

**Zeitschrift:** Schweizerische numismatische Rundschau = Revue suisse de numismatique = Rivista svizzera di numismatica  
**Herausgeber:** Schweizerische Numismatische Gesellschaft  
**Band:** 50 (1971)

**Artikel:** Coins of Punic Sicily. Part I  
**Autor:** Jenkins, G. Kenneth  
**Kapitel:** 2: Panormos tetradrachms  
**DOI:** <https://doi.org/10.5169/seals-174005>

#### **Nutzungsbedingungen**

Die ETH-Bibliothek ist die Anbieterin der digitalisierten Zeitschriften auf E-Periodica. Sie besitzt keine Urheberrechte an den Zeitschriften und ist nicht verantwortlich für deren Inhalte. Die Rechte liegen in der Regel bei den Herausgebern beziehungsweise den externen Rechteinhabern. Das Veröffentlichen von Bildern in Print- und Online-Publikationen sowie auf Social Media-Kanälen oder Webseiten ist nur mit vorheriger Genehmigung der Rechteinhaber erlaubt. [Mehr erfahren](#)

#### **Conditions d'utilisation**

L'ETH Library est le fournisseur des revues numérisées. Elle ne détient aucun droit d'auteur sur les revues et n'est pas responsable de leur contenu. En règle générale, les droits sont détenus par les éditeurs ou les détenteurs de droits externes. La reproduction d'images dans des publications imprimées ou en ligne ainsi que sur des canaux de médias sociaux ou des sites web n'est autorisée qu'avec l'accord préalable des détenteurs des droits. [En savoir plus](#)

#### **Terms of use**

The ETH Library is the provider of the digitised journals. It does not own any copyrights to the journals and is not responsible for their content. The rights usually lie with the publishers or the external rights holders. Publishing images in print and online publications, as well as on social media channels or websites, is only permitted with the prior consent of the rights holders. [Find out more](#)

**Download PDF:** 10.02.2026

**ETH-Bibliothek Zürich, E-Periodica, <https://www.e-periodica.ch>**

## Panormos tetradrachms

## 1-10 (Plate 7)

This first group has already been discussed by Kraay in *Schweizer Münzblätter* 51/54, 1964, 61 ff.<sup>15</sup>, 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<sup>16</sup>. A ram alone occurs on later bronzes of Panormos<sup>17</sup>. 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. 4A (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 *sȳs* 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.

## 11-21 (Plate 8)

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

<sup>15</sup> Kraay, nos. 1-2 = my nos. 1-2; Kraay, nos. 3-9 = my nos. 4-10.

<sup>16</sup> 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.).

<sup>17</sup> Gabrici, *Monetazione del bronzo*, tav. VIII, 13 (II-1c 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 O 4 (no. 16) though it is present on O 4 (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 certainty 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 R̄šmlqrt 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  $\S\gamma\gamma$  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<sup>18</sup>; this gives a satisfactory

<sup>18</sup> Contessa hoard, *NSc*, 1888, pp. 302 ff. – Vito Superiore hoard, G. Procopio, *Rendiconti dell'Accademia 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<sup>19</sup>.

35-41 (Plate 10)

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  $\$y\$$  occurs, is not die-linked 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  $\$y\$$  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.

42-51 (Plate 11)

Here there are only two obverse dies of which the first, O 12, is exceptional for depicting a standing or walking quadriga. It is linked to O 13 by means of R 37 and R 39; 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 O 13 is picked up again by O 14 of the next group. R 36, 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. R 37 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). R 38, 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. R 40 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

<sup>19</sup> 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 3<sup>e</sup> quart»<sup>20</sup>. 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.

### 52–56 (Plate 12)

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  $\S\ \mathbf{y}\ \S$  added; it is linked to O 17 by R 49, in the latest of that die's transformations. Whether O 17 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. MMA 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  $\S\ \mathbf{y}\ \S$  should be of comparable date, and we may suggest as the limits c. 340–320 B.C.<sup>21</sup>. 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<sup>22</sup>.

<sup>20</sup> *Kokalos* 4, 1958, p. 105.

<sup>21</sup> 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.

<sup>22</sup> 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 1x, 6); on the latter, the pellet is transferred to between the dolphins in the same way as on the  $\S\ \mathbf{y}\ \S$  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  $\text{\textsterling}$   $\text{\textsterling}$  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  $\text{\textsterling}$  bronze as Plate 24, 19.

### 75–82 (Plate 14)

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

10 (O 2")		52 (O 14)	
11 (O 3)		53 (O 15)	
15 (O 4)		57 (O 16)	
23 (R 21) incomplete		62 (O 17)	
25 (R 22)		67 (O 18)	
27 (O 7)		69 (O 19)	
32 (O 8)		75 (O 20)	
40 (O 11)		77 (O 21)	
42 (O 12)		83 (O 22) indistinct	
49 (O 13)			

Plate 7

1 O 1	Galloping quadriga l., dolphin above; dog in ex.	5 O 2	Walking quadriga r., Nike above
R 1	River-god sacrificing at altar, as on coins of Selinus; behind, bull and palm-tree. Legend ΠΑΝΟΡΜΟΣ 16.94 * Nav. 4, 285	R 5	Head of Apollo r., legend ΠΑΝΟΡΜΙΤ 17.14 * Paris Luynes 1074
2 O 1		6 O 2	Same, but ΠΑΝΟΡΜΙΤΙΚΟΝ (retrograde)
R 2	Similar 16.90 * Bordonaro = NC 1931 vi, 1 = Rizzo lxiv, 25	R 6	17.18 * London BMC 1 17.10 Palermo = NC 1931 vi, 2 16.71 Priv. coll. Y - Pennisi
3 O 1		7 O 2	
R 3	Similar, but instead of bull, ram standing in 3/4 facing position. 17.26 * Priv. coll. Y	R 7	Female head with rolled hair; dolphins; ΣΥΠΑΚΟΣΙΟΝ 16.70 * Cambridge McC 2678 16.14 Hamburger 98, 383 16.72 Oxford 2136 = Hirsch 8, 984 = Hirsch 14, 202 = Jameson 787 = Hess-Leu 1957, 107; also = Tudeer 108a = Boehringer Syrakus, Taf. 29 B 13
4 O 1			
R 4	Female head r. with hair in top-knot; four dolphins. ΠΑΝΟΡΜΙΤΟΝ 16.53 Hirsch 18, 2262 16.71 Palermo = Hirsch 19, 216 = NC 1931 vi, 3 16.10 * MMAG 43, 1970, 41		

8	O 2		9	O 2'	Same die somewhat recut
	R 8	Similar, but ΟΣΙΩΝΜ top l. and EVMENOV below		R 9	Similar, ampyx; ΟΣΙΟΝ? above
		16.97 Hirsch 19, 252 = Tudeer 107a			17.18 * Nav. 4, 333
		16.53 * Jameson 1913 = Hirsch 32, 298; also = Tudeer 107b = Boehringer Syrakus, Taf. 19 B, 12		10	O 2" Same die; grain added in ex., Punic legend § y § added above
				R 9	
					17.01 Cambridge McC 2481
					17.21 * London Lloyd 1579
					16.91 Paris Luynes 1086

Plate 8

11	O 3	Fast quadriga l., with Nike above; in ex. Punic legend § y §	16	O 4	In ex. Punic legend § y §; no shell
	R 10	Head with ampyx, r., similar to R 9; no legend		R 14	Head with topknot; dolphins
		17.17 Egger 45, 322			16.00 * London Lloyd 1582
		17.20 Hague		17	O 4' Die now completed by addition of shell in ex.
		16.66 * Nav. 4, 287 = do. 10, 241 = Priv. coll. Y		R 15	Similar to R 10, etc.
		— Pennisi			— * Syracuse
		16.40 Reggio, Vito Superiore		18	O 4'
		110		R 16	
	12	O 3			16.90 Egger 7. 1. 1908, 59
		R 11			16.96 Lewis = Hess-Leu 1962, 126
		16.88 Egger 7. 1. 1908, 61 = Glend. xii 1963, 136			16.90 Lewis
		17.15 Hess 18. 3. 1918, 186 = Helbing 1928, 124			17.00 * Nav. 4, 286 = Hirsch 19, 217
		17.15 * Hess-Leu 1966, 174			17.23 MMAG 43, 1970, 44
		17.21 Paris 947		19	O 4'
	13	O 3		R 17	Fish above instead of dolphin
		R 12			17.16 * Paris 948
		16.50 Cambridge McC 2486			16.95 * Nav. 10, 242
		17.13 London BMC 7			17.15 London Lloyd 1580 = Egger 45, 321
		16.83 * London Lloyd 1581 = Nav. 6, 423			16.78 Priv. coll. X
	14	O 3		20	O 4'
		R 13		R 18	Head of fifth dolphin appears below neck
		Female head with sphendone and pendant earring; dolphins			17.31 * New York Met., Ward 364
		16.90 Hague			17.10 London 1949 = Egger 7. 1. 1908, 60
		— Berlin			17.20 London 1938
		17.20 * Priv. coll. Y = Hess-Leu 1960, 103			17.03 Boston 323
	15	O 4	Fresh state of die, but exergue off flan; therefore uncertain whether shell (cf. 17 below) present or not		17.71 Berlin
		R 13	— * Pennisi		— Berlin
					— Pennisi

21	O 4'	
	R 19	Fish above instead of dolphin
	17.66	Cambridge SNG IV 1117
	17.57	Hirsch 33, 405 = Ciani 1929, 57
	17.45	Paris Luynes 1081
	17.42 *	London BMC 6 = Hill Sicily x, 10

(21)	17.28	Rosenberg 72, 176 = Cahn 71, 206 = Cahn 80, 111
	17.23	Lewis
	-	Ognina hoard, Attie Mem. V, p. 18 «as BMC 6»
	-	Leu 1965

Plate 9

22	O 5	Quadriga r.; in ex.: uncertain (off flan), see 23
	R 20	Similar to previous dies
	17.54 *	Hirsch 32, 96
23	O 5'	Altered die, column on r., added. Crayfish in ex.
	R 21	Head with hair fluttering behind; dolphins, one of which appears below neck. Top r., Punic legend § y §
	16.90 *	London BMC 5
	17.20	Benson 249 = Sartiges 113 = MMAG 43, 1970, 46
	17.10	Hague
	16.84	Paris 2390
24	O 5'	
	R 21'	Altered die; corn grain replaces dolphin below
	17.22 *	Berlin
25	O 6	Quadriga l.; maeander below
	R 22	Head l. with sphendone and fluttering hair above, spiral earring. Three dolphins in front, two corn ears behind. Top l., Punic legend § y §
	-	* Palermo, Contessa 69, pl. xviii, 33 = Rizzo lxv, 14
	17.24 *	Egger 7. 1. 1908 = Sartiges 92 = MMAG 43, 1970, 47
	17.44	Jameson 1902 = Hess Leu 1957, 136
	16.28	London Lloyd 1585 = Hirsch 33, 475
26	O 6	
	R 23	Head l. with ampyx, triple-drop earring; three dolphins
	16.85 *	Brussels

27	O 7	Quadriga r., in ex. hippocamp and Punic legend § y §
	R 23	
	16.98 *	Paris 936
	-	Berlin
	17.10	Jameson 689 = Egger 7. 1. 1908, 55
	16.62	Cambridge SNG IV 1118
28	O 7	
	R 24	
	17.16 *	London BMC 8
	17.07	Lewis
	17.52	Egger 7. 1. 1908, 56 = AC 17, 181
	17.73	Reggio, Vito Superiore 113
	16.76	MMAG 43, 1970, 48
29	O 7	
	R 25	
	17.35 *	Oxford 2137 = SNG III 845
	16.84	ANS
	17.53	New York Met., Ward 364a = Late collector 112 = Hamburger 1894, 157
	17.44	Berlin
	-	Palermo Contessa 73, pl. xviii, 37
	17.56 *	Hess-Leu 1964, 61 = Hirsch 33, 406
	17.68	Hirsch 33, 407
	15.41	London 1939 = Nav. 4, 289 = Hess 15. 2. 1934, 163 = Ratto 24. 6. 29, 140 = SC 1927, 1142
	16.17	Reggio, Vito Superiore 111

30	O 7	
	R 26	
	16.89 *	London Lloyd 1583 = Egger 45, 319 = Nav. 6, 422

(30)	17.24 *	Naples 7761
	16.17	Reggio, Vito Superiore 112

Plate 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, 288
	18.04	Egger 7. 1. 1908, 57 = Sartiges 114
	17.49 *	Brussels
	17.82	Hess-Leu 1958, 112
32	O 8	Similar, but horses lower to ground line, ex. smaller. § y §
	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)
33	O 8	
	R 28	Head copied from Kimon first decadrachm; four dolphins
	17.67	Berlin
	17.07	Brussels H 825
	16.97	Hirsch 19, 219
	16.89	Nav. 4, 290
	16.60 *	London Lloyd 1584 = Nav. 6, 421 = Weber 1475
	—	Palermo, Contessa 70, pl. xviii, 34 (2 specimens)
	17.41	Paris Luynes 1084
	—	Paris 938
	17.21	Hess-Leu 1966, 173 = Ratto 4. 4. 1927, 385
	—	Silla, Alicante, Spain (A. Garcia y Bellido, Hispania Graeca, 1948, p. 226, 9)

34	O 8	
	R 29	Head copied from Kimon deca- drachm, second type; three dolphins
	17.14 *	Jameson 690 = Egger 7. 1. 1908, 54 = MMAG 43, 1970, 49, from Giarre Riposto
	—	Palermo, Contessa 71, pl. xviii, 35
35	O 9	Quadriga l.; in ex. ketos
	R 30	Head r., triple pendant earring; four dolphins
	17.92 *	Hague
	16.50	AC 14, 103 = Nav. 12, 79
	17.08 *	AC 16, 595 = Nav. 5, 985 = SNG III 1031
	16.92	Cambridge McC 2485 = Benson 251
	17.41	London BMC Syracuse 215
36	O 10	Similar; in ex. swan with flapping wings
	R 30	
	17.08	London BMC Syracuse 216
	16.78 *	Woodward 52 = AC 15, 274
37	O 10	
	R 31	Similar head, but l.; three dolphins
	16.73 *	London 1963, BMQ 1965, pl. xxii, 6
	—	Naples 5324 = Rizzo lxv, 13
	17.01	MMAG 43, 1970, 51
38	O 10	
	R 32	
	16.56	Jameson 731 = MMAG 43, 1970, 50
	17.05 *	Munich

39	O 10'	Sign of Tanit added in front of charioteer	(39)	in Cronica del IV Congreso arqueologico del sudeste español, Elche 1948, p. 261 ff.)
	R 33	Head with ampyx r., single-drop earring		
	16.51	Jameson 730 = Hess-Leu 1956, 135	40	O 11 Quadriga l., double ex. line; Punic legend § y § in ex.
	16.91	Benson 250		R 34 Similar to R 33
	16.95 *	London = Weber 1476		17.10 Berlin
	-	Palermo		17.23 * Copenhagen 499
	16.70	Berlin	41	O 11
	17.16	Paris 961		R 35 Head r., with sphendone
	-	Priv. coll. Y		16.60 * Egger 7. 1. 1908, 58
	-	Llano de la Consolacion, Spain (J. Sanchez Jimenez		

Plate II

42	O 12	Walking quadriga l.; Nike crowning horses. In ex. Punic legend § y §	47	O 12 Die flaw below Nike
	R 36	Head l., four dolphins		R 38 Head r., triple earring, four dolphins
	-	Berlin		16.54 * Cambridge McC 3054
	-	* Berlin	48	O 12 Die flaw larger
43	O 12			R 39 Similar head r., triple earring, five dolphins
	R 36'	Corn grain added below		- ANS
		17.30 * Hague		17.15 Ratto 24. 6. 1929, 141 = Baranowsky IV, 343
		16.10 Syracuse, Megara		17.28 * London 1908 = Sambon 19. 12. 1907, 495
		Hyblaean hoard 1949, 55854		17.04 Hess-Leu 1956, 136
				- Pennisi
44	O 12		49	O 13 Fast quadriga l., double ex. line; in ex., dolphin and Punic legend § y §
	R 37	Head l. with ampyx, short fluttering hair above; three dolphins		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)
		17.23 Priv. coll. Y = Hess-Leu 1957, 137		16.97 * London 1938 = Helbing 1927, 1657
		17.04 * London = Weber 1478		- Paris 945
45	O 12		50	O 13
	R 37'	Die worn and altered as regards the hair, necklace and earring		R 39 Small alterations in the hair; viz. later state of die than with O 12 (48 above)
		16.46 * Paris Vogué 658		- Berlin
46	O 12			17.11 Boston add. 29
	R 37"	Die now further altered, especially as regards the hair and nose; dolphins unchanged		
		16.66 * London 1938 = Nav. 5, 987		

(50)	17.20 Vienna
	16.83 * London 1936 (found at Sandbanks, Poole harbour, 1922)
	16.15 Syracuse, Megara Hyblaea hoard 1949, 55855
	16.91 * Leu 1965

51	O 13
R 40	Similar head r., uncertain number of dolphins; corn grain below
-	* Salton

*Plate 12*

52	O 14	Quadriga l., double ex. line; in ex. dolphin and § y §
	R 41	Head l., ampyx, triple earring; three (?) dolphins
		17.31 * AC 16, 593 = Cahn 84, 183
		17.11 * London 1938
		- Priv. coll. Y
		- Syracuse
53	O 15	Similar, but ex. line more widely spaced, and in ex. only legend § y §
	R 42	Similar, no ampyx; four dolphins
		16.78 * ANS = Schulman 26. 1. 1913, 2002
		16.10 Hague
		- Luneau 224
		17.43 London BMC 10
54	O 15	
	R 43	Similar to R 42, four dolphins (but not below neck)
		15.65 * London 1938 = Nav. 5, 872 = Glend. 28.6.1938, 192 (obv. tooled)
55	O 15	
	R 44	Head l., generally similar, with ampyx; three dolphins visible
		17.07 * Priv. coll. Y = Hess-Leu 1957, 135
56	O 15	
	R 45	Similar; two dolphins visible in front, probably another behind
		- * Syracuse
	57	O 16 Quadriga r., double ex. line; in ex. two dolphins (but no legend)
	R 46	Similar head l., but no dolphins
		17.00 * SC 1927, 1144
	58	O 16' Die completed by addition of legend § y § in ex. between dolphins
	R 47	Similar head l., three dolphins visible (one of which below neck)
		17.01 * London 1926
	59	O 16'
	R 48	Head l. with wreath and triple earring; behind, star and uncertain mark; two dolphins visible in front
		17.00 * Berlin
	60	O 16'
	R 49	Similar head l.; six dolphins
		17.04 ANS = Walcher Molt-hein 426 = Hess 27. 10. 1902, 559
		17.16 Berlin
		17.39 * London Lloyd 1588 = Nav. 6, 425
		- Pennisi
	61	O 16'
	R 49'	Same die with head much altered and enlarged throughout; dolphins unchanged!
		17.33 * Boston 327

62	O 17	Quadriga l.; double ex. line, legend sylls in ex.	(68)	good style; four dolphins, shell below chin
	R 49"	Same die further altered; head unchanged but dolphins fattened	17.22	* Jameson 2421
		16.51 * Oxford 2138 = Soth.	69	O 19 Quadriga l., thick ex. line; star above horses; in ex., legend sylls
		9.3.1936, 22	R 56	Head l., similar to last, four dolphins; in front, dot
	-	Berlin	17.13	* Brussels
	-	Priv. coll. Y	-	Berlin
63	O 17		17.12	Hess-Leu 1966, 172
	R 50	Larger head, of good style, with wreath and earring; three dolphins. Dot in front	17.11	Merzbacher 2. 11. 1909, 2489 = White King 66
		17.10 * Berlin	70	O 19
		16.87 Boston 325	R 57	Head l.; similar, four dolphins; below chin, swastika
		17.22 MMAG 43, 1970, 54	16.94	* Boston 324 = Warren 425
		16.23 * London Lloyd 1586 = Benson 54 253	-	Berlin
64	O 17		16.07	London Lloyd 1587 = Hirsch 29, 101
	R 51	Head l., smaller and inferior style; wreath and earring; three dolphins visible	16.78	Jameson 691
		17.22 * Berlin	16.86	MMAG 32, 1966, 68
65	O 17		-	Paris 941
	R 52	Similar head l., wreath with corner; triple earring; behind, star and monogram (incomplete). Two dolphins visible	17.21	MMAG 43, 1970, 53
		17.22 AC 16, 594	71	O 19
		16.76 * London 1938 (BMQ 1938, xliv, 1) = Nav. 6, 424	R 58	Head l. with wreath and earring, simpler style; four dolphins
		17.25 Hirsch 30, 380	16.76	ANS = Schulman 8. 6. 1931, 54 = Hamb. 96, 44 = Schulman 7. 6. 1937, 98
	-	Pennisi	16.75	Berlin
66	O 17		17.00	Hirsch 19, 156
	R 53	Head l., smaller with normal wreath and earring; three dolphins. Dot in front	15.90	Van Vleuten, Lempertz Köln 1926
		17.06 Cambridge McC 2484	16.78	* London BMC 13
		17.21 * London BMC 17 = Hill Sicily pl. x, 11	16.84	New York Met., Ward 365
67	O 18	Similar, but thick ex. line, horses lower. In ex. legend sylls	16.90	Paris Luynes 1085
	R 54	Closely similar to R 53 and perhaps altered from it; if so, alterations include dolphins in front	-	Priv. coll. Y
		17.26 * Leu Sicilia 143	-	Pennisi
68	O 18		72	O 19
	R 55	Head l., wreath and earring normal,	R 59	Similar head; four dolphins
			17.00	Hirsch 32, 61 = Hindamian 177
			-	ANS
			16.53	Cambridge, SNG IV 1119
			16.62	do., 1120
			17.37	* London BMC 16

Plate 14

73	O 19		(78)	-	Martinetti-Nervegna
	R 60	Similar			1907, 794 = Engel-Gros
		16.52 * London BMC 14			21
74	O 19		79	O 21	
	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 parallel lines; star above; in ex., dolphins flanking legend § y §	80	O 21	
	R 62	Head l. with normal wreath and earring; smooth and elaborate style; four dolphins		R 67	Similar
		17.20 Berlin			16.17 AC 16, 952 = Wotoch
		16.72 * Paris A-V 272			238 = Stiavelli 179 =
		16.83 Nav. 1, 514			C. Clark 91
76	O 20				16.52 Lockett SNG III 846 =
	R 63	Similar			Nav. 1, 513 = Hirsch 14,
		16.44 * Cambridge McC 2483 =			174 = Nav. 5, 986
		Hirsch 15, 1084			16.63 * London BMC 11
77	O 21	Similar to O 20, but no star above; dolphins and legend in ex.	81	O 21	
	R 64	Similar		R 68	Similar
		16.38 * London BMC 12			16.75 * Cambridge McC 2482 =
78	O 21				Benson 248
	R 65	Similar	82	O 21	
		16.94 * Boston 326		R 69	Similar
		16.91 Brussels H 824			16.78 Hess-Leu 1956, 137
		16.99 Paris 944			16.39 * Berlin
					- Syracuse
			83	O 22	Similar; possibly star above; legend only in ex.
				R 70	Similar to R 58-61
					14.60 * Brussels