18. 3. 1918, 186 = Helbing 1928, 124
- 17.15 * Hess-Leu 1966, 174
- 17.21 Paris 947
- 13 O 3 R 12
- 16.50 Cambridge McC 2486
- 17.13 London BMC 7
- 16.83 * London Lloyd 1581 = Nav. 6, 423
- 14 03
 - R 13 Female head with sphendone and pendant earring; dolphins
 - 16.90 Hague
 - Berlin
 - 17.20 * Priv. coll. Y = Hess-Leu 1960, 103
- 15 O 4 Fresh state of die, but exergue off flan; therefore uncertain whether shell (cf. 17 below) present or not
 - R 13 * Pennisi

- 16 O4 In ex. Punic legend sys; no shell
 - R 14 Head with topknot; dolphins 16.00 * London Lloyd 1582
- 17 O 4' Die now completed by addition of shell in ex.
 - R 15 Similar to R 10, etc.

 * Syracuse
- 18 O4'
 - R 16
- 16.90 Egger 7. 1. 1908, 59
- 16.96 Lewis = Hess-Leu 1962, 126
- 16.90 Lewis
- 17.00 * Nav. 4, 286 = Hirsch 19, 217
- 17.23 MMAG 43, 1970, 44
- 19 04'
 - R 17 Fish above instead of dolphin
 - 17.16 * Paris 948
 - 16.95 * Nav. 10, 242
 - 17.15 London Lloyd 1580 = Egger 45, 321
 - 16.78 Priv. coll. X
- 20 04'
 - R 18 Head of fifth dolphin appears below neck
 - 17.31 * New York Met., Ward 364
 - 17.10 London 1949 = Egger 7.1.1908, 60
 - 17.20 London 1938
 - 17.03 Boston 323
 - 17.71 Berlin
 - Berlin
 - Pennisi

21	O 4' R 19	Fish above instead of dolphin 17.66 Cambridge SNGIV 1117 17.57 Hirsch 33, 405 = Ciani	(21)		17.28	Rosenberg 72, 176 = Cahn 71, 206 = Cahn 80, III Lewis
		1929, 57			-	Ognina hoard, Atti e Mem.
		17.45 Paris Luynes 1081 17.42 * London BMC 6 = Hill Sicily x, 10			-	V, p. 18 «as BMC 6» Leu 1965
		. ,	'			
		Plat	te 9			
22	O 5	Quadriga r.; in ex.: uncertain (off flan), see 23	27	O 7	1000 Miles	ar., in ex. hippocamp and gend şyş
	R 20	900 30200		R 23		
	NA CANACAT (2007-2017)	17.54 * Hirsch 32, 96			16.98 *	Paris 936
23	0 5'	Altered die, column on r., added.				Berlin
-5	===	Crayfish in ex.			17.10	Jameson 689 = Egger
	R 21	Head with hair fluttering behind;				7. 1. 1908, 55
		dolphins, one of which appears			16.62	Cambridge SNG IV 1118
		below neck. Top r., Punic legend				
		ş y ş	28	O 7		
		16.90 * London BMC 5		R 24		
		17.20 Benson 249 = Sartiges			6	London BMC 8
		113 = MMAG 43, 1970,			17.07	Lewis
		46			17.52	Egger 7. 1. 1908, 56 =
		17.10 Hague				AC 17, 181
2.4	O 5'	16.84 Paris 2390			17.73	Reggio, Vito Superiore
24	R 21'	Altered die; corn grain replaces			16.76	MMAG 43, 1970, 48
	1021	dolphin below			10.70	111111111111111111111111111111111111111
		17.22 * Berlin	29	O 7		
25	06	Quadriga l.; maeander below		R 25		
-51	R 22	Head 1. with sphendone and flutter-		150	17.35 *	Oxford 2137 = SNG III
		ing hair above, spiral earring. Three				845
		dolphins in front, two corn ears			16.84	ANS
		behind. Top 1., Punic legend sys			17.53	New York Met., Ward
		- * Palermo, Contessa 69,				364a = Late collector 112
		pl. xviii, $33 = Rizzo lxv$,				= Hamburger 1894, 157
		14			17.44	Berlin
		17.24 * Egger 7. 1. 1908 = Sar-			-	Palermo Contessa 73,
		tiges $92 = MMAG 43$,			6 *	pl. xviii, 37 Hess-Leu 1964, 61 =
		1970, 47			17.50	Hirsch 33, 406
		17.44 Jameson 1902 = Hess- Leu 1957, 136			17.68	Hirsch 33, 407
		16.28 London Lloyd 1585 =			15.41	London 1939 = Nav. 4,
		Hirsch 33, 475				289 = Hess 15. 2. 1934,
26	06					163 = Ratto 24.6.29,
	R 23	Head l. with ampyx, triple-drop				140 = SC 1927, 1142
		earring; three dolphins			16.17	Reggio, Vito Superiore
		16.85 * Brussels				III

30	O 7 R 26	16.89 * London Lloyd 1583 = Egger 45, 319 = Nav. 6, 422	(30)	Í	17.24 * 16.17	Naples 7761 Reggio, Vito Superiore 112
		Plat	e 10			
31	O 7 R 27	17.37 Hirsch 13, 356 = Collignon 149 17.25 Egger 45, 320 17.67 Hirsch 34, 173 = Nav. 4,	34	O 8 R 29	drachm,	pied from Kimon deca- second type; three dolphins Jameson 690 = Egger 7. 1. 1908, 54 = MMAG 43, 1970,49, from Giarre
		288 18.04 Egger 7. 1. 1908, 57 = Sartiges 114 17.49 * Brussels			_	Riposto Palermo, Contessa 71, pl. xviii, 35
	0.0	17.82 Hess-Leu 1958, 112	35	0 9 R 30		l.; in ex. ketos triple pendant earring;
32	O 8	Similar, but horses lower to ground line, ex. smaller. sy s			four doly	
	R 27	17.23 Hirsch 15, 1083 = Arch. and Trav. 112 16.82 London BMC 9 17.22 Paris Luynes 1083 16.78 Cambridge McC 2488 16.96 * Brussels H 826 17.04 Bunbury 529 Palermo, Contessa 72, pl. xviii, 36 (5 specimens)	36	0.10	16.50 17.08 * 16.92 17.41	# 1 Table 1
33	O 8	pi. xviii, 30 (3 specimens)	30		wings	in cx. swan with mapping
	R 28	decadrachm; four dolphins 17.67 Berlin 17.07 Brussels H 825 16.97 Hirsch 19, 219		R 30	17.08 16.78 *	London BMC Syracuse 216 Woodward 52 = AC 15, 274
		16.89 Nav. 4, 290 16.60 * London Lloyd 1584 == Nav. 6, 421 = Weber 1475 - Palermo, Contessa 70,	37	O 10 R 31		head, but l.; three dolphins London 1963, BMQ 1965, pl. xxii, 6
		pl. xviii, 34 (2 specimens) 17.41 Paris Luynes 1084			-	Naples $5324 = Rizzo lxv$, 13 MMAG 42, 1070, 51
		- Paris 938 17.21 Hess-Leu 1966, 173 =	38	O 10	17.01	MMAG 43, 1970, 51
				_		

R 32

16.56

17.05 * Munich

 $Jameson \ 731 = MMAG$

43, 1970, 50

Ratto 4. 4. 1927, 385

Silla, Alicante, Spain (A.

Garcia y Bellido, Hispania

Graeca, 1948, p. 226, 9)

- O 10' Sign of Tanit added in front of 39 charioteer R 33 Head with ampyx r., single-drop earring 16.51 Jameson 730 = Hess-Leu 1956, 135 16.91 Benson 250 16.95 * London = Weber 1476 Palermo 16.70 Berlin 17.16 Paris 961 Priv. coll. Y Llano de la Consolacion, Spain (J. Sanchez Jimenez
- in Cronica del IV Con-(39)greso arqueologico del sudeste español, Elche 1948, p. 261 ff.)
- O 11 Quadriga l., double ex. line; Punic 40 legend sys in ex.
 - R 34 Similar to R 33 17.10 Berlin 17.23 * Copenhagen 499
 - OII R 35 Head r., with sphendone 16.60 * Egger 7. 1. 1908, 58

Plate TT

41

- O 12 Walking quadriga l.; Nike crown-42 ing horses. In ex. Punic legend
 - R 36 Head I., four dolphins Berlin
 - * Berlin
- O 12 43 R 36' Corn grain added below 17.30 * Hague 16.10 Syracuse, Megara Hyblaea hoard 1949, 55854
- O 12 44 R 37 Head I. with ampyx, short fluttering hair above; three dolphins Priv. coll. Y = Hess-Leu17.23
 - 1957, 137 17.04 * London = Weber 1478
- O 12 45 R 37' Die worn and altered as regards the hair, necklace and earring 16.46 * Paris Vogué 658
- 012 46 R 37" Die now further altered, especially as regards the hair and nose; dolphins unchanged 16.66 * London 1938 = Nav. 5, 987

- O 12 Die flaw below Nike 47 R 38 Head r., triple earring, four dolphins 16.54 * Cambridge McC 3054
- O 12 Die flaw larger 48 Similar head r., triple earring, five R 39 dolphins
 - ANS Ratto 24. 6. 1929, 141 = 17.15 Baranowsky IV, 343 17.28 * London 1908 = Sambon
 - 19. 12. 1907, 495
 - Hess-Leu 1956, 136 17.04 Pennisi
- O 13 Fast quadriga l., double ex. line; 49 in ex., dolphin and Punic legend
 - R 37 Original state of this die (n. b. the relative states of this die would indicate that O 13 precedes O 12; but the contrary indication is given by the relative states of R 39, with which O 13 is used later than O 12) 16.97 * London 1938 = Helbing 1927, 1657
- Paris 945 50
 - O 13 Small alterations in the hair; viz. R 39 later state of die than with O 12 (48 above) Berlin 17.11 Boston add. 29

- (50)Vienna 17.20 O 13 51 16.83 * London 1936 (found at R 40 Similar head r., uncertain number Sandbanks, Poole harbour, of dolphins; corn grain below * Salton 1922) 16.15 Syracuse, Megara Hyblaea hoard 1949, 55855 16.91 * Leu 1965 Plate 12 O 14 Quadriga l., double ex. line; in ex. O 16 Quadriga r., double ex. line; in ex. 52 dolphin and sys two dolphins (but no legend) R 41 Head 1., ampyx, triple earring; R 46 Similar head I., but no dolphins 17.00 * SC 1927, 1144 three (?) dolphins 17.31 * AC 16, 593 = Cahn 84, 183 58 O 16' Die completed by addition of legend 17.11 * London 1938 şyş in ex. between dolphins Priv. coll. Y R 47 Similar head I., three dolphins Syracuse visible (one of which below neck) 17.01 * London 1926 O 15 Similar, but ex. line more widely 53 spaced, and in ex. only legend sys Similar, no ampyx; four dolphins O 16' 59 16.78 * ANS = Schulman 26. 1. R 48 Head I. with wreath and triple 1913, 2002 earring; behind, star and uncertain 16.10 Hague mark; two dolphins visible in front Luneau 224 17.00 * Berlin London BMC 10 17.43 54 O 15 O 16' 60 R 43 Similar to R 42, four dolphins R 49
 - Similar head 1.; six dolphins (but not below neck) ANS = Walcher Molt-17.04 15.65 * London 1938 = Nav. 5, hein 426 = Hess 27.10.872 = Glend. 28.6.1938,1902, 559 192 (obv. tooled) Berlin 17.16 O 15 17.39 * London Lloyd 1588 == R 44 Head I., generally similar, with Nav. 6, 425 ampyx; three dolphins visible Pennisi 17.07 * Priv. coll. Y = Hess-Leu
- 1957, 135

 O 15

 R 45 Similar; two dolphins visible in front, probably another behind

 * Syracuse

 61 O 16'

 R 49' Same die with head much altered and enlarged throughout; dolphins unchanged!

 17.33 * Boston 327

55

		Plate	e 13		
62		Quadriga 1.; double ex. line, legend sys in ex. Same die further altered; head un-	(68)		good style; four dolphins, shell below chin 17.22 * Jameson 2421
	1 49	changed but dolphins fattened 16.51 * Oxford 2138 = Soth. 9. 3. 1936, 22 Berlin	69	O 19	Quadriga l., thick ex. line; star above horses; in ex., legend ş y ş Head l., similar to last, four dol- phins; in front, dot
63	O 17	– Priv. coll. Y			17.13 * Brussels - Berlin
9	R 50	Larger head, of good style, with wreath and earring; three dolphins. Dot in front		0.50	17.12 Hess-Leu 1966, 172 17.11 Merzbacher 2. 11. 1909, 2489 = White King 66
		17.10 * Berlin 16.87 Boston 325 17.22 MMAG 43, 1970, 54 16.23 * London Lloyd 1586 = Benson 54 253	70	O 19 R 57	Head l.; similar, four dolphins; below chin, swastika 16.94 * Boston 324 = Warren 425
64	O 17 R 51	Head l., smaller and inferior style; wreath and earring; three dolphins visible			- Berlin 16.07 London Lloyd 1587 = Hirsch 29, 101 16.78 Jameson 691
		17.22 * Berlin			16.86 MMAG 32, 1966, 68
65	O 17 R 52	Similar head l., wreath with cornear; triple earring; behind, star	71	O 19	- Paris 941 17.21 MMAG 43, 1970, 53
		and monogram (incomplete). Two dolphins visible 17.22 AC 16, 594 16.76 * London 1938 (BMQ 1938, xliv, 1) = Nav. 6, 424		R 58	Head 1. with wreath and earring, simpler style; four dolphins 16.76 ANS = Schulman 8.6. 1931, 54 = Hamb. 96, 44 = Schulman 7.6. 1937, 98 16.75 Berlin
.93		17.25 Hirsch 30, 380 - Pennisi			16.75 Berlin 17.00 Hirsch 19, 156 15.90 Van Vleuten, Lempertz
66	O 17 R 53	Head 1., smaller with normal wreath and earring; three dolphins. Dot in front 17.06 Cambridge McC 2484			Köln 1926 16.78 * London BMC 13 16.84 New York Met., Ward 365
		17.21 * London BMC 17 = Hill Sicily pl. x, 11			16.90 Paris Luynes 1085 - Priv. coll. Y - Pennisi
67		Similar, but thick ex. line, horses lower. In ex. legend sys	72	O 19 R 59	Similar head; four dolphins
	R 54	Closely similar to R 53 and perhaps altered from it; if so, alterations include dolphins in front 17.26 * Leu Sicilia 143			17.00 Hirsch 32, 61 = Hindamian 177 - ANS 16.53 Cambridge, SNG IV 1119
68	O 18 R 55	Head 1., wreath and earring normal,			16.62 do., 1120 17.37 * London BMC 16

Plate 14

73	O 19	C: '1	(78)		-	Martinetti-Nervegna
	R 60	Similar				1907, 794 = Engel-Gros
		16.52 * London BMC 14				21
74	0 19		79	O 21	1201 100	
	R 61	Similar		R 66	Similar	
		16.92 * London BMC 15			16.16	Hess-Leu 1968 115
		17.02 Naples 4384			16.50 *	Paris Luynes 1082
75	O 20	Similar, but ex. line of two paral-	80	O 21		
		lel lines; star above; in ex., dolphins		R 67	Similar	
		flanking legend şyş			16.17	AC 16, 952 = Wotoch
	R 62	Head l. with normal wreath and				238 = Stiavelli 179 =
		earring; smooth and elaborate style;				C. Clark 91
		four dolphins			16.52	Lockett SNG III 846 =
		17.20 Berlin				Nav. 1, $513 = \text{Hirsch } 14$,
		16.72 * Paris A–V 272				174 = Nav. 5, 986
		16.83 Nav. 1, 514			16.63 *	London BMC 11
76	O 20		81	O 21		
	R 63	Similar		R 68	Similar	
		16.44 * Cambridge McC 2483 =			16.75 *	Cambridge McC 2482 =
		Hirsch 15, 1084				Benson 248
77	O 21	Similar to O 20, but no star above;	82	O 21		
		dolphins and legend in ex.		R 69	Similar	
	R 64	Similar			16.78	Hess-Leu 1956, 137
		16.38 * London BMC 12			16.39 *	Berlin
78	O 21				-	Syracuse
	R 65	Similar	83	O 22	Similar;	possibly star above;
		16.94 * Boston 326	10 to 2 world?		legend o	only in ex.
		16.91 Brussels H 824		R 70	Similar	to R 58-61
		16.99 Paris 944			14.60 *	Brussels