

ACTA UNIVERSITATIS UPSALIENSIS

Studia Numismatica Upsaliensia

6:2

STUDIA NUMISMATICA
UPSALIENSIA

6:2

The Coinage of Akragas
c. 510–406 BC

Catalogue

ULLA WESTERMARK

II



UPPSALA
UNIVERSITET

STUDIA NUMISMATICA UPSALIENSIA

Editors: Harald Nilsson, Hendrik Mäkeler and Ragnar Hedlund

1. Uppsala University Coin Cabinet. Anglo-Saxon and later British Coins. By Elsa Lindberger. 2006.
2. Münzkabinett der Universität Uppsala. Deutsche Münzen der Wikingerzeit sowie des hohen und späten Mittelalters. By Peter Berghaus and Hendrik Mäkeler. 2006.
3. Uppsala universitets myntkabinett. Svenska vikingatida och medeltida mynt präglade på fastlandet. By Jonas Rundberg and Kjell Holmberg. 2008.
4. Opus mixtum. Uppsatser kring Uppsala universitets myntkabinett. 2009.
5. "...achieved nothing worthy of memory". Coinage and authority in the Roman empire c. AD 260–295. By Ragnar Hedlund. 2008.
- 6:1–2. The Coinage of Akragas c. 510–406 BC. By Ulla Westermark. 2018
7. Musik på medaljer, mynt och jetonger i Nils Uno Fornanders samling. By Eva Wiséhn. 2015.
8. Erik Wallers samling av medicinhistoriska medaljer. By Harald Nilsson. 2013.

© Ulla Westermark, 2018
Database right Uppsala University

ISSN 1652-7232
ISBN 978-91-513-0270-6
urn:nbn:se:uu:diva-345971 (<http://urn.kb.se/resolve?urn=urn:nbn:se:uu:diva-345971>)

Typeset in Times New Roman by Elin Klingstedt and Magnus Wijk, Uppsala

Printed in Sweden on acid-free paper by DanagårdLiTHO AB, Ödeshög 2018
Distributor: Uppsala University Library, Box 510, SE-751 20 Uppsala
www.uu.se, acta@ub.uu.se

The publication of this volume has been assisted by generous grants from
Uppsala University, Uppsala
Sven Svenssons stiftelse för numismatik, Stockholm
Gunnar Ekströms stiftelse för numismatisk forskning, Stockholm
Faith and Fred Sandstrom, Haverford, PA, USA

CONTENTS

CATALOGUE	7
Comments to the catalogue	7
Period I.....	8
Didrachms, c. 510–470 BC	8
Group I.....	8
Group II	30
Group III.....	46
Group IV.....	76
Period II	101
Tetradrachms Eagle/crab.....	101
Group I.....	101
Group II	108
Group III.....	126
Smaller denominations, c. 450–440 BC	140
Didrachms	140
Pentalitra.....	141
Litrai.....	143
Pentonkia	156
Dionkia/Hexantes	158
Cast bronze coinage, c. 440–430 BC	159
Period III.....	165
Tetradrachms Eagle/Large fish.....	165
Tetradrachms Eagle pair/Skylla.....	168
Hemidrachms, c. 420–410 BC	171
Tetradrachms Quadriga/Eagle pair, c. 410–406 BC.....	188
Dekadrachms, c. 408–406 BC	198
Smaller denominations, c. 410–406 BC	201
Didrachms	201
Drachm	202
Litrai.....	203
Hemilitrai.....	204
Struck bronze coinage, c. 415–406 BC	205
Hemilitra	205
Tetrantes.....	246
Hexantes	266
Onkiai	282
Gold Coinage	288

DIE PLANS	294
Period I.....	294
Didrachms.....	294
Period II. Die plans arranged to show linkage of dies	309
Tetradrachms Eagle/crab.....	309
Smaller denominations.....	312
Period III. Die plans arranged to show linkage of dies	314
Tetradrachms Eagle/Large Fish	314
Tetradrachms Eagle pair/Skylla.....	314
Hemidrachms	314
Tetradrachms Quadriga/Eagle pair.....	315
Dekadrachms.....	316
Smaller denominations.....	316
Struck bronze coinage.....	316
Hemilitra	316
Tetrantes.....	319
Hexantes	320
Onkiai	322
Gold Coinage	322
WEIGHT TABLES	323
Period I.....	323
Period II.	324
Period III.....	327
STATISTICS	334
INDEX OF SPECIMENS (SILVER AND GOLD COINS).....	335
Public Collections.....	335
Private Collections.....	348
Sale Catalogues and Dealers' Stock.....	353

CATALOGUE

Comments to the catalogue

Much of the spade work for the catalogue of the principal silver denominations from all three periods was made by the late K.L. Grabow. The extensive material which he had collected, especially from collections in Sicily, including the important Pennisi collection, comprises the majority of the dies. Later additions have yielded few new dies for the larger denominations, but naturally a great number of new specimens. Grabow began to arrange the didrachms of period I and the main currency of period II (the eagle/crab tetradrachms) in a die sequence. For the didrachms (Period I) his preliminary arrangement could be followed to a certain extent, but considerable changes have been made due to new die-combinations and other estimations. The sequence he established for the closely linked tetradrachms (Period II) has required only slight alterations. Less preliminary work had been done on the coins of Period III and none on the Æ .

The catalogue follows the normal standard in numismatic work. The die-sequence is built up from the obverse dies, and the reverse dies are numbered under the obverse with which they are first linked. The die pattern shows among other things that reverses of Groups III–IV with a common symbol do not follow in a row, as one and the same obverse can be combined with reverses bearing different symbols or with a plain field (e.g. O87, O89 with corngrain and head). This reflects the working process. The fixed anvil dies must have shared "a common pool of reverse dies".¹ There is no evidence in the Akragas material that an anvil die was ever reused in a later sequence.²

The list of specimens is arranged according to weights; the ones illustrated are marked by an asterisk*.

¹ Kraay, *Himera*, p. 13.

² Cf. C. Boehringer's remarks in *SNR* 78, 1999, p. 182, in his review of Caltabiano, *Messana*, transfer of D196, ser. XIII, XV.

PERIOD I

Didrachms, c. 510–470 BC

Group I, c. 510–495 BC. *Obv.* Varying legend, mainly AKRACANTOΣ

Obv. dies 37; *rev.* dies 53; die combinations 88.

1. **O1** Ethnic in large letters; eagle of vigorous full shape in high relief standing l. with closed wings and head slightly lifted; feathers rendered by parallel lines.
- R1** Large crab with broad, square shell forming three oblong divisions on each side; round eyes; thick claws and long, angular legs. Die of 1–4.
- | | | | |
|----|------|---|--|
| 1. | 8.81 | 6 | Comiso hoard; Boehringer, Comiso 1; Lanz 22, 10.5. 1982, 68. |
| 2. | 8.35 | 3 | *Stockholm (T. Regnell 1865), <i>SNG</i> 367. |
2. **O2** Similar eagle; big, round eye. Die of 2–3.
- R1** Die of 1–4
- | | | | |
|----|------|---|---------------------------------------|
| 1. | 8.31 | 6 | Berlin (Imhoof-Blumer 1900). |
| 2. | 8.22 | | *Galerie des Monnaies 25.6.1976, 680. |
3. **O2¹** Same die recut and worn: eagle's body thinner; big flaw in l. field. Die of 2–3.
- R1** Die of 1–4.
- | | | | |
|----|------|---|---|
| 1. | 8.40 | 1 | *New York (1962.146.1), <i>SNG ANS</i> 910. |
|----|------|---|---|
4. **O3** Slenderer eagle with lifted head. Die of 4–8.
- R1** Die of 1–4.
- | | | | |
|----|------|----|---|
| 1. | 8.71 | 11 | *Comiso hoard; Boehringer, Comiso 2; Peus 305, 1982, 15. Double-struck on r. side with two R in the ethnic. |
| 2. | 8.45 | 11 | Paris (FG 46). Overstuck on Corinth; Garraffo, <i>Studi Ernesto De Miro</i> , p. 354, pl. 1.7. |
5. **O3** Die more worn with flaw on letter T, left side. Die of 4–8.
- R2** Similar crab; legs more bent and irregular; pincers close together.
- | | | | |
|----|------|---|----------------------------|
| 1. | 8.73 | 6 | Pennisi. |
| 2. | 8.72 | 8 | Cefalù. |
| 3. | 8.65 | 7 | Pennisi; Rizzo pl. 1.1. |
| 4. | 8.48 | 5 | *Gela, Gela hoard (32270). |
| 5. | 8.45 | 9 | Zürich (ZB 203). |

6. 8.70 Udine, Collection Brandis 1.
Obv.: Other small flaws to l. and r. of eagle's head and below the wing:
 2, 4, 5.

- 6 O3** Die of 4–8. Same flaws as last.
R3 Similar crab but pincers more apart.
1. 8.82 G. Hirsch 53, 1967, 3038; Blaser-Frey 16, 1966, 1377.
 2. 8.60 Athena, list 15, 1986, 122.
 3. 8.52 6 Berlin (Löbbecke 1906).
 4. 8.40 6 *London (1949.4.11.147, Mavrogordato). *Rev.* Weakly struck, slightly double.
 5. 8.08 Kunst und Münzen list 63, 1990, 117; Bonhams 4, 1980, 25.
 6. 7.93 3 Syracuse (22429).
- 7 O3** Die of 4–8. Worn die. Same flaws as last.
R4 Similar crab with larger body: pincers close together; very long legs.
1. 8.90 11 UBS 49, 2000, 26; G. Hirsch 212, 2000, 33; MMAG in stock 1960.
 2. 8.84 1 *Syracuse (31168), Monte Bubbonia hoard.
 3. 8.77 Waddell 2, 12.9.1987, 56; do. list July 1985, 21.
 4. 8.73 Beckenbauer, list 1, 1972, 3; do. list 3, 1972, 4.
 5. 8.50 Vatican (cat. 31).
- Obv.* Die crack across eagle's neck: 2.
- 8 O3** Die of 4–8, much worn with small flaws all over the surface. The flaw below eagle's wing now bigger.
R5 Similar crab; small pincers; lowest pair of legs bent inwards. Die of 8–9.
1. 8.92 5 *Syracuse (31174), Monte Bubbonia hoard.
- 9 O4** Similar eagle holding head straight. Die has small cracks in r. and l. field.
R5¹ Claws slightly different but probably same die. Die of 8–9.
1. 8.84 2 Gela hoard. *Obv.* Eagle's head off flan.
 2. 8.73 3 Gela hoard. Worn.
 3. 8.66 11 *New York (1944.100.8182), *SNG ANS* 912.
 4. 8.44 Höfer list 10 (no year), 332.

- 10 O5** Ethnic in smaller letters; similar eagle. Die has thin, long cracks in r. and l. field.
- R6** Large crab with broad shell; long legs, more spread out; hairy pincers. Die of 10–12, 17.
1. 8.82 Paris, de Luynes 852; Salinas 71, pl. 4.5.
 2. 8.47 2 *London (1947, 4.6.128, Oman).
- 11 O6** Similar eagle.
- R6** Die of 10–12, 17.
1. 9.06 1 Santamaria 12.10.1949, 269; Bruun Rasmussen 245, 1970, 337; MMAG list 314, 1970, 3.
 2. 8.96 1 MMAG in stock 1960; Cahn 68, 1930, 1058; Cahn 65, 1929, 61; Gábrici, pl. 5.5.
 3. 8.85 5 New York (1941.152.214, Beatty), *SNG ANS* 906.
 4. 8.81 Triton II, 1998, 145; formerly Moretti.
 5. 8.78 12 Wadell internet 13.5.1998, 27116; NAC 9, 1996, 128; Leu 42, 1987, 76; de Ciccio, Note ed appunti, p. 9.4, fig. 6.
 6. (8.76) 2 Gela hoard.
 7. 8.69 1 Klagenfurt, *SNG* 399.
 8. 8.55 9 Private collection, Sweden; Ahlström list 51, 1975, 2180.
 9. 8.54 Egger 10.12.1906, 46.
 10. 8.50 Vatican (cat. 29).
 11. 8.44 MM Deutschland 4, 1999, 22; Auctiones 25, 1995, 59.
 12. 8.44 *MMAG in stock 1953; Hess 236, 1939, 211; do. 202, 1930, 2256; Helbing 31.1.1930, 99; do. 24.10.1927, 2624; Sotheby 8.5.1916, 9; Hirsch 19, 1907, 98.202.
 13. 8.43 06 Harvard, Dewing 548; Stack's 24–25.4.1941, 924.
 14. 8.37 Rovereto, Orsi collection, Gorini 72.
 15. 8.32 St. Petersburg.
 16. 8.30 10 Paris (FG 44).
 17. 8.21 Müller 30, 1980, 37; Galerie des Monnaies 1.8.1979, 2358.
 18. 7.71 11 Pennisi.
 19. – Comiso hoard; Boehring, Comiso 3.
- Obv.* Small flaws in front of eagle's chest: 1, 3, 5, 10, 18, 11.
- 12 O7** Similar slender eagle; feathering on wing rendered in an elaborate, stylized pattern in two layers. Die of 12–13.
- R6** Die of 10–12, 17.
1. 8.81 *Hess-Leu 45, 1970, 36; Münzhandlung Basel 10, 1938, 83; Cahn 71, 1931, 130; Cahn, *Kunstwerke der Antike* (Käppeli) F19.

- | | | | |
|-----|------|----|---|
| 2. | 8.69 | 11 | Formerly New York. |
| 3. | 8.64 | | Milan, Arslan 16. |
| 4. | 8.62 | 5 | Syracuse (23570, acquisition 1904). |
| 5. | 8.55 | | Athens; Sambon-Canessa 18.11.1907, 655. |
| 6. | 8.52 | | Oslo Mynthandel 41, 1998, 1005. |
| 7. | 8.50 | | Naville 5, 1923, 802. |
| 8. | 8.40 | 11 | Leiden. |
| 9. | 8.40 | 2 | Formerly Benson collection. |
| 10. | 8.31 | | Seaby-Glendining 1.12.1927, 559. |
| 11. | 8.30 | | Dorotheum 26.4.1961 (Hollschek XIII), 897 (not ill.). |
| 12. | 8.25 | | Galerie des Monnaies 9.6.1976, 1247. |
| 13. | 8.22 | 12 | Oxford (Robinson), <i>SNG</i> 1654. |
| 14. | – | | Gela hoard. |
| 15. | – | | Gela hoard. |
| 16. | – | 6 | In trade New York 1951. |

Obv. Long, broad flaw in r. field above eagle's back: 5, 6, 7, 8, 9, 15, 16. Thin crack below eagle's beak: 12.

13 O7¹ O7 worn and damaged by several small cracks; the ethnic on r. side partly effaced; eagle's wing broadened by re-engraved thin feathers. Die of 12–13.

- R7** Similar; crab with small body and extremely long legs.
- | | | | |
|-----|------|---|---|
| 1. | 8.86 | | *NFA 17.9.1981, 29; Cahn 68, 1930, 1057. |
| 2. | 8.80 | | Ars Classica 12, 1926, 659. <i>Obv.</i> : Upper part double-struck. |
| 3. | 8.80 | | Princeton University (55–101, Dan Fellows Platt); Glendining-Seaby 15.7.1929, 558; Glendining 1.12.1927, 558; Sambon-Canessa 27.6.1927, 638. <i>Rev.</i> : Double-struck. |
| 4. | 8.79 | 3 | Munich, <i>SNG</i> 35. |
| 5. | 8.74 | | St. Petersburg. |
| 6. | 8.74 | | Private Collection, South Germany. |
| 7. | 8.70 | | Kress 124, 1962, 200; Kress 120, 1961, 120b. |
| 8. | 8.67 | 2 | New York (1967.152.113), <i>SNG ANS</i> 907; Ratto list 1926, 6. |
| 9. | 8.67 | | Gans in stock 1954; Hirsch 19, 1958, 44. |
| 10. | 8.65 | | Leu list 'Sicilia' 1962, 2; Sambon-Canessa 27.6.1927, 639; Ratto stock cat. XI, 1934, 977; do. 24.6.1929, 54 (8.70). <i>Rev.</i> : Double-struck. |
| 11. | 8.56 | | Kunst und Münzen 26, 1988, 20. |
| 12. | 8.45 | | Lanz 26, 1983, 60. |
| 13. | 8.36 | 5 | Pennisi. Corroded. |
| 14. | 8.25 | 4 | Coburg. |

- 14 O8** Eagle has broader body, short neck and slightly lifted head; feathers formed by a fine pattern of oblong dots and long lines.
- R8** Similar crab; pincers close together and more upwards. Die of 14–15.
1. 9.04 12 Syracuse (31170), Monte Bubbonia hoard.
 2. 9.00 Schlessinger 26.2.1934, 39.
 3. 8.77 5 MMAG in stock 1976; Hess-Leu 12.4.1962, 47.
 4. 8.76 7 Comiso hoard; Boehringer, Comiso 4; SBV 5, 1979, 56.
Rev. Left side of crab off flan.
 5. (8.66) 6 Gela hoard.
 6. 8.62 3 Berlin (Löbbecke 1906).
 7. 8.62 2 Gela hoard; Monetaarium list 53, 1990, 23.
 8. 8.58 7 *London, Lloyd *SNG* 786; Jenkins, *Gela*, pl. 37.1.
 9. 8.46 Leu in stock 1954; Vinchon 27.2.1961, 50; Schulman 7.6.1937, 92 (8.50); Naville 4, 1922, 200.
 10. 8.31 Formerly New York, Metropolitan Museum, Ward 131; Sotheby 4.4.1973, 106.
 11. 8.26 MMAG 68, 1986, 95; Leu-MMAG 4.12.1965 (Niggeler I), 89; Münzhandlung Basel 4, 1935, 409.
 12. 8.22 11 Naples Fiorelli 3920.
Rev. Thin crack across legs of crab, below r.: 2, 8, 9, 10.
- 15 O9** Ethnic further out in r. field; slenderer eagle. Die of 15–18.
- R8** Die of 14–15, much worn and damaged by heavy flaws across the legs on both sides.
1. 8.62 MMAG list 35, 1944, 7.
 2. 8.59 Kricheldorf 5, 1958, 29.
 3. 8.47 11 *Oxford, *SNG* V.1651; Schulman 31.5.1938, 66; Glendining 9.3.1931, 886.
- Obv.* Small dotted flaw in front of eagle's chest: 1.
- 16 O9** Die of 15–18. Dotted flaw in front of eagle's chest; crack at l. foot.
- R9** Similar square crab with wide-open pincers.
1. 8.97 1 Gela, Gela hoard (32195).
 2. 8.80 Peus 299, 1980, 68; do.282, 1973, 35; Höfer list 9 (no year), 133.
 3. 8.62 *MMAG list 253, 1965, 1; Rosenberg 72, 1932, 155; Cahn 66, 1930, 93.
 4. 8.61 2 London (Goo 94). *Rev.* Below to r., graffito AΘANAIA.
 5. 8.31 Athens.
 6. 8.27 1 Grabow in stock 1957 (ex. Nägeli collection).
 7. 7.72 Naples Fiorelli 3917.

- 17 O9** Die of 15–18, more worn; same flaws.
R6 Die of 10–12, 17, now with dotted flaws above crab's claws and below crab's body and on legs, r. side.
 1. – *Bruun Rasmussen 142, 1962, 170.
- 18 O9** Die of 15–18; worn state as last.
R10 Similar crab with small body and long, thin legs. Die of 18–19, 23.
 1. 8.95 *Peus 274, 1970, 1525.
 2. 8.66 7 Coburg. *Rev.* Double-struck.
 3. 8.57 7 Gela, Gela hoard (32260). *Obv.* Eagle's head distorted.
- 19 O10** Similar eagle of full, round shape; thin beak, big, round eye. Die of 19–21.
R10 Die of 18–19, 23.
 1. 8.91 5 Gela, Gela hoard (32285).
 2. 8.80 Glasgow, *Hunter* 20.
 3. 8.79 7 *Paris, Delepierre *SNG* 515 (ex. Seltman, *GC*, pl. 8.12); Ratto 4.4.1927, 326; Nicolet-Pierre, *NG*, fig. 124.
 4. 8.73 3 MMAG 66, 1984, 22; Lockett, *SNG* III, part 2, 688; Glendining 25.10.1955, 572; Naville 5, 1923, 804.
 5. 8.72 11 Syracuse (31176), Monte Bubbonia hoard.
 6. 8.70 12 Leu 30, 1982, 20; Nanteuil 253.
 7. 8.60 G. Hirsch 173, 1992, 69; do. 170, 1991, 155; Rauch 37, 1986, 43 (8.68).
 8. 8.54 Peus 340, 1994, 99; Schulman 8.6.1931, 45; Cahn 60, 1928, 173 (8.60).
 9. 8.51 10 *Leu 81, 2001, 41; do. 33, 1983, 215 (ex. Gillet).
 10. 8.48 6 Comiso hoard; Boehringer, Comiso 5; Boehringer, *Kokalos*, pl. 13.2.
 11. 8.45 5 London, *BMC* 8; Salinas 70, pl. 4.3–4.
 12. 8.32 12 Berlin (B4840), scratches on *obv.*, rosette on *rev.*
 13. – Gela hoard.
Rev. Long thin crack on r. side across crab's legs: 3, 4, 5, 13.
- 20 O10** Die of 19–21.
R11 Similar crab; pincers tight together.
 1. 8.83 *Class. Num. Review*, vol. 19.4, 1994.16.
 2. 8.82 4 Syracuse (31167), Monte Bubbonia hoard.
 3. 8.80 Lanz 28, 1984, 104; Kress 155, 1972, 304; do. 123, 1962, 84; Canessa 12.6.1928, 471; Sambon-Canessa 27.6.1927, 637.
 4. 8.74 Berk 102, 1998, 149.

- | | | | | | |
|--|--|-----|------|---|--|
| | | 5. | 8.70 | | Vatican (cat. 30). |
| | | 6. | 8.70 | | *Schlessinger 26.2.1934, 38. |
| | | 7. | 8.63 | 5 | Munich, <i>SNG</i> 36 |
| | | 8. | 8.63 | 4 | Gela, Gela hoard (32268). |
| | | 9. | 8.62 | 5 | Gela, Gela hoard (32435). Corroded. <i>Rev.</i> Uncertain. |
| | | 10. | 8.50 | 7 | Paris (FG 46a). |
| | | 11. | 8.45 | | St. Petersburg. |
| | | 12. | 8.39 | 7 | New York (1941.153.216), <i>SNG ANS</i> 909. |
| | | 13. | 8.33 | 7 | Paris, Delepierre <i>SNG</i> 516; Bourgey 14.6.1932, 15. |
| | | 14. | 8.17 | | St. Petersburg. |
| | | 15. | – | | Gela hoard. |
| | | 16. | – | | Toderi list 2 (no year), 99. |
- Rev.* Long crack across crab's pincers extending into field above: 2, 3, 4, 8, 11, 12, 14.
- 21 O10** Die of 19–21. Much worn, letters cracked.
R– Uncertain *rev.* die, similar to R12. Crab with round, somewhat askew body.
- | | | | | | |
|--|--|----|------|---|---|
| | | 1. | 8.65 | | *Baranowsky in stock 1951. <i>Rev.</i> Double-struck. |
| | | 2. | 7.98 | 3 | Gela hoard. Corroded. |
- 22 O11** Similar eagle with head more lifted. Die of 22–23.
R12 Crab with round, askew shell; legs tight together. Die has small flaws. Die of 22, 24.
- | | | | | | |
|--|--|----|--------|---|---|
| | | 1. | 8.97 | 3 | *London Lloyd <i>SNG</i> 787. |
| | | 2. | (8.95) | 7 | Gela hoard. |
| | | 3. | 8.83 | 5 | Gela, Gela hoard (32251). |
| | | 4. | 8.72 | | Ars Classica 12, 1926, 660. |
| | | 5. | 8.63 | | Bourgey 17.6.1959, 98. |
| | | 6. | 8.62 | | Hamburger 98, 1933, 111; Sambon-Canessa 27.6.1927, 636. |
| | | 7. | 8.26 | 6 | Stockholm (Skjöldebrand), <i>SNG</i> 368. |
| | | 8. | 8.12 | | MünzZentrum 71, 1991, 60. |
| | | 9. | – | | Kress 130, 1964, 127. |
- Rev.* Larger dot below crab on l. side: 2, 3, 4, 5, 7, 8.
- 23 O11'** O11 much worn. Eagle's neck recut and thinner. Die of 22–23.
R10 Die of 18–19, 23. Die has long thin flaw as before and small dots above and below.
- | | | | | | |
|--|--|----|------|---|---|
| | | 1. | 8.64 | | Lanz 40, 1987, 78. |
| | | 2. | 8.36 | 7 | *New York (1941.153.213, Beatty), <i>SNG ANS</i> 905. |

- 24 O12** Ethnic upside down on r. side; similar eagle with thick neck and small head. Die of 24–27.
- R12** Die of 22, 24, much worn.
1. 8.75 Banque populaire du Nord, list 35, May 1985, 11.
 2. 8.15 12 *Syracuse (18184, acq. 1897). *Rev.* Partly double-struck. Identification uncertain.
- 25 O12¹** O12 recut; eagle's breast broader; eagle's wing and tail and the letters of the ethnic elongated by cracks in the die. Die of 24–27.
- R13** Crab with round body and big, round eyes; long, strongly bent, small pincers. Die of 25, 28–29.
1. 8.91 *Münzhandlung Basel 8, 1937, 102; Milne, *Greek and Roman Coins*, pl. 8.1 (*rev.*).
- 26 O12¹** Die of 24–27.
- R14** Similar crab with short, small pincers.
1. 8.89 Hess-Leu 28, 1965, 49; de Ciccio, *Note ed appunti*, p. 7.2, fig. 3.
 2. 8.85 Formerly private collection, Germany.
 3. 8.83 Hanberry collection, New York; Spink *NCirc* 94, May 1986, 3842a. *Rev.* double-struck.
 4. 8.71 1 Rome (80706, ex. de Ciccio).
 5. 8.70 Helbing 8.11.1928, 3495.
 6. 8.69 Formerly Moretti; Küncker 46, 1999, 29; Triton I, 1997, 188; Ratto stock cat. XI, 1934, 981; do. 24.6.1929, 55; Baranowsky 4, 1931, 286; Sambon-Canessa 27.4.1927, 632.
 7. 8.57 Milan, Arslan 17. Worn.
 8. 8.62 *Cambridge, Gow collection.
 9. 8.40 5 London, *BMC* 7.
 10. 8.44 Auctiones 25, 1995, 61. *Rev.* Distorted.
 11. 8.23 7 Winterthur (ex. C. Hüni), Bloesch 562.
 12. 8.20 Kress 90, 1951, 80. *Rev.* Corroded.
 13. – Comiso hoard; Boehringer, Comiso 6.
- Obv.* Dotted flaw below eagle's tail: nos. 6, 12, 13.
- 27 O12¹** Die of 24–27. Dotted flaw as last.
- R15** Crab with broad body; thin, wide-open pincers. Die of 27, 32.
1. 8.65 *MMAG list 238, 1963, 3.

- 28 O13** Similar eagle of fine proportions; curved back.
R13 Die of 25, 28–29.
- | | | | |
|----|------|----|--|
| 1. | 8.69 | | Agrigento, <i>SNG</i> 80, S.Catarina Villamosa hoard. |
| 2. | 8.67 | | Kricheldorf 29, 1975, 54; Leu in stock 1954; Egger 15.1.1912, 64; de Ciccio, Note ed appunti, p. 7, fig. 2.
<i>Rev.</i> Right claw weakly struck. |
| 3. | 8.49 | 11 | Gela, Gela hoard (32252). |
| 4. | 8.43 | 7 | *Klagenfurt, <i>SNG</i> 400. <i>Rev.</i> Pincers weakly struck. |
| 5. | 8.40 | | Athens; Salinas 67, pl. 4.1; Babelon 2316, pl. 78.1.
Quoted as <i>unicum</i> in Salinas. |
- 29 O14** Similar eagle with broad neck and log, flat head. Die of 29–30.
R13 Die of 25, 28–29.
- | | | | |
|----|------|----|---|
| 1. | 8.87 | 11 | *London, <i>BMC</i> 5; Salinas 68, pl. 4.2; Jenkins, <i>CGS</i> ¹ , pl. 1:c; <i>CGS</i> ² , figs 5–6. |
| 2. | 8.79 | 11 | Gela hoard. Corroded. |
| 3. | 8.41 | | Stack's 17.9.1980, 38. |
- Obv.* Several small cracks around eagle's body: all.
Rev. Small flaw between crab's eyes and at r. pincer: 1, (2?).
- 30 O14** Die of 29–30. More cracks around eagle's body.
R16 Large crab of triangular shape; big eyes, wide apart; claws upwards; the modelling of the carapace resembles a face. Die of 30–31, 37.
- | | | | |
|----|------|----|--|
| 1. | 8.85 | 7 | *Leu 15, 1976, 47 (ex. Judd collection); de Ciccio, Note ed appunti, p. 8.3, fig. 4. |
| 2. | 8.75 | 12 | Private collection; Hirmer pl. 59.168 (<i>rev.</i>). |
| 3. | 8.59 | 12 | London, Lloyd <i>SNG II</i> 788. |
| 4. | 8.38 | 1 | Toronto (925.2.100). |
| 5. | 8.12 | 1 | Cambridge, <i>SNG IV</i> 889. |
- 31 O15** Similar to O14.
R16 Die of 30–31, 37.
- | | | | |
|----|------|----|--|
| 1. | 9.00 | | Stack's 10.6.1970, 115. |
| 2. | 8.95 | | Vinchon 26.4.1999, 44. |
| 3. | 8.75 | 2 | *Syracuse (31169), Monte Bubbonia hoard. |
| 4. | 8.73 | 1 | Gela, Gela hoard (32267). Corroded. |
| 5. | 8.71 | 12 | Syracuse (31165), Monte Bubbonia hoard. |
| 6. | 8.67 | 5 | NAC 18, 2000,62; Leu 45, 1988, 28; Nanteuil 252. |
| 7. | 8.53 | 6 | Syracuse (25265, acq.1906); <i>Studi. Num.</i> I.1, (1940), pl. 6.8. |
| 8. | 8.50 | 5 | de Nicola in stock 1951; do. list Dec. 1950, 106; <i>RIN</i> 1902, pl. 16.1. |

9. 8.50 de Ciccio, Note ed appunti, p. 9, fig. 5.
 10. 8.45 9 New York (57.172.499, H. Miller), *SNG ANS* 911.
 11. 8.31 10 Milan, Arslan 18 (with countermark eagle of the Este family).
 12. 8.10 9 Syracuse (55465). Much worn.
Obv. Small cracks below eagle's head: 1, 2, 6.
 Thin, long flaw from eagle's body to C in ethnic: 1, 2, 4, 6, 7.

- 32 O16** Eagle has long legs, long neck; small head with round, big eyes and thin beak. Die of 32–33.
R15 Die of 27, 32 with three small flaws in field below.
 1. 8.69 10 Agrigento (2101), *SNG* 76. Corroded.
 2. 8.39 1 *London, *BMC* 3; *Principal Coins* 19; *NC* 1897, pl. IV.17; Seltman, *Book*, no. 44, pl. 7.
- 33 O16** Die of 32–33 with small flaws on top of eagle's head and in l. field.
R17 Similar to R16 but legs more bent.
 1. 8.87 9 Gela, Gela hoard (32261). *Rev.* Corroded, identification uncertain.
 2. 8.79 * NAC-O, 2004, 1483.
 3. 8.75 1 Gela hoard; Burgan 19, 1989, 295.
 4. 8.37 7 Aarhus University, Fabricius collection, *SNG* 179.
 5. 8.20 Auctiones 25, 1995, 58.
- 34 O17** Similar eagle with head lifted.
R18 Large, square crab with big, round eyes and thick claws; last pair of legs ends with dots. Die of 34–35, 40.
 1. 9.23 New York, (97–050, Leggett); Leu in stock 1954; Hirsch, NY, in stock in the 1950s (ex. de Ciccio).
 2. 9.15 1 Syracuse (31171), Monte Bubbonia hoard.
 3. 8.87 LHS 95, 2005, 489; formerly Moretti; Schulman 274, 1982, 4009.
 4. 8.84 Peus 250, 1954, 114; Hamburger 96, 1932, 35.
 5. 8.79 11 New York sale III, 2000, 83; Lockett, *SNG* 687; Glendining 25.10.1955, 571; Naville 6, 1924, 333; Hirsch 32, 1912, 21; Jenkins, *Gela*, pl. 37.2.
 6. 8.76 Spink *NCirc* 98, April 1990, 1543; MMAG 75, 1989, 117.
 7. 8.69 4 Copenhagen, *SNG* 22.
 8. 8.65 Grabow 14, 1939, 122.
 9. 8.63 Palermo.
 10. 8.62 7 *Harvard, Dewing 549 (acq. in Palermo 1930).

- | | | | | |
|--|-----|------|----|---|
| | 11. | 8.62 | 1 | London, <i>BMC</i> 4; Salinas 73, pl. 4.7. |
| | 12. | 8.52 | 12 | Edinburgh (1930–415), Rutter 24. |
| | 13. | 8.50 | | Cahn 60, 1928, 172. |
| | 14. | 8.46 | | UBS 16.9.2002, 1696; Kunst und Münzen list 53, 1984, 114; do. 23, 1982, 51. |
| | 15. | 8.41 | | CNG MB 53, 2000, 92. |
| | 16. | 8.35 | | NFA, MB 18.10.1990, 468. |
| | 17. | 8.23 | 1 | Gela hoard (32279). |
| | 18. | 8.20 | 9 | Berlin (Löbbecke 1906). |
| | 19. | 9.03 | | Udine, Collection Brandis 2 |
| | 20. | – | | Canessa 12.6.1928, 469. |
| | 21. | – | | Gela hoard. |
- Obv.* Crack at eagle's feet: 2, 5, 7, 11.
- 35 O18** Similar to O17 but head straight; wing has pointed end. Die of 35–37.
R18 Die of 34–35, 40, more worn.
- | | | | | |
|--|----|------|----|---|
| | 1. | 9.12 | 10 | Gela hoard; Schulten 20.10.1988, 48; do. 20.10.1987, 75. |
| | 2. | 8.74 | | CNG MB 54, 2000, 257. |
| | 3. | 8.72 | | M MAG list 113, 1952, 4; Jameson 501. |
| | 4. | 8.63 | 8 | Gela, Gela hoard (32291). |
| | 5. | 8.53 | 3 | *Formerly Moretti; NAC 13, 1998, 252; Antikenmuseum Basel 252; Canessa-de Nicola list Dec.1950, 105; do. Nov. 1948, 47; Hamburger 98, 1933, 110. Enl. pl. 20. |
- add.* – Gela hoard. Corroded. Identification of dies uncertain.
- 36 O18** Die of 35–37. Die more worn.
R19 Triangular crab with rounded sides; angular legs going upwards. Die of 36, 38, 39.
- | | | | | |
|--|----|------|--|---|
| | 1. | 8.88 | | Glasgow, <i>Hunter</i> 19. |
| | 2. | 8.78 | | Glendining 13.12.1963, 104; Spink <i>NCirc.</i> May 1961, 5006; G. Hirsch 22, 1959, 127. <i>Obv.</i> Feet of eagle distorted. |
| | 3. | 8.69 | | Bickler & Waddell 3, 1981, 32; NFA 7, 1979, 42. |
| | 4. | 8.50 | | Kress 123, 1962, 86. |
| | 5. | 8.48 | | *Naville 4, 1922, 198. |
- 37 O18** Die of 35–37 more worn; ethnic almost obliterated on r. side.
R16 Die of 30–31, 37.
- | | | | | |
|--|----|------|--|---|
| | 1. | 8.87 | | Spink in stock 1952; Glendining 31.1.1951, 56; Cahn 75, 1932, 145; Helbing 8.11.1928, 3494. |
|--|----|------|--|---|

- | | | | | |
|-----------|------------|---|----|--|
| | 2. | 8.78 | 11 | Munich, <i>SNG</i> 37. |
| | 3. | 8.70 | 7 | Naples Fiorelli 3918. |
| | 4. | 8.69 | | Formerly Moretti; Ratto stock cat. XI, 1934, 980. |
| | 5. | 8.65 | 11 | Berlin (Imhoof-Blumer 1900). |
| | 6. | 8.62 | 3 | Gela hoard; Waggoner, <i>Rosen</i> 28; NFA 18.12.1987, 75; Ariadne Galleries 9.12.1981, 19; Auctiones 5, 1975, 36. |
| | 7. | 8.57 | 4 | *Syracuse (31166), Monte Bubbonia hoard. |
| | 8. | 8.48 | | Münster (ex. Bieder). |
| | 9. | 8.44 | 5 | Pennisi. |
| 38 | O19 | Similar eagle with broad neck and lifted head; long head with flat top, similar to O17. | | |
| | R19 | Die of 36, 38, 39. | | |
| | 1. | – | | *Sambon 14.3.1923, 241. |
| 39 | O20 | Similar to O18, but broader body and wing less pointed. Die of 39–41. | | |
| | R19 | Die of 36, 38–39. | | |
| | 1. | 8.84 | 7 | *New York (57.172.500, H. Miller), <i>SNG ANS</i> 914; Canessa 22.5.1922, 167; Sambon 26.5.1925, 147; Sambon-Canessa 27.6.1927, 635. |
| 40 | O20 | Die of 39–41, more worn. | | |
| | R18 | Die of 34–35, 40. | | |
| | 1. | 9.35 | 5 | Athens. |
| | 2. | (8.89) | 10 | Gela hoard. |
| | 3. | 8.86 | 3 | Comiso hoard; Boehringer, Comiso 7. |
| | 4. | (8.78) | 7 | Gela hoard. |
| | 5. | 8.75 | 3 | Berlin (Imhoof-Blumer 1900). |
| | 6. | 8.75 | | Naville 4, 1922, 199. Corroded. |
| | 7. | 8.74 | | Naville 5, 1923, 803. |
| | 8. | 8.71 | | Schulman 265, 1976, 48; Spink, <i>NCirc.</i> 7/8, 1970, 8089, fig. 76. |
| | 9. | 8.70 | | Dorotheum 26.4.1961 (Hollschek 13), 889. |
| | 10. | 8.66 | 9 | New York (1944.100.8183), <i>SNG ANS</i> 913. |
| | 11. | 8.65 | 12 | Comiso hoard; Boehringer, Comiso 8; Auctiones 22, 1992, 66. |
| | 12. | 8.58 | | Peus in stock 1995. |
| | 13. | 8.56 | | Auctiones 13, 1983, 72. |
| | 14. | 8.55 | 2 | Syracuse (31183), Monte Bubbonia hoard. |
| | 15. | 8.53 | 7 | Copenhagen <i>SNG</i> 23. |
| | 16. | 8.50 | | Private collection X. |
| | 17. | 8.47 | 6 | Winterthur, Bloesch 563, pl. 23. Scratches in fields on both sides. |

18. 8.39 Formerly Benson collection.
 19. 8.25 Leiden. Oval flan.
 20. 8.23 Cambridge, Gow collection.
 21. 8.09 *Ahlström 39, 1989, 1639; do. 38, 1988, 2198;
 Stockholms Auktionsverk 34.10.1981, 3927;
 Baranowski stock cat. 1934, part 3, 4610.
 22. – Gela hoard.
Obv. Flaws in front of eagle's legs and in l. field: 3, 6, 7, 8, 10, 11–16.
- 41 O20** Die of 39–41 as last.
R20 Small, heart-shaped crab with legs spread out in a fan-like pattern;
 short claws; eyes wide apart. Die of 41, 43, 45. Flaws in field below.
 1. 9.00 2 Gela hoard; CNG 23, 1992, 80; NFA 5, 1978, 26.
 2. (8.70) 5 Gela hoard.
 3. 8.62 3 *Cambridge, *McClellan* 2028, pl. 64.16.
 4. 8.44 9 Pennisi; Salinas 78, pl. 4.12.
Note: R20 was used with O20 after O21–O22.
- 42 O21** Similar eagle with thick beak, strongly bent. Die of 42–43. Worn die.
R21 Heart-shaped crab with sharply angular legs; first pair of legs going
 upwards. Die of 42, 44.
 1. 8.77 5 Syracuse (25361, acq. 1905).
 2. 8.60 *Private collection X; Ratto stock cat. XI, 1934, 1015;
 do. 24.6.1929
 3. 8.44 2 Pennisi.
 4. 8.43 7 Cambridge, *SNG* IV, 888.
 5. 8.36 7 Formerly Moretti and Pennisi; Salinas 79, pl. 4.13. *Obv.*
 Graffito H above eagle's back.
 6. 8.28 CNG MB 60, 2002, 130.
 7. 8.18 5 Naples Fiorelli 3921.
 8. – Gela hoard.
 9. – Gela hoard.
Obv. Long flaw in r. field: 2, 3, 6, 9, 10.
- 43 O21** Die of 42–43. Worn die, r. field damaged, ethnic partely effaced.
R20 Die of 41, 43, 45.
 1. 8.90 Sambon-Canessa 27.6.1927, 634.
 2. 8.88 Peus 274, 1970, 1526.
 3. 8.84 11 Syracuse (31175), Monte Bubbonia hoard.
 4. 8.78 7 Gela hoard.
 5. 8.76 3 Bruun Rasmussen 245, 1970, 338; Helbing 8.11.1929,
 3496; de Ciccio, Note ed appunti, p. 10.7, fig. 9.

- | | | | |
|-----|------|----|--|
| 6. | 8.73 | | *UBS 15.9.1998, 111; Schulman 30.1.1956, 1972; Glendining 18.4.1955, 154; <i>Ars Classica</i> 12, 1926, 662. |
| 7. | 8.73 | | Vinchon 25.2. 1980, 7; Bourgey 2.7.1964, 24; do. 17.6.1959, 99. |
| 8. | 8.72 | 10 | Gela hoard. |
| 9. | 8.60 | | Schlessinger 4.2.1935, 217. |
| 10. | 8.59 | 12 | Munich, <i>SNG</i> 39. |
| 11. | 8.56 | 7 | Bologna. |
| 12. | 8.54 | 7 | Berlin (Löbbecke 1906). |
| 13. | 8.55 | | CNG MB 60, 2002, 131. |
| 14. | 8.52 | 12 | Naples Santangelo 7330. |
| 15. | 8.51 | 10 | London, <i>BMC</i> 6. |
| 16. | 8.41 | 5 | New York (57.172.501, H. Miller), <i>SNG ANS</i> 915; Sotheby 8.5.1916, 11; Jenkins, <i>Gela</i> , pl. 37.3. |
| 17. | 8.32 | 12 | Naples Santangelo 7328. |
| 18. | 8.31 | 3 | Vienna (35323); Egger 41, 1912, 94. |
| 19. | 8.20 | 11 | Paris, Delepierre <i>SNG</i> 518. |
| 19. | – | | Private collection, Lund. |

Rev. Flaw below on l. side: all except 16.

44 O22 Robust eagle with broad body and short neck; strong, long beak; long legs. Die of 44–45.

R21 Die of 42, 44.

- | | | | |
|----|------|----|--|
| 1. | 8.73 | 12 | Gela, found at Vassallaggi (1956), Merighi, <i>Arch. Class.</i> , p. 99.1, pl. 46.1; Orlandini & Adamesteanu, p. 206. |
| 2. | 8.65 | | Gela hoard; Spink/Galerie des Monnaies 10.10.1977, 64. |
| 3. | 8.47 | 2 | *Stockholm, <i>SNG Forbat</i> 93; MMAG list 208, 1961, 2; Cahn 80, 1933, 77; do. 71, 1931, 131; Helbing 9.12.1932, 492; do. 31.1.1930, 100; do. 8.11.1928, 3493; do. 20.3.1928, 65; Riechmann 30, 1924, 201. |

45 O22 Die of 44–45. Worn die, ethnic on r. side almost effaced on nos. 3 and 5, illegible on nos 1–2, 4.

R20 Die of 41, 43, 45. Same flaws as before, but larger.

- | | | | |
|----|------|---|---------------------------------------|
| 1. | 8.85 | 9 | Naples Fiorelli 3922. |
| 2. | 8.74 | 2 | Comiso hoard; Boehringer, Comiso 9. |
| 3. | 8.60 | | *Private collection X. |
| 4. | 8.55 | | Spink <i>NCirc.</i> March 1971, 2646. |
| 5. | 8.10 | 7 | Grabow in stock 1957 (ex. Nägeli). |
| 6. | 8.05 | | Bonham 4, 1980, 26. |

- 46 O23** Similar to O22 but thinner neck and head slightly lifted; big, round eye.
R22 Square crab; lowest pair of legs sharply bent; pincers close to body.
 Die of 46–47.
- | | | | |
|----|--------|---|---|
| 1. | 9.04 | 8 | Torino (1340). |
| 2. | 8.85 | 7 | *Syracuse (31164), Monte Bubbonia hoard. <i>Rev.</i> On l. side half of a second crab visible and below two legs of a third crab. |
| 3. | (8.66) | 7 | Gela hoard. |
| 4. | 8.61 | | Peus 366, 2000, 25. |
| 5. | 8.59 | | *CNG MB 60, 2002, 129. |
| 6. | 8.54 | 7 | New York (1941.153.215, Beatty), <i>SNG ANS</i> 908. |
| 7. | 8.35 | 8 | Berlin (Löbbecke 1908). |
| 8. | – | | Gela hoard. |
| 9. | – | | de Nicola list Dec. 1977, 45. |
- Obv.* Flaw in r. field below second A in ethnic and several small cracks in r. field: all
- 47 O24** Similar eagle with compact, round body. Die of 47–48.
R22 Die of 46–47.
- | | | | |
|----|------|--|------------------------------|
| 1. | 8.67 | | Ars Classica 12, 1926, 661. |
| 2. | 8.21 | | *MM Deutschland 5, 1999, 30. |
| 3. | – | | Platt 15.12.1933, 12. |
- Obv.* Several cracks in r. and l. field: all.
- 48 O24** Die of 47–48. Same flaws.
R23 Similar crab but rounder; pincers wider apart. Die of 48–49.
- | | | | |
|----|------|---|--|
| 1. | 8.60 | | Astarte 11, 2002, 159. |
| 2. | 8.60 | | Kress 120, 1961, 119a. <i>Rev.</i> Pincer of another crab visible on the crab's shell. |
| 3. | 8.55 | 8 | *Leu 72, 1998, 57; Spink, <i>NCirc.</i> 7, 1998, 5411; Hirsch in stock in the 1950s; de Ciccio, Note ed appunti, p. 7.1, fig. 1. |
- 49 O25** Finely modelled eagle standing r. with lifted head; beautifully marked feathering; long beak; feet wide apart. Die of 49–53.
R23 Die of 48–49.
- | | | | |
|----|------|--|---|
| 1. | 8.93 | | *Lockett, <i>SNG</i> 689; Glendining 25.10.1955, 573; Birkler & Waddell 2, 1980, 29. Ratto 4.4.1927, 328. |
| 2. | 8.72 | | Münzhandlung Basel 10, 1938, 84; Hess 207, 1931, 127; Hamburger 12.6.1930, 600. |

- 50 O25** Die of 49–53.
R24 Similar crab; pincers close together.
 1. (8.58) Gela hoard. Irregular, oblong flan. On *rev.* half of the crab off flan.
 2. 8.55 *London, Lloyd *SNG* 785; Jenkins, *Gela*, pl. 37.4.
 3. – Hirsch in stock in the 1950s (ex. de Ciccio).
- 51 O25** Die of 49–53.
R25 Similar crab; pincers wider apart; strongly bent legs. Die of 51, 58.
 1. 8.80 Formerly Moretti; NAC-M, 2002, 2136; Spink *NCirc.* 4, 2002, GKO 625.
 2. 8.72 Gela, Gela hoard (32240).
 3. 8.64 4 *Pennisi, Salinas 74, pl. 4.8.
- 52 O25** Die of 49–53.
R26 Similar crab with small, round body; irregular pincers.
 1. 8.66 4 *Comiso hoard; Boehringer, Comiso 10; Kress 186, 1983, 424; Boehringer, *Kokalos*, pl. 13.1. *Rev.* Below left, legs of another crab.
- 53 O25** Die of 49–53.
R27 Broader crab; thick pincers close together. Die of 53–54.
 1. 8.82 3 *Comiso hoard; Boehringer, Comiso 11; Kress 184, 1982, 400; do. 178, 1980, 417.
- 54 O26** Ethnic starting above on l. side; similar, broad-flanked eagle. Die or 54–56.
R27 Die of 53–54.
 1. 9.02 Karlsruhe, Badisches Landesmuseum.
 2. 8.91 12 Copenhagen, *SNG* 20; Glendining 9.3.1931, 888.
 3. 8.51 1 Syracuse (31177), Monte Bubbonia hoard.
 4. 8.50 12 Gela, Gela hoard (32281).
 5. 8.48 *MMAG list 260, 1966, 1.
- 55 O26** Die of 54–56.
R28 Similar broad and round crab; thick claws.
 1. 8.98 *Brussels.
 2. – Gela hoard.

- 56 O26** Die of 54–56.
R29 Similar crab.
 1. 8.83 3 *New York (1944.100.8184, Newell), *SNG ANS* 916.
 2. – Gela hoard.
- 57 O27** Eagle standing l.; slender, spool-shaped body; big head with flat top.
 Die of 57–61.
R30 Similar crab; very broad and narrow body; small claws, tight together.
 1. 9.27 8 Cefalù. Overstruck? Corroded.
 2. 9.07 7 Comiso hoard; Boehringer, Comiso 12.
 3. 8.52 7 Munich, *SNG* 38.
 4. 8.52? *Glendining 29.4.1954, 18; Spink in stock 1952 (8.52);
 Canessa-de Nicola list Nov. 1948, 48 (8.50). *Rev.* Photo
 retouched; lowest leg of the crab on r. side missing;
 Hamburger 98, 1933, 109 (8.58); Sambon-Canessa
 27.6.1927, 633 (8.65g).
 5. 8.38 3 Comiso hoard; Boehringer, Comiso 13.
 6. 7.55 Syracuse (47410), Passo di Piazza hoard.
- 58 O27** Die of 57–61.
R25 Die of 51, 58.
 1. 8.90 Athens.
 2. 8.59 11 *Rome (103389, ex. de Ciccio).
 3. – Gela hoard.
Rev. Long crack from crab's legs on r. side across lower field: all.
- 59 O27** Die of 57–61.
R31 Similar, round crab; thick, short claws close together. Die of 59, 62.
 1. 8.92 9 Gela hoard (32535)
 2. 8.80 Coin Galleries, *The Numismatic Review* vol. III, no. 4,
 1962, D24
 3. 8.77 4 *Palermo.
 4. 8.77 NFA MB 12.10.1988, 96.
 5. 8.60 NFA MB 27.6.1986, 83; Waddell 2, 1987, 57.
 6. 8.25 3 Vienna.
 7. – Glendining 1.12.1927, 561.
Obv. Small flaw below letter K: 6.
Rev. Flaw on crab's lowest leg, r. side: 6.

- 60 O27** Die of 57–61.
R32 Similar crab; wide-open pincers. Die of 60, 66.
1. 8.97 *Dorotheum, 3. Sonderauktion 14.10.1983, 21; Gorny 28, 1984, 3196.
 2. 8.67 NAC-A, 27.2.1991, 1164.
 3. 8.42 7 Copenhagen (C.T. Seltman 1921), *SNG* 21.
 4. 8.34 MünzZentrum 76, 1993, 27.
 5. – Myers 5, 1973, 42.
- Obv.* Same flaw as last below letter K: 5.
- 61 O27** Die of 57–61, more worn with several flaws in r. field and at eagle's legs.
R33 Similar crab with round body.
1. 8.62 *Syracuse (31173), Monte Bubbonia hoard.
- 62 O28** Small, thin eagle; large head with big, round eye. Die of 62–66.
R31 Die of 59, 62.
1. 8.80 1 *Naples Santangelo 7324.
- 63 O28** Die of 62–66.
R34 Similar crab.
1. 8.78 MMAG 13, 1954, 1015; Riechmann list 1, Mai 1921, 144.
 2. 8.70 7 Formerly private collection, Germany.
 3. 8.50 *Torino (1342).
- 64 O28** Die of 62–66.
R35 Similar, round crab; claws tight together. Die of 64, 68.
1. 8.64 Gela hoard.
 2. – Gela hoard.
 3. – *Christie's 29.6.1983, 18. *Obv.* Eagle's legs off flan.
- 65 O28** Die of 62–66. Die crack across eagle's legs.
R36 Similar. Die of 65, 69.
1. (8.98) 6 Gela hoard. *Obv.* Eagle's head has not come out.
 2. 8.87 12 Formerly private collection, Germany.
 3. 8.70 *Private collection X.
 4. 8.69 12 Gela, Gela hoard (32303).
 5. 8.44 Müller 36, 1982, 16; Vecchi 1, 13.5.1983, 22.
 6. 8.16 5 Naples Santangelo 7338. *Obv.* Eagle's feet off flan. Surface damaged.
 7. – Gela hoard.

- 66 O28** Die of 52–66. Same crack as last; several new cracks in r. and l. field.
R32 Die of 60, 66.
 1. – *Braunschweig.
- 67 O29** Eagle of fine proportions and finely marked feathering. Die of 67–72.
R37 Similar, but somewhat larger crab; longer claws.
 1. 8.90 9 Comiso hoard; Boehringer, Comiso 14; NAC-F, 17.4.1996, 1094.
 2. (8.65) 3 Gela hoard. *Rev.* Uncertain.
 3. 8.62 6 *Oxford, *SNG V*, 1653 (ex. Robinson); Glendinging 18. 4.1955, 153; do. 25.10.1938, 46; Kraay, *ACGC*, pl. 46.790.
- 68 O29** Die of 67–72.
R35 Die of 64, 68.
 1. (8.85) 3 Gela hoard.
 2. 8.42 Catania. *Obv.* Surface damaged.
 3. – *Feuardent 18.6.1924, 32.
 4. – Sambon-Canessa 18.11.1907, 655b.
Obv. Thin flaw between eagle's breast and letter N: nos. 1, 3.
- 69 O29** Die of 67–72.
R36 Die of 65, 69.
 1. 8.73 2 *Gela, Gela hoard (32245).
- 70 O29** Die of 67–72.
R38 Similar crab; open claws.
 1. (8.46) 3 *Gela hoard.
 2. – Comiso hoard; Boehringer, Comiso 15.
- 71 O29** Die of 67–72. Die-break in front of eagle's breast.
R39 Similar.
 1. 8.63 Rovereto (199), Orsi collection, Gorini 73.
 2. 8.47 7 Naples Santangelo 7340.
 3. 8.12 11 *Naples Santangelo 7335. *Obv.* Corroded.
- 72 O29** Die of 67–72. Same die-flaw.
R40 Similar. Die of 72–73.
 1. (8.90) 11 Gela hoard. Corroded.

- 73 O30** Short and broad eagle. Long flaw across eagle's body through the legend. Die flaw across eagle's body, extending through r. field.
- R40** Die of 72–73.
- | | | | |
|----|------|----|-------------------------------------|
| 1. | 8.91 | 2 | Berlin (Löbbecke 1906). |
| 2. | 8.65 | | *Kress 90, 1951, 79. |
| 3. | 8.48 | 6 | *Naples Fiorelli 3919. |
| 4. | 8.36 | 10 | Coburg; Salinas 76, pl. 4.10. |
| 5. | 8.32 | 3 | Sternberg in stock 1963. Oval flan. |
- 74 O31** Eagle standing in a more horizontal position; finely marked feathering. Die of 74–75.
- R41** Similar crab with more square body.
- | | | | |
|----|------|----|--|
| 1. | 8.61 | 11 | *New York (1944.100.8185), <i>SNG ANS</i> 917. |
| 2. | – | | Lepzyk 49, 1982, 30. |
- 75 O31** Die of 74–75.
- R42** Similar crab, but broader.
- | | | | |
|----|------|---|--|
| 1. | 8.86 | | Formerly Hammerich collection. |
| 2. | 8.58 | 1 | *Cambridge, <i>McClellan</i> 2014, pl. 64.9. |
- 76 O32** Thin eagle in horizontal position; head slightly lifted; long feet spread out forwards and backwards. Linear border. Die of 76–78.
- R43** More triangular crab with dotted shell; long legs. Die of 76, 81.
- | | | | |
|----|------|---|---|
| 1. | 8.84 | | *Formerly Moretti; Triton IV, 2000, 80; Leu in stock 1954; de Ciccio, <i>Note ed appunti</i> , p. 10.5, fig. 7 (8.78g). |
| 2. | 8.65 | | Glasgow, <i>Hunter</i> 14, pl. XI.11. |
| 3. | 8.36 | 2 | Gela, Gela hoard (32274). |
| 4. | – | | Gela hoard. |
| 5. | – | | Gela hoard. |
- 77 O32** Die of 76–78, worn die.
- R44** Similar crab; shell flattened on r. side.
- | | | | |
|----|------|---|--|
| 1. | 8.62 | 7 | *Syracuse (31172), Monte Bubbonia hoard. |
| 2. | 8.50 | 1 | Gela, Gela hoard (32315). |
- 78 O32** Die of 76–78, worn die.
- R45** Crab with more square shell; big, round eyes; thick claws; asymmetrical legs, widely spread out on r. side.
- | | | | |
|----|------|---|------------------------------|
| 1. | 8.76 | 3 | *Gela, Gela hoard (32253). |
| 2. | 8.71 | 5 | Syracuse (22655, acq. 1903). |
| 3. | 8.67 | 4 | Gela hoard (32478). |
| 4. | 8.52 | 3 | Pennisi. |

- 79 O33** Eagle with thin, elongated body. Die of 79–81.
R46 Broad, round crab. Die of 79, 82.
1. 8.70 12 Oxford (Robinson 1975); Kricheldorf 28, 1974, 34; MMAG 52, 1975, 61. Overstruck on Corinth; Westermark, *Overstrikes*, p. 292, pl. 36.15; Garraffo p. 133:1a, pl. 16.10.
 2. – *Gela hoard.
- 80 O33** Die of 79–81.
R47 Unusual type of crab; round body; thin claws; spidery legs.
1. 9.01 Kastner 8, 1975, 12.
 2. 8.86 11 Syracuse (31181), Monte Bubbonia hoard.
 3. 8.76 5 *Paris, Delepierre *SNG* 519.
 4. 8.61 7 Agrigento (2100), *SNG* 77.
 5. 8.25 11 Naples Santangelo 7327.
- Note to 3: Delepierre 519 and 525 "achetés à Milan en 1937, provenaient d'une trouvaille qui comprenait ... une trentaine de didrachmes d'Agrigente de cette série"*.
- 81 O33** Die of 79–81.
R43 Similar. Die of 76, 81.
1. – *Gela hoard.
- 82 O34** Similar eagle with long, thin body; small head. Worn die.
R46 Die of 78, 82.
1. 8.68 12 Göttingen (AS–95.2).
 2. 8.60 *Naples, Santangelo 7325.
- 83 O35** Ethnic retrograde, beginning below on r. side; similar eagle with broader body.
R48 Similar.
1. (9.27) 2 Gela hoard.
 2. 8.84 3 Gela, Gela hoard (32426). *Rev.* Corroded.
 3. 8.84 3 *Syracuse (31178), Monte Bubbonia hoard.
 4. 8.80 Kress 127, 1963, 314.
 5. 8.75 1 Syracuse (31180), Monte Bubbonia hoard.
 6. 8.70 G. Hirsch 196, 1997, 127; do. 190, 1996, 77; do. 187, 1995, 151; do. 184, 1994, 70; do. 182, 1994, 34; do. 179, 1993, 98.
 7. 7.99 Palermo (H73.425); *Himera* II, no. 637, pl. 118.9.

- 84 O36** Ethnic as on O35. Similar, finely shaped eagle with legs wide apart and head lifted. Die of 84–87.
- R49** Crab with small, round body; thick claws; very long, thin legs. Die of 85–86, known only in a worn state.
1. 8.97 *St. Petersburg.
 2. 8.55 Private collection X.
 3. 8.50 7 Syracuse (53413), Monteraci di Ragusa hoard, *AJN* 2, 1955, p. 72.2 (8.60).
 4. 8.24 2 London (Goo 95).
 5. – Canessa 12.6.1928 (Polese), 478.
 6. – Gela hoard.
 7. – Toderi (no year, no issue number), 130; de Nicola, list Sept. 1966, 175.
- Obv.* Small dot between letters AC on r. side: all?
Rev. Long flaw above crab's r. eye: 1, 4.
- 85 O36** Die of 84–87.
- R49¹** R49 distorted by cracks on l. side; heavily worn.
1. 9.00 11 *Gela hoard; SBV list autumn 1976, 9. *Rev.* Upper part of crab double struck.
 2. 8.64 Henzen list 122, 2001, 23; do. 116, 2000, 22; Astarte MB 5, 1999, 222.
 3. 8.47 5 Gela hoard (32310 bis).
 4. 8.33 5 Pennisi; Hamburger 98, 1933, 112; Glendining 9.3.1931, 887.
- 86 O36** Die of 84–87.
- R50** Similar.
1. 8.48 MMAG 72, 1987, 446.
 2. 8.66 6 Gela hoard. Corroded. *Rev.* Uncertain.
 3. 8.48 7 *Bologna, *Arte e Civiltà* 54.
 4. 8.41 12 Berlin (Imhoof-Blumer 1900, ex. Hoffman 24.4.1867, 98). Several cracks at the border.
 5. – Gela hoard. Corroded. *Rev.* Uncertain.
 6. – In commerce New York 1951.
- 87 O36** Die of 84–87, worn die.
- R51** Similar crab with broad, short body.
1. 8.80 4 *Syracuse (31184), Monte Bubbonia hoard.
 2. 8.67 MünzZentrum 72, 1991, 159.
 3. – Gela hoard.
 4. – Comiso hoard; Boehringer, Comiso 16.

- 88 O37** Ethnic beginning below on r. side; second A missing. Similar eagle in a more horizontal position. Thin die crack across eagle's tail extending into the fields on both sides of eagle. Die of 88–89.
- R52** Similar crab but larger body.
- | | | | |
|----|------|----|--|
| 1. | 8.81 | 4 | London, <i>BMC</i> 9; Salinas 77, pl. 4.11; Jenkins, <i>Gela</i> , pl. 37.5. |
| 2. | 8.80 | 1 | Gela, Gela hoard (32318). |
| 3. | 8.73 | 11 | *Syracuse (31179), Monte Bubbonia hoard. |
| 4. | 8.67 | 10 | Gela hoard. |
| 5. | 8.44 | 1 | Gela hoard. |
| 6. | 8.09 | | Naville 5, 1923, 805. |
| 7. | – | | Gela hoard. |
- Note.* The missing letter A in the legend was noted by Salinas, p. 13 and by Babelon, *Traité* II.1, col. 1551–1552.
- 89 O37** Die of 88–89. Same flaw as last.
- R53** Similar.
- | | | | |
|-----|--------|----|---|
| 1. | 9.17 | | Peus 270, 1969, 19. |
| 2. | (9.12) | 11 | Gela hoard. |
| 3. | 8.90 | | Kress 130, 1964, 126. |
| 4. | 8.82 | 11 | Gela, Gela hoard (32312). |
| 5. | 8.78 | 3 | Comiso hoard; Boehringer, Comiso 17. |
| 6. | 8.75 | 10 | *Oxford, <i>SNG</i> 1652. |
| 7. | 8.73 | 12 | Cambridge, <i>McClean</i> 2015. |
| 8. | 8.57 | 10 | Gans mail bid 16, 19.4.1960, 116. |
| 9. | 8.40 | 5 | Gela hoard (32445). |
| 10. | 8.36 | 12 | New York (44.100.8186, Newell), <i>SNG ANS</i> 918. |
| 11. | 8.25 | | Frankfurt/M. (H.M. 382), Förschner 377. |

Group II, c. 495–485 BC. *Obv.* Varying legend, mainly AKRA

Obv. dies 27; *rev.* dies 48; die combinations 64.

- 90 O38** Long ethnic written in distinct, small letters; eagle standing l. has slender body and short legs; long feet, spread out.
- R54** Crab in circular incuse; small, round body, short claws with long pincers; shell with six divisions; round eyes, lowest pair of legs has thick ends; above ΕΞΑΚΕΣΤΟΣ retrograde following the border of the incuse.

- | | | | |
|----|------|----|--|
| 1. | 8.99 | 10 | New York, <i>SNG ANS</i> 920; Thompson, p. 6:10, pl. I.10. |
| 2. | 8.64 | | *Comiso hoard; Boehringer, Comiso 18; Lanz 22, 10.5.1982, 71; Boehringer, <i>Kokalos</i> , pl. 13.3. |
| 3. | 8.63 | | *Palermo; Gàbrici, <i>NC</i> , p. 73, pl. 5.9 Overstruck on Corinth; Garraffo, p. 133.2. |

91 O39 Long ethnic; similar eagle; broader wing and no tail visible. Die of 91–92.

R55 Similar crab but no thick ends on the legs; below crab's body letters E+A retrograde.

- | | | | |
|-----|------|----|---|
| 1. | 8.83 | 11 | *London <i>BMC</i> 25; Salinas 91, pl. 4.25. |
| 2. | 8.82 | 6 | Copenhagen <i>SNG</i> 36 (ex. Proschowsky 1930). |
| 3. | 8.75 | 4 | Sternberg in stock 1956. |
| 4. | 8.64 | 9 | Cambridge, <i>McCLean</i> 2032, pl. 65.3. |
| 5. | 8.62 | 5 | Berlin (B28693). |
| 6. | 8.56 | 2 | Pennisi; Sambon-Canessa 27.6.1927, 652; Canessa 12.6.1928, 482; Hamburger 98, 1933, 134. |
| 7. | 8.55 | 7 | London, <i>SNG Lloyd</i> 795. |
| 8. | 8.54 | 6 | Gela, Gela hoard (32287). Overstruck on Corinth. Garraffo, <i>Studi Rizza</i> , pp. 376–377, figs 1, 3. |
| 9. | 8.42 | | Stockholm; MünzZentrum 47, 1982, 13. |
| 10. | 8.45 | 5 | Berlin (Fox 1873, ex. Whithall 1867, 28). |
| 11. | 8.37 | 5 | MMAG in stock 1953. |

Rev. Small die crack at r. claw visible on 5, 6, 8.

92 O39 Die of 91–92.

R56 Similar crab; below crab's body E+A retrograde. Die of 92–93.

- | | | | |
|-----|------|---|--|
| 1. | 8.80 | 3 | MMAG in stock 1960. |
| 2. | 8.78 | | Peus 284, 1974, 96; Blaser-Frey 15, 1966, 1480. |
| 3. | 8.72 | 6 | Leipzig, <i>SNG</i> 357. |
| 4. | 8.70 | | Comiso hoard; Boehringer, Comiso 19. |
| 5. | 8.65 | 7 | *London <i>SNG Lloyd</i> 794; Jenkins, <i>Gela</i> , pl. 37.6. |
| 6. | 8.65 | 6 | New York (44.100.8187, Newell), <i>SNG ANS</i> 919. |
| 7. | 8.63 | | NAC-D, 1994, 1213. |
| 8. | 8.58 | | Naville 5, 1923, 810. |
| 9. | 8.56 | | Nomisma/Banque populaire du Nord, list 34, March 1985, 13. |
| 10. | 8.37 | 7 | Pennisi. |
| 11. | 7.85 | | Helbing 8.11.1928, 3499. |
| 12. | – | | Gela hoard. |

- 93 O40** Shorter ethnic; similar, long-tailed eagle; no tail; feet with long, bent claws. Die of 93–97.
R56 Die of 92–93.
 1. 8.52 *MMAG 95, 2004, 8; do. list 584, 1995, 15; *Ars Classica* 12, 1926, 665.
 2. 8.35 2 Gela hoard; Leu in stock 1984.
- 94 O40** Die of 93–97. Flaw between letters A and K.
R57 Similar crab but shell is more oblong and has eight divisions; below letters E+A retrograde.
 1. 8.51 10 Comiso hoard; Boehringer, Comiso 20.
 2. 8.55 *Paris Luynes 848, Schisò hoard; Salinas 90, pl. 4.24 (*rev.*); Babelon, *Traité*, 2328, pl. 78.12.
 3. 8.40 5 Berlin (Löbbecke 1905).
 4. 7.96 9 Vienna (6290); Grose pl. 65.3.
 5. – Formerly Moretti.
- 95 O40** Die of 93–97.
R58 Crab with long, drooping legs and shorter pincers.
 1. 8.98 *SNG* Lockett 702; Glendining 27.9.1962, 38; do. 25.10.1955, 586.
 2. 8.85 2 London, *BMC* 21; Salinas 89, pl. 4.23.
 3. 8.83 3 Pennisi.
 4. 8.71 *Stuttgart (MK 1991/92, ex. Krüger).
 5. 8.70 *Auctiones* 18, 1989, 527; Sambon-Canessa 19.12, 1907, 83; Merzbacher 15.11.1910, 188; Hess 7.3.1935, 248.
 6. 8.65 7 Berlin (Fox 1873).
 7. 8.55 St. Petersburg.
 8. – Pilartz 4, 1963, 4; Hirsch in stock in the 1950s (ex. de Ciccio).
 9. – Glendining 7.7.1971, 29.
Obv. Same flaw as before.
Rev. Thin crack from crab's pincer towards the edge, l.side: nos. 1, 2, 5, 8.
- 96 O40** Die of 93–97. Same flaws as last.
R59 Similar to R58; legs on r. side tighter together. Die of 96, 100.
 1. 8.57 *Egger 45, 1913, 223.
- 97 O40** Die of 93–97. Same flaws as last.
R60 Similar crab with broader shell and shorter legs; pincers bent downwards. Die of 97–98.
 1. 8.70 1 *Comiso hoard; Boehringer, Comiso 21; Höfer list 7 (undated), 832.

- 98 O41** Long ethnic; similar eagle with long wing and no tail; feet with long claws. Die has flaws at eagle's back and in r. field. Die of 98–99.
R60 Die of 97–98.
 1. 9.07 5 *London (ex. Sotheby 15.6.1896, Bunburry).
 2. 8.58 Princeton University Library (2864).
- 99 O41** Die of 98–99.
R61 Similar crab with longer claws.
 1. 8.92 5 *Syracuse (31182), Monte Bubbonia hoard.
 2. 8.16 11 Pennisi.
 3. – Gela hoard.
 4. – Hesperia Art 40/41 (no date), 16.
- 100 O42** Short ethnic in large letters; broad-chested eagle with big head. Die of 100–101.
R59 Die of 96, 100.
 1. 9.00 Künker 26, 1994, 41; Kricheldorf 36, 1982, 20.
 2. 8.71 Agrigento, *SNG* 75, S. Catarina Villarmosa hoard.
 3. 8.52 Christiansen 20.12.1991, 3; Galerie des Monnaies in stock 1978.
 4. 7.78 9 *Syracuse, Casulla hoard.
 5. – Gela hoard.
 6. – Formerly Moretti.
Obv. Small crack in front of eagle's neck: nos. 1 and 5.
- 101 O42** Die of 100–101 with flaw in front of eagle's chest.
R62 Similar.
 1. (9.01) 7 *Gela hoard.
 2. 8.92 Triton IV, 2000, 81. *Rev.* Scratches.
- 102 O43** Ethnic written in large letters; similar eagle with thick neck and big head. Die of 102–103.
R63 Similar crab with triangular shell and short, open pincers; long, sharply ent legs.
 1. 9.07 11 *Seaby list June 1976, A 502; Glendining-Spink 23, 1975, 20; Glendining 1.12.1927, 562.
 2. 8.95 de Ciccio, Note ed appunti, p. 12.10, fig. 12.
 3. 8.86 10 Coburg.
 4. 8.56 Bourgey 24.2.1983, 17.

- 103 O43** Die of 102–103.
R64 Larger crab with long legs, sharply bent. Die of 103–104, 106.
1. 9.10 Grabow 14, 1939, 123.
 2. 8.84 11 Syracuse (31210), Monte Bubbonia hoard.
 3. 8.72 9 Naples, Fiorelli 3939.
 4. 8.53 *Boston, MFA (04.425), Baldwin Brett 227; Warren 193.
 5. 8.50 Peus 355, 1998, 48 (ex. Proschowsky and Hammerich, Copenhagen); Schulman 30.3.1936, 29.
 6. 8.41 5 New York (1944.100.8189), *SNG ANS* 922.
- 104 O44** Ethnic in small letters; smaller eagle with small head. Die of 104–105.
R64 Die of 103–104, 106.
1. 8.71 3 *Krefeld-Linn, Heynen collection, Franke & Paar 14, pl. 1.
- 105 O44** Die of 104–105.
R65 Crab's legs wide apart and strongly bent; short claws tight together; below crab's body letters E V. Die of 105, 107.
1. 8.12 NAC-O, 2004, 1486.
 2. 7.87 *Berk 98, 7.10.1997, 62.
 3. 7.85 Peus 301, 1981, 148.
- 106 O45** Large eagle with big head; strongly bent hook and large, round eye; ethnic in big letter. Die of 106–108.
R64 Die of 103–104, 106.
1. 8.50 10 Bonn, Akademisches Kunstmuseum.
- 107 O45** Die of 106–108.
R65 Die of 105, 107.
1. 8.88 1 *Syracuse (31211), Monte Bubbonia hoard.
 2. 8.86 5 Berlin (B18110). *Obv.* Graffitto *XII* (?) in large thin letters.
 3. 8.80 7 Gela hoard.
 4. 8.78 5 Berlin (Fox 1873); Salinas 87, pl. 4.21; Regling, *MaK*, pl. 10.243.
 5. 8.63 11 Syracuse (41859), Lentini hoard.
 6. 8.63 11 Hess 236, 1939, 217.
 7. 8.62 2 Copenhagen (Ramus 5), *SNG* 35.
 8. 8.53 Athens; Hamburger 29.5.1929, 97.
 9. ? Helbing 31.1.1930, 103.
- Note to 2.* On the ticket in Berlin the graffitto is interpreted as *AXIA*.
Obv. Flaw in front of eagle's chest beginning to appear: 5, 7, 8.

- 108 O45** Die of 106–108.
R66 Crab with short legs and claws; crab's shell has a clearly marked upper section; below letters E V. Die of 108–109.
1. 8.73 9 Pennisi.
 2. 8.53 *G. Hirsch 212, 2000, 34.
 3. 8.50 4 Gela hoard (32296).
- Obv.* Flaw as last, now bigger: 1, 3.
- 109 O46** Ethnic written in smaller letters; similar eagle leaning more forwards.
 Die of 109–111.
R66 Die of 108–109.
1. 8.94 11 Cambridge, *SNG* IV, 901; Leake, *NH*, Sicily, p. 49.4.
 2. 8.77 London, Lloyd *SNG* 792; Weber 1181.
 3. 8.76 11 London, *BMC* 15.
 4. 8.73 12 Syracuse (31193), Monte Bubbonia hoard; Rizzo pl. 1.10 (*obv.*).
 5. 8.71 12 Gela hoard (32466).
 6. 8.40 1 Syracuse (55444), Monforte S.Giorgio hoard. Corroded.
 7. 8.40 3 *New York (1944.100.8188), *SNG ANS* 921; Sambon 19.12.1907, 81.
 8. 7.92 Hess 247, 1978, 37; do. list February 1974, 9.
 9. – Gela hoard.
 10. – Galerie des Monnaies 9.6.1978, 1248
- Note to 4:* Rizzo pl. 1.10 illustrates two different coins, *rev.* = 294.5.
- 110 O46** Die of 109–111.
R67 Similar crab of more square shape and longer pincers; below letters E V.
1. 8.87 Himera hoard, Mid-American Rare Coin Auction, 15.2.1985, 55.
 2. 8.85 4 Pennisi, Rizzo pl. I.3; Salinas 86, pl. 4.20.
 3. 8.83 7 *Syracuse (31232), Monte Bubbonia hoard.
 4. 8.81 6 Syracuse (31233), Monte Bubbonia hoard.
 5. 8.58 Triton I, 1997, 189; formerly Moretti.
 6. 8.48 2 Oxford (Keble), *SNG* 1659.
 7. 8.31 1 London, Lloyd *SNG* 793 (ex. Evans); Hirsch 32, 1912, 23; Jenkins, *Gela*, pl. 37.7.
 8. 8.27 2 Berlin (6223/1955).
 9. 8.25 7 *SNG* Lockett 708; Glendining 25.10.1955, 592; Naville 5, 1923, 806; *CNG* 36, 1995, 1748. Oval flan.
 10. 8.18 5 Syracuse (24764).
 11. 7.30 Bonhams 4, 1980, 27.

- 111 O46** Die of 109–111.
R68 Similar crab but less broad; below letters E V.
1. 8.95 5 Pennisi.
 2. (8.90) 6 Gela hoard.
 3. 8.77 7 London, *BMC* 16.
 4. 8.74 Glasgow, *Hunter* 4.
 5. 8.74 7 Gela hoard; Ceresio 2, 1988, 16.
 6. (8.72) 2 Gela hoard.
 7. 8.63 Glendining 21.6. 1972, 67.
 8. 8.47 10 *Harvard, Dewing 550.
 9. 7.90 Vatican (13).
 10. – de Nicola list March 1966, 149.
- 112 O47** Similar eagle with big head; round eye. Die of 112–113.
R69 Broad, square crab with a marked upper section; short lower pair of legs.
1. 8.55 *de Ciccio, Note ed appunti, p. 10.6, fig. 8.
 2. 8.06 5 Berlin (no provenance).
 3. 7.70 2 Formerly Benson collection, Great Neck.
- Rev.* Dotted flaw below crab: all.
- 113 O47** Die of 112–113.
R70 Similar. Die of 113–114.
1. 9.01 *NFA 9, 1980, 41; Frey 15.4.1955, 990.
- 114 O48** Small rugged eagle; broad tail. Die of 114–116.
R70 Die of 113–114.
1. 8.97 7 *London *BMC* 14; Salinas 83, pl. 4.17(*rev.*); Milne, *Greek Coinage*, pl. 6.8.
 2. 8.41 4 Gela hoard (32465).
 3. 8.15 Astarte MB 5, 1999, 219.
- 115 O48** Die of 114–116.
R71 Triangular, mince crab with long, thin claws and legs far apart.
1. 8.88 5 Kress 94, 1953, 29.
 2. 8.87 7 Comiso hoard; Boehringer, Comiso 22; Boehringer, *Kokalos*, pl. 13.4.
 3. 8.63 3 Budapest, *SNG* 11; Egger 26.11.1909, 96.
 4. 8.59 11 Stockholm (*Smith* 23), *SNG* 369; Naville 4, 1922, 201; Naville 10, 1925, 172.
 5. 8.55 *Lisbon, *Gulbenkian* 155; Jameson III, 1886, pl. C.

- | | | | |
|-----|------|----|--|
| 6. | 8.54 | 9 | Munich, <i>SNG</i> 41. |
| 7. | 8.47 | 4 | Winterthur, Bloesch 567; Ratto 4.4.1927, 330; Bernhard, pl. I.8. |
| 8. | 8.34 | | New York (1987. 25.12, J. and D. Francis). |
| 9. | 8.33 | 6 | Gela, Gela hoard (32236). |
| 10. | 8.17 | | Müller 59, 1988, 78. |
| 11. | 8.16 | 11 | London, Lloyd <i>SNG</i> 789 (ex. Evans). |

116 O48 Die of 114–116.**R72** Small, triangular crab; claws tight together.

- | | | | |
|----|-------|---|---|
| 1. | 11.26 | 3 | Paris (FG 25); Salinas 81, pl. 4.15. |
| 2. | 9.08 | 9 | Leu 91, 2004, 60; Spink/Galerie des Monnaies 15.2.1977, 17; Kricheldorf list 92, 1969, 13. |
| 3. | 8.95 | | MM Deutschland 1, 1997, 41; Schulman 231, 1958, 3615. |
| 4. | 8.82 | 2 | Syracuse (31217), Monte Bubbonia hoard. |
| 5. | 8.50 | | *Hirsch (New York) in stock in the 1950s; de Ciccio, Note ed appunti, p. 11.8, fig. 10. Irregular flan. |
| 6. | 8.50 | | Dorotheum 26.4.1961 (Hollschek XIII), 895 (not ill.). |
- Same *obv.*, uncertain *rev.*, similar to R73. Tooled?
ad 8.36 12 *Paris, Delepierre *SNG* 521; Bourgey 14.6.1932, 15.

117 O49 Ethnic in large letters; eagle has broader body and thick neck. Die of 118–119.**R73** Similar.

- | | | | |
|-----|-------|----|---|
| 1. | 10.04 | 5 | Gela hoard. |
| 2. | 10.02 | | Peus 353, 1997, 49. |
| 3. | 9.31 | 5 | Syracuse, Casulla hoard. |
| 4. | 8.83 | | Hamburger 98, 1933, 125; Cahn 71, 1931, 132; Sambon-Canessa 27.6.1927, 650. |
| 5. | 8.80 | | Canessa 22.5.1922, 168. |
| 6. | 8.70 | 2 | Copenhagen, <i>SNG</i> 24. |
| 7. | 8.68 | 12 | Zürich, Landesmuseum. |
| 8. | 8.56 | 8 | Gela, Gela hoard (32513). Corroded. |
| 9. | 8.51 | 5 | Palermo. |
| 10. | 8.50 | 3 | London, Lloyd <i>SNG</i> 790. |
| 11. | 8.50 | | Hamburger 98, 1933, 124; Glendining 9.3.1931, 894. |
| 12. | 8.13 | | *Private collection X. |
| 13. | 8.09 | 1 | Paris Luynes 856; Babelon, <i>Traité</i> , pl. 78.10; Salinas 84, pl. 4.18. |
| 14. | 7.55 | | Lanz (Graz), 10, 1977, 53. |

- 118 O49** Die of 117–118.
R74 Similar crab; drooping pincers. Die of 118–119.
- | | | | |
|----|------|----|--|
| 1. | 8.73 | 11 | *Comiso hoard; Boehringer, Comiso 23; Lanz 24, 1983, 46. |
| 2. | 8.47 | 7 | Rauch 32, 1984, 55; formerly Pennisi. |
| 3. | 8.38 | 7 | Palermo. |
| 4. | 7.96 | 6 | Syracuse (9342). |
| 5. | – | | Gela hoard. |
- 119 O50** Similar. Die of 119–121.
R74 Die of 118–119.
- | | | | |
|----|------|---|----------------------------|
| 1. | 8.67 | 5 | *Gela, Gela hoard (32364). |
| 2. | 8.00 | 5 | Enna. |
- 120 O50** Die of 119–121.
R75 Similar.
- | | | | |
|----|------|----|--|
| 1. | 9.70 | 9 | Gela, Gela hoard (32387). |
| 2. | 8.74 | 10 | *Leu list ‘Sicilia’ 1962, 3; Ratto in stock 1957. |
| 3. | 8.69 | | Peus 280, 19772, 46. |
| 4. | 8.63 | | Vinchon 11.4.1988, 232; Weber 1180; Nanteuil 255. |
| 5. | 8.51 | 9 | Gela hoard (32542). |
| 6. | 8.31 | 2 | Gela hoard (32213). |
| 7. | 8.14 | | St. Petersburg. |
| 8. | 7.23 | | Kölner Münzkabinett 31, 1981, 17. |
| 9. | – | | In trade 1953; Rizzo pl. I.3 (private collection). |
- 121 O50** Die of 119–121.
R76 Similar small, round crab; legs tight together; eyes far apart. Die of 121–122.
- | | | | |
|----|------|--|-------------------------------------|
| 1. | 7.80 | | *Karlsruhe, Badisches Landesmuseum. |
|----|------|--|-------------------------------------|
- 122 O51** Similar. Die of 122–125.
R76 Die of 121–122.
- | | | | |
|----|------|---|---------------------------|
| 1. | 9.03 | 7 | Gela, Gela hoard (32583). |
| 2. | 8.10 | 9 | *Vienna (6293). |
- 123 O51** Die of 122–125.
R77 Similar. Die of 123, 127.
- | | | | |
|----|------|----|---------------------------|
| 1. | 9.10 | 4 | Gela, Gela hoard (32467). |
| 2. | 9.04 | | Lanz 26, 1983, 61. |
| 3. | 8.75 | 12 | Gela hoard. |

- | | | | |
|----|------|----|------------------------------------|
| 4. | 8.46 | 5 | Gela, Gela hoard (32581). |
| 5. | 8.42 | 12 | Gela, Gela hoard (32569). |
| 6. | 8.31 | 10 | *London (1918 2.4.47, Ford). |
| 7. | 8.29 | 5 | Gela hoard (32394). |
| 8. | 7.65 | | New York (1984-65-16, J.P. Rosen). |

124 O51 Die of 123–125.
R78 Similar.

- | | | | |
|----|------|----|--|
| 1. | 9.24 | | Elsen 57, 1999, 1267. |
| 2. | 8.92 | 3 | *Harvard, Dewing 551; <i>Ars Classica</i> 15, 1930, 264. |
| 3. | 8.83 | 6 | Gela, Gela hoard (32482) |
| 4. | 8.76 | 3 | Pennisi; Salinas 85, pl. 4.19. |
| 5. | 8.40 | 10 | Utrecht. |
| 6. | 8.10 | | St. Petersburg. |

Obv. Small flaws at letters K–R: 1, 2.

125 O51 Die of 123–125.
R79 Crab's eyes in semicircular recesses. Die of 125–126.

- | | | | |
|----|------|---|---|
| 1. | 8.99 | 9 | *Leu 83, 2002, 50; Tkalec 28.10.1994, 35. |
|----|------|---|---|

Obv. Same flaws as last; between A–K and thin flaw below letter R.

126 O52 Similar. Die of 126–129.
R79 Die of 125–126.

- | | | | |
|----|------|---|---|
| 1. | 9.22 | 9 | *Syracuse (31201), Monte Bubbonia hoard. |
| 2. | 8.55 | | Myers 2, 1972, 31; Spink, <i>NCirc.</i> Jan. 1971, 7. |
| 3. | 8.45 | 1 | New York (1944.100.8190), <i>SNG ANS</i> 924. |

127 O52 Die of 126–129.
R77 Similar.

- | | | | |
|----|------|---|-------------------------------------|
| 1. | 8.43 | 5 | *Palermo. |
| 2. | 7.91 | 5 | Formerly Nägeli collection, Zurich. |

128 O52 Die of 126–129.
R80 Similar, smaller crab.

- | | | | |
|----|------|----|---|
| 1. | 9.10 | 9 | Gela, Gela hoard (32212). |
| 2. | 8.87 | 11 | Bologna, <i>Arte e Civiltà</i> , no. 55, pl. 3. |
| 3. | 8.66 | | Athens; Hamburger 27.5.1929, 111. |
| 4. | 8.63 | 8 | Oslo. |
| 5. | 8.60 | 12 | Gela, Gela hoard (32400). |
| 6. | 8.51 | 2 | Syracuse (31215), Monte Bubbonia hoard. |
| 7. | 8.50 | | Dorotheum 290, 1966, 106. |

- | | | | |
|-----|------|---|---|
| 8. | 8.49 | | *Lisbon, <i>Gulbenkian</i> 156; Naville 10, 1925, 171; Naville 1 Pozzi 1921, 375; Sambon 19.3.1907, 82; Jenkins, <i>Gela</i> , pl. 37.8; <i>Le Bestiaire</i> , p. 55, fig. 18 (rev.). |
| 9. | 8.46 | 2 | Pennisi; Helbing, list 17, 1934, 112; Cahn 80, 1933, 76; Helbing 70, 1932, 491. |
| 10. | 8.42 | 6 | Gela, Gela hoard (32454). |
| 11. | 8.35 | 6 | Gela, Gela hoard (32573). |
| 12. | 8.10 | | Schulman 232, 1959, 1289. |
| 13. | – | | Gela hoard. |

Note to 7: Gulbenkian 156 "The pattern on the crab's shell might well be a stylised half thunderbolt".

**129 O52
R81**

Die of 126–129.

Similar crab with long claws.

- | | | | |
|----|------|----|---|
| 1. | 8.88 | 4 | Gela, Gela hoard (32352). |
| 2. | 8.82 | 12 | Toronto (925.2.100, ex. Baldwin & Sons) |
| 3. | 8.76 | | *Private Collection X. |
| 4. | 8.73 | 6 | Gela hoard. |
| 5. | 8.60 | 4 | Gela, Gela hoard (32241). |
| 6. | 8.44 | | Elsen 47, 1996, 73. |
| 7. | 8.07 | 4 | Gela, Gela hoard (32585). |

**130 O53
R82**

Similar.

Similar.

- | | | | |
|----|------|----|---|
| 1. | 9.22 | 2 | Gela, Gela hoard (32582). |
| 2. | 8.70 | 2 | Gela hoard. |
| 3. | 8.59 | 12 | Gela hoard; MMAG in stock 1976. |
| 4. | 8.48 | 6 | New York (1925.172.18), <i>SNG ANS</i> 923. |
| 5. | 8.46 | 9 | Leu 81, 2001, 42. |
| 6. | 8.43 | 6 | *London, <i>BMC</i> 11. |
| 7. | 8.27 | 7 | Coburg. |
| 8. | 9.92 | | Milan, Arslan 23. |

**131 O54
R83**

Similar small eagle with short tail within circular border. Die of 131–133.

Similar. Die of 130, 133.

- | | | | |
|----|------|----|---|
| 1. | 8.93 | 10 | Gela hoard. |
| 2. | 8.92 | | Gela hoard; Kurpfälzische Münzhandlung 9.12.1975, 20. |
| 3. | 8.47 | | Galerie des Monnaies 25.7.1981, 1004; <i>Ars Classica</i> 12, 1926, 664; Hess 157, 1918, 165; Merzbacher 2.11.1909, 2421. |
| 4. | 8.11 | 3 | New York (1941.153.217), <i>ANS SNG</i> 929. |
| 5. | 8.10 | | *Private collection X. |

- 132 O54** Die of 131–133.
R84 Similar.
1. 8.73 Formerly Moretti.
 2. 8.73 2 Gela, Gela hoard (32547).
 3. 8.71 8 Gela, Gela hoard (32341).
 4. 8.35 New York (1984-65-13, J.P. Rosen).
 5. 8.26 9 New York (1925.14.6), *SNG ANS* 925. *Obv.* Poorly preserved, identification uncertain.
 6. – *Comiso hoard; Boehringer, Comiso 24.
- 133 O54** Die of 131–133.
R85 Similar crab in round incuse; pincers bent downwards.
1. 9.16 6 Cahn 75, 1932, 146; Glendining 9.3.1931, 895; Canessa 5, 1928, 486; Sambon-Canessa 27.6.1927, 649.
 2. 9.06 7 Gela, Gela hoard (32551).
 3. 8.93 9 Göttingen (AS 95–11).
 4. 8.88 9 *Formerly Moretti; CNG/NAC MB 40, 1996, 723; Glendining 18.4, 1955, 155; Hamburger 98, 1933, 123; Schulman 31.5.1938,69; Hess 202, 1930, 2257.
 5. 8.88 2 Syracuse, Casulla hoard.
 6. 8.70 7 Syracuse (31219), Monte Bubbonia hoard.
 7. 8.68 Torino (1341).
 8. 8.66 6 London, Lloyd *SNG* 791.
 9. 8.64 5 Comiso hoard; Boehringer, Comiso 25.
 10. 8.57 Frankfurt/M (8457), Förschner 378.
 11. 8.55 6 Pennisi.
 12. 7.89 7 New York (1944.100.8192), *SNG ANS* 927.
 13. 7.71 Manchester, *SNG* 366.
 14. – Gela hoard.
- 134 O55** Similar eagle with longer tail; circular border. Die of 134–135.
R83 Similar; pincers bent downwards. Die of 131, 134.
1. 8.94 3 Formerly New York, Metropolitan Museum, Ward 132; Sotheby 4.4.1973, 107.
 2. 8.59 6 Berlin (Fox 1873).
 3. 8.50 10 Naples Fiorelli 3928.
 4. 8.25 5 Naples Fiorelli 3934.
 5. 8.17 2 New York (1957.172.502), *SNG ANS* 928.
 6. – *MMAG list 214, 1961, 3.
 7. – Deppert list 1, June 1958, 55.
- Obv.* Two parallel die breaks at l.border below: 1, 2, 5–7.

- 135 O55** Die of 134–135.
R86 Similar. Die of 135,139.
1. 9.11 7 Comiso hoard; Boehring, Comiso 26; Peus 308, 1983, 71; do. 300, 1980, 52.
 2. 8.77 Berk 89, 1996, 95; *Ars Classica* 16, 1933, 408; *Ars Classica* 14, 1929, 72.
 3. 8.63 7 *Syracuse (31194), Monte Bubbonia hoard.
 4. 8.61 12 Syracuse (20054, acq. 1900).
 5. 8.39 6 Munich, *SNG* 42.
 6. 8.31 5 Copenhagen, *SNG* 25.
- 136 O56** Small eagle with short neck in horizontal position. Die of 136–140.
R87 Similar. Die of 136, 141.
1. 7.52 *Peus 340, 1994, 100; *Ars Classica* 14, 1929, 74.
- 137 O56** Similar. Die of 136–140. Flaw at letter K.
R88 Similar.
1. 8.75 1 Gela, Gela hoard (32388).
 2. 8.65 6 *Munich, *SNG* 40; Salinas 82, pl. 4.16 (*rev.*)
 3. 8.32 4 Sotheby 12.5.1983, 92; Nanteuil 254; Cahn 68, 1930, 1060.
 4. 8.03 Bourgey 17.6.1959, 101.
 5. 7.95 G. Hirsch 156, 1987, 40; Schlessinger 4.2.1935, 219.
 6. – Sambon 14.3.1923, 243.
 7. – Kricheldorf 26, 1973, 27.
- 138 O56** Die of 136–140. Flaw at letter K as last.
R89 Similar
1. 9.01 *MMAG 54, 1978, 81.
 2. 9.00 7 Syracuse (31212), Monte Bubbonia hoard.
 3. 8.75 2 Spink 71, 1989, 14; do in stock 1952.
 4. 8.58 5 Cambridge, *SNG* IV, 900.
 5. 8.50 Dorotheum 26.4.1961 (Hollschek XIII), 894.
 6. 8.47 5 Oxford (Bailliol), *SNG* 1656.
 7. 8.42 9 Syracuse (31214), Monte Bubbonia hoard.
 8. 8.35 Platt 3.4.1933, 36; Cahn 60, 1928, 174.
 9. 8.35 Ciani 20.2.1935, 59.
 10. 8.01 1 Private collection, Ognina hoard; Boehring, Ognina 1.
- Obv.* Another flaw above eagle's back extending over letter R: all except 8.

- 139 O56** Die of 136–140. Same flaws as last.
R86 Die of 135, 139.
1. 8.80 11 *Vinchon, 13.4.1985, 66; *Ars Classica* 14, 1929, 73.
Irregular flan.
 2. 8.69 Auktionones 25, 1995, 62.
 3. 8.49 12 Nomos in stock 1979.
 4. 8.44 Hirsch 169, 1991, 93.
 5. 8.02 MMAG list 458, 1983, 6.
 6. – 1 Schulman in stock 1951.
- Rev.* Small, dotted flaw in field below: 1.
- 140 O56** Die of 136–140.
R90 Similar crab.
1. 8.88 7 *Syracuse (5435).
 2. 8.70 5 Gela, Gela hoard (32229).
 3. 8.67 5 Gela, Gela hoard (32200).
 4. 8.28 Hamburger 98, 1930, 126.
 5. 8.29 10 Agrigento (no inv. no.), *SNG* 82.
 6. 7.92 7 Syracuse (47413), Passo di Piazza hoard.
- 141 O57** Similar to O54. Die of 141–143. Thin die crack above letter K.
R87 Die of 136, 141.
1. 8.80 12 Formerly Pennisi; de Nicola list March 1966, 154.
 2. 8.53 3 Formerly Pennisi; G. Hirsch 211, 2000, 1229; Hess-Divo internet 2.4.2000, no. 42; *Védrines* 8.1.1986, 17; do. 30.12.1981, 2; MMAG in stock 1976.
 3. 8.48 Spink *NCirc.*, July–Aug. 1978, 9385; do. Febr. 1977, 938; do. Oct. 1974, 8092.
 4. 8.43 MMAG 79, 1994, 96.
 5. 8.34 7 *Paris, Delepierre *SNG* 520; Florange-Ciani 18.12.1924, 163.
 6. 8.28 2 Glendining 14, 1963, 103; Ratto in stock 1957.
- 142 O57** Die of 141–143. Same crack as last.
R91 Similar.
1. 9.26 4 Gela hoard; Tkalec 19.2.2001, 21; Vinchon 13.4.1991, 10 (8.97); Leu list 19, 1984, 1.
 2. 8.98 10 Gela hoard.
 3. 8.91 Triton IV, 2000, 82; Sternberg 12, 1982, 59.
 4. 8.70 Santamaria 27.3.1928, A84.
 5. 8.70 7 Athens.
 6. 8.68 5 Zürich, Zentral Bibliothek (1915/117).

- | | | | | | |
|------------|--------------------|--|------|----|---|
| | | 7. | 8.46 | | Müller 29, 1980, 43. |
| | | 8. | 8.40 | 12 | *New York (1944.100.8191), ANS <i>SNG</i> 926. |
| | | 9. | 8.39 | 2 | London, <i>BMC</i> 12. |
| | | 10. | 8.27 | 2 | Berlin (Löbbecke 1906). |
| | | 11. | 8.03 | | Bankhaus Aufhäuser 8, 1991, 15; MMAG list 532, 1990, 2; NFA 14.12.1989, 52; Feuardent 17.12.1919, 76. |
| | | 12. | – | | Gela hoard. |
| | | 13. | – | | Gela hoard. |
| 143 | O57
R92 | Die of 141–143. Thin crack above letter K as last.
Similar. | | | |
| | | 1. | 9.18 | 11 | *Naples, Fiorelli 3933. |
| | | 2. | 9.12 | | Spink <i>NCirc.</i> 2, 1981, 743. |
| | | 3. | 7.38 | | Elsen 18, 1991, 62. |
| 144 | O58
R93 | Similar. Die of 144–146.
Similar crab but thicker claws. | | | |
| | | 1. | 8.99 | 9 | Elsen 76, 2003, 39; do list 211, 2000, 12; NAC 18, 2000, 63; Hess-Leu 24.3.1959, 49; Leu in stock 1954; de Ciccio, Note ed appunti, p. 11.9, fig. 11. |
| | | 2. | 8.88 | | *Private collection X. |
| | | 3. | 8.70 | 6 | Naples Fiorelli 3932. |
| | | 4. | 8.66 | 10 | Syracuse (31202), Monte Bubbonia hoard. |
| | | 5. | 8.54 | | MMDeutschland 12, 2002, 18. Some scratches on <i>obv.</i> |
| | | 6. | – | | Gela hoard. |
| 145 | O58
R94 | Die of 144–146.
Similar crab; thin legs. | | | |
| | | 1. | 8.86 | 9 | * <i>SNG</i> Lockett 701; Glendining 25.10.1955, 585; Naville 6, 1923, 337. |
| | | 2. | – | | Formerly Moretti. |
| | | 3. | – | | Kress 170, 1970, 473. |
| 146 | O58
R95 | Die of 144–146.
Similar. Die of 145–146. | | | |
| | | 1. | 8.84 | 2 | *Naples, Santangelo 7333. |
| 147 | O59
R95 | Similar. Die of 147–148.
Die of 146–147. | | | |
| | | 1. | 9.21 | 1 | Comiso hoard; Boehring, Comiso 27. |
| | | 2. | 8.59 | | Müller 30, 1980, 38; Galerie des monnaies in stock 1978. |

- | | | | |
|----|------|--|---|
| 3. | 8.42 | | *Birkler & Waddell 3, 1981, 33. |
| 4. | 7.89 | | Peus 316, 1986, 88. |
| 5. | – | | Gela hoard. |
| 6. | – | | In commerce, New York, 1951. |
| 7. | – | | Hesperia Art Bull. 40–41 (no year), 15. |

148 O59 Similar. Die of 147–148.

R96 Crab with very small, round body; long legs.

- | | | | |
|-----|------|---|---|
| 1. | 8.98 | | Paris, Collection Valton 128, <i>RN</i> 1909, pl. 2. |
| 2. | 8.81 | 5 | Gela, Gela hoard (32234). |
| 3. | 8.80 | 6 | Syracuse (5433). |
| 4. | 8.68 | 2 | Santamaria 25.10.1951, 288. |
| 5. | 8.57 | 1 | Berlin (Imhoof-Blumer 1900). |
| 6. | 8.55 | | Schulman 243, 1966, 1080; Cahn 75, 1932, 147. |
| 7. | 8.50 | 2 | Syracuse (53416) Monteraci hoard, <i>AIIN</i> 2, 1955, p. 73.5. |
| 8. | 8.21 | 5 | Berlin (Löbbecke 1906). Overstruck on Corinth |
| 9. | – | | *Gela hoard. |
| 10. | – | | In commerce, New York, 1951. |

Rev. Thin crack from crab's lowest leg on r. side: all except 2.

149 O60 Similar.

R97 Similar crab; shell with round dot in the middle; short claws.

- | | | | |
|----|------|---|-----------|
| 1. | 8.58 | 2 | *Pennisi. |
|----|------|---|-----------|

150 O61 Similar.

R98 Square crab with tiny claws.

- | | | | |
|----|------|---|-----------------------------------|
| 1. | 8.75 | 2 | *Gela, Gela hoard (32348). |
| 2. | 8.58 | 2 | Pennisi; Hamburger 98, 1933, 127. |
| 3. | 8.40 | | Palermo. |
| 4. | 7.96 | 7 | Grabow in stock in the 1950s. |

151 O62 Similar, larger eagle with big head, flat on top.

R99 Somewhat different crab, broad above; big, round eyes; strongly bent legs. Die of 151–152.

- | | | | |
|----|------|---|---|
| 1. | 7.80 | 7 | *Private collection, Sweden (ex. Forbat and G. de Laval). |
|----|------|---|---|

152 O63 Similar eagle with thin neck.

R99 Die of 151–152.

- | | | | |
|----|------|---|--|
| 1. | 8.45 | 5 | *Sternberg 12, 1982, 58 (ex. Pennisi). |
|----|------|---|--|

- 153 O64** Similar.
R100 Similar crab; eyes wide apart; shell with sharp edges; short claws and legs.
 1. 8.61 3 *Gela, Gela hoard (32543).

Group III, c. 488/85–c. 480/78 BC. *Obv.* Varying legend

Obv. dies 18, *rev.* dies 59; die combinations 84.

- 154 O65** Long ethnic starting above eagle's back; eagle with slender body and long legs standing l. Die of 154–156.

- R101** Small, round crab in circular incuse; short claws.
 1. 8.70 12 Nanteuil 256.
 2. 8.61 Grabow 9.7.1930, 178; Cahn 84, 1933, 107.
 3. 8.59 10 *Syracuse (31185), Monte Bubbonia hoard.
 4. 8.45 6 London, *BMC* 23.
 5. 7.97 Weber 1187; Sotheby 27.6.1887.
 6. 7.95 Formerly Langlotz collection, Bonn.
 7. 7.92 Lanz 78, 1996, 107; do 72, 1995, 110.
 8. – Salinas 158, pl. 7.12 (Naples, Santangelo).

- 155 O65** Die of 154–156.

- R102** Similar crab with longer claws.
 1. 8.50 *NFA 9.12.1980, 42; Sambon-Canessa 27.6.1927, 651; Glendining-Seaby 1.12.1927, 563.
 2. 8.40 Kricheldorf 43, 1992, 180.

- 156 O65** Die of 154–156.

- R103** Similar crab with claws tight to the body.
 1. 8.46 5 Glasgow, *Hunter* 2.
 2. 8.42 10 *Munich, *SNG* 44.

- 157 O66** Ethnic in larger letters; somewhat larger eagle with feathery legs. Die of 157–158.

- R104** Similar crab with claws tight to the body.
 1. 9.19 Himera 1984 hoard, Mid-American Rare Coin Auctions, Inc. Capitol City sale, 15.2.1985, 557.
 2. 8.68 12 *NFA-Leu 29.3.1985, part III, 1985 (Garrett III), 118.
 3. 8.54 12 Pennisi; Hamburger 98, 1933, 133.
 4. – Gela hoard.

- 158 O66** Die of 157–158.
R105 Similar.
 1. 8.72 *Santamaria in stock 1951.
- 159 O67** Same ethnic; similar eagle of slender proportions. Die of 159–163.
R106 Small crab broad above.
 1. 8.88 5 Gela hoard; Burgan 24.5.1986, 280.
 2. 8.79 12 Formerly Schlüter collection; Blaser-Frey 18.1.1964, 1119.
 3. 8.59 Hirsch 170, 1991, 156.
 4. 8.51 7 *Syracuse (31189), Monte Bubbonia hoard.
 5. 8.42 7 London, *BMC* 24; Salinas 156, pl. 7.10 (*obv.*)
 6. 8.38 2 Private collection, Ognina hoard; Boehringer, Ognina 2.
 7. 8.16 8 Gela, Gela hoard (32235).
 8. – In trade New York 1951.
- 160 O67** Die of 159–163. Small flaw between letters on l. side.
R107 Similar crab broad above; claws very tight to the body.
 1. 8.78 1 Gela, Gela hoard (32537).
 2. 8.74 7 *Copenhagen, *SNG* 27.
 3. 8.72 1 Gela, Gela hoard (32488).
 4. 8.72 12 Naples, Fiorelli 3924.
 5. 8.68 Dresden (463).
 6. 8.65 10 Gela hoard; MMAG list 392, 1977, 6.
 7. 8.65 Athens.
 8. 8.65 G. Hirsch 16, 1958, 49; Peus 256, 1957, 15; Rosenberg 72, 1932, 157. *Rev.* Double struck.
 9. 8.22 5 Berlin (Imhoof-Blumer 1900).
 10. 8.21 4 Cambridge, *McClellan* 2026, pl. 64.15. *Rev.* Double struck.
 11. – Comiso hoard; Boehringer, Comiso 28.
- 161 O67** Die of 159–163. Same flaws as last.
R108 Similar crab but claws more apart.
 1. 8.74 *CNG MB 60, 2002, 133.
 2. 8.65 Hirsch 34, 1914, 116.
 3. 8.63 9 Gela, Gela hoard (32492).

- 162 O67** Die of 159–163. Same flaws as last.
R109 Similar.
1. 8.85 Naville 5, 1923, 809.
 2. 8.65 4 Gela, Gela hoard (32507).
 3. 8.61 10 Agrigento (no inv. no.), *SNG* 83.
 4. 8.34 *Peus 301, 1981, 144; Kastner 12, 1976, 12.
- 163 O67** Die of 159–163. Same flaws as last.
R110 Similar.
1. 8.97 11 New York (1941.153.220), *SNG ANS* 937.
 2. 8.80 Hess 6.1.1926, 95.
 3. 8.80 G. Hirsch 26.6.1956, 96.
 4. 8.75 4 *Naples Santangelo 7326; Salinas 157, pl. 7.11.
 5. 8.71 1 Comiso hoard; Boehringer, Comiso 29.
 6. 8.70 SBV 29, 1992, 27; Cahn 84, 1933, 108.
 7. 8.74 MMAG list 589, 1995, 6; Auciones 25, 1995, 64.
 8. 8.63 CNA 13, 1990, 291.
 9. 8.62 6 Gela, Gela hoard (32549)
 10. 8.59 NFA 15, 1982, 48.
 11. 8.55 Spink's *NCirc.* Nov. 1976, 8988.
 12. 8.51 Peus 323, 1988, 706; Kölner Münzkabinett 32, 1982, 47.
 13. 8.48 St. Petersburg.
 14. 8.46 12 Vienna (6289).
 15. 8.44 Bourgey 1.12.1999, 21.
 16. 8.16 Aretusa 3, 1994, 15.
 17. – Gela hoard.
 18. – In trade New York 1951.
 19. – de Nicola list Sept. 1966, 176.
- 164 O68** Same ethnic differently arranged; similar eagle of slender proportions and headlifted. Die of 164–168.
R111 Round crab with a face-like pattern on shell; large, round eyes, strongly bent legs; lowest pair of legs has thickened ends; short claws with long ends.
1. 8.93 1 Oxford (Balliol), *SNG* 1662.
 2. 8.91 12 Syracuse (31187), Monte Bubbonia hoard.
 3. 8.90 10 Berlin (Imhoof-Blumer 1900); Imhoof-Blumer, *MG*, p. 14.1 and Imhoof-Blumer, *Choix*, pl. 8.263 (*rev.*)
 4. 8.81 MMAG 89, 2000, 26; do. 75, 1989, 118.
 5. 8.81 6 Formerly private collection, Germany.
 6. 8.78 1 Gela, Gela hoard (32568).
 7. 8.72 10 Stockholm, *SNG Forbat* 94; Kress 120, 1961, 119.

8.	8.71	2	Grabow in stock; Seaby <i>Bull.</i> 466, 1957, AG 113.
9.	8.65	3	Gela, Gela hoard (32479).
10.	8.63	3	Gela, Gela hoard (32517).
11.	8.61	12	Gela, Gela hoard (32497).
12.	8.61	12	Gela, Gela hoard (32504).
13.	8.57	1	Copenhagen, <i>SNG</i> 28.
14.	8.53	1	Gela, Gela hoard (32490).
15.	8.48	7	Lockett <i>SNG</i> 703; Glendining 25.10.1955, 587; Münzhandlung Basel 4, 1935, 412.
16.	8.47	7	*London (1905.4.6.4, Seltman); Salinas 159, pl. 7.14.
17.	8.47		Formerly Moretti; <i>NAC</i> 25, 2003, 51.
18.	8.42	3	Vienna (6285); Rizzo pl. I.4 (<i>rev.</i>).
19.	8.37	12	Myers list 15.11.1971, 17; Nanteuil 257.
20.	8.16		CNG MB 60, 2002, 132.
21.	8.12	5	Argenor list Oct. 2001, 239.

165 O68 Die of 164–168.

R110 Die of 163, 165.

1.	8.72		*Peus 294, 1978, 139; Cahn 65, 1929, 62.
2.	8.71	8	Comiso hoard; Boehringer, Comiso 30.

166 O68 Die of 164–168.

R112 Similar round crab; round eyes in deep recesses; thin pincers.

1.	8.90	9	Naples Fiorelli 3923.
2.	8.90	5	Munich, <i>SNG</i> 43.
3.	8.79	7	Gela, Gela hoard (32486).
4.	8.74	11	Rome (80677).
5.	8.73		Gela, Gela hoard (32221).
6.	8.70	11	Gela, Gela hoard (32503).
7.	8.69		Gela, Gela hoard (32562).
8.	8.67		Gela, Gela hoard (32471).
9.	8.66		Kölner Münzkabinett 24, 1978, 33; do. 22, 1977, 22.
10.	8.63	1	*Syracuse (31188), Monte Bubbonia hoard.
11.	8.63		Hirsch (New York), in stock, ex. de Ciccio; Ratto 24.6.1929, 57.
12.	8.57	2	Naples Santangelo 7329.
13.	8.57	11	New York (1925.14.7, H. Miller), <i>SNG ANS</i> 930.
14.	8.43	2	Pennisi.
15.	8.25		Ahlström Mynthandel 39, 1989, 1640.
16.	–		Princeton University Art Museum (55–103 Dan Fellow Platt. collection).
17.	–		Gela hoard.
18.	–		Kricheldorf 27, 1973, 51.

- 167 O68** Die of 164–168.
R113 Crab of a more square shape; short claws tight to the body; short legs.
 Die of 167, 169.
1. 8.76 8 Gela, Gela hoard (32228).
 2. 8.76 Kölner Münzkabinett 51, 1990, 54.
 3. 8.75 2 Gela, Gela hoard (32207).
 4. 8.71 12 *Gela, Gela hoard (32574).
 5. 8.67 1 Gela, Gela hoard (32468).
 6. 8.64 1 Gela, Gela hoard (32553)
 7. 8.53 7 Pennisi.
 8. 8.14 Hirsch 167, 1990, 147.
 9. 8.00 Wruck 20, 1970, 22; Schlessinger 13, 1935, 220. *Rev.*
Slightly double struck.
 10. 7.97 MünzZentrum 56, 1985, 72
 11. – Vinchon 6.5.1971, 25.
 12. – de Nicola list March 1966, 148.
 13. – Gela hoard. *Rev.* Uncertain.
- 168 O68** Die of 164–168.
R114 Crab with big, round eyes; legs wide apart and sharply bent; r. claws close to crab's body. Die of 168, 171.
1. 8.28 Spink *NCirc* 85, Oct. 1977, 9673.
- 169 O69A** Short ethnic above eagle's back; eagle with round body and short legs.
R115 Round crab with broad upper part, round, big eyes in shallow recesses: short claws, r. claw lifted above the other.
1. – *Baranowsky stock cat. XI, 1934, 4614b.
- 170 O69** Same ethnic; smaller eagle with thin legs and short neck. Die of 170–178.
R113 Die of 167, 170.
1. 8.25 *Private collection X.
- 171 O69** Die of 170–178.
R114 Die of 168, 171.
1. 9.03 3 Gela, Gela hoard (32305).
 2. 8.89 10 Gela, Gela hoard (32189).
 3. 8.83 Palermo.
 4. 8.82 11 Comiso hoard; Boehringer, Comiso 31.
 5. 8.80 2 Private collection, Hirmer pl. 59.169; Kricheldorf 5, 1958, 30.

- | | | | |
|-----|------|----|---|
| 6. | 8.77 | 10 | Gela hoard; Poindessault-Védrines 15.11.1991, 66; Poindessault 18.6.1980, 34. |
| 7. | 8.73 | | Private collection, New York. |
| 8. | 8.72 | | Seaby <i>Bull.</i> Febr. 1976, A116; Schulman 16.12.1926, 94; Naville 6, 1923, 338. |
| 9. | 8.72 | | Schulman list 225, 1983, 111; do. list 223, 1982, 105; Leu 30, 1982, 21. |
| 10. | 8.71 | 11 | Pennisi; Salinas 150, pl. 7.4. |
| 11. | 8.68 | 7 | Zurich (ZB 872/2). |
| 12. | 8.67 | | CNG MB 23, 1992, 81; Gorny 46, 1989, 24. |
| 13. | 8.63 | | Gela, Gela hoard (32544). |
| 14. | 8.58 | 5 | Gela hoard; Triton 6, 2003, 91; Vecchi 16, 1999, 59. |
| 15. | 8.56 | 12 | *Syracuse (31195), Monte Bubbonia hoard. |
| 16. | 8.48 | | CNG MB 27, 1993, 389. |
| 17. | 8.49 | 5 | G. Hirsch 14, 1957, 548. |
| 18. | 8.45 | 10 | Baranowsky in stock 1951. |
| 19. | 8.45 | | Vecchi 6, 1997, 164. |
| 20. | 8.41 | 8 | Berlin (Rauch). |

172 O69 Die of 170–178.

R116 Crab, broad above; round eyes in deep recessions tight together; l. claw tight to crab's body; r. claw lifted; legs strongly bent.

- | | | | |
|-----|------|----|--|
| 1. | 8.92 | 11 | Gela, Gela hoard (32457). |
| 2. | 8.88 | 10 | MMAG 68, 1986, 96; Sternberg in stock 1957. |
| 3. | 8.86 | | *Comiso hoard; Boehringer, Comiso 32; Leu 72, 1998, 58; SBV 5, 1979, 58. |
| 4. | 8.85 | | Santamaria 25.10.1951, 289. |
| 5. | 8.80 | 2 | Gela, Gela hoard (32539). |
| 6. | 8.76 | | Peus 291, 1977, 136. |
| 7. | 8.72 | 7 | Syracuse (31198), Monte Bubbonia hoard. |
| 8. | 8.64 | 6 | Leu in stock 1954, ex. Hirsch (New York) and de Ciccio. |
| 9. | 8.57 | 2 | Pennisi. |
| 10. | 8.55 | | Egger 45, 1913, 232; Egger 26.11.1909, 97. |
| 11. | 8.52 | | Vinchon 23.4.1990, 570; do. 11.4.1988, 234. |
| 12. | 8.51 | | Ars Classica 16, 1933, 419. |
| 13. | 8.45 | 4 | Budapest, SNG 14. |
| 14. | 8.47 | 7 | Wruck in stock 1952. |
| 15. | 8.45 | | Vatican (14). |
| 16. | 8.34 | | St. Petersburg. |
| 17. | – | | Formerly Moretti. |
| 18. | – | | de Nicola list March 1966, 151. |

- 173 O69** Die of 170–178.
R117 Crab, broad above and with square bottom; l. claw close to body; r. claw more lifted; very small eyes.
1. 8.87 2 Gela, Gela hoard (32516).
 2. 8.60 4 Gela, Gela hoard (32460).
 3. 8.56 4 *Budapest, *SNG* 13; Egger 39, 1912, 65.
 4. 8.17 NAC-A, 1991, 1165.
- Rev.* Flaw across crab's right claw: 3.
- 174 O69** Die of 170–178.
R118 Square crab with short legs and claws; large, round eyes in shallow recesses.
1. 8.78 Private collection X; Baranowsky 4, 1931, 287.
 2. 8.77 5 Gela, Gela hoard (32531).
 3. 8.75 5 *Naples, Fiorelli 3930.
 4. 8.72 12 Gela, Gela hoard (32498).
 5. 8.58 Hess 207, 1931, 123.
 6. 8.30 Vatican (16).
 7. 8.27 1 Blackburn, Hart collection, *SNG* 136.
 8. 8.25 Auctiones 3.12.1973, 110.
- 175 O69** Die of 170–178.
R119 Square crab with broad bottom; round eyes in shallow recesses; thin legs, bent in sharp angles; two pellets at the base of shell; r. claw slightly lifted.
1. 9.00 4 Comiso hoard; Boehringer, Comiso 33.
 2. 8.93 3 Sternberg 31, 1996, 400 (ex. Pennisi); Hamburger 98, 1933, 128; Jenkins, Himeria, pl. 4.1.
 3. 8.86 12 Syracuse (31196), Monte Bubbonia hoard.
 4. 8.76 *Gela hoard; NFA 14, 1984, 31.
 5. 8.70 10 Syracuse (53415), Monteraci hoard; *AJN* 2, 1955, p. 72.4.
 6. 8.68 3 Comiso hoard; Boehringer, Comiso 34.
 7. 8.62 2 Gela, Gela hoard (32554 bis).
 8. 8.60 Schulman 232, 1959, 1288.
 9. 8.50 SBV list autumn 1976, 10
 10. 8.45 Bourgey 28.10.1974, 25.
 11. 8.40 Athens.
 12. 8.09 2 Reggio Calabria, Vito Superiore hoard, Procopio p. 4.12 (7.81).

- 176 O69** Die of 170–178.
R120 Similar crab with round eyes in deep recessions; thin legs; r. claw slightly lifted.
1. 8.66 Lanz 66, 1993, 53; do. 40, 1987, 80; *Crédit Suisse* 4, 1985, 22; *Kunst und Münzen* 24, 1984, 51; Birkler & Waddell 2, 1980, 30; *Aes rude* 5.4.1979, 73.
 2. 8.31 12 *New York (1944.100.8195), *SNG ANS* 940.
- Rev.* Flaw across l. claw: 1. Flaw across crab's shell and legs on r. side:
 2.
- 177 O69** Die of 170–178.
R121 Similar crab; thin, long legs; r. claw bent in a sharp angle.
1. 8.84 12 Gela, Gela hoard (32203). *Rev.* Uncertain.
 2. 8.72 9 *New York (1957.172.503, H. Miller), *SNG ANS* 939.
- 178 O69** Die of 170–178. Worn die.
R122 Round crab with round eyes in deep recesses, tight together; thin legs wide apart; short claws, the left one close to the body, the right one a little lifted. Die of 178–179.
1. 8.82 7 Gela, Gela hoard (32377).
 2. 8.78 1 Gela, Gela hoard (32491).
 3. 8.77 3 Gela, Gela hoard (32472).
 4. 8.74 2 *Comiso hoard; Boehringer, *Comiso* 35; Lanz 92, 1999, 137; Kricheldorf 46, 1998, 13; Sternberg 10, 1980, 17.
 5. 8.70 Ratto list 11, 1934, 983.
 6. 8.52 Bourgey 14.12.1934, 39; *Ars Classica* 16, 1933, 421.
 7. 8.44 11 Gela, Gela hoard (32494).
 8. 8.22 New York (84.65.17, J.P. Rosen).
 9. – Gela hoard.
 10. – Formerly Moretti; *NAC* 26.10.1995, 93.
- 179 O70** Same ethnic; similar, slender eagle. Die of 179–185.
R122 Die of 178–179.
1. 9.01 7 Syracuse (31199), Monte Bubbonia hoard.
 2. 8.93 8 Gela hoard.
 3. 8.80 2 *Syracuse (31206), Monte Bubbonia hoard.
 4. 8.62 Leu list *Sicilia* 1962, 4; Jameson 498.
 5. 8.53 7 Munich, *SNG* 50.
 6. 8.40 5 Syracuse (53435), Monterace hoard, *AJIN* 2, 1955, p. 73.6.
 7. 8.42 12 Gela, Gela hoard (32242).
 8. 7.51 1 Baranowsky in stock 1951.
- Obv.* Dotted flaws beginning to appear in front of eagle's body; 1, 3, 7.

- 180 O70** Die of 179–185. Same flaws on all specimens.
R123 Broad crab; bottom has two pellets; eyes in deep recesses; thin angular legs.
- | | | | |
|-----|------|----|---|
| 1. | 8.85 | 5 | Leu in stock 1960; MMAG in stock 1960; Kricheldorf 8, 1960, 38; Button 101, 1959, 27. |
| 2. | 8.78 | 11 | *Berlin (Imhoof-Blumer 1900). |
| 3. | 8.73 | | Gela hoard; SKA 5, 1986, 83. |
| 4. | 8.72 | | Glendining 10.12.1986, 60. |
| 5. | 8.69 | | MM Deutschland 8, 2001, 29. |
| 6. | 8.67 | 1 | Formerly Dewing (not in Dewing cat.); Egger 41, 1912, 96. |
| 7. | 8.62 | | Triton V, 2002, 1158. |
| 8. | 8.59 | 9 | Leu 83, 2002, 51; Triton I, 1997, 191. |
| 9. | 8.58 | | Private collection, New York; Stack's list 5.2.1964, B25 |
| 10. | 8.57 | 5 | MMAG in stock 1960. |
| 11. | 8.47 | | Spink <i>NCirc.</i> October 1975, 8522. |
| 12. | 7.50 | 1 | Agrigento (2096), <i>SNG</i> 78. Poorly preserved. |
- 181 O70** Die of 179–185. Same flaws getting larger.
R124 Similar crab; eyes in shallow recesses; thin, angular legs. Die of 181, 198.
- | | | | |
|----|------|----|---|
| 1. | 8.78 | 9 | Gela, Gela hoard (32199). |
| 2. | 8.74 | 4 | Gela, Gela hoard (32227). |
| 3. | 8.65 | | *Hannover, Kestner Museum (K 157), Grunauer 163. |
| 4. | 8.62 | 12 | Gela, Gela hoard (32545). |
| 5. | 8.02 | | Formerly Nägeli collection; Grabow in stock 1957. |
| 6. | – | | Gela hoard. |
- 182 O70** Die of 179–185. Same flaws.
R125 Broad, square crab; two pellets at bottom of shell; round eyes in shallow recesses.
- | | | | |
|----|------|----|--|
| 1. | 8.87 | 5 | Gela hoard; Sotheby 4 April 1991, 6. |
| 2. | 8.83 | 7 | *Syracuse (31209), Monte Bubbonia hoard. |
| 3. | 8.79 | 1 | Cambridge, <i>SNG</i> IV, 905. |
| 4. | 8.75 | 10 | Gela, Gela hoard (32231). |
| 5. | 8.71 | 9 | Gela, Gela hoard (32487). |
| 6. | 8.71 | 8 | Gela, Gela hoard (32455). |
| 7. | 8.66 | | Burgan 24.3.1990, 110; Vinchon 27.2.1961, 52; Ratto 4.4.1927, 329. |
| 8. | 8.62 | 7 | Gela, Gela hoard (32476). |
| 9. | 8.61 | | Peus 250, 1954, 113; Hess 236, 1939, 212; Ratto 24.6.1929, 58. |

- | | | | |
|-----|------|---|--|
| 10. | 8.53 | | Cahn 68, 1930, 1061. |
| 11. | 8.50 | 4 | Gela, Gela hoard (32191). |
| 12. | 8.06 | 2 | New York (1909.253.1, Huntington), <i>SNG ANS</i> 938. |
| 13. | 8.02 | | <i>Class. Num. Review</i> vol.18, no 4, 1993, 17. |

Note. The dotted flaws in front of eagle are not letters as suggested in *SNG* Cambridge 905–906 = 182.3 and 183.13.

183 O70 Die of 179–185. Same flaws as last.

R126 Similar crab.

- | | | | |
|-----|------|----|---|
| 1. | 9.20 | | Glendining 9.3.1931, 893; Cahn 71, 1931, 133. |
| 2. | 9.08 | | Hess 202, 1930, 2258. |
| 3. | 9.01 | 2 | Gela, Gela hoard (32219). |
| 4. | 8.89 | 12 | Gela, Gela hoard (32522). |
| 5. | 8.84 | 6 | Gela, Gela hoard (32223). |
| 6. | 8.81 | 5 | Gela, Gela hoard (32430). |
| 7. | 8.80 | 7 | Comiso hoard; Boehringer, Comiso 36. |
| 8. | 8.74 | | *NFA 9, 1980, 43. |
| 9. | 8.71 | 6 | Gela, Gela hoard (32500). |
| 10. | 8.69 | 7 | MMAG 13, 1954, 1016. |
| 11. | 8.67 | 5 | Gela hoard; Peus 372, 2002, 82; Sternberg 16.11.1985, 49. |
| 12. | 8.67 | 9 | CNG internet 20.12.1998; Leu 36, 1985, 37. |
| 13. | 8.66 | 2 | Cambridge, <i>SNG</i> IV, 906. |
| 14. | 8.65 | 6 | Gela, Gela hoard (32534). |
| 15. | 8.65 | | Monetarium list 54, 1990, 20. |
| 16. | 8.58 | 8 | Gela, Gela hoard (32508). |
| 17. | 8.54 | 10 | Syracuse (5436). |
| 18. | 7.61 | 10 | Naples, Santangelo 7334. |

184 O70 Die of 179–185. Worn die. Same flaws.

R127 Similar square crab with big, round eyes in shallow recesses. Die of 184, 186, 191.

- | | | | |
|----|------|----|---|
| 1. | 8.87 | 9 | Oxford (Evans 1941), <i>SNG</i> 1655. |
| 2. | 8.85 | 5 | Comiso hoard; Boehringer, Comiso 37; Dorotheum 3. Sonderauktion 14.10.1983, 22. |
| 3. | 8.79 | | *Stockholm, <i>SNG</i> I, Gustaf VI Adolf 22; Glendining 9.3.1931, 892; <i>Ars Classica</i> 14, 1929, 71. |
| 4. | 8.79 | 10 | Gela, Gela hoard (32446). |
| 5. | 8.70 | | Formerly private collection, Germany. |
| 6. | 8.70 | 11 | Naples, Fiorelli 3929. |
| 7. | 8.37 | 4 | Bologna. |
| 8. | 8.24 | | Elsen 35, 1994, 49. |

- | | | | | |
|------------|-------------|--|----|--|
| | 9. | 8.22 | 3 | New York (1926.999.49, Warburg), <i>SNG ANS</i> 943. |
| | 10. | 8.17 | 2 | Reggio Calabria, Vito Superiore hoard, Procopio, p. 4.13 (8.12). <i>Rev.</i> corroded. |
| | 11. | – | | Gela hoard. |
| | 12. | – | | Feuardent 19.12.1921, 36. |
| | 13. | – | | Comiso hoard; Boehringer, Comiso 38. |
| 185 | O70 | Die of 179–185. Worn die. Same flaws. | | |
| | R128 | Crab with curved sides; small eyes, tight together; claws tight together; thin, curved legs; below corn grain. Die of 185, 189, 193. | | |
| | 1. | 8.73 | | *MMAG list 542, 1991, 8; de Falco list 57, 1962, 177; do. list 43, 1958, 104. |
| | 2. | 8.41 | | Sternberg 20, 1988, 173. |
| 186 | O71 | Same ethnic; similar eagle; head slightly lifted. Die of 186–190. | | |
| | R127 | Square crab with big, round eyes; no symbol. Die of 184, 186, 191. | | |
| | 1. | 8.87 | 11 | Oxford (Bodleian), <i>SNG</i> 1657. |
| | 2. | 8.85 | 6 | *Gela, Gela hoard (32389). |
| 187 | O71 | Die of 186–190. | | |
| | R129 | Crab with short claws tight to the body. | | |
| | 1. | 9.01 | 7 | Gela, Gela hoard (32208). |
| | 2. | 9.01 | 3 | Gela hoard. <i>Rev.</i> Uncertain. Corroded. |
| | 3. | 8.96 | | Aufhäuser 6, 1989, 28; do. 3, 1986, 6; Kölner Münzkabinett 41, 1986, 36. |
| | 4. | 8.87 | 11 | Gela, Gela hoard (32552). |
| | 5. | 8.86 | 8 | Gela, Gela hoard (32220). |
| | 6. | 8.85 | | Tkalec 19.2.2001, 22; Triton 6, 2003, 90; MMAG 89, 2000, 25; do. 75, 1989, 119. |
| | 7. | 8.83 | 3 | Gela hoard; Elsen list 111, 1988, 15; Ceresio 26.9.1987, 30. |
| | 8. | 8.83 | 5 | Gela, Gela hoard (32588). |
| | 9. | 8.81 | 7 | Sternberg and Grabow in stock 1957 (ex. Nägeli collection). |
| | 10. | 8.80 | 6 | Gela, Gela hoard (32595). |
| | 11. | 8.80 | 4 | Gela, Gela hoard (32548). |
| | 12. | 8.78 | 5 | Gela hoard; Peus 334, 1992, 103; Monetarium list 60, 1993, 15. |
| | 13. | 8.78 | | Schulman 264, 1976, 5032. |
| | 14. | 8.77 | 10 | Gela, Gela hoard (32232). |
| | 15. | 8.76 | 12 | Gela, Gela hoard (32399). |
| | 16. | 8.76 | | Triton 5, 2002, 1157; Malter 42, 1989, 306. |
| | 17. | 8.75 | 6 | Gela, Gela hoard (32499). |

18.	8.74	6	Gela, Gela hoard (32584).
19.	8.74		Gela hoard; Peus 366, 2000, 26; Leu 77, 2000, 73.
20.	8.74	8	Athens.
21.	8.74		Auctiones 23, 1993, 212; formerly Langlotz collection, Bonn.
22.	8.70	12	Gela, Gela hoard (32469).
23.	8.70	4	Gela, Gela hoard (32461).
24.	8.70		Dorotheum 415, 1982, 7.
25.	8.68	1	*London, <i>BMC</i> 13; Hill, <i>Historical Greek Coins</i> , pl. 2.18.
26.	8.66	9	Gela, Gela hoard (32453).
27.	8.65	12	Sotheby Zurich 7.5.1975, 37; Schlessinger 4.2.1935, 218.
28.	8.64	7	Naples, Santangelo 7337.
29.	8.63	10	Gela, Gela hoard (32449).
30.	8.63	3	Gela, Gela hoard (32505).
31.	8.62		Athena list 20, 1995, 9.
32.	8.62		Pilartz 11, 1966, 97.
33.	8.60	5	Gela, Gela hoard (32210).
34.	8.58	11	Gela, Gela hoard (32443).
35.	8.58	6	Gela, Gela hoard (32390).
36.	8.57		Monetarium list 63, 1995, 25; do. list 62, 1994, 32.
37.	8.57		Helbing 80, 1940, 811.
38.	8.56		New York sale I, 1998, 22.
39.	8.52		Védrines MB 22.6.1982, 8.
40.	8.50		Vatican (cat. 17).
41.	8.48		Klagenfurt, <i>SNG</i> 401.
42.	8.42	5	Spink in stock 1952; Santamaria 12.10.1949, 272.
43.	8.41		Private collection, Sweden.
44.	8.37		Kricheldorf 11, 1962, 45 (= fig. 44).
45.	8.32	9	Private collection, Ognina hoard; Boehringer, Ognina 4.
46.	8.20		Kress 159, 1974, 356.
47.	–		Gela hoard.

188 O71 Die of 185–189.**R130** Similar crab; below bird standing l Die of 188, 192.

1.	9.01		Formerly Moretti; NAC 9, 1996, 129.
2.	8.92	7	Gela hoard.
3.	8.88	11	MMAG in stock 1960. Worn.
4.	8.87		Monetarium list 59, 1993, 16; CNG 24, 1992, 175; Waddell 2, 1987, 58; Spink 20, 1986, 63.
5.	8.82	3	Lockett, <i>SNG</i> 706; Glendining 25.10.1955, 590; Helbing 8.11.1928, 3500; Santamaria 27.3.1928, 85; Jenkins, <i>Gela</i> , pl. 37.11.

6.	8.81		Leu 59, 1994, 51; Sternberg 20, 1988, 174.
7.	8.80	7	Gela, Gela hoard (32555).
8.	8.80		Athens; Naville I Pozzi, 1921, 367; Hirsch 15, 1906, 913.
9.	8.80	2	Syracuse (31239), Monte Bubbonia hoard.
10.	8.80	4	Gela, Gela hoard (32512).
11.	8.80	9	Gela, Gela hoard (32222).
12.	8.79	5	Gela hoard
13.	8.77	9	MMAG in stock 1960.
14.	8.79	3	Gela, Gela hoard (32506).
15.	8.79	12	Gela, Gela hoard (32510).
16.	8.76	11	Gela, Gela hoard (32489).
17.	8.75		G. Hirsch 180, 1993, 81; do. 177, 1993, 80.
18.	8.75		Gela hoard; Burgan 19, 1989. 296.
19.	8.74	7	Gela, Gela hoard (32192).
20.	8.73		Gela hoard; Hess list April 1976, 2.
21.	8.73	12	Gela, Gela hoard (32520).
22.	8.72	7	Gela, Gela hoard (32441).
23.	8.71		Formerly private collection, Germany; Giesecke, pl. 6.1.
24.	8.71	7	Gela, Gela hoard (32238).
25.	8.71	8	Gela, Gela hoard (32473).
26.	8.68	9	Gela, Gela hoard (32470).
27.	8.69	7	Gela, Gela hoard (32420).
28.	8.68	8	Gela, Gela hoard (32538).
29.	8.67	7	Gela, Gela hoard (32524).
30.	8.64		Leu in stock 1954, ex. Hirsch (NY) and de Ciccio; Canessa 12.6.1928, 480.
31.	8.63	5	*London (1937.10.4.11, Carruthers).
32.	8.62	7	Cambridge, McClean 2031.
33.	8.62	8	Gela, Gela hoard (32579).
34.	8.60		Hess 236, 1939, 213.
35.	8.56	9	Gela, Gela hoard (32370).
36.	8.54	7	Leu 79, 2000, 325; Sotheby 21.6, 219.
37.	8.52	7	Naples, Fiorelli 3938; Salinas 147, pl. 7.1.
38.	8.50		Dorotheum (Hollschek XIII), 26.4.1961, 900; Egger 10.12.1906, 49.
39.	8.50	5	Naples, Santangelo 7342.
40.	8.36	5	Florence.
41.	8.34	1	Gela, Gela hoard (32591).
42.	8.29	1	Palermo. <i>Rev.</i> Deep cut at r. side, above.
43.	7.59	9	London, <i>BMC</i> 28. <i>Obv.</i> Illegible graffito on both sides of eagle; legend effaced. Worn.
44.	—		In commerce New York 1951.
45.	—		de Nicola list June 1966, 156; do. list June 1963, 223; do. list Dec. 1962, 177.

- 189 O71** Die of 186–190.
R128 Die of 185, 189, 193.
1. 8.91 CNG internet 28.8.1998.
 2. 8.85 Formerly Moretti; Triton I, 1997, 192.
 3. 8.84 London (1959.2.4.1, ex. Leu); Jenkins, *Gela*, pl. 37.12.
 4. 8.81 2 Gela hoard.
 5. 8.81 9 Gela, Gela hoard (32206).
 6. 8.78 7 Gela, Gela hoard (32533).
 7. 8.75 1 Gela, Gela hoard (32484).
 8. 8.73 6 Gela, Gela hoard (32525).
 9. 8.73 6 *Gela, Gela hoard (32380).
 10. 8.73 MünzZentrum 65, 1989, 63.
 11. 8.68 6 Copenhagen, *SNG* 39.
 12. 8.68 Glasgow, Hunter 5.
 13. 8.63 2 Gela, Gela hoard (32565).
 14. 8.60 Kress 120. 1961, 120.
 15. 8.56 Ars Classica 16, 1933, 423.
 16. 8.54 8 Gela, Gela hoard (32536)
 17. 8.52 1 Grabow in stock 1957 (ex. Nägeli).
 18. 8.46 2 Pennisi.
 19. 8.45 11 Munich, *SNG* 47.
 20. 8.02 Ognina hoard; Boehringer, Ognina 6.
 21. – Gela hoard.
- 190 O71** Die of 186–190.
R131 Small, triangular crab. Die of 190, 194, 205.
1. 8.76 9 *Gela, Gela hoard (32367).
- 191 O72** Same ethnic; similar, slender eagle. Die of 191–196.
R127 Die of 184, 186, 191.
1. 8.53 Rovereto, Collection Paolo Orsi, Gorini 74.
- 192 O72** Die of 191–196.
R130 Die of 188, 192.
1. 8.92 Kricheldorf 13, 1963, 34; do. 9, 1961, 161; Canessa 12.6.1928, 481.
 2. 8.80 4 Comiso hoard; Boehringer, Comiso 39.
 3. 8.76 Hess 257, 1986, 45.
 4. 8.73 *MünzZentrum 66, 1989, 89; Schulten 20.10.1988, 50; Kölner Münzkabinett 42, 1986, 11.
 5. 8.48 Naville 5, 1923, 811.
 6. 8.45 Hamburger 98, 1933, 135; Sambon-Canessa 27.6.1927, 653.
 7. 8.39 5 Pennisi.
 8. 8.07 3 Syracuse (22239, acq. 1902).

- 193 O72** Die of 191–196.
R128 Die of 185, 189, 193.
1. 9.11 11 Syracuse (31241), Monte Bubbonia hoard.
 2. 8.83 6 Gela, Gela hoard (32224).
 3. 8.80 12 *SNG* III Lockett, part II, 704; Glendining 25.10.1955, 588; Naville I Pozzi, 1921, 366.
 4. 8.79 3 Gela, Gela hoard (32590).
 5. 8.79 6 Gela hoard.
 6. 8.74 6 Gela hoard (32580).
 7. 8.71 Höfer list 10 (undated), 333.
 8. 8.62 10 Berlin (Friedländer 1861).
 9. 8.59 Kastner 8, 1975, 13.
 10. 8.53 7 New York (1941.153.222), *SNG ANS* 948.
 11. 8.51 3 *London *BMC* 26; Salinas 146, pl. 6.26 (*obv.*).
 12. 8.49 7 Gela, Gela hoard (32593).
 13. 8.38 9 Catanzaro.
 14. – Gela hoard.
- 194 O72** Die of 191–196.
R131 Die of 190, 194, 205.
1. 8.61 5 Cambridge, *McClean* 2027.
- 195 O72** Die of 191–196.
R132 Large crab, broad above; small eyes tight together.
1. 8.68 2 Gela, Gela hoard (32477).
 2. – *Hesperia Art list 1, Spring 1951, 71. Large flan.
- 196 O72** Die of 191–196.
R133 Crab with strongly curved sides; small eyes, tight together; long claws.
1. 8.92 5 Gela, Gela hoard (32239).
 2. 8.82 CNG 22, 1992, 18.
 3. 8.81 Gela hoard; Lanz 102, 2001, 64; G. Hirsch 164, 1989, 66; SKA 2, 1984, 81.
 4. 8.80 7 Gela, Gela hoard (32225).
 5. 8.80 Peus 348, 1996, 29; do. 334, 1992, 106; Lepczyk 14.3.1984, 576.
 6. 8.79 6 Gela, Gela hoard (32385).
 7. 8.77 6 Gela, Gela hoard (32575).
 8. 8.77 1 Gela, Gela hoard (32194). Corroded.
 9. 8.77 *Formerly Moretti; Schulman list 208, 1976, 13.
 10. 8.75 Kunst und Münzen 14, 1975, 322.
 11. 8.73 1 Gela, Gela hoard (32532).
 12. 8.69 1 Gela, Gela hoard (32483).

13.	8.67	11	Gela, Gela hoard (32434).
14.	8.56		Torino (1343).
15.	8.46	5	New York (1925.14.8), <i>SNG ANS</i> 942. Cuts around edge.
16.	8.30		Vecchi & Sons 10.10.1983, 61; Bourgey 17.6.1959, 100.
17.	–		Gela hoard.
18.	–		Gela hoard.
19.	–		Comiso hoard; Boehringer, Comiso 40.

197 O73 Same ethnic; similar eagle; broader, less pointed tail. Dotted flaw above letter R. Die of 197–201.

R123 Die of 180, 197.

1.	8.81	11	*Gela, Gela hoard (32403).
----	------	----	----------------------------

198 O73 Die of 197–201. Same flaw as last.

R124 Die of 181, 198.

1.	8.89	2	Comiso hoard; Boehringer, Comiso 41; Lanz 20, 1981, 51.
2.	8.84		Boston (04.424), Baldwin Brett 226; Warren 192.
3.	8.83	12	New York (1941.153.221, Beatty), <i>SNG ANS</i> 945.
4.	8.82		Vecchi 1, 1983, 21.
5.	8.81		Superior Galleries, 21.11.1983, 681; Galerie des monnaies 25.6.1976, 681.
6.	8.73	4	Comiso hoard; Boehringer, Comiso 42.
7.	8.71	1	Gela, Gela hoard (32592).
8.	8.70	8	Gela, Gela hoard (32567).
9.	8.67		Syracuse, Gagliardi (229).
10.	8.64	5	Basel, Hist. Mus.
11.	8.63	1	Gela, Gela hoard (32540).
12.	8.56	2	*London (1949.4.11.148, Mavrogordato).
13.	8.53	7	Gela hoard; MMAG list 463, 1984, 1; do. list 457, 1983, 2; Leu 33, 1983, 216; NFA 5, 1978, 27.
14.	8.51		CNG MB 60, 2002, 135.
15.	8.48	11	Myers 12, 1975, 69; formerly New York, ANS.
16.	8.46		Düsseldorf University; Heinz list 3, 1975, 4.
17.	8.44		Sambon-Canessa 27.6.1927, 655.
18.	8.44		Elsen list 62, 1983, 20; do. list 49, 1982, 11.
19.	8.42	7	Spink in stock 1952.
20.	8.36	11	Berlin (Löbbecke 1906).
21.	8.32	7	Cefalù.
22.	8.31		Aretusa 3, 1994, 16; Athena 1, 1987, 28.
23.	8.22	9	Grabow in stock 1957 (ex. Nägeli). Worn.
24.	–		Comiso hoard; Boehringer, Comiso 43.
25.	–		In trade 1951, New York.

- 199 O73** Die of 197–201. Same flaw as last.
R134 Crab with round eyes in shallow recesses: thin legs and claws; l.claw lifted.
- | | | | |
|-----|------|---|---|
| 1. | 8.99 | | Triton I, 1997, 190. |
| 2. | 8.89 | 5 | Gela, Gela hoard (32444). |
| 3. | 8.82 | 7 | Leu 7, 1973, 46. |
| 4. | 8.77 | 2 | Gela hoard. |
| 5. | 8.74 | 9 | Gela hoard. |
| 6. | 8.70 | 9 | *Harvard, Dewing 552 (acq. Catania 1930, ex. Canicatti 1929 hoard). |
| 7. | 8.70 | 9 | Gela, Gela hoard (32519). |
| 8. | 8.67 | 1 | Monetarium list 55, 1991, 12; Leu 28, 1981, 19. |
| 9. | 8.60 | | MM Deutschland 12, 2003, 15. |
| 10. | 8.58 | | Dorotheum 415, 1982, 8. |
| 11. | 8.15 | 5 | Paris (FG 59). |
| 12. | – | | Formerly Moretti. |
| 13. | – | | Gela hoard. |
- 200 O73** Die of 197–201. Same flaw as last.
R135 Similar crab; claws tight to the body; below Corinthian helmet I.
 Die of 200, 206.
- | | | | |
|-----|------|----|--|
| 1. | 8.92 | 7 | Oxford (Oman, 1947), <i>SNG</i> 1666. |
| 2. | 8.87 | 3 | Comiso hoard; Boehringer, Comiso 44. |
| 3. | 8.85 | 7 | Syracuse (31235), Monte Bubbonia hoard, <i>AHIN</i> suppl. 12–14, 1969, pl. 4.4. |
| 4. | 8.84 | 6 | New York (1955.54.52), <i>SNG ANS</i> 946 |
| 5. | 8.82 | 8 | Syracuse (31237), Monte Bubbonia hoard. |
| 6. | 8.81 | 2 | Syracuse (31238), Monte Bubbonia hoard. |
| 7. | 8.80 | 7 | Budapest, <i>SNG</i> 12. |
| 8. | 8.79 | 10 | Gela, Gela hoard (32442). |
| 9. | 8.79 | 6 | Syracuse (41858), Lentini hoard. |
| 10. | 8.78 | 4 | *Syracuse (31236), Monte Bubbonia hoard. |
| 11. | 8.77 | 7 | Gela, Gela hoard (32439). |
| 12. | 8.77 | 10 | Cambridge, <i>SNG</i> IV 907. |
| 13. | 8.75 | | Private collection X. |
| 14. | 8.74 | | Triton III, 1999, 149. |
| 15. | 8.74 | 5 | Gela, Gela hoard (32438). |
| 16. | 8.73 | 11 | Gela, Gela hoard (32464). |
| 17. | 8.68 | 9 | Berlin (Friedländer 1861). |
| 18. | 8.60 | 1 | Formerly Benson collection, N.Y. |
| 19. | 8.57 | | Coin Galleries 12.2.1992, 139. |

20.	8.55	9	Copenhagen, <i>SNG</i> 38.
21.	8.54		Auctiones 25, 1995, 67.
22.	8.50		Schlessinger 26.2.1934, 36
23.	8.50	3	London, <i>BMC</i> 31.
24.	8.44		Cambridge, Corpus Christi College, Lewis collection, <i>SNG</i> 288.
25.	8.40		Kress 149, 1969, 66.
26.	8.37		Vinchon 25.2.1980, 8.
27.	7.17	7	Syracuse (47415), Passo di Piazza hoard. Much worn.
28.	–		In trade New York 1951.

201	O73	Die of 197–201. Same flaw as last.	
	R136	Similar crab; claws wide apart; below Corinthian helmet I. Die of 201–202	
1.	8.80	2	Sambon-Canessa 27.6.1927, 654.
2.	8.80		Leu list <i>Sicilia</i> 1962, 5.
3.	8.77	2	Cambridge, <i>McClellan</i> 2029.
4.	8.76	5	Gela, Gela hoard (32378).
5.	8.75	2	Leu in stock 1954, ex. Hirsch (NY) and de Ciccio.
6.	8.74		*Private collection X.
7.	8.74	2	Formerly Proschowsky collection, Copenhagen.
8.	8.73	7	Oxford (Christ Church), <i>SNG</i> 1665.
9.	8.73	9	Gela, Gela hoard (32437).
10.	8.70	7	Coburg.
11.	8.68	1	Gela, Gela hoard (32526).
12.	8.68		Helbing 8.11.1928, 3502.
13.	8.66	1	Platt in stock 1953.
14.	8.56	3	Enna.
15.	8.55		MM Deutschland 5, 1999, 31.
16.	8.55		New York (84.65.22, Rosen).
17.	8.51	5	de Falco in stock 1951.
18.	8.46	1	Brussels, Du Chastel 23.
19.	8.43	11	Berlin (Fox 1873).
20.	8.40	12	Naples, Fiorelli 3937.
21.	8.36	2	Cefalù.
22.	8.32	2	Munich, <i>SNG</i> 46.
23.	8.31		G. Hirsch 60, 1968, 53.
24.	8.27		Kricheldorf 28.5.1956, 939. <i>Obv.</i> damaged.
25.	7.98	12	Naples, Santangelo 7343.
26.	–		Lepezyk 55, 1983, 6.
27.	–		Formerly Moretti. <i>Obv.</i> Dark spots.

- 202 O74** Same ethnic; similar eagle with long legs and thick, long beak. Die of 202–204.
- R136** Die of 201–202.
1. 8.93 11 Gela, Gela hoard (32209). Corroded.
 2. 8.80 G. Hirsch 17, 1958, 5.
 3. 8.75 Sambon 19.12.1907, 80.
 4. 8.73 *Glasgow, *Hunter* 6.
 5. 8.73 G. Hirsch 229, 2003, 1564.
 6. 8.60 Athens.
- 203 O74** Die of 202–204.
- R137** Similar triangular crab; below Corinthian helmet I. Die of 203, 213.
1. 8.80 10 Syracuse, Casulla hoard.
 2. 8.76 2 London, *SNG Lloyd* 798; Canessa 22.5.1922, 171.
 3. 8.72 12 Oxford, *SNG* 1664; Kraay, *ACGC*, pl. 46.791.
 4. 8.69 Hess-Leu 28, 1965, 50.
 5. 8.68 7 *New York, *ANS SNG* 947; Hirsch 8, 1903, 565.
 6. 8.64 *NAC 10, 1997, 91, ex. Moretti. Enl. (*rev.*)
 7. 8.63 10 Hess 207, 1931, 122; Egger 26.11.1909, 102.
 8. 8.60 Schlessinger 26.2.1934, 35.
 9. 8.60 Jameson 499.
 10. 8.53 Boston, Baldwin Brett 228; Warren 194.
 11. 8.50 11 Winterthur (1952, J. Jenke), Bloesch 573.
 12. 8.47 10 Pennisi.
 13. 8.45 7 Peus 301, 1981, 145; Lockett, *SNG* 705; Glendining 25.10.1955, 589; Naville I Pozzi 1921, 369; Jenkins, *Gela*, pl. 37.13.
 14. 8.43 10 Berlin (Löbbecke 1906).
 15. 8.37 10 Grabow in stock 1957 (ex. Nägeli); Münzhandlung Basel 4, 1935, 413.
 16. 8.35 11 Naples, Fiorelli 3935.
 17. 8.34 Monetarium list Dec.1993, 20; Kricheldorf 21, 2970, 24; Schulman 248, 1968, 31; G. Hirsch 26, 1961, 1744.
 18. 8.29 Triton 5, 2002, 1156.
 19. 8.17 2 Munich. *SNG* 45.
 20. 7.89 2 Syracuse (17625, acq. 1897).
 21. – Formerly Moretti.
 22. – In trade New York 1951.

- 204 O74** Die of 202–204.
R138 Similar crab; r. claw lifted. Die of 204, 211, 214.
1. 8.84 New York (97–055, Leggett).
 2. 8.83 2 Paris (FG 55); Salinas 154, pl. 7.8.
 3. 8.80 7 Gela, Gela hoard (32481).
 4. 8.76 Hirsch 16, 1906, 204.
 5. 8.75 Gadoury 13.10.1980, 52.
 6. 8.66 1 Gela, Gela hoard (32550).
 7. 8.65 4 Syracuse (31197), Monte Bubbonia hoard.
 8. 8.64 *Dresden (462).
 9. 8.61 9 Gela, Gela hoard (32501).
 10. 8.60 Kress 127, 1963, 313.
 11. 8.45 Oslo Mynthandel 42, 1998, 903.
 12. – Gela hoard.
- 205 O75** Same ethnic; small letters; similar eagle with head lifted. Die of 205–212.
R131 Die of 190, 194, 205.
1. 8.96 4 Gela, Gela hoard (32459).
 2. 8.78 1 Gela, Gela hoard (32566).
 3. 8.77 12 Oxford (Bodleian), *SNG* 1658.
 4. 8.75 Spink 25, 1982, 29; Spink-Galerie des Monnaies 10.10.1975, 65.
 5. 8.70 Santamaria 25.10.1951, 290.
 6. 8.69 12 Gela, Gela hoard (32226).
 7. 8.68 1 *Stockholm, *SNG* I Gustaf VI Adolf, 21; Schwabacher, *Samling GA* 21; Riechmann 30, 1924, 203.
 8. 8.66 4 Gela, Gela hoard (32541).
 9. 8.62 Ars Classica 16, 1933, 420; Cahn 84, 1933, 110.
 10. 8.61 9 Syracuse (31203), Monte Bubbonia hoard; Stazio, *Sikanie*, fig. 66.
 11. 8.60 9 Vienna (6288).
 12. 8.55 2 Berlin (Imhoof-Blumer 1900). Edge damaged.
 13. 8.53 10 Gela, Gela hoard (32448).
 14. 8.46 Vecchi & Son 10.10.1983, 60.
 15. 8.25 7 New York, (1925.14.9, H. Miller) *SNG ANS* 944.
 16. 7.62 *Monte Iato (M. 2787).
 17. – Gela hoard. *Rev.* uncertain.

- 206 O75** Die of 205–212.
R135 Die of 200, 206.
1. 9.06 1 Gela, Gela hoard (32214). *Rev.* Uncertain attribution.
 2. 8.81 12 Gela, Gela hoard (32511).
 3. 8.78 5 Paris (FG 54), Babelon, *Traité*, pl. 78.13; Salinas 148, pl. 7.2
 4. 8.66 9 Gela, Gela hoard (32529).
 5. 8.66 1 Gela, Gela hoard (32495).
 6. 8.60 1 *Stockholm (*Smith* 25), *SNG* 370; Riechmann list 1, May 1921, 146.
 7. 8.55 Palermo; Salinas 148 (not ill.).
 8. 8.49 7 Syracuse (17710, 1897).
 9. 8.30 1 Naples Fiorelli 3936.
- 207 O75** Die of 205–212.
R140 Similar crab, broad above; drop-shaped eyes Die of 207, 215.
1. 8.82 SBV 33, 1993, 88.
 2. 8.57 8 *Gela, Gela hoard (32450). Corroded.
- 208 O75** Die of 205–212.
R141 Broad crab with curved sides; long pincers; eyes wide apart in shallow recesses; below CAΣ retrograde. Die of 208, 216.
1. 8.82 5 Gela hoard.
 2. 8.75 5 Gela, Gela hoard (32589).
 3. 8.70 *Private collection X.
 4. 8.68 6 Gela, Gela hoard (32215). Corroded.
 5. 8.60 2 Gela, Gela hoard (32480).
 6. 8.26 5 Private collection, Ognina hoard; Boehringer, Ognina 5.
- 209 O75** Die of 205–212.
R142 Similar crab, broad above; eyes wide apart in dotted recesses; r.claw lifted. Die of 209, 218.
1. 8.83 12 Gela, Gela hoard (32211).
 2. 8.76 1 Gela hoard; Kurpfälz. Münzhandlung 25, 1983, 53.
 3. 8.75 Sambon-Canessa 27.6.1927, 657; Canessa 22.5.1922, 172.
 4. 8.72 6 *Gela, Gela hoard (32368).
 5. 8.70 10 Gela, Gela hoard (32571).
 6. 8.68 9 Gela, Gela hoard (32515).

- 210 O75** Die of 205–212.
R143 Smaller crab with thin pincers. Die of 210, 217.
 1. 8.61 12 *Gela, Gela hoard (32530).
 2. 8.54 Agrigento, *SNG* 81, S. Catarina Villarmosa hoard.
- 211 O75** Die of 205–212.
R138 Die of 204, 211, 214.
 1. 8.83 2 *Syracuse, Casulla hoard.
 2. 8.70 5 Ratto in stock 1957.
 3. 8.65 Gaettens in stock 1953.
- 212 O75** Die of 205–212. Worn die; second A in ethnic almost obliterated.
R144 Similar crab with drop-shaped eyes wide apart in shallow recesses.
 1. 8.92 Auctiones 12, 1981, 34.
 2. 8.86 3 Gela, Gela hoard (32523).
 3. 8.85 6 Gela, Gela hoard (32440).
 4. 8.84 Monetarium list 57, 1992, 12.
 5. 8.80 2 Gela, Gela hoard (32554).
 6. (8.80) Gela hoard.
 7. 8.79 12 Syracuse (31205), Monte Bubbonia hoard.
 8. 8.78 8 Gela, Gela hoard (32577).
 9. 8.77 2 Copenhagen, *SNG* 26.
 10. 8.77 1 Gela, Gela hoard (32197).
 11. 8.77 9 Gela hoard; Leu 91, 2004, 61; Tkalec & Rauch 16.11.1987, 39.
 12. 8.76 7 Gela, Gela hoard (32518).
 13. 8.73 9 Gela, Gela hoard (32528).
 14. 8.74 5 Gela, Gela hoard (32527).
 15. 8.72 1 Gela, Gela hoard (32564).
 16. 8.70 2 Gela, Gela hoard (32218).
 17. 8.65 9 Gela, Gela hoard (32321).
 18. 8.63 5 SKA 7, 1987, 90; Beckenbauer 2, 1962, 16; MMAG in stock 1960.
 19. 8.63 Gela, Gela hoard (32474).
 20. 8.50 Vatican (15).
 21. 8.49 5 UBS 49, 2000, 27; Kress 109, 1958, 30.
 22. 8.46 Palermo.
 23. 8.45 7 *Syracuse (5434).
 24. 8.42 11 Cambridge, *SNG* vol. IV, 904.
 25. – Gela hoard.
 26. – Gela hoard.

- 213 O76** Same ethnic; larger, thin letters; similar eagle with long, pointed wing; tail visible below wing. Die of 213–218.
- R137** Die of 203, 213.
1. 8.14 5 Berlin (Sperling). Small cut on *rev*.
 2. 7.80 2 *Stockholm, *SNG* Forbat 95.
 3. – Egger 7.1.1908, 23.
- 214 O76** Die of 213–218.
- R138** Die of 204, 211, 214.
1. 8.89 5 New York (1957.172.504, H. Miller), *SNG* 941.
 2. 8.80 9 Vienna (6291).
 3. 8.78 12 Formerly Moretti.
 4. 8.76 5 Munich *SNG* 48.
 5. 8.62 9 *Syracuse (31207). Monte Bubbonia hoard.
 6. 8.50 4 Tübingen, *SNG* 556.
 7. 8.44 G. Hirsch 97, 1976, 27.
 8. 8.36 G. Hirsch 170, 1991, 157.
 9. – Gela hoard.
- 215 O76** Die of 213–218.
- R140** Die of 207, 215.
1. 8.93 2 Gela hoard.
 2. 8.85 NFA, MB 27.6.1986, 84.
 3. 8.81 12 Gela, Gela hoard (32335).
 4. 8.80 Comiso hoard; Boehringer, Comiso 45; LHS 102, 2008, 55; Triton VIII, 2005, 54; New York Sale III, 2000, 84; Höfer list 12 (no year), 9.
 5. 8.78 10 Hamburg, Kunsthalle (1915/49), Postel no. 30, pl. 3; Hirsch 32, 1912, 22; Scheffer, *Kultur*, fig. 127b.
 6. 8.80 3 Gela hoard.
 7. 8.78 2 Syracuse, Casulla hoard.
 8. 8.76 5 Gela hoard.
 9. 8.71 Comiso hoard; Boehringer, Comiso 46; SBV 6, 1980, 24.
 10. 8.66 9 Gela, Gela hoard (32458).
 11. 8.65 6 Gela, Gela hoard (32202).
 12. 8.63 2 Cambridge, *SNG* IV, 903.
 13. 8.58 7 Cambridge, *SNG* IV, 902.
 14. 8.52 12 Oxford (Keble College), *SNG* 1660.
 15. 8.50 11 Formerly Benson collection, N.Y.
 16. 8.46 *Class. Num. Review* vol. 19 no. 2, 1994, 40.
 17. 8.30 *Private Collection, South Germany; Kricheldorf list 46, 1960, 48.

	18.	8.22		Pilartz 31, 1967, 2; do. 28, 1967, 66.
	19.	–		Comiso hoard; Boehringer, Comiso 47; Toderi list 1, 1971, 114.
	20.	–		Gela hoard.
216	O76		Die of 213–218.	
	R141		Die of 208, 216.	
	1.	8.90		Glasgow, <i>Hunter</i> 3; Rutter, <i>Italy and Sicily</i> , fig. 112.
	2.	8.89		Nomos 1, 2009, 16; NAC 23, 2002, 1076; formerly Moretti.
	3.	8.76	11	Comiso hoard; Boehringer, Comiso 48; NAC 9, 1996, 130.
	4.	8.74	7	Gela, Gela hoard (32201).
	5.	8.73	9	Berlin (Imhoof-Blumer 1900).
	6.	8.72		Egger 26.11.1909, 104.
	7.	8.72	1	Gela, Gela hoard (32496).
	8.	8.70		Schulman 16.12.1926, 99.Naville 6, 1924, 340; Jenkins, <i>Gela</i> , pl. 37.10.
	9.	8.70		*Private collection X.
	10.	8.69	3	Oxford (1979), <i>Annual Report</i> 1978/79, pl. 7.2.
	11.	8.69		Kress 91, 1951, 17.
	12.	8.69	1	Gela, Gela hoard (32559).
	13.	8.65		Princeton University Art Museum 55–105; Glending-Seaby 15.7.1929, 179; Sambon-Canessa 27.6.1927, 658.
	14.	8.63		Ciani-Vinchon 6.2.1956, 172.
	15.	8.62		Lanz 18, 1980, 27.
	16.	8.62		Védrines 30.3.1989, 8.
	17.	8.60		Peus 368, 2001. 30; do. 334, 1992, 104; G. Hirsch 94, 1975, 37.
	18.	8.59		Peus 296, 1978, 39.
	19.	8.58		MMAG list 288, 1968, 1.
	20.	8.58	6	Copenhagen, <i>SNG</i> 34 (ex. Proschowsky 1940).
	21.	8.55	7	Pennisi.
	22.	8.54		NAC-H, 1998, 1132.
	23.	8.36	5	Syracuse (53418), Monteraci hoard; <i>AJN</i> 2, 1955, p. 73, no. 7, pl. 6.2.
	24.	8.32		G. Hirsch 53, 1967, 3040.
	25.	8.19	12	Paris, <i>SNG Delepierre</i> 522.
	26.	8.05	1	New York (1944.100.8197), <i>SNG ANS</i> 949.
	27.	–		Gela hoard.

- 217 O76** Die of 213–218.
R143 Die of 210, 217.
1. 8.84 9 Comiso hoard; Boehringer, Comiso 49; in commerce 1972.
 2. 8.81 3 Gela, Gela hoard (32546).
 3. 8.80 3 Gela, Gela hoard (32456).
 4. 8.78 5 Spink's *NCirc.* 3, 1978, 3163; Glendining 13, 1976, 9; Myers 6, 1973, 45.
 5. 8.77 9 Comiso hoard; Boehringer, Comiso 50; Hess 247, 1978, 38.
 6. 8.76 Vinchon 26.4.1999, 43; MMAG 52, 1975, 63.
 7. 8.72 *Private collection X.
 8. 8.62 Grabow in stock 1957 (ex. Nägeli).
 9. 8.46 12 Monte Iato (M514), cat. 28.
 10. 8.45 5 Cambridge, General collection (CM 41–1947).
 11. 8.41 Védrines 21.12.1982, 15.
 12. 8.36 SBV list autumn 1976, 11.
 13. 7.75 G. Hirsch 14, 1957, 547.
 14. 6.56 Müller 41, 1983, 8.
 15. – Gela hoard.
- Obv.* Flaw below eagle's feet: 9, 15.
Rev. Thin crack below crab's legs, r. side: 1, 4, 5, 6, 9, 13, 14.
- 218 O76** Die of 213–218.
R142 Die of 209, 218.
1. 8.78 10 Gela, Gela hoard (32485).
 2. 8.77 8 Gela, Gela hoard (32230).
 3. 8.72 6 *Comiso hoard; Boehringer, Comiso 51; Peus 332, 1991, 44; Spink 20, 1986, 62 (8.68); in commerce 1972.
 4. 8.72 Santamaria 12.10.1949, 271.
 5. 8.71 12 Gela hoard (32521).
 6. 8.61 9 Gela hoard (32447).
 7. 8.44 Spink in stock 1952.
 8. 8.32 Lanz 72, 1995, 111.
 9. 7.95 5 Grabow in stock 1957 (ex. Nägeli).
- Obv.* Flaw larger. 3, 5.
- 219 O77** Similar. Die of 219–222.
R145 Crab with short claws.
1. 8.87 Künker 136, 2008, 453; Auctiones 20, 1990, 1256; MMAG 75, 1989, 120.
 2. 8.82 11 Gela, Gela hoard (32578).
 3. 8.77 3 Syracuse (31192), Monte Bubbonia hoard.

- | | | | |
|-----|------|----|--|
| 4. | 8.69 | | Waddell list Oct./Nov. 1981, 12. |
| 5. | 8.69 | | Bourgey 13.6.1986, 12. |
| 6. | 8.68 | 2 | Berlin. |
| 7. | 8.67 | 6 | Gela, Gela hoard (32452). |
| 8. | 8.58 | 12 | *London, <i>BMC</i> 22; Jenkins, <i>Gela</i> , pl. 37.9. |
| 9. | 8.46 | 7 | Bologna. |
| 10. | 8.43 | 11 | Formerly private collection, Sicily. |
| 11. | 8.39 | | Cambridge, Gow collection. |

220 O77 Die of 219–222.**R146** Crab very broad above and narrow lower part; eyes wide apart in shallow recesses; short claws tight to the body.

- | | | | |
|-----|------|----|--|
| 1. | 9.07 | 6 | Gela, Gela hoard (32217). |
| 2. | 8.93 | | *Private collection X; Ratto stock cat. XI, 1934, 1000; do. 24.6.1929, 63. |
| 3. | 8.88 | 8 | Gela, Gela hoard (32560). |
| 4. | 8.88 | 10 | Gela, Gela hoard (32190). |
| 5. | 8.87 | 1 | Gela, Gela hoard (32463). |
| 6. | 8.86 | 8 | Gela, Gela hoard (32188). |
| 7. | 8.85 | 7 | Gela, Gela hoard (32193). |
| 8. | 8.85 | | Beckenbauer list 3, 1972, 5; do. list 1, 1972, 4. |
| 9. | 8.83 | 9 | Gela, Gela hoard (32493). |
| 10. | 8.83 | 3 | Gela, Gela hoard (32558). |
| 11. | 8.82 | 2 | Gela, Gela hoard (32462). |
| 12. | 8.81 | 6 | Gela, Gela hoard (32475). |
| 13. | 8.81 | 1 | Gela, Gela hoard (32451). |
| 14. | 8.81 | 3 | Gela, Gela hoard (32509). |
| 15. | 8.80 | 1 | Gela, Gela hoard (32594). |
| 16. | 8.79 | 1 | Gela, Gela hoard (32576). |
| 17. | 8.79 | 7 | Gela, Gela hoard (32198). |
| 18. | 8.79 | 6 | Gela, Gela hoard (32570). |
| 19. | 8.78 | | Pennisi. |
| 20. | 8.78 | 2 | Gela, Gela hoard (32243). |
| 21. | 8.77 | 1 | Gela, Gela hoard (32502). |
| 22. | 8.76 | 9 | Gela, Gela hoard (32561). |
| 23. | 8.74 | 6 | Gela, Gela hoard (32557). |
| 24. | 8.71 | | Gela hoard. |
| 25. | 8.71 | 1 | Gela, Gela hoard (32586). |
| 26. | 8.70 | 1 | Gela, Gela hoard (32196). |
| 27. | 8.69 | 11 | Gela, Gela hoard (32514). |
| 28. | 8.66 | 1 | Gela, Gela hoard (32204). |
| 29. | 8.66 | | Comiso hoard; Boehringer, Comiso 52. |
| 30. | 8.65 | 4 | Gela, Gela hoard (32572). |
| 31. | 8.65 | 6 | Gela, Gela hoard (32587). |

- | | | | | | |
|------------|-------------|--|------|----|--|
| | | 32. | 8.65 | 7 | Gela, Gela hoard (32556). |
| | | 33. | 8.64 | 8 | Gela, Gela hoard (32563). |
| | | 34. | 8.63 | 1 | Gela, Gela hoard (32597). |
| | | 35. | 8.59 | | Auctiones 25, 1995, 63. |
| | | 36. | 8.58 | 10 | Gela, Gela hoard (32427). |
| | | 37. | 8.58 | 10 | Gela, Gela hoard (32596). |
| | | 38. | 8.57 | 2 | Gela, Gela hoard (32233). |
| | | 39. | 8.56 | 7 | Syracuse (4935). |
| | | 40. | 8.44 | 7 | New York (1941.153.218), <i>SNG ANS</i> 933. |
| | | 41. | 8.35 | 4 | Copenhagen, <i>SNG suppl.</i> 61. |
| | | 42. | – | | Gela hoard. |
| | | 43. | – | | Glendining 27.11.1958, 244. |
| | | 44. | – | | G. Hirsch 31, 1962, 42. |
| | | 45. | – | | Utrecht, formerly Amsterdam Akademie. |
| 221 | O77 | Die of 219–222. | | | |
| | R147 | Similar. | | | |
| | | 1. | 8.71 | 12 | *Gela, Gela hoard (32237). |
| | | 2. | 8.64 | 6 | Gela, Gela hoard (32424). |
| | | 3. | 8.49 | | Dresden (466). |
| 222 | O77 | Die of 219–222. | | | |
| | R148 | Broad crab with curved sides. Die of 222–223. | | | |
| | | 1. | 8.50 | | *Vatican (18). |
| | | 2. | 8.41 | | Lanz 40, 1987, 79. |
| 223 | O78 | Small and slender eagle standing l. Die of 223–226. | | | |
| | R148 | Die of 222–223. | | | |
| | | 1. | 9.30 | | MMAG list 410, 1979, 1; Auctiones 7, 1977, 69. |
| | | 2. | 8.87 | 8 | Comiso hoard; Boehringer, Comiso 53; NAC 25, 2003, 50; formerly Moretti. |
| | | 3. | 8.85 | 10 | *London (1947.4.6.129, Oman). |
| | | 4. | 8.72 | 1 | Syracuse (31186), Monte Bubbonia hoard. |
| | | 5. | 8.58 | 7 | Syracuse, Casulla hoard. |
| | | 6. | 8.54 | | New York (1984.32.14, Mark Salton). |
| | | 7. | 8.09 | | Kurpfälz. Münzhandlung 40, 1991, 25. |
| 224 | O78 | Die of 223–226. | | | |
| | R149 | Crab is very broad above: eyes wide apart in shallow recesses; short claws close to the body; below Corinthian helmet r. | | | |
| | | 1. | 8.87 | 9 | Pennisi; Hamburger 98, 1933, 136. |
| | | 2. | 8.84 | 12 | Comiso hoard; Boehringer, Comiso 54. |
| | | 3. | 8.73 | 7 | Syracuse (29354, acq. 1908). |

- | | | | |
|-----|------|----|--|
| 4. | 8.72 | 10 | Cambridge, McClean 2030. |
| 5. | 8.71 | | Kress 94, 1953, 30; Naville I Pozzi, 1920, 370; Miller, pl. 6.66; Jenkins, <i>Gela</i> , pl. 37.14. |
| 6. | 8.71 | | Hirsch 49, 1966, 527. |
| 7. | 8.69 | 1 | Baranowsky in stock 1951. |
| 8. | 8.68 | 5 | London (1904, Howroth). |
| 9. | 8.65 | 11 | *Glendining 18.4.1955, 156; Schulman 31.5.1938, 71. |
| 10. | 8.63 | | G. Hirsch 191, 1996, 131; do. 188, 1995, 53; Auctiones 25, 1995, 68. |
| 11. | 8.59 | 2 | Cefalù. |
| 12. | 8.56 | | CNG MB 60, 2002, 134. |
| 13. | 8.43 | | Hamburger 98, 1933, 137. |
| 14. | 8.42 | | Private collection X. |
| 15. | 8.35 | 8 | Formerly Pennisi; Kunst und Münzen list 62, 1988, 51; do. list 50, 1982, 40; Salinas 149, pl. 7.3 (<i>rev.</i>). |
| 16. | 8.27 | | Münz Zentrum 72, 1991, 160. |
| 17. | 8.06 | | Palermo (H70.289), Himera exc., <i>Himera II</i> , no. 256, pl. 118.2. |
| 18. | – | | Comiso hoard; Boehringer, Comiso 55. |
| 19. | – | | In trade New York 1951. |
| 20. | – | | Selin Mynthandel in stock 1999. |

225 O78 Die of 223–226. Worn die; letters partly distorted.

R150 Similar crab with long legs and long pincers.

- | | | | |
|----|------|---|---|
| 1. | 8.91 | 2 | Syracuse (31190) Monte Bubbonia hoard. |
| 2. | 8.86 | | Védrines 27.3.1990, 11. |
| 3. | 8.78 | 4 | New York (1941.153.219), <i>SNG ANS</i> 936. |
| 4. | 8.71 | 1 | Comiso hoard; Boehringer, Comiso 56; Knopek 7.4.1978, 32. |
| 5. | 8.67 | 3 | *Syracuse (31191), Monte Bubbonia hoard. |

226 O78 Die of 223–226. As last.

R151 Similar.

- | | | | |
|----|------|---|---|
| 1. | 8.57 | 7 | *Paris (FG 53); Salinas 155, pl. 7.9. <i>Rev.</i> Thin crack above at crab's claw, r. side. |
|----|------|---|---|

227 O79 Eagle of slender proportions and long legs standing r. Large die break at r.border. Die of 227–230.

R152 Broad crab with thin legs and short claws; eyes wide apart in deep recesses.

- | | | | |
|----|------|---|---|
| 1. | 8.66 | 4 | *Comiso hoard; Boehringer, Comiso 57; Nomisma/Banque populaire du Nord, March 1985, 12. |
| 2. | 8.55 | | Formerly private collection, Germany. |

- 228 O79** Die of 227–230. Same flaw as last.
R153 Similar broad crab with longer claws.
1. 8.86 Peus 277, 1971, 22.
 2. 8.83 Ratto stock cat. XI, 1934, 1001; do. 24.6.1929, 62.
 3. 8.74 2 *Comiso hoard; Boehringer, Comiso 58.
 4. 8.69 6 Syracuse, Casulla hoard.
 5. 8.60 Kress 182, 1982, 681.
 6. 8.55 3 New York (1967.147.21), *SNG ANS* 932.
 7. 8.53 MMAG in stock 1954.
 8. 8.51 Milano, Arslan 24.
 9. 8.37 Aarhus University, *SNG Fabricius* 180. *Obv.* Die break not visible.
 10. 8.35 6 Formerly Pennisi; Lanz 24, 1983, 47; Salinas 151, pl. 7.5 (*obv.*).
 11. 8.19 7 Syracuse (13963, acq. 1894). *Obv.* Cut at l. border.
 12. – Egger 41, 1912, 97.
 13. – Peus 264, 1963, 2681.
 14. – G. Hirsch 162, 1989, 57.
 15. NFA, MB 10, 20.10.1978, 143.
- 229 O79** Die of 227–230. As last.
R154 Similar crab, broad above; eyes wide apart in shallow recesses; long legs and pincers.
1. 8.70 7 *Syracuse, Casulla hoard.
 2. 8.33 5 Pennisi.
 3. 8.28 Comiso hoard; Boehringer, Comiso 59; CNG 26, 1993, 204; Sotheby 5.10.1990, 13.
 4. 8.15 New York (1987.25.11, J. and D. Francis).
 5. – Princeton University Art Museum, Dan Fellows Platt collection; Glendining-Seaby 15.7.1929, 180.
- 230 O79** Die of 227–230. Die break still larger.
R155 Similar broad crab with strongly curved sides; long, thin pincers. Die of 230–231.
1. 8.72 3 *Lockett *SNG* 698; Glendining 25.10.1955, 582.
 2. 8.22 Lanz 36, 1986, 55.
- 231 O80** Eagle standing l. Die of 231–233.
R155 Die of 230–231.
1. 8.52 9 Berlin (124/1961).
 2. 8.52 Riechmann 30, 1924, 202.
 3. 8.50 11 *New York (1944.100.8194), *SNG ANS* 935.

- | | | | | |
|------------|-------------|---|----|---|
| | 4. | 8.47 | | Formerly Hammerich collection. |
| | 5. | 8.41 | | Spink's <i>NCirc.</i> January 1977, 5. |
| | 6. | 7.70 | 12 | Naples Santangelo 7341. |
| 232 | O80 | Die of 231–233. | | |
| | R156 | Similar broad crab. | | |
| | 1. | – | | *Schulman 31.5.1938, 68. |
| 233 | O80 | Die of 231–233. | | |
| | R157 | Similar broad crab with long claws. | | |
| | 1. | 8.59 | | Himera hoard, Mid-American Rare Coin Auctions, 15.2.1985, 556. |
| | 2. | 8.56 | 3 | *Comiso hoard; Boehringer, Comiso 60. |
| | 3. | 8.44 | | Grabow in stock 1958. <i>Obv.</i> Eagle's tail and legs off flan. |
| | 4. | 8.35 | | Baranowsky stock cat. 1934, 4614a; Sambon-Canessa 27.6.1927, 656. |
| | 5. | – | | Kurpfälz. Münzhandlung 32, 1987, 49; do. 33, 1987, 30. |
| 234 | O81 | Eagle with long legs and square, large head standing l. Die is flattened out above and across eagle's beak. | | |
| | R158 | Similar broad crab with outstretched, parallel legs. Die of 234–235. | | |
| | 1. | 8.76 | 12 | Syracuse (31204), Monte Bubbonia hoard. |
| | 2. | 8.71 | 6 | Syracuse (31208), Monte Bubbonia hoard. |
| | 3. | 8.69 | 3 | New York (1944.100.8193), <i>SNG ANS</i> 934. |
| | 4. | 8.59 | 2 | *Formerly Moretti; de Falco in stock 1951. Enl. Pl. 20. |
| | 5. | 8.56 | 10 | Munich, <i>SNG</i> 49. |
| | 6. | 8.50 | 2 | Utrecht. |
| | 7. | 8.30 | 8 | Stockholm (101 540); Bruun Rasmussen 498, 1987, 3015. |
| | 8. | 8.28 | 6 | Paris (FG 47); Salinas 153, pl. 7.7. Oval flan; broad flat areas on both sides. |
| | | | | <i>Obv.</i> Flaw in front of eagle: 2, 4, 7. |
| 235 | O82 | Eagle of larger proportions standing l. with lifted head. Die of 235–237. | | |
| | R158 | Die of 234–235. | | |
| | 1. | 8.75 | 10 | Syracuse (31200), Monte Bubbonia hoard. |
| | 2. | 8.55 | 7 | *Formerly de Laval collection, Stockholm; Sambon-Canessa 27.6.1927, 648. |
| | 3. | 8.47 | 12 | Karlsruhe. |
| | 4. | 8.47 | | Kricheldorf 41, 1988, 49. |

- | | | | | |
|------------|-------------|--|----|---|
| | 5. | 8.35 | 2 | Naples, Fiorelli 3931. |
| | 6. | 8.04 | 7 | Catanzaro. |
| | 7. | – | | Kunst und Münzen 20.6.1977, 46. |
| 236 | O82 | Die of 235–237. | | |
| | R159 | Similar broad crab with eyes close together in small, deep recessions; "spidery" legs. | | |
| | 1. | 8.65 | 2 | *New York, <i>SNG ANS</i> (1955.54.51), 931; Grabow 9.7.1930, 177; Cammann, fig. p. 2. <i>Rev.</i> Double-struck; large part of a second crab visible below to l. |
| | 2. | 8.64 | | Schulten 20.10.1988, 49. |
| | 3. | 8.59 | 1 | Comiso hoard; Boehringer, Comiso 61. |
| | 4. | 8.53 | 10 | Palermo, Salinas 152. |
| | 5. | 8.45 | 9 | Private collection, Ognina hoard; Boehringer, Ognina 3. |
| | 6. | 8.42 | | Spink <i>NCirc.</i> Nov. 1976, 8987. |
| | 7. | 8.40 | | Private collection X. |
| | 8. | 8.31 | | Christie's 26.4.1988, 445; Seaby <i>Bull.</i> August 1988, B142; do. January 1975, A3; Peus 267, 1967, 9. |
| | 9. | 8.30 | 12 | Naples, Santangelo 7332. |
| | 10. | 8.28 | 7 | Syracuse (53414), Monteraci hoard, <i>AIIN</i> 2, 1955, p. 72.3. |
| 237 | O82 | Die of 235–237. | | |
| | R160 | New type of square crab, more high than broad; eyes wide apart. Die of 237, 240, 243. | | |
| | 1. | 8.76 | 2 | *Syracuse (31216), Monte Bubbonia hoard. |
| | 2. | 8.70 | 6 | Pennisi; Salinas 152, pl. 7.6. |
| | 3. | 8.49 | 1 | Syracuse (5437). |

Group IV, c. 480/478–c. 470 BC. *Obv.* Divided legend above and below eagle

Obv. dies 13; *rev.* dies 41; die combinations 59.

- | | | | | |
|------------|-------------|---|----|---|
| 238 | O83 | Eagle standing r. Die of 238–242. | | |
| | R161 | Crab in round incuse; broad square section between the eyes wide apart in shallow, curved recesses; below letter A. | | |
| | 1. | 8.81 | 5 | Private collection, Ognina hoard; Boehringer, Ognina 13. |
| | 2. | 8.76 | 10 | Comiso hoard; Boehringer, Comiso 63; Lanz 36, 1986, 56; do. 32, 1985, 60. |
| | 3. | 8.76 | | Peus 301, 1981, 146; Kricheldorf 27.1973.52. |

- | | | | |
|-----|------|----|--|
| 4. | 8.67 | 7 | Syracuse (31229), Monte Bubbonia hoard. |
| 5. | 8.67 | 10 | *Syracuse (31230), Monte Bubbonia hoard. |
| 6. | 8.66 | 12 | London <i>BMC</i> 32, Jenkins, <i>Gela</i> , pl. 37.20; Gorini, <i>Studi Breglia</i> I, p. 66, fig. B. |
| 7. | 8.64 | 9 | Pennisi; Hamburger 98, 1933, 138. |
| 8. | 8.61 | 1 | Berlin (Imhoof-Blumer 1900). |
| 9. | 8.60 | 10 | Syracuse, Casulla hoard. |
| 10. | 8.55 | | Peus 349, 1996, 29; Sotheby 3.2.1909, 173. |
| 11. | 8.54 | 11 | Copenhagen <i>SNG</i> 32 (ex. Proschowsky 1940). |
| 12. | 8.53 | 6 | Pennisi; Salinas 143, pl. 6.23. |
| 13. | 8.53 | | Kölner Münzkabinett 14, 1974, 8; Myers 3, 1972, 33. |
| 14. | 8.51 | | Cahn 65, 1929, 63; Naville 5, 1923, 815 (ex. Payne-Knight). |
| 15. | 8.46 | | Astarte 12, 2003, 44. |
| 16. | 8.45 | | Cahn 68, 1930, 1062; Sambon-Canessa 27.6.1927, 660. |
| 17. | 8.45 | 9 | New York (57.172.509, Hoyt Miller), <i>SNG ANS</i> 962. |
| 18. | 8.44 | 5 | Catania. |
| 19. | 8.43 | 7 | *Dewing 554; <i>Ars Classica</i> 14, 1929, 75; Sambon 19.12.1907, 85. |
| 20. | 8.41 | 7 | Munich, <i>SNG</i> 58. |
| 21. | 8.36 | | Monetarium list 53, 1990, 24. |
| 22. | 8.35 | | Athens; Naville I Pozzi, 371. |
| 23. | 8.34 | | Höfer list 10 (no year), 335. |
| 24. | 8.32 | 3 | Syracuse (47412), Passo di Piazza hoard. |
| 25. | 8.31 | | Münzhandlung Basel 10, 1938, 86. |
| 26. | 8.28 | 5 | Formerly New York. |
| 27. | 8.25 | | Glendining-Seaby 15.7.1929, 181; Sambon-Canessa 27.6.1927, 659; Cahn 71, 1931, 134. |
| 30. | 8.23 | | Private collection X. |
| 31. | 8.18 | 7 | Private collection, Ognina hoard; Boehringer, Ognina 9. |
| 32. | 8.15 | 12 | Berlin (Imhoof-Blumer 1900). |
| 33. | 8.16 | | Milan, Arslan 20. |
| 34. | 7.71 | | CNG MB 60, 2002, 139. |
| 35. | – | | Toderi list 2 (1975), 76. |
| 36. | – | | Comiso hoard; Boehringer, Comiso 64. |
- Obv.* Traces of a crab's legs and claws below eagle: 4, 5, 6, 8, 13, 16, 24, 25.

239 O83 Die of 238–242. Die more worn.
R162 Crab as last; below letter A.

- | | | | |
|----|------|---|---|
| 1. | 8.75 | 5 | *New York (1944.100.8201, Newell), <i>SNG ANS</i> 963. |
| 2. | 8.72 | 2 | Syracuse (31228), Monte Bubbonia hoard. |
| 3. | 8.70 | 7 | Cambridge, <i>McClellan</i> 2033, pl. 65.4. Irregular flan. |
| 4. | 8.62 | | Private collection X. |

- | | | | |
|-----|------|---|---|
| 5. | 8.58 | 9 | Paris (FG 56). |
| 6. | 8.57 | | Glasgow, <i>Hunter</i> 10. |
| 7. | 8.55 | 7 | Stuttgart. |
| 8. | 8.52 | | Private collection X. |
| 9. | 8.46 | | CNG 54, 2000, 259; Riechmann 30, 1924, 204. |
| 10. | 8.36 | 7 | Naples Santangelo 7346. |
| 11. | 8.30 | | Kress 119, 1961, 116 (ex. Baranowsky). |
| 12. | 8.20 | | Canessa 22.5.1922, 170. |
| 13. | 7.52 | 7 | Syracuse (47411), Passo di Piazza hoard. |
| 14. | – | | Comiso hoard; Boehringer, Comiso 65. |
| 15. | – | | Comiso hoard; Boehringer, Comiso 66. |

Obv. Traces of a crab's legs below eagle as last: 3, 5.

240 O83 Die of 238–242. More worn, cracks on letters AK and on eagle's back.
R160 Die of 237, 240, 243.

- | | | | |
|----|------|----|--|
| 1. | 8.67 | | Kölnner Münzkabinett 73, 2000, 11; Dorotheum
26.4.1961 (Hollschek XIII), 904. |
| 2. | 8.53 | 9 | Paris, Delepierre <i>SNG</i> 525. |
| 3. | 8.44 | 10 | Reggio Calabria, Vito Superiore hoard, Procopio, p. 4.8. |
| 4. | 8.42 | | Milan, Arslan 25. |
| 5. | 8.35 | | *Comiso hoard; Boehringer, Comiso 67; Sternberg 10,
1980, 18; Höfer list 10 (no year), 334. |
| 6. | 7.09 | 4 | New York (84.65.21, J.P. Rosen). |
| 7. | – | 3 | Comiso hoard; Boehringer, Comiso 68. |

Obv. Traces of crab's legs as last: 2, 6.

Note to 2: "Les nos. 519 (=80.3) et 525 achetés à Milan en 1937, provenaient d'une trouvaille qui comprenait... une trentaine de didrachmes d'Agrigente".

241 O83 Die of 238–242. Worn die as last.
R163 Crab with broad bottom; thicker legs.

- | | | | |
|----|------|---|---|
| 1. | 8.60 | | Peus 324, 1989, 48; Peus 294, 1978, 140. |
| 2. | 8.55 | | Leiden. |
| 3. | 8.47 | | Schulten 18.10.1989, 24; G. Hirsch 157, 1988, 28;
Müller 51, 1986, 17. |
| 4. | 8.10 | 5 | Sternberg in stock 1957; Grabow in stock 1957. |
| 5. | 7.90 | | G. Hirsch 45, 1965, 1542 |
| 6. | – | | Myers 1, 1971, 47. |
| 7. | – | | *Coin Galleries, <i>The Numismatic Review</i> , vol. 5.3, 1964,
C37. |
| 8. | – | | Comiso hoard; Boehringer, Comiso 69. |

Obv. Traces of crab's legs as last: 6.

- 242 O83** Die of 238–242. Worn die as last. Letters enlarged by cracks.
R164 Similar crab with thin legs.
1. 8.57 Astarte 5 MB 1999, 223.
 2. 8.44 7 Palermo.
 3. 8.31 2 *Syracuse, Casulla hoard.
- 243 O84** Die of 243–249.
R160 Die of 237, 240, 243.
1. 8.73 2 *Syracuse (31222), Monte Bubbonia hoard.
 2. 8.62 Naville 5, 1923, 807.
 3. 8.58 NAC-O, 2004, 1484.
 4. 8.20 Cahn 61, 1928, 35.
- 244 O84** Die of 243–249.
R165 Small crab with thin legs; drop shaped eyes wide apart.
1. 8.57 6 *Munich, *SNG* 52.
 2. 8.54 Comiso hoard; Boehring, Comiso 70; Sternberg 10, 1980, 19.
 3. 8.46 10 Tübingen Universität, *SNG* 558.
 4. 8.30 5 Formerly Moretti; NAC-O, 2004, 1254.
 5. 8.20 Vinchon 11.4.1988, 236; *Ars Classica* 15, 1930, 266. /55.
 6. 8.20 MMAG list 7, 1942, 2; Münzhandlung Basel 10, 1938, 85; Hess 207, 1931, 128.
 7. 8.17 Cambridge, *McClean* 2025.
 8. 8.15 2 Reggio Calabria, Vito Superiore hoard, Procopio, p. 4.11 (7.81).
 9. 8.13 Peus 348, 1996, 28; do. 334, 1992, 105; Bonhams 6, 1981, 66.
 10. 7.67 10 Naples, Santangelo 7339. Deep depression at r. border.
- 245 O84** Die of 243–249.
R166 Similar crab with thin legs; l. claw lifted.
1. 8.84 7 Comiso hoard; Boehring, Comiso 71.
 2. 8.78 9 London, *BMC* 17.
 3. 8.71 10 London (1922).
 4. 8.60 3 Athens.
 5. 8.55 *Paris, Delepierre *SNG* 523.
 6. 8.47 10 Berlin (B28630/4).
 7. 8.46 7 Winterthur (Hüni 2061), Bloesch 568.
 8. 8.41 Dorotheum 412, 1981, 15.
 9. 8.38 1 Brussels.
 10. 8.32 12 Udine, Brandis 5.

- | | | | | |
|------------|-------------|---|------|---|
| | | 11 | 8.30 | Karlsruhe. |
| | | 12. | 8.23 | Hecht list 1, 1954, 75; Hamburger 98, 1933, 130. |
| | | 13. | 8.14 | Vinchon 14.3.1989, 60. |
| | | 14. | 8.12 | CNG 39, 1996, 258. |
| | | 15. | 8.08 | St. Petersburg. |
| 246 | O84 | Die of 243–249. Initial letter A recut on 4, 6, 7, 9, 11, 16, 18. | | |
| | R167 | Similar crab with square bottom and l. claw lifted. | | |
| | | 1. | 8.80 | St. Petersburg. |
| | | 2. | 8.71 | Glasgow, <i>Hunter</i> 1. |
| | | 3. | 8.67 | 7 Syracuse (31226), Monte Bubbonia hoard. |
| | | 4. | 8.66 | Formerly private collection, Germany. |
| | | 5. | 8.66 | Comiso hoard; Boehringer, Comiso 72;
Class. Num. Auctions 17, 1991, 127. |
| | | 6. | 8.61 | Toderi, list (1975), 97. |
| | | 7. | 8.60 | Helbing 24.10.1927, 2625. |
| | | 8. | 8.59 | 11 Syracuse (31224), Monte Bubbonia hoard. |
| | | 9. | 8.45 | Vatican (cat. 9). |
| | | 10. | 8.39 | 11 Syracuse (20050, acq. 1900). |
| | | 11. | 8.39 | CNG MB 60, 2002, 138. |
| | | 12. | 8.37 | 9 Berlin (Imhoof-Blumer 1900). |
| | | 13. | 8.34 | 12 *Budapest, <i>SNG</i> 16. |
| | | 14. | 8.35 | 1 Bologna. |
| | | 15. | 8.31 | 10 Pennisi. |
| | | 16. | 8.24 | 3 Syracuse (47414), Passo di Piazza hoard. |
| | | 17. | 8.21 | 3 Klagenfurt <i>SNG</i> 402. |
| | | 18. | 8.15 | G. Hirsch 137, 1983, 10. |
| | | 19. | 8.06 | Coburg. |
| | | 20. | – | Emporium 37, 1997, 20; do. 11, 1987, 42; do. 4, 1985,
9. |
| | | 21. | – | New York in trade 1951. |
| | | 22. | – | Comiso hoard; Boehringer, Comiso 73. |
| 247 | O84 | Die of 243–249. | | |
| | R168 | Broad crab; eyes tight together; l. claw lifted. | | |
| | | 1. | 7.27 | 4 *Agrigento (2096), <i>SNG</i> 79. Worn and corroded. |
| 248 | O84 | Die of 243–249. Initial letter A recut on 5, 8, 10, 13. | | |
| | R169 | Round crab with thin legs. | | |
| | | 1. | 8.85 | M MAG list 369, 1975, 13. |
| | | 2. | 8.73 | 10 Leu in stock 1954. |
| | | 3. | 8.70 | 11 Syracuse (31225), Monte Bubbonia hoard. |

4.	8.65	6	*New York (57.172.505, Hoyt Miller), <i>SNG ANS</i> 950.
5.	8.62	3	Cefalù.
6.	8.58	12	Grabow in stock 1954.
7.	8.56		Peus 282, 1973, 36.
8.	8.55	3	Comiso hoard; Boehringer, Comiso 74.
9.	8.41		NAC-D, 1994, 1214.
10.	8.38	3	Stuttgart.
11.	8.34	2	Private collection, Ognina hoard; Boehringer, Ognina 7.
12.	8.20	2	Naples Fiorelli 3925.
13.	8.12	2	Syracuse (36920), Paternò hoard.

Obv. Flaw at eagle's beak beginning to appear: 1–2; beak elongated by flaw: 10.

249 O84¹ Die of 243–249 with initial letter A recut. Flaw at beak removed.

R170 Similar crab; eyes widely separated by square section.

1.	8.71	8	Comiso hoard; Boehringer, Comiso 75.
2.	8.63	7	*Syracuse (31223), Monte Bubbonia hoard.
3.	8.61	11	Syracuse, Casulla hoard.
4.	8.58	1	Pennisi.
5.	8.50	6	Tübingen, <i>SNG</i> 557.
6.	8.49	6	Gela, found on the Akropolis of Gela.
7.	8.40	5	Private collection, Ognina hoard; Boehringer, Ognina 8.
8.	8.38		Gans MB 16, 1960, 115.
9.	8.37	3	New York (1957.191.3), <i>SNG ANS</i> 952
10.	8.31		Blancon list 10, 1991, 42; Müller 31, 1981, 16; Galerie des Monnaies in stock 1978.
11.	8.30		G. Hirsch 199, 1998, 34.
12.	7.30		Kress 93, 1952, 43.
13.	–		Hanberry collection, California.

250 O85 Similar eagle standing r.

R171 Similar crab; eyes separated by broad, square section.

1.	7.41		*Auctiones 24, 1994, 40; Dorotheum 26.4.1961 (Hollschek XIII), 906.
----	------	--	---

251 O86 Ethnic AK/RA in large letters; similar eagle standing r. Die of 251–256.

R172 Similar; very broad projecting section between the eyes.

1.	8.76	9	*MMAG list 596, 1996, 3; Leu 18, 1977, 46.
2.	8.66		Kurpfälzische Münzhandlung 59, 2000, 23.
3.	8.65	2	Leu 2, 1972, 65.
4.	8.65	6	Pennisi; Hamburger 98, 1933, 132; Jenkins, Himera, pl. 4.4.

- | | | | | |
|------------|-------------|-----------------|----|---|
| | 5. | 8.57 | 2 | Leu in stock 1954. |
| | 6. | 8.53 | 7 | London, <i>BMC</i> 20. |
| | 7. | 8.50 | 6 | Vatican (cat. 7). |
| | 8. | 8.49 | 9 | Syracuse, Casulla hoard. |
| | 9. | 8.48 | 9 | Spink in stock 1952. |
| | 10. | 8.41 | | Dorotheum 416, 1982, 3. |
| | 11. | 8.31 | 4 | Copenhagen, <i>SNG</i> 29 (ex. Falbe 1841). |
| | 12. | 8.31 | 7 | Naples Santangelo 7345. |
| | 13. | 8.26 | | Zürich, Zentralbibliothek, 204. |
| | 14. | 8.25 | | Kress 90, 1951, 81. |
| | 15. | 9.10 | | Arsantiqva 4, 2003, 70. |
| 252 | O86 | Die of 251–256. | | |
| | R173 | Similar. | | |
| | 1. | 8.66 | | NAC-D, 1994, 1216. |
| | 2. | 8.64 | 1 | Berlin (Rauch). |
| | 4. | 8.61 | | Schulman 265, 1976, 49; Spink <i>NCirc.</i> , Oct. 1972, 9009. |
| | 5. | 8.50 | | St. Petersburg. |
| | 6. | 8.45 | | CNG MB 60, 2002, 137. |
| | 7. | 8.29 | 6 | Pennisi. |
| | 8. | 8.23 | 11 | *Syracuse (23765, acq. 1904). |
| | 9. | 7.95 | 7 | Naples Fiorelli 3940. |
| 253 | O86 | Die of 251–256. | | |
| | R174 | Similar. | | |
| | 1. | 8.73 | | Comiso hoard; Boehringer, Comiso 76; Sotheby 5.10.1990, 14. |
| | 2. | 8.72 | 12 | Ahlström 27, 1983, 2015. <i>Obv.</i> Eagle's tail off flan. |
| | 3. | 8.69 | | MMAG list 355, 1974, 2; Myers 5.12.1974, 30 (8.67). |
| | 4. | 8.68 | | Glendining 12.10.1992, 100. |
| | 5. | 8.67 | | Elsen 26, 1992, 89; Peus 316, 1992, 96; MMAG list 483, 1985, 6; Kricheldorf 28, 1974, 35. |
| | 6. | 8.65 | 3 | Paris; Babelon, <i>Traité</i> pl. 78, 8. |
| | 7. | 8.65 | | Schulman 31.5.1938, 67. |
| | 8. | 8.65 | 7 | Syracuse (31220), Monte Bubbonia hoard. |
| | 9. | 8.58 | | Bourgey 4.11.1975, 14. |
| | 10. | 8.56 | 9 | Comiso hoard; Boehringer, Comiso 77; Lanz 22, 1984, 69. |
| | 11. | 8.49 | 11 | Cambridge, <i>SNG</i> IV, 897; Leake, <i>NH</i> , Sicily p. 49.6. |
| | 12. | 8.43 | 3 | Winterthur, Bloesch 570 (ex. Hüni). |
| | 13. | 8.42 | 5 | Pennisi. |
| | 14. | 8.41 | | CNG MB 54, 2000, 256 |
| | 15. | 8.40 | | Formerly Hammerich collection, Copenhagen. |

16.	8.39		Copenhagen, <i>SNG</i> 30 (ex. Christian VIII). Double-struck on both sides.
17.	8.33	6	Prag (H5-25.742).
18.	8.33		Elsen 33, 1994, 3. <i>Obv.</i> Eagle's tail off flan.
19.	8.31		Agrigento, <i>SNG</i> 84, S.Catarina Villarmosa hoard.
20.	8.30	6	MMAG list 334, 1972, 2.
21.	8.28		Glasgow, <i>Hunter</i> 7.
22.	8.27		Milan, Arslan 26.
23.	8.23	11	Münster.
24.	8.20	3	Leipzig, <i>SNG</i> 358.
25.	8.20		*Private collection X.
26.	8.18		Waddell 2, 1987, 60.
27.	8.13	7	New York (84.65.14, J.P. Rosen).
28.	7.56	6	Syracuse (20051 acq. 1900).
29.	–		Comiso hoard; Boehringer, Comiso 78.

254 O86 Die of 251–256.

R175 Similar; below crab CAΣ completing the obverse legend. Die of 254, 257.

1.	8.70	7	Syracuse (31231), Monte Bubbonia hoard.
2.	8.69	10	Leu 15, 1976, 48; Leu list "Sicilia" 1962, 6 (ex. de Ciccio).
3.	8.68		Sternberg 24, 1990, 13.
4.	8.61	10	Pennisi.
5.	8.61		Lanz 68, 1994, 43.
6.	8.60	12	Athens.
7.	8.58		Monetarium list 59, 1993, 17; <i>Ars Classica</i> 14, 1929, 76.
8.	8.55		Private collection X. <i>Rev.</i> Traces of overstriking.
9.	8.50		Vecchi 1, 1996, 165.
10.	8.47	10	Pennisi
11.	8.44	1	Leipzig, <i>SNG</i> 359.
12.	8.39	4	Berlin (Prokesch-Osten 1876).
13.	8.33		Lanz, Graz, 1.12.1975, 81.
14.	8.31	5	London, <i>BMC</i> 34; Salinas 133, pl. 6.13.
15.	8.29		*Formerly Moretti; Peus 300, 1980, 54.
16.	8.19		Seaby <i>Bull.</i> Dec. 1979, C1281.
17.	8.17	6	Copenhagen (ex. Christian VII, Münster 867), <i>SNG</i> 33.
18.	8.01	5	Reggio Calabria, Vito Superiore hoard, Procopio p. 4.8.
19.	7.89		MMAG 32, 1966, 29.
20.	7.82		Stockholm (101 163, gift 1984). Restruck on Corinth, Westermark, <i>SM</i> , Heft 140, p. 86, fig. 1.
21.	–		Bourgey 14.12.1911, 36.

- 255 O86** Die of 251–256.
R176 Similar crab; l. claw lifted; drop shaped eyes.
1. 8.66 11 Oldenburg 26, 1991, 37; G. Hirsch 25, 1960, 1738; Ratto stock cat. XI, 1934, 997; do. 24.6.1929, 60.
 2. 8.65 12 Comiso hoard; Boehringer, Comiso 79.
 3. 8.62 Paris, Delepierre *SNG* 524; Bourgey 14.6.1932, 15.
 4. 8.61 11 Syracuse (31221), Monte Bubbonia hoard.
 5. 8.60 11 Formerly private collection, Syracuse.
 6. 8.55 2 Berlin (Imhoof-Blumer 1900).
 7. 8.57 Private collection X. Traces of overstriking.
 8. 8.54 7 Lockett *SNG* III, 699; Glendining 25.10.1925, 583; Naville I Pozzi, 1921, 365.
 9. 8.54 1 Munich, *SNG* 53.
 10. 8.51 5 Munich, *SNG* 54.
 11. 8.47 6 Syracuse (4934).
 12. 8.43 Private collection X.
 13. 8.30 Torino (1344).
 14. 8.21 6 Toronto (949x15.11).
 15. 8.16 5 *Stockholm (Skjöldebrand), *SNG* 371.
 16. 8.15 Vatican (cat. 8).
 17. 8.15 1 Naples Fiorelli 3941.
 18. 7.78 Agrigento (no inv.no.), *SNG* 86, S. Catarina Villarmosa hoard.
 19. – Comiso hoard; Boehringer, Comiso 80; Rist list Autumn 1994, G6; do. Summer 1994, G7; do. Febr. 1993, G7; Martin list Febr. 1992, G10.

Rev. Thin flaw in field below: 4, 12, 13, 15, 17.

- 256 O86** Die of 251–256.
R177 Very broad crab with thin legs; eyes in shallow recesses; r. claw lifted; below CAΣ completing the obverse legend. Die has large flaw at r. claw. Die of 256, 258.
1. 8.80 *Private collection X.
 2. 8.76 12 Pennisi; Hamburger 98, 1933, 140.
 3. 8.69 Peus 380, 2004, 154.
 4. 8.59 3 Comiso hoard; Boehringer, Comiso 81.
 5. 8.58 3 Munich, *SNG* 63.
 6. 8.58 Ratto stock cat. XI, 1934, 1006; do. 24.6.1929, 67; Baranowsky 4, 1931, 291.
 7. 8.52 6 Naples Fiorelli 3946.
 8. 8.49 NAC-H, 1998, 1131.
 9. 8.48 7 Formerly Moretti; Kunst und Münzen list 62, 1988,50; do. list 34, 1978, 74.

- | | | | |
|-----|------|---|---------------------------|
| 10. | 8.32 | | MünzZentrum 54, 1985, 48. |
| 11. | 8.23 | 1 | Berlin (Rauch). |
| 12. | 8.20 | 3 | Naples Fiorelli 3943. |

257 O87 Ethnic in small letters; similar eagle standing r. Die of 257–262.
R175 Die of 254, 257.

- | | | | |
|----|------|----|--|
| 1. | 8.52 | 6 | Udine, Collection Brandis 3. |
| 2. | 8.51 | 5 | Leu 72, 1998, 59. |
| 3. | 8.44 | | Müller 46, 1984, 36. |
| 4. | 8.38 | 12 | *Budapest, <i>SNG</i> 15; Hirsch 19, 1907, 101. |
| 5. | 8.23 | | G. Hirsch 160, 1988, 36. |
| 6. | 8.12 | | Oslo Mynthandel 7, 1981, 219. |
| 7. | 8.07 | | CNG 54, 2000, 260. |
| 8. | 8.00 | | Private collection X; Ratto stock cat. XI, 1934, 1005. |

258 O87 Die of 257–262.

R177 Die of 256, 258. Same flaw at r. claw.

- | | | | |
|-----|------|---|---|
| 1. | 8.81 | 2 | Syracuse (28441), Carancino hoard; Cesano, pl. 6.3. |
| 2. | 8.72 | 1 | Triton II, 1998, 146; formerly Moretti. <i>Rev.</i> Flaw removed. |
| 3. | 8.70 | | MMAG 37, 1968, 67. |
| 4. | 8.68 | | Bourgey 2.7.1964, 25; do.17.6.1959, 102. |
| 5. | 8.67 | 2 | New York (1955.54.53, Cammann), <i>SNG ANS</i> 960. |
| 6. | 8.63 | 4 | Berlin (Löbbecke). |
| 7. | 8.59 | 7 | Winterthur, Bloesch 571; Feuarent 19.12.1921, 37. |
| 8. | 8.50 | | Naville I Pozzi 1921, 373. |
| 9. | 8.48 | | Kunst und Münzen list 47, 1981, 118; do.list 37, 1979, 72; do. list 32, 1976, 64. |
| 10. | 8.45 | | *Private collection X. |
| 11. | 8.38 | 2 | Coburg. |
| 12. | 8.37 | | Glasgow, <i>Hunter</i> 9. |
| 13. | 8.35 | 2 | Pennisi. |
| 14. | 8.17 | | Vecchi & Sons, 8.10.1984, 41. |
| 15. | 8.15 | 3 | London (1918.2.4.48, Ford). |
| 16. | – | | New York in trade 1951. |

Rev. Flaw on crab's shell: 8, 13, 15.

R. 177 has a large flaw on all specimens except on 258.2. The *rev.* of that coin seems to have been tooled. – The flaw has been described as a prey caught by the crab (no. 7, Winterthur) or as a small shell (no. 8, Naville I).

- 259 O87** Die of 257–262.
R178 Crab with eyes in lined recesses; below CAΣ completing the obverse legend and young head r.
1. 8.87 MMAG 32, 1966, 28.
 2. 8.81 7 Oxford (Evans), *SNG* 1667. Faint traces of overstriking on *rev.*, Garraffo p. 133.4a.
 3. 8.81 2 Pennisi.
 4. 8.76 7 *Syracuse (31234), Monte Bubbonia hoard, *AJN* suppl. 12–14, 1969, pl. 4.3. *Rev.* enl. pl. 20.
 5. 8.75 MMAG 28, 1964, 34; Schulman 16.12.1926, 97; do. 17.6.1924, 301.
 6. 8.74 3 Syracuse, Casulla hoard.
 7. 8.74 SBV 21, 1989, 12; Schlessinger 4.2.1935, 221.
 8. 8.71 Waddell 2, 1987, 59; *Ars Classica* 13, 1928, 192; Egger 10.12.1906, 48.
 9. 8.71 Vinchon 11.4.1988, 231; Hess 202, 1930, 2259; Canessa 12.6.1928, 488.
 10. 8.70 Sotheby 12.5.1983, 93; Ratto 9.10.1934, 47 (8.66); Cahn 71, 1931, 135 (8.80); Glendining 9.3.1931, 896 (8.70).
 11. 8.70 Sternberg 16.1985,50; Santamaria 21.11.1932, A51; do. 27.3.1928, A83.
 12. 8.69 NAC-O, 2004, 1485. *Ars Classica* 16, 1933, 424.
 13. 8.68 Pennisi; Hamburger 98, 1933, 141.
 14. 8.67 Leu list "Sicilia" 1962, 7; Jameson 500.
 15. 8.66 7 MMAG in stock 1960.
 16. 8.62 2 Berlin (Löbbecke 1906, ex. Lambros). Overstruck. Traces of a square incuse visible on *obv.* above eagle's back.
 17. 8.63 Spink *NCirc.* Febr. 1986, 853; Glendining-Seaby 15.7.1929, 182; do. 1.12.1927, 564; Sambon-Canessa 27.6.1927, 661; Jenkins, *Gela*, pl. 37.18.
 18. 8.63 7 Formerly Moretti; Triton III, 1999, 150; NAC 13, 1998, 253; *Antikenmuseum Basel* 1988, 253; Hess-Leu 12.4.1962, 48; Gans MB 16, 1960, 117.
 19. 8.63 6 Munich, *SNG* 61.
 20. 8.60 1 Paris (FG 57); Salinas 138, pl. 6.18.
 21. 8.60 Syracuse (inv. 563), Gagliardi 693.
 22. 8.60 *Private collection, South Germany.
 23. 8.59 9 London, *BMC* 36. *Obv.* Traces of overstriking.
 24. 8.58 6 Brussels L de Hirsch 282.
 25. 8.58 Riechmann 30, 1924, 205.
 26. 8.57 Cambridge *SNG* IV, 912.

- | | | | |
|-----|------|----|---|
| 27. | 8.56 | | Coin Galleries MB 13.11.1991, 219. |
| 28. | 8.55 | | G. Hirsch 180, 1993, 80; do. 177, 1993, 81. |
| 29. | 8.53 | | Hess 208, 1931, 95. |
| 30. | 8.53 | | Himera 1985 hoard, Mid-American Rare Coin Auctions, 15.2.1985, 555. |
| 31. | 8.51 | 6 | Private collection, Paris; Lockett <i>SNG</i> III, part 2, 707; Glendining 25.10.1955, 591; MMAG list 178, 1958, 5; Naville 5, 1923, 816. |
| 32. | 8.51 | | Vecchi 6, 1997, 165. |
| 33. | 8.50 | | Bourgey 17.6.1959, 103; Weber 1186; Naville 4, 1922, 203. |
| 34. | 8.50 | | Vatican (cat. 12). |
| 35. | 8.50 | 5 | Utrecht. |
| 36. | 8.50 | 11 | Naples Fiorelli 3947. Oxydized. |
| 37. | 8.47 | | Berk 113, 2000, 101. |
| 38. | 8.46 | 4 | Syracuse (14581, acq. 1894). Overstruck? |
| 39. | 8.45 | 2 | Brussels. |
| 40. | 8.43 | 7 | Bologna. |
| 41. | 8.42 | | Formerly New York. |
| 42. | 8.42 | | Peus 329, 1990, 80. |
| 43. | 8.40 | 2 | Athens; Naville I Pozzi 1921, 374. <i>Obv.</i> Corroded. |
| 44. | 8.39 | 6 | Syracuse (36921), Paternò hoard. |
| 45. | 8.37 | 2 | Pennisi. |
| 46. | 8.36 | 11 | New York (57.172.508, Hoyt Miller), <i>SNG ANS</i> 959. |
| 47. | 8.36 | | Miksche collection, Huddinge; Vecchi 10, 1998, 101. |
| 48. | 8.35 | | Dresden (468). |
| 49. | 8.34 | 2 | *London, Lloyd <i>SNG</i> 796. Traces of overstriking. Garraffo p. 133.4b. pl. 16. 12. <i>Rev.</i> enl. pl. 20. |
| 50. | 8.33 | 3 | Leu 79, 2000, 327; Salton in stock 1952; Schulman 7.6.1937, 85; Hirsch 13, 1905, 267. |
| 51. | 8.27 | 11 | Syracuse (26243, acq. 1905). |
| 52. | 8.26 | 12 | Syracuse (5444). |
| 53. | 8.21 | 3 | Munich, <i>SNG</i> 62. |
| 54. | 8.21 | 5 | Winterthur, Bloesch 572. |
| 55. | 8.14 | | CGF XVI, 31.12.2002, 8. Overstruck? |
| 56. | 7.98 | | Palermo. |
| 57. | 7.93 | | Hess 224, 1936, 324; Sotheby 6.7.1921, 197. Corroded. |
| 58. | – | | Leiden, formerly Amsterdam, Akademie |
| 59. | – | | Formerly de Ciccio collection. |
| 60. | – | | Myers list 1973, <i>A Numismatic Bestiary</i> 16. |
| 61. | | | Ognina hoard; Boehringer, Ognina 12. |

- 260 O87** Die of 257–262.
R179 Similar crab; below ΓΑΣ and young head r.
 1. 7.97 7 *Plated. New York (86.78.904, J.P. Rosen).
- 261 O87** Die of 257–262. Worn die; long cracks extending from letters AK above and A below.
R180 Small, square crab with broad bottom and short claws; below corn-grain. Die of 261, 263.
1. 8.80 Sambon-Canessa 27.6.1927, 662; Canessa 22.5.1922, 169.
 2. 8.80 Ratto 24.6.1929, 64.
 3. 8.78 6 Santamaria in stock 1951; do. 21.11.1932, 52; do. 27.3.1928, 82.
 4. 8.70 7 Berlin (B11390).
 5. 8.66 1 *Formerly Moretti; NAC-O, 2004, 1255.
 6. 8.65 8 Pennisi.
 7. 8.65 MM Deutschland 13, 2003, 544; Auctiones 25, 1995, 70.
 8. 8.63 Vecchi & Sons 10.10.1983, 62.
 9. 8.59 5 Munich, *SNG* 55.
 10. 8.58 6 Pennisi, Salinas 144 and 146, pl. 6.24 (*obv*), 6.26 (*rev.*).
 11. 8.56 Stack's 4.12.1976, 27.
 12. 8.51 6 Pennisi.
 13. 8.51 4 Kress 109, 1958, 31; Grabow list 2, 1953, 38.
 14. 8.49 Müller 51, 1986, 16; do. 48, 1985, 21.
 15. 8.42 8 London, *BMC* 27.
 16. 8.42 NAC-A, 1991, 1166.
 17. 8.42 CNG 38, 1996, 115.
 18. 8.40 Helbing 24.10.1927, 2627.
 19. 8.34 G. Hirsch 19, 1958, 45; Schulman 7.6.1937, 86; do. 8.6.1931, 49; do. 16.12.1926, 98 (8.44).
 20. 8.32 7 Budapest, *SNG* I:3, 17.
 21. 8.30 Washington, Wulfing collection, *ACNAC* 1979, 87.
 22. 8.27 Torino (1345).
 23. 8.23 12 Glendining 18.4.1955, 157.
 24. 8.21 Palermo.
 25. 8.10 Dorotheum 26.4.1961 (Hollschek XIII), 903.
 26. 8.03 Dorotheum 422, 1983, 3; do. 419, 1982, 8.
 27. 8.03 Göttingen (UK-Sic. 1).
 28. 7.84 1 Formerly Prag.
 29. – de Nicola list March 1966, 153.
 30. – In trade New York 1951.
 31. – Glendining 7.7.1971, 31.

- 262 O87¹** Die O87 much worn and recut; letters RA on r. side recut; flaws partly removed. Die of 257–262.
- R181** Similar but larger crab; below corn grain. Die of 262, 266, 270.
- | | | | |
|-----|------|----|--|
| 1. | 8.83 | | Private collection X; Ratto stock cat. XI, 1934, 1002. |
| 2. | 8.78 | 7 | *Syracuse (31240), Monte Bubbonia hoard. |
| 3. | 8.78 | 3 | Comiso hoard; Boehringer, Comiso 82; Höfer list 11, 1983, 439; Dorotheum Sonderauktion 12.11.1982, 45. |
| 4. | 8.76 | 6 | London (Cameron 1946); Jenkins, <i>Gela</i> , pl. 37.15. |
| 5. | 8.75 | 11 | Brussels. |
| 6. | 8.75 | | Cahn 66, 1930, 94; Canessa.12.6.1928, 489. |
| 7. | 8.73 | 4 | Paris (FG 58). |
| 8. | 8.72 | | Kunst und Münzen list 60, 1987,144; do. 24, 1984, 52; Aes Rude 5.4. 1979, 74. |
| 9. | 8.70 | 7 | Syracuse, Casulla hoard. |
| 10. | 8.61 | 8 | Syracuse, Casulla hoard. |
| 11. | 8.56 | 12 | Pennisi. |
| 12. | 8.55 | | Spink <i>NCirc.</i> May 1961, 5008 (not ill., known from cast). |
| 13. | 8.50 | 9 | Leiden. |
| 14. | 8.49 | | Birkler & Waddell 4, 1982, 32. |
| 15. | 8.48 | 10 | Hess in stock 1969; Grabow in stock 1958. |
| 16. | 8.45 | 11 | Formerly private collection, Hamburg. |
| 17. | 8.44 | 12 | Agrigento (2099), <i>SNG</i> 87. |
| 18. | 8.37 | | Emporium 11, 1987, 41; do. 7, 1986, 12; do. 5, 1985, 480. |
| 19. | 8.33 | 8 | Agrigento (2097), <i>SNG</i> 88. |
| 20. | 8.31 | 11 | Pennisi. |
| 21. | 8.22 | | G. Hirsch 169, 1991, 94. |
| 22. | 8.17 | 7 | Syracuse (24775, acq. 1905). |
| 23. | 7.99 | 5 | Syracuse (34231, acq. 1913). |
| 24. | – | | Kurpfälzische Münzhandlung 25.12.1983, 54. |
- 263 O88** Small eagle with thin neck standing l. Die of 263–268.
- R180** Die of 261, 263.
- | | | | |
|----|------|--|--------------------------|
| 1. | 8.62 | | *Auctiones 25, 1995, 71. |
|----|------|--|--------------------------|
- 264 O88** Die of 263–268.
- R182** Crab crab with broad upper part and broad square section between eyes in lined recesses; below corn-grain. Die of 264, 269.
- | | | | |
|----|------|----|--------------------------------|
| 1. | 8.77 | 7 | Cambridge, <i>SNG</i> IV, 899. |
| 2. | 8.68 | 7 | Naples Santangelo 7347. |
| 3. | 8.63 | 11 | Pennisi (acq. 1934). |

- | | | | |
|-----|------|----|---|
| 4. | 8.61 | | Sternberg 31, 1996, 401. |
| 5. | 8.58 | | Private collection X. |
| 6. | 8.56 | 5 | Leu in stock 1954. |
| 7. | 8.53 | | Baldwin in stock 1952. |
| 8. | 8.47 | 3 | Berlin (Imhoof-Blumer 1900). |
| 9. | 8.48 | | Seaby <i>Bull.</i> May 1978, C439. |
| 10. | 8.43 | 10 | Munich <i>SNG</i> 56. |
| 11. | 8.43 | | Peus 329, 1990. 79. |
| 12. | 8.38 | 5 | Syracuse (13992. acq. 1894). |
| 13. | 8.34 | 7 | Enna. |
| 14. | 8.32 | | St. Petersburg. |
| 15. | 8.29 | 7 | Pennisi; Salinas 145, pl. 6.25 (<i>obv.</i>). |
| 16. | 8.25 | | *NAC-L, 2001, 1134; MMAG list 512, 1988, 3. |

265 O88 Die of 263–268.**R183** Similar crab but more rounded section between the eyes.

- | | | | |
|-----|------|----|--|
| 1. | 8.87 | 10 | Numismatica 13, 1976, 55; do. 8, 1975, 20; do 4, 1974, 46. |
| 2. | 8.75 | 10 | Syracuse, Casulla hoard. |
| 3. | 8.72 | 11 | Pennisi; Hamburger 98, 1933, 129. |
| 4. | 8.67 | | NAC-D, 1994, 1215. |
| 5. | 8.64 | | *Private collection X. |
| 6. | 8.55 | | Sambon 19.12.1907, 84. |
| 7. | 8.54 | | Dresden (465). |
| 8. | 8.50 | | Kress 127, 1963, 312. |
| 9. | 8.47 | | Vinchon 11.4.1988, 235; <i>Ars Classica</i> 15, 265. |
| 10. | 8.42 | | Seaby <i>Bull.</i> Sept. 1977, C699. |
| 11. | 8.40 | | Dorotheum 26.4.1961 (Hollschek XIII), 898. |
| 12. | 8.39 | 11 | Syracuse (no inv. no.) |
| 13. | 8.37 | 1 | Berlin (Rauch). |
| 14. | 8.35 | 11 | Utrecht. |
| 15. | 8.31 | 5 | London, <i>BMC</i> 18. |
| 16. | 8.32 | | Rauch 39, 1987, 46; do. 37, 1986, 45. |
| 17. | 8.29 | 3 | Florence. |
| 18. | 8.20 | | Peus 361, 1999, 10; do.333, 1992, 174; Kress 124, 1962, 201. |
| 19. | 8.00 | | Dresden (464). |
| 20. | – | | Formerly Dresden; Grässe, <i>Handbuch</i> , pl. 18.6. |
| 21. | – | | Sotheby 1.12.1976, 818. |

Obv. Thin crack between letters A and K visible on most specimens.

- 266 O88** Die of 263–268.
R181 Die of 262, 266, 270.
 1. 8.47 Riechmann list 1, 1921, 145.
 2. 8.41 5 *Naples Santangelo 7348.
 3. 8.40 St. Petersburg.
 4. 8.32 10 Copenhagen, *SNG* 40.
 5. – Lepczyk 25.2.1981, 12
Obv. Same flaw as last visible on 2, 3.
- 267 O88** Die of 263–268.
R184 Large crab with broad section between the eyes. Die of 267, 276, 285.
 1. 8.77 2 *Comiso hoard; Boehringer, Comiso 83; *Num. Class.*
 list 7 (no year), 833 (8.67)
 2. 8.77 3 Syracuse, Casulla hoard.
 3. 8.69 Aarhus University Fabricius collection, *SNG* 181.
 4. 8.67 Cahn 84, 1933, 109.
 5. 8.27 7 Cambridge, *SNG* 898.
- 268 O88** Die of 263–268.
R185 Similar crab. Die of 268, 271.
 1. 8.30 5 *Athens
- 269 O89** Small eagle standing r. Die of 269–274.
R182 Similar. Die of 264, 269.
 1. 8.77 1 Comiso hoard; Boehringer, Comiso 84.
 2. 8.51 Glasgow *Hunter* 11.
 3. 8.50 9 Schulman list 211, 1977, 11; Gans MB 16, 1960, 118;
 Ratto 24.6.1929, 65; Nanteuil 258.
 4. 8.50 *Private collection X.
 5. 8.40 Kricheldorf 28.5.1956, 938; G. Hirsch in stock 1953.
 6. 8.34 Syracuse, Gagliardi (414).
 7. 8.23 Milan, Arslan 19.
 8. 8.18 Aes rude 7.4.1978, 49; Ratto stock cat. XI, 1934, 1016;
 do. 24.6.1929, 61.
 9. 8.13 11 Cambridge, *SNG* IV, 909; Leake, *NH*, Sicily, p. 49.9.
 Oval flan flattened out below.
 10. 8.05 Palermo.
 11. – Hirsch (N.Y.) in stock in the 1950's (ex. de Ciccio).

- 270 O89** Die of 269–274.
R181 Die of 262, 266, 270.
 1. 8.50 2 *Syracuse (22689, acq. 1903).
 2. 7.98 12 Syracuse (27273, acq. 1907).
- 271 O89** Die of 269–274.
R185 Die of 268, 271.
 1. 8.91 1 Berlin (Löbbecke 1906).
 2. 8.76 5 Naples, Fiorelli 3944.
 3. 8.72 Naples, Fiorelli 3945.
 4. 8.70 11 Pennisi; Hamburger 98, 1933, 131.
 5. 8.69 3 Hess-Leu 49, 1971, 36.
 6. 8.64 4 *Syracuse, Casulla hoard.
 7. 8.64 Aufhäuser 18, 2004, 29; Klein 37; Spink *NCirc.* March, 1979, 2481 (ex. Seltman, *GC*, pl. 15.3).
 8. 8.61 7 London, *BMC* 19; Salinas 139, pl. 6.19 (*rev.*)
 9. 8.58 12 Toronto (922.44.31, ex. J.G. Milne).
 10. 8.47 8 New York (84.65.15, J.P. Rosen).
 11. 8.40 Dorotheum 269, 1964, 230.
 12. 8.38 7 Formerly private collection, Germany; Helbing 83, 1941, 132.
 13. 8.36 Oslo Mynthandel 36, 1995, 1072.
 14. 8.35 9 Cambridge, *SNG* IV, 908; Leake, *NH*, Sicily, p. 49.8.
 15. 8.12 02 Reggio Calabria, Vito Superiore hoard, Procopio p. 4.10.
 16. 8.06 12 Agrigento (no inv. no), *SNG* 85.
 17. 7.97 01 Platt in stock 1953.
 18. – Kricheldorf 23, 1971, 7.
 19. – Kress 130, 1964, 125.
- 272 O89** Die of 269–274.
R186 Similar crab with stiff legs; below corn-grain.
 1. 8.81 *Leu 91, 2004, 62; Waggoner, *Rosen* 29; Leu 28, 1981, 20; NFA 6, 1979, 42; Malloy 9, 1977, 69; MMAG 41, 1970, 25; Hess-Leu 31, 1966, 91.
 2. 8.66 Lanz 42, 1987, 69; *Num. Class.*, list 4 (no year), 221.
 3. 8.63 4 New York (1967.152.114), *SNG ANS* 956, ex. Ognina hoard; Boehringer, Ognina 10.
 4. 8.55 CNG MB 15.9.1999, 135; Spink & Son, in stock 1952.
 5. 8.55 G. Hirsch in stock 1953.
 6. 8.45 2 Athens.
 7. 8.24 7 Munich, *SNG* 57.
 8. – New York, in trade 1951.
 9. – Toderi list April 1970, 115.

- 273 O89** Die of 269–274.
R187 Similar crab; below young head r. Die of 273, 283.
1. 8.90 Coin Galleries MB 17.7, 1996, 1341; Naville 4, 1922, 202.
 2. 8.61 8 Comiso hoard; Boehringer, Comiso 85; NAC 9, 1996, 131; Lanz 22, 1982, 70.
 3. 8.61 7 Prag (H5–25741).
 4. 8.58 4 Pennisi.
 5. 8.55 12 Cambridge, *SNG* IV, 910; Leake, *NH*, Sicily, p. 49.7.
 6. 8.53 G. Hirsch 227, 2003, 37.
 7. 8.51 7 *New York (1944.100.8199), *SNG ANS* 958.
 8. 8.49 Schulman 16.12.1926, 96.
 9. 8.42 11 Cambridge, *SNG* 911 (ex. Bunburry 260).
 10. 8.36 SBV 28, 1991, 33; G.Hirsch 17.11.1955, 483; MMAG in stock 1953. Traces of overstriking on *obv*.
 11. 8.30 1 Berlin (Dannenberg).
 12. 8.22 2 Munich, *SNG* 60.
 13. 8.17 Dorotheum 26.4.1961, 902; Egger 12.11.1913, 225.
 14. – Baranowsky stock cat. 1929, 1530a.
- 274 O89** Die of 269–274.
R188 Similar crab; very broad, square section between the eyes; below corn-grain.
1. 8.22 2 *New York (1957.172–507, H. Miller), *SNG ANS* 957.
- 275 O90** Small eagle standing l. Die of 275–282.
R189 Similar to R187; small young head below crab.
1. 8.81 7 *London, Lloyd *SNG* 797; Jenkins, *Gela*, pl. 37.16. *Rev. enl.* pl. 20.
 2. 8.73 8 Comiso hoard; Boehringer, Comiso 86.
 3. 8.69 5 Pennisi.
 4. 8.69 7 Munich, *Münchner Jahrbuch* 32, 1981, p. 209, no. 2, p. 210, fig. 2.
 5. 8.67 5 Syracuse (53418), Monteraci hoard, *AIIIN* 2, 1955, p. 73.9.
 6. 8.63 11 Formerly Proschowsky collection; Naville 5, 1923, 813. *Rev. enl.* pl. 20.
 7. 8.59 9 London, *BMC* 29; Salinas 142 (not ill.).
 8. 8.57 Naville 5, 1923, 812.
 9. 8.56 11 Comiso hoard; Boehringer, Comiso 87.
 10. 8.55 7 Syracuse (53419), Monteraci hoard, *AIIIN* 2, 1955, p. 73.10.
 11. 8.55 Miksche collection, Huddinge; CNG 34, 1995, 21; Coin Galleries MB 7.11.1990, 132.

- | | | | |
|-----|------|----|--|
| 12. | 8.53 | 6 | Pennisi. |
| 13. | 8.52 | 1 | Brussels (acq. 1908) |
| 14. | 8.51 | 3 | Enna. |
| 15. | 8.50 | 8 | Syracuse (13962, acq. 1894). |
| 16. | 8.50 | 4 | Naples Fiorelli 3926. |
| 17. | 8.48 | | Naville 6, 1924, 339; Schulman 16.12.1926, 95. |
| 18. | 8.47 | | Grabow in stock 1957; Sternberg in stock 1957. |
| 19. | 8.47 | 11 | Pennisi. |
| 20. | 8.45 | | St. Petersburg. |
| 21. | 8.44 | 11 | Berlin (Löbbecke 1906). |
| 22. | 8.44 | | Private collection X. |
| 23. | 8.40 | 11 | Naples Fiorelli 3927. |
| 24. | 8.38 | 5 | Cefalù. |
| 25. | 8.36 | | Cahn 66, 1930, 95. |
| 26. | 8.35 | 7 | Florence. |
| 27. | 8.35 | | Milan, Arslan 22. |
| 28. | 8.33 | | Argenor 14.4.2000, 6. |
| 29. | 8.30 | | Numismatica 13, 1976, 56; Dorotheum 26.4.1961
(Hollschek XIII), 907; Egger 26.11.1909, 101. |
| 30. | 8.30 | 1 | Paris (FG 50); Salinas 142, pl. 6.22. |
| 31. | 8.27 | 6 | Spink <i>NCirc.</i> Nov. 1974, 8906. |
| 32. | 8.20 | | Elsen 13, 1989, 16; do. MB 10, 1988, 25; do. 8, 1987,
26; do. 6, 1986, 27. |
| 33. | 8.15 | | New York (86.78.903, J.P. Rosen). |
| 34. | 8.01 | | Private collection X; Baranowsky stock cat. 1934, 4615. |
| 35. | 7.54 | | In trade 1976. |
| 36. | – | | de Nicola list March 1966, 150. |
| 37. | – | | New York in trade 1951. |
| 38. | | | Ognina hoard; Boehringer, Ognina 11. |
- Rev.* Flaw across crab's legs. l. side: 7, 8, 17, 18, 25, 28, 37.

276 O90 Die of 275–282.

R184 Die of 267, 276, 285.

- | | | | |
|----|------|----|---|
| 1. | 8.85 | 11 | Peus 380, 2004, 153; Sternberg in stock 1957; Grabow
in stock 1957; Münzhandlung Basel 4, 1935, 411; Ratto
24.6.1929, 59. |
| 2. | 8.82 | 12 | Stuttgart (MK 1850 A 363). |
| 3. | 8.76 | | Athena 3, 1990, 35; Lanz 16, 1979, 38. |
| 4. | 8.70 | 8 | Oxford, <i>SNG</i> 1661; Kraay, <i>ACGC</i> , pl. 1:18. |
| 5. | 8.64 | | Kölner Münzkabinett 18.11.1993, 6. |
| 6. | 8.62 | 7 | Stockholm (gift 1997), <i>SNG</i> –. Westermark, <i>SM</i> , p. 87,
fig. 4. |

- | | | | |
|-----|------|----|--|
| 7. | 8.60 | 10 | München <i>SNG</i> 51. |
| 8. | 8.59 | 12 | Winterthur, Bloesch 569. |
| 9. | 8.58 | | *NFA 7, 1979, 43; do. MB 10, 1978, 143a. |
| 10. | 8.57 | 1 | Hess 219, 1933, 32. |
| 11. | 8.47 | 11 | Münster. |
| 12. | – | | de Nicola list March 1966, 152. |

277 O90 Die of 275–282.

R190 Similar crab; r. claw bent in sharp angle; below corn-grain.

- | | | | |
|----|------|----|--|
| 1. | 8.70 | 11 | *Formerly Pennisi; MMAG list 377, 1976, 3. |
| 2. | 8.32 | | Auctiones 29, 2003, 500; Kurpfälzische Münzhandlung 6, 1974, 21; MMAG/Poindessault 3.12.1973, 111. |

278 O90 Die of 275–282.

R191 Large crab. Die of 278, 284.

- | | | | |
|----|------|--|--|
| 1. | 8.10 | | *G. Hirsch 234, 2004, 56; Dorotheum 26.4.1961 (Hollschek 13), 899. |
|----|------|--|--|

279 O90 Die of 275–282. Crack through second letter A extending to eagle's body.

R192 Similar large crab; below CAΣ. Die of 279, 286.

- | | | | |
|-----|------|----|---|
| 1. | 8.94 | 2 | New York (1944.100.8200), <i>ANS SNG</i> 961. |
| 2. | 8.78 | 10 | Formerly Pennisi; MMAG 52, 1975, 62; Hamburger 98, 1933, 139. |
| 3. | 8.73 | 4 | Dewing 553 (ex. Robinson, from Spink's 1917); Hirsch 34, 1914, 117. |
| 4. | 8.70 | 5 | Syracuse (31227), Monte Bubbonia hoard. |
| 5. | 8.65 | 11 | London, <i>BMC</i> 33. |
| 6. | 8.62 | 12 | Comiso hoard; Boehringer, Comiso 88. |
| 7. | 8.58 | 12 | *London (1949.4.11.149, Mavrogordato); Jenkins, <i>Gela</i> , pl. 37.17; Gorini, <i>Studi Breglia</i> I, p. 65, fig. A. |
| 8. | 8.49 | 5 | Berlin (Dannenberg). |
| 9. | 8.39 | 6 | Munich, <i>SNG</i> 64. |
| 10. | 8.35 | | St. Petersburg. |
| 11. | 8.29 | | Kölner Münzkabinett 46, 1988, 2032; Baldwin in stock 1952. |
| 12. | 8.25 | | Dorotheum 26.4.1961 (Hollschek XIII), 901. |
| 13. | 8.16 | 3 | Paris (FG 49), Babelon, <i>Traité</i> pl. 78.11; Salinas 137, pl. 6.17(<i>obv</i>). |
| 14. | – | | Bruun Rasmussen 498, 1987, 3016. |
| 15. | – | | Baranowsky stock cat. 1929, 1530b. |

- 280 O90** Die of 275–282. Same flaw as last.
R193 Die of 280, 287, 288.
- | | | | |
|----|------|---|---|
| 1. | 8.58 | | Berk MB 110, 1999, 108. |
| 2. | 8.50 | 3 | *Vienna (6287). |
| 3. | 8.30 | 6 | Vatican (cat.10). Much worn. Scratches. |
| 4. | – | | Comiso hoard; Boehringer, Comiso 89. |
- 281 O90** Die of 275–282. Worn die.
R194 Similar. Die of 281, 289.
- | | | | |
|----|------|---|--------------------------------------|
| 1. | 8.30 | 9 | *Vienna (6294). |
| 2. | – | | Unknown provenance (cast). |
| 3. | – | | Comiso hoard; Boehringer, Comiso 90. |
- 282 O90** Die of 275–282. Worn die, die break expanding across eagle's body into r. field.
R195 Similar. Die of 282, 290.
- | | | | |
|-----|------|----|--|
| 1. | 8.77 | | Private collection, South Germany. |
| 2. | 8.65 | 4 | Pennisi |
| 3. | 8.58 | 2 | Berlin (B1167, Guérard). |
| 4. | 8.58 | 1 | Pennisi. |
| 5. | 8.53 | | Monetarium list 62, 1994, 31. |
| 6. | 8.48 | 12 | Syracuse, Casulla hoard. |
| 7. | 8.44 | | *Private collection X; Ratto stock cat. XI, 1934, 990. |
| 8. | 8.30 | 6 | Formerly private collection, Sicily. |
| 9. | 8.26 | | Dresden (469). |
| 10. | 8.09 | | Formerly Hammerich collection. |
| 11. | 8.07 | 7 | New York (1906.26.2. Lathrop), <i>SNG ANS</i> 953. |
| 12. | – | | Princeton University Art Museum (55–104), Dan Fellow Platt collection. |
| 13. | – | | New York in trade 1951. |
- 283 O91** Small eagle of compact shape with short neck and slightly lifted head standing r. Die of 283–287.
R187 Die of 273, 283.
- | | | | |
|----|------|---|--|
| 1. | 8.92 | | Boston, Baldwin Brett 229; Warren 195. |
| 2. | 8.82 | | Glasgow, <i>Hunter</i> .12. |
| 3. | 8.68 | 7 | Stockholm (<i>Smith</i> 24), <i>SNG</i> 373; Riechmann list May 1921, 147. |
| 4. | 8.62 | 7 | *Copenhagen, <i>SNG</i> 37 (ex. Christian VIII, acq. Naples 1828). Rev. enl. pl. 20. |
| 5. | 8.60 | 7 | Syracuse, Casulla hoard. |
| 6. | 8.60 | 7 | Vienna (6292). |

- | | | | |
|-----|------|----|--|
| 7. | 8.54 | 8 | Berk 119, 2001, 146; Leu 79, 2000, 326; Ratto in stock 1957 (ex. private collection, Italy). |
| 8. | 8.52 | 11 | Cambridge <i>McClean</i> 2034, pl. 65.5. |
| 9. | 8.52 | 3 | *London (1947.4.6.130, Oman). |
| 10. | 8.49 | 8 | Berlin (B18109). |
| 11. | 8.45 | 10 | Paris (FG 51). |
| 12. | 8.42 | | Astarte 11, 2002, 160. |
| 13. | 8.41 | | Auctiones 18, 1989, 528; Müller 31, 1981, 14; Naville 1 Pozzi, 1920, 368. |
| 14. | 8.40 | 12 | Krefeld-Linn, Heynen collection, Franke & Paar 15; Naville 5, 1923, 814. |
| 15. | 8.40 | | St. Petersburg; Rosenberg 79, 1934, 877; do. 72, 1932, 158 (8.45). Cahn 66, 1930, 96; Ratto 24.6.1929, 66. |
| 16. | 8.37 | 4 | Syracuse, Casulla hoard. |
| 17. | 8.34 | | Glasgow, <i>Hunter</i> 13. |
| 18. | 8.32 | | Stuttgart (MK 1991/92, ex. Krüger collection). |
| 19. | 8.29 | 11 | Oslo (gift Woxen). |
| 20. | 8.16 | 12 | Pennisi. |
| 21. | 8.13 | | Milan, Arslan 21. |
| 22. | 7.75 | | Dresden (467). |
| 23. | – | | Formerly Moretti; Canessa 12.6.1928, 487. |
| 24. | – | | New York in trade 1951. |

284 O91 Die of 283–287.
R191 Die of 278, 284.

- | | | | |
|-----|------|----|--|
| 1. | 8.76 | | Cahn 75, 1932, 149; Helbing 24.10.1927, 2626; do. 22.3.1926, 29. |
| 2. | 8.70 | 2 | Comiso hoard; Boehringer, Comiso 91. |
| 3. | 8.60 | | *Formerly private collection, Germany; Hirsch 32, 1912, 24. |
| 4. | 8.55 | 9 | Comiso hoard; Boehringer, Comiso 92. |
| 5. | 8.54 | | Palermo. |
| 6. | 8.44 | | G. Hirsch 220, 2002, 1142. <i>Obv.</i> Partly off flan. |
| 7. | 8.38 | 12 | Syracuse (24765, acq. 1905). |
| 8. | 8.34 | | Vecchi 10, 1998, 102. |
| 9. | 8.30 | | Private collection X. |
| 10. | 8.27 | | Syracuse (53420), Monteraci hoard; <i>AJN</i> 2, 1995, p. 73.8. |
| 11. | – | | Hirsch, New York, in stock (ex. de Ciccio). |

- 285 O91** Die of 283–287.
R184 Die of 267, 276 285.
1. 8.62 11 Manchester, *SNG* VII, 369.
 2. 8.62 Locarno (Moretti bequest), Vismara, *Koinon* 5, 118.
 3. 8.46 G. Hirsch 191, 1996, 130; do. 187, 1995, 150; do. 184, 1994, 70; do. 179, 1993, 99.
 4. 8.22 1 Naples Fiorelli 3948.
 5. 8.04 *Ahlström 19, 1979, 906.
- 286 O91** Die of 283–287.
R192 Die of 279, 286.
1. 8.69 9 *London, *BMC* 35; Salinas 136, pl. 6.16.
 2. 8.65 Private collection X; Ratto stock cat. XI, 1934, 1007.
 3. 8.63 12 Oxford (Godwyn), *SNG* 1663.
 4. 8.35 Palermo.
- 287 O91** Die of 283–287.
R193 Die of 280, 287, 288.
1. 8.71 Blancon list 9, 1991, 86; do. list 8, 1990, 109; do. list 4, 1987, 11; Kurpfälzische Münzhandlung 29, 1985, 15; G. Hirsch 137, 1983, 11 (8.65g); Peus 300, 1980, 53.
 2. 8.69 Padua.
 3. 8.61 *Glasgow, *Hunter* 8.
 4. 8.29 St. Petersburg.
 5. – New York, in trade 1951.
 6. – SBV list Summer 1990, 3.
- 288 O92** Slender eagle with slightly lifted head, standing. Die of 288–291.
R193 Die of 280, 287–288.
1. 8.91 MMAG 47, 1972, 413.
 2. 8.87 10 Comiso hoard; Boehringer, Comiso 93.
 3. 8.73 3 *Lockett *SNG* 700; Glendining 25.10.1955, 584.
 4. 8.62 Santamaria 24.1.1938, A76.
 5. 8.54 10 Blackburn, Hart collection, *SNG* VIII, 138.
 6. 8.39 UBS 53, 2002, 20.
 7. 8.36 Spink *NCirc.* Dec. 1979, 11148.
 8. 8.20 Pegasi Coins list 127, 2002, 49; do. list 122, 2001, 45.
 8. 8.19 MünzZentrum 53, 1984, 1465.

- 289 O92** Die of 288–291.
R194 Die of 281, 289, 292.
1. 8.54 6 *Bruun Rasmussen 464, 1984, 5.
 2. 8.41 Baldwin in stock 1952.
 3. 8.32 Pegasi Coins MB 20, 52.
 4. 8.24 G. Hirsch 145, 1985, 21; Dorotheum 416, 1982, 2.
- 290 O92** Die of 288–291.
R195 Die of 282, 290.
1. 8.54 Cambridge, Corpus Christi College, Lewis collection, SNG 287 (ex. Sotheby 21.1.1874, 337).
 2. 8.51 *Pennisi.
 3. 8.48 Palermo.
 4. 8.20 11 Blackburn, Hart collection, *SNG* 137.
 5. – Sotheby 11.1.1978, 47.
- 291 O92** Die of 288–291, letters beginning to crack on l. side.
R196 Similar crab.
1. 8.73 CNG/NAC 40, 1996, 724.
 2. 8.73 *Private collection X.
 - 2a. 8.72 Private collection CC, 37.
 3. 8.60 6 London (Payne-Knight).
 4. 8.50 Arsantiqva 4, 2003, 69.
 5. 8.48 2 Münzhandlung Basel 4, 1935, 410; MMAG in stock 1960.
 6. 8.47 Naville 5, 1923, 808.
 7. 8.42 7 New York, *SNG ANS* 951, Sicily 1927–1928 hoard, *IGCH* 2073.
 8. 8.42 5 Basel, Hist. Mus.
 9. 8.39 8 Syracuse, Casulla hoard.
 10. 8.32 6 Paris (FG 52), Babelon, *Traité*, 2325, pl. 78.9 (8.36).
 11. 8.19 1 Manchester, *SNG* VII, 367.
 12. 8.11 5 Stockholm (*Smith* 26), *SNG* 372.
 13. 8.09 Galerie Frankfurt/M 1, 1970, 1.
 14. – Glendining/Seaby 15.7.1929, 178.
- 292 O93** Ethnic in large letters; larger eagle standing r. Die of 292–295.
R194 Die of 281, 289, 292.
1. 8.68 9 *Syracuse, Casulla hoard.
 2. 8.66 6 New York (1947.2.258, Field), *SNG ANS* 955.
 3. 8.54 MünzZentrum 54, 1985, 47.
 4. 8.53 7 New York (1984.65.20, J.P. Rosen).

- | | | | | |
|------------|-------------------------|---|----|---|
| | 5. | 8.43 | 12 | Berlin (B6795). |
| | 6. | 8.43 | 9 | Formerly New York. |
| | 7. | 8.37 | | G. Hirsch 218, 2001, 65. <i>Obv.</i> Eagle partly off flan. |
| | 8. | 8.29 | 7 | Manchester, <i>SNG</i> VII, 368; Winkel 22.7.1977, 2509. |
| | 9. | 8.18 | 12 | Baranowsky in stock 1951. |
| | 10. | 8.12 | | St. Petersburg. |
| 293 | O93 | Die of 292–295. | | |
| | R197 | Similar square crab. | | |
| | 1. | 8.76 | 12 | *New York (1957.172.506, Hoyt Miller), <i>SNG ANS</i> 954. |
| | 2. | 8.61 | | Auctiones 25, 1995, 69. |
| | 3. | 8.57 | 6 | Pennisi. |
| | 4. | 8.56 | | Athens. |
| | 5. | 8.54 | | Lanz 48, 1989, 63; do. 36, 1986, 54. |
| | 6. | 8.46 | 6 | Berlin (Löbbecke 1906). |
| | 7. | 8.38 | 11 | Oslo. |
| | 8. | 8.32 | 10 | Naples, Fiorelli 3942. |
| | 9. | 8.20 | | Düsseldorf University (1981:2090); Müller 18, 1976, 12; do.16, 1976, 10; G. Hirsch 34, 1963, 1141; Dorotheum 26.4.1961 (Hollschek XIII), 905. |
| | 10. | 7.98 | 3 | Formerly New York; Coin Galleries/ <i>The Num. Review</i> vol. 13.2, 1972, B22. |
| 294 | O93 | Die of 292–295. | | |
| | R198 | Similar crab with sharply bent claws; below female head r. | | |
| | 1. | 8.77 | 3 | München, <i>SNG</i> 59; Hirsch 19, 1907, 100 |
| | 2. | 8.49 | | Ars Classica 13, 1928, 191; Jenkins, <i>Gela</i> , pl. 37.19. |
| | 3. | 8.47 | 2 | Berlin (Rauch). |
| | 4. | 8.34 | 1 | Formerly private collection, Germany; Hess 236, 1939, 214; Cahn 60, 1928, 175 (8.45). |
| | 5. | 8.30 | 3 | *Syracuse (4933); Rizzo pl. I.10 (<i>rev.</i>). |
| | 6. | 8.27 | | CNG 39, 1996, 259; Helbing 8.11.1928, 3501. |
| | 7. | 8.15 | 3 | Oxford (Newell 1978). |
| | 8. | 8.00 | | Ratto 9.10.1934, 46. |
| | 9. | – | | Formerly Pennisi; Salinas 141, pl. 6.21 (<i>obv.</i>). |
| 295 | O93^{1?} | Probably O93 in worn state with eagle's head and ethnic re-engraved; no tail visible. The flaw on eagle's back seems to be the same as on 294.5 | | |
| | R199 | Crab with broad upper part; long claw on r. side. | | |
| | 1. | 8.20 | 6 | Vienna (6286). Much worn. <i>Rev.</i> Uncertain. |
| | 2. | 8.18 | 7 | *Naumann collection, Küsel. |

- 296 O94** Ethnic faintly visible; eagle with thick neck standing r.
R200 Crab with thin legs and long pincers.
 1. 8.70 *Braunschweig.

297 (Non est.)

Period II

Tetradrachms Eagle/crab

Obv. dies 20; *rev.* dies 96; die combinations 143

Group I. *Obv.* Ethnic AKRACANTOΣ around eagle

- 298 O1** Eagle standing l. with head slightly lifted; large, round eye; feathers on the body indicated by oval dots, on the upper part of the wing by large dots and on the lower part by parallel striations in two layers. Feet form wavy line (mostly off flan). Die of 298–307.
- R1** Large, trilobed crab with drop shaped eyes in lined recesses; radiating legs; r. claw bent close to the body. Die of 298, 310.
1. 17.40 Himera 1984 hoard; Mid-American Rare Coin Auctions 15.2.1985, 559
 2. 17.29 10 *London (1918.2.4.45, Ford).
 3. 17.23 Ciani-Vinchon 6.2.1956, 171; Feuardent 17.12.1919, 75; Hirsch 16, 1906, 206.
 4. 17.10 MMAG list 582, 1995, 7.
 5. 17.09 7 London, Lloyd *SNG* 802. *Obv.* Eagle's head tooled.
 6. 17.00 Coin Galleries MB 20.4.1961, 71; Baldwin in stock 1952; *Ars Classica* 12, 1926, 667; Sotheby 9.3.1936, 6; do. 20.7.1914, 7.
 7. 16.92 11 New York (1957.172.510, Hoyt Miller), *SNG ANS* 968.
 8. 16.62 Malibo, Getty Museum; Myers 13, 1976, 57.
- Obv.* Flaw beginning to appear at letter K and below O: all. Other small dotted flaws at letters A (second) and N on most coins.
- 299 O1** Die of 298–307. Same flaws.
R2 Similar. Die of 299, 313.
 1. 17.38 3 *Cefalù.
Rev. Long, thin die break from lowest pair of legs, l. side. Small die break on crab's shell above on r. side.

- 300 O1** Die of 298–307. As last.
R3 Large, trilobed crab with drop-shaped eyes in perled recesses; upper part of crab's shell has dotted border; radiating legs; long claws.
1. 17.27 7 *New York (1905.57.41, Parish) *SNG ANS* 969.
 2. 17.23 7 Berlin (Imhoof-Blumer 1900); Salinas 99, pl. 5.8.
 3. 17.05 Berk 115, 2000, 192.
 4. 17.04 Baldwin in stock 1952. *Obv.* much worn.
 5. 17.00 G. Hirsch 154, 1987, 52; Künker list 77, 1987, 307.
 6. 16.68 11 Pennisi (corroded).
- 301 O1** Die of 298–307. As last.
R4 Similar trilobed crab. Die of 301, 311, 314.
1. 17.17 5 *Syracuse (22158, acq. 1902).
 2. 16.96 Vedrines 27.3.1990, 12; *Ars Classica* 16, 1933, 416 (17.00).
 3. 16.91 Coin galleries/ *The Numis. Review*, New series vol. 1.1, 1977, A63.
 4. 16.75 Ratto stock cat. 1926, 14.
 5. 16.71 Pegasi Coins list 105, 1998, 39; do. 100, 1997, 51.
 5. 16.67 Glasgow, *Hunter* 18.
- 302 O1** Die of 298–307. As last.
R5 Similar large and broad trilobed crab with long legs.
1. 17.27 Stack's 4.12.1976, 26.
 2. 17.25 9 Munich, *SNG* 66.
 3. 16.67 *NFA 27.6.1986, 85; Helbing 8.11.1928, 3504; Ratto 26.4.1909 1101 (16.75). *Obv.* Corroded.
 4. 16.47 Rauch 69, 2002, 41.
- 303 O1** Die of 298–307. More worn, same flaws.
R6 Similar trilobed crab. Die of 303, 312.
1. 17.30 Sotheby 12.5.1983, 94; Ratto stock cat. XI, 1934, 1008; Rosenberg 64, 1928, 1390 (17.40).
 2. 17.27 9 *Harvard, Dewing 555 (ex. E.P. Robinson 1941).
Rev. Two flaws in field above: all.
- 304 O1** Die of 298–307. As last.
R7 Similar. Die of 304, 309, 315.
1. 17.35 10 *Budapest *SNG* 18.

- 305 O1** Die of 298–307. As last.
R8 Similar large trilobed crab; thick claws and legs. Die of 305, 316.
 1. 17.30 3 Winterthur, Bloesch 565.
 2. 17.30 *Dorotheum 26.4.1961 (Hollschek XIII), 891.
 3. 17.23 Ratto 9.10.1934, 48; Delmonte 24.4.1933, 26; Helbing
 24.10.1927, 2629; Naville 5, 1923, 817.
 4. 17.11 Milan, Arslan 34.
Rev. Dotted flaw below crab, r. side: 2, 3, 4.
- 306 O1** Die of 298–307. As last.
R9 Similar.
 1. 17.41 *Syracuse (53412), Monteraci hoard; *AIIIN* 2, 1955,
 p. 72.1, pl. 6.1.
- 307 O1** Die of 298–307. As last.
R10 Similar. Die of 307, 308.
 1. 17.29 5 Munich, *SNG* 65.
 2. 16.97 *Private collection X
 3. 16.67 8 Palermo; Salinas 100, pl. 5.9 (*rev.*).
- 308 O2** Similar longlegged eagle. Die of 308–312.
R10 Die of 307, 308.
 1. – *Sotheby 7.5.1975, 38; Bourgey 14.6.1932, 14.
- 309 O2** Die of 308–312.
R7 Die of 304, 309, 315.
 1. 16.99 7 *Leu in stock 1954.
- 310 O2** Die of 308–312, now with small dotted flaws at eagle's back and thin
 fractures between the letters of the ethnic.
R1 Die of 298, 310.
 1. 17.15 *MMAG list 218, 1962, 1; Ratto 24.6.1929, 70; do.
 stock cat. 1926, 15.
 2. 16.35 G. Hirsch 63, 1969, 2235; do. in stock 1964.
- 311 O2** Die of 308–312. Flaws as last; letter distorted by curved fracture.
R4 Die of 301, 311, 314.
 1. 17.40 7 Naples Santangelo 7322.
 2. 17.24 *Syracuse, Gagliardi (542); Ratto 4.4.1927. 335;
 Sotheby 20.12.1920, 38; do. 8.5.1916, 95; do 24.4.1907,
 42.

- 312 O2** Die of 308–312. As last.
R6 Die of 303, 312.
 1. 17.10 *Salton 2.2.1954, 5; do. in stock 1952; Schulman 7.6.1937, 88; do. 8.6.1931, 48 (17.20).
- 313 O3** Similar eagle with short neck and broad body. Die of 313–316.
R2 Die of 299, 313. Same flaws.
 1. 17.14 12 *Copenhagen, *SNG* 42.
- 314 O3** Die of 313–316. Worn die.
R4 Die of 301, 311, 314. Worn die.
 1. 17.20 Clerici 1.3.1910, 290.
 2. 16.40 10 *Paris (FG 37).
Rev. Thin crack in field below.
- 315 O3** Die of 313–316. As last.
R7 Die of 304, 309, 315.
 1. 17.30 *Frey 15.4.1955, 991; Santamaria 7.3.1910, 541.
- 316 O3** Die of 313–316.
R8 Die of 305, 316.
 1. 17.08 3 *Berlin (Imhoof-Blumer 1900); Salinas 101, pl. 5.10 (*obv.* Head of eagle improved on the plate).
- 317 O4** Eagle with long legs and projecting breast standing l.; head with strong beak and round eye, slightly lifted; feathers on the body indicated by small dots; on the wing by four rows of large dots above and two layers of striations on the lower part of wing. Die of 317–322.
R11 Small trilobed crab with eyes in deep lined recesses; short, thick claws.
 1. 17.40 Syracuse, Gagliardi (380).
 2. 17.36 Randazzo hoard, Arnold-Biucchi, *Randazzo* 11.
 3. 17.33 Christie's 25.4.1989, 509.
 4. 17.24 7 *Private collection, Sweden; Bruun Rasmussen 16.6.1976, 74 (ex. F. Wilcke).
 5. 17.02 Cahn 80, 1933, 78.
 6. 16.98 Private collection X.
 7. 16.92 Lanz (Graz) 10, 1977, 52; Cahn 27, 1911, 85.
 8. 16.90 Sambon-Canessa 27.6.1927, 647.
 9. 16.83 Seaby Bulletin 732, August 1979, C786; do. 720, August 1978, C772.

10. 16.72 4 London, *BMC* 37.
 11. 16.42 3 Budapest (2.1933.1), *SNG* 22; Egger 40, 1912, 317. *Rev.*
 Weekly struck.
 12. 16.20 7 Leipzig, *SNG* 356.
Rev. Small flaws in field below and above: 4, 6–8.

318 O4 Die of 317–322.**R12** Similar trilobed crab. Die of 318, 330.

1. 17.46 3 CNG 33, 1995, 109; Lockett, *SNG* 690; Glendining
 25.10.1955, 574.
 2. 17.31 MMAG 32, 1966, 30.
 3. 17.29 Frankfurt/Main (380), Förschner 379.
 4. 17.29 7 Syracuse (5430).
 5. 17.25 Vecchi & Sons 10.10.1983, 59; Kunst und Münzen list
 23, 1982, 53.
 6. 17.18 *Sternberg 20, 1988, 175; G. Hirsch 159, 1988, 74.
 7. 16.82 5 Florence.

Rev. Thin die break diagonally across crab's shell: 1–2, 4.**319 O4** Die of 317–322.**R13** Similar.

1. 17.38 5 Grabow in stock 1957 (ex. Nägeli collection).
 2. – Princeton University Art Museum (55.106, Dan Fellow
 Platt).
 3. – *Feuardent 9.6.1913, 83; Bourgey 14.4. 1910, 37.

320 O4 Die of 317–322, more worn.**R14** Similar trilobed crab with perled outlines. Die of 320, 329.

1. 16.45 *NAC-L, 2001, 1135.

321 O4 Die of 317–322, more worn.**R15** Similar.

1. 17.55 MMAG list 118, 1952, 1.
 2. 17.17 10 *Lisbon, *Gulbenkian* 160 (ex. Hirsch 1928).

Rev. Crack below crab: 2.**322 O4** Die of 317–322, as last.**R16** Similar trilobed crab.

1. 17.24 Gans in stock 1954.
 2. 17.20 9 *Vecchi 5, 1997, 86 (17.12); formerly Dewing
 collection; Naville 6, 1923, 335.

- | | | | | | |
|------------|------------|---|---------|----|---|
| | | 3. | 17.05 | | Hamburger 96, 1932, 35a. |
| | | 4. | 17.01 | | Lanz (Graz) 10, 1977, 51. |
| | | 5. | 16.90 | | Padova. |
| | | 6. | 16.85 | 5 | Syracuse (62923), Centuripe hoard. |
| | | 7. | 16.66 | 11 | Formerly private collection, Germany. |
| | | 8. | 16.64 | | Sotheby 8.10.1992, 1019. |
| | | 9. | 16.59 | 4 | Cambridge <i>McClean</i> 2019. |
| | | 10. | – | | Stack's 5.3.1971, part 1, 95. |
| 323 | O5 | Eagle of similar style with protruding breast and strongly bent beak;
Three rows of dots on wing; small letters in legend. Die of 323–326. | | | |
| | R17 | Similar trilobed crab. | | | |
| | | 1. | 17.31 | 9 | Berlin (Imhoof-Blumer 1900); Salinas 98, pl. 5.7. |
| | | 2. | 17.14 | | Egger 45,1913, 230. |
| | | 3. | 16.96 | 12 | Hess 251, 1981, 15; Leu in stock 1954. |
| | | 4. | 16.68 | | Auctiones 29,2003,51; do. 25, 1995, 74. |
| | | 5. | 16.64 | 3 | Oxford (Oman 1947). |
| | | 6. | (15.82) | | *Vinchon 26.4.1999, 45; Sotheby 8.10.1975, 8. Piece missing. |
| | | <i>Rev.</i> Small cracks in fields above and below: 7. | | | |
| 324 | O5 | Die of 323–326. | | | |
| | R18 | Similar trilobed crab. | | | |
| | | 1. | 17.30 | | Galerie des monnaies 25.7.1981, 1005. |
| | | 2. | 16.88 | 11 | *Coburg. |
| | | 3. | 16.70 | 12 | Grabow in stock 1957 (ex. Nägeli collection);
Hamburger 27.5.1929, 95. |
| | | 4. | 14.23 | 2 | Cefalù. Corroded. |
| 325 | O5 | Die of 323–326. | | | |
| | R19 | Similar trilobed crab. | | | |
| | | 1. | 17.37 | 12 | Berlin (Löbbecke 1906). |
| | | 2. | 17.38 | | Frankfurt/Main (381), Förschner 380. |
| | | 3. | 17.29 | 7 | Strandberg in stock 1976. |
| | | 4. | 17.28 | | Egger 26.11.1909. 94. |
| | | 5. | 17.23 | 5 | Pegasi Coins list 112, 1999, 45; Leu list Autumn 1998,
15; Peus 340, 1994, 101; Hess in stock 1952; Gans in
stock 1954. |
| | | 6. | 17.19 | 10 | Parma (1264). |
| | | 7. | 17.15 | 1 | *Naples Santangelo 7321. |
| | | 8. | 16.44 | 11 | Private collection, Sweden; Wruck in stock 1952. |

- 326 O5** Die of 323–326.
R20 Large, trilobed crab.
 1. 17.10 *CNG/NAC MB 40, 1996, 726.
 2. 17.06 SBV 29, 1992, 25.
 3. 16.89 Athens.
- 327 O6** Eagle of different style standing l; slender body, long legs and neck.
 Die of 327–330.
R21 Trilobed crab with short, thick claws; upper part of crab's shell has dotted border; drop-shaped, diagonally placed eyes.
 1. 17.28 2 *Berlin (Fox 1873).
Obv. Dotted flaw at letter A, l.side.
- 328 O6** Die of 327–330.
R22 Crab's shell has rounded sides and broad bottom; drop-shaped eyes in curved recesses separated by broad, square section; short open claws.
 Die of 328, 331, 346.
 1. 17.62 12 Palermo; Salinas 95, pl. 5.4 (*obv*).
 2. 17.30 4 Baranowsky (Rome) in stock 1951.
 3. 17.16 5 *New York (1944.100.8203), *SNG ANS* 966; Sambon-Canessa 27.6.1927, 641; *Ars Classica* 12, 1926, 669.
 4. 16.92 Auctiones 25, 1995, 73.
Obv. Same flaw as last: all.
Rev. Dotted flaw between lower pairs of legs, l. side: 1, 2, 4 (3 off flan).
- 329 O6** Die of 327–330.
R14 Die of 320, 329.
 1. 17.40 *Dresden (471).
 2. 17.33 11 New York (1941, 153.223, Beatty), *SNG ANS* 967.
 3. 17.22 NAC-D, 1994, 1217.
 4. 17.19 CNG 53, 2000, 93 (ex. Marian S. Sinton); Himera 1984 hoard, Mid-American Rare Coin Auctions, 15.2.1985, 558.
 5. 17.10 7 Seaby *Bull.* 499, December 1959, A1110; Baldwin in stock 1952; Helbing 17, 1934, 116; do. 9.12.1932, 493.
 6. 16.79 Bourgey 5.12.1977, 24; Platt 5, 1921, 29.
 7. 16.65 Formerly private collection, Sicily.
 8. – Sotheby 3.12.1981, 13.
Obv. Same flaw as last: all. Flaw at eagle's back appearing: 2, 3, 5.

- 330 O6** Die of 327–330.
R12 Die of 318, 330.
 1. 17.48 *Peus 351, 1997, 44; Rauch 57, 1996, 34.
 2. 17.07 Ars Classica 15, 1930, 269. *Rev.* Corroded.
Obv. Same flaw as last: all.
- Group II
- 331 O7** Similar eagle with richly feathered legs standing l. on thin, wavy line; the feathers on the wing have a furry effect; large letters in legend. Die of 331–336.
R22 Die of 328, 331, 346.
 1. 17.66 Cahn 66, 1930, 98; Helbing 12.4.1927, 1596.
 2. 17.53 1 *Paris (FG 38), Babelon, *Traité* pl. 78.2.
 3. 17.50 Manchester, *SNG* 370; Glendining 25.5.1938, 288.
 4. 17.41 New York sale I, 1998, 23.
 5. 17.30 MMAG 28, 1964, 33.
 6. 17.14 11 Oxford, *SNG* 1669; Kraay, *ACGC*, pl. 46.792; Tusa Cutroni, 1982, p. 29, fig. 6.
 7. 16.85 5 New York (1925.172.19, Warburg), *SNG ANS* 965.
Rev. Dotted flaw as on no. 328: all (6 off flan).
- 332 O7** Die of 331–336.
R23 Round crab with broad bottom; eyes wide apart in shallow recesses; asymmetrical legs, going upwards on l. side; the outlines of the shell are striated and the shell partly dotted; spiny pincers.
 1. 17.48 4 New York (1944.100.8202), *ANS SNG* 964.
 2. 17.41 Ars Classica 16, 1933, 413.
 3. 17.33 *London, Lloyd *SNG* 803.
 4. 17.05 Glendining 14, 1963, 105; Canessa-Nicola list Nov.1948, 50; Hamburger 98, 1933, 113.
 5. 17.00 Bourgey 1.12.1999, 20; Ratto stock. cat., 1934, 1010; do. 24.6.1929, 69.
 6. 16.97 Glendining-Seaby 15.7.1929, 176; Sambon-Canessa 27.6.1927, 640.
- 333 O7** Die of 331–336.
R24 Similar crab with dotted shell; asymmetrical legs, lifted on r. side; r.pincer open, l. pincer closed. Die of 333, 344.
 1. 17.61 *MMAG list 260, 1966, 2.
 2. 17.49 9 Spencer-Churcill *SNG* I.1, 29; Ars Classica 16, 1933, 411; do. 13, 1928, 194; Bourgey 14.12.1934, 38.

- | | | | |
|-----|-------|---|---|
| 3. | 17.36 | 7 | Cambridge, <i>SNG</i> 891; Sotheby 15.6.1896, 269. |
| 4. | 17.27 | | Egger 45, 1913, 227. |
| 5. | 17.24 | | Monetarium list 55, 1991, 13. |
| 6. | 17.21 | 1 | Berlin (Imhoof-Blumer). |
| 7. | 17.20 | | Locarno (Moretti Bequest), Vismara, <i>Koinon</i> 5, 119. |
| 8. | 17.06 | | Stack's 9.12.1991, 113; Superior 3.10, 1977, 904; Leu list Sicilia 1962, 8. |
| 9. | 16.93 | | Palermo; Salinas 93, pl. 5.2. |
| 10. | 16.80 | 4 | Munich, <i>SNG</i> 67. |
| 11. | 16.64 | | G. Hirsch 123, 1981, 2026; Riechmann 30, 1924, 206. |
| 12. | – | | Kress 155, 1972, 305; do. 123, 1962, 85; do. 120, 1961, 120a. |

334 O7 Die of 331–336.**R25**

Crab with curved and sloping sides and rounded broad bottom; eyes wide apart in shallow recesses, separated by a rounded section; curved legs, wide apart.

- | | | | |
|----|-------|--|---|
| 1. | 17.48 | | *Leu list Sicilia 1962, 9; Gans MB 16, 1960, 114; Helbing 12.4.1927, 1595; do. 22.3.1926, 28. |
| 2. | 17.40 | | NAC-G, 1997, 1070. |
| 3. | 17.30 | | Syracuse, Gagliardi (1055, ex. Pennisi). |
| 4. | 17.18 | | Sambon-Canessa 27.6.1927, 643. |
| 5. | 17.05 | | Paris (FG 31); Mionnet, pl. 62.1; Salinas 92, pl. 5.1. |
| 6. | – | | Seaby Bulletin 838, 1989, B4. |
| 7. | – | | Bourgey 14.5.1914, 30. |

Obv. Crack across part of letter N makes it look like a second A: 1, 3, 5. Salinas (note to no. 92) calls it a slip by the engraver, but it is in fact a die break.

Rev. Dotted flaw above the upper leg, l. side: all except 4.

335 O7 Die of 331–336.**R26**

Similar crab; eyes wide apart, separated by square section; legs closer together; short claws. Die of 335. 341.

- | | | | |
|----|-------|---|--|
| 1. | 17.27 | 7 | Syracuse (24391, acq.1904). |
| 2. | 17.25 | | *Dorotheum 26.4.1961 (Hollschek XIII), 890; Tellmann 45, 1961, 34. |
| 3. | 17.24 | | Randazzo hoard, Arnold-Biucchi, <i>Randazzo</i> 13. |
| 4. | – | | MMAG list 279, 1967, 1. |

- 336 O7** Die of 331–336.
R27 Round and broad crab; square section between the eyes; short claws.
 Die of 336, 337, 350.
1. 17.44 Milan, Arslan 32; Ambrosoli & Ricci, p. 249, fig. 91.
 2. 17.39 CNG 43, 1997, 114; Vecchi 5, 1997, 87; Kress 123, 1962, 86a; do. 118, 1961, 293.
 3. 17.14 6 *Cambridge, *McClean* 2021.
- Rev. Dotted flaw in field below beginning to appear: 1, 2.
- 337 O8** Die of 337–341.
R27 Die of 336, 337, 350.
1. 17.69 7 Vinchon 13.4.1985, 65 (ex. Pflieger collection, Brussels).
 2. 17.56 11 LHS 102, 2008, 56; Spink in stock 1952; Glendining 9.3.1931, 890.
 3. 17.46 Glasgow, *Hunter* 17, pl. XI.13.
 4. 17.46 Spink in stock 1952.
 5. 17.45 Hamburger 98, 1933, 118; Canessa 12.6.1928, 477 (= pl.7.476).
 6. 17.44 10 LHS 103, 2009, 48; Leu 15, 1976, 49; Glendining 27.9.1962, 37; Cahn 66, 1930, 97 (17.60).
 7. 17.44 Lanz 117, 2003, 100, do. 52, 1990, 72; Glendining 9.10.1989, 18.
 8. 17.42 Münzhandlung Basel 4, 1935, 414; Hess 219, 1933, 33; do. 194, 1929, 118; Hirsch stock cat. 1930, 45.
 9. 17.39 Athens, Postolaka 537.
 10. 17.39 12 Leu 86, 2003, 265.
 11. 17.35 Sambon-Canessa 27.6.1927, 645.
 12. 17.33 12 Hess-Leu 17.4.1957, 64; Platt 3.4.1933, 35.
 13. 17.33 Gans MB 16, 1960, 113.
 14. 17.30 Helbing 8.11.1928, 3506.
 15. 17.30 Ratto 4.6.1931, 37.
 16. 17.27 12 Agrigento (2103); *SNG* 93.
 17. 17.25 9 Oxford, *SNG* 1670.
 18. 17.16 5 Paris, Babelon, *Traité* pl. 78.4; Salinas 97, pl. 5.6.
 19. 17.20 Hess 236, 1939, 215.
 20. 17.16 Lanz 76, 1996, 117; do. 38, 1986, 88.
 21. 17.15 Hess 257, 1986, 46; Kress 109, 1958, 32; Helbing 24.10.1927, 2630; do. 12.4.1927, 1593.
 22. 17.14 6 Cambridge *SNG* IV, 893; Leake, *NH*, Sicily, p. 49.1; Sotheby 20.4.1846, 767.
 23. 17.14 7 *Lisbon, *Gulbenkian* I, 158 (ex. Hirsch 1922).
 24. 17.12 3 Naples Fiorelli 3911.

- | | | | |
|-----|-------|----|---|
| 25. | 17.12 | | Hamburger 98, 1933, 119; Glendining 9.3.1931, 889. |
| 26. | 17.11 | 11 | Winterthur, Bloesch 564. |
| 27. | 17.03 | | New York (97.048, Leggett. From J. Hirsch, ex. de Ciccio); Ratto (Lugano) 24.6.1929, 71. |
| 28. | 16.92 | | CNG 41, 1997, 161. |
| 29. | 16.84 | 7 | Formerly Stöcklin collection, Amriswil. |
| 30. | 16.83 | | Formerly private collection, Hamburg. Corroded. |
| 31. | 16.81 | | G. Hirsch 177, 1993, 82. |
| 32. | 16.66 | | London, Lloyd <i>SNG</i> 800, Selinunte hoard, <i>NC</i> 1925, pl. 10.1; CB 76. |
| 33. | 16.48 | | <i>Tooled</i> . Private collection X; Hamburger 98, 1933, 115 (16.54); same ex. but not tooled Sambon-Canessa 27.6.1927, 646 (16.75). |
| 34. | 16.43 | 3 | Stockholm (<i>Smith</i> 28), <i>SNG</i> 375. |
| 35. | – | | Baranowsky list 1934, 4611b; Canessa 12.6.1928, 474. |
| 36. | – | | Nicola list Sept. 1961, 176; Baranowsky stock cat. 1934, 4611a. |
| 37. | – | | Canessa 12.6.1928, 475. |
| 38. | – | | Christies (Roma) 21.10.1983, 29. |
| 39. | – | | Santamaria list 7, 1934, A71. |
| 40. | – | | Ramacca/Mineo 1970 (?) hoard, Manganaro, <i>RIN</i> , pl. 1.5. |

Obv. Flaw below letter K: all. Flaw between eagle's body and letter C beginning to appear: 30.

Rev. Dotted flaw below crab: all. The flaw is sometimes thought to be a letter (*Gulbenkian* I 158 'flaw or letter (iota?)'). Thin crack below to l.: 3, 7, 13, 17, 19, 22, 27, 29, 30, 32, 38.

Note to 33. The coin has been heavily tooled. In the original state (Sambon-Canessa 1927, 646) the surface of the coin is damaged, on the obverse letters KR on r. side and all letters on l. side are obliterated; in Hamburger 1933, 115 the letters have been incorrectly repaired and flaws removed on both sides.

**338 O8
R28**

Die of 337–341.

Similar crab; eyes wide apart, separated by broad square section; thick, long claws; drooping legs fanlike spread out.

- | | | | |
|----|-------|---|--|
| 1. | 17.92 | | Syracuse, Gagliardi (564). |
| 2. | 17.58 | 7 | *New York (1944.100.8204, Newell), <i>SNG ANS</i> 970. |
| 3. | 17.46 | | Ars Classica 14, 1929, 82. |
| 4. | 17.41 | | MMAG 76, 1991, 670; Ars Classica 16, 1933, 414. |
| 5. | 17.37 | | Vinchon 18.5.1994, 1; Leu 57, 1993, 17; MMAG 8, 1949, 740. |

- | | | | |
|----|-------|---|---|
| 6. | 17.34 | | Rauch 42, 1989, 2874; Kunst und Münzen 26, 1988, 21. |
| 7. | 17.29 | 6 | Harvard, Fogg Art Museum, F.M. Watkins Collection 20. |
| 8. | 17.19 | 6 | Leu 30, 1982, 22 (ex. Gillet). |
| 9. | 17.03 | | Monetarium list 53, 1990, 25. |

Obv. Flaws below letter K and between eagle's body and letter C: all.
Letters on l. side elongated by die cracks: 5.

**339 O8
R29**

Die of 337–341. Worn die.

Triangular crab with rounded bottom; shell divided in small sections; short, thick claws; legs going upwards on both sides.

- | | | | |
|----|-------|---|---|
| 1. | 17.46 | | Schulman 256, 1973, 1129. |
| 2. | 17.10 | | Leu list Sicilia 1962, 10; Santamaria 6.4.1908, 138. |
| 3. | 16.85 | | G. Hirsch 20, 1959, 763; Coin Galleries FPL 20, 1959, A614. |
| 4. | 16.70 | 6 | *London (1904.1.1.1, Howorth). |
| 5. | 16.26 | 6 | Bologna. |
| 6. | – | | Formerly Pennisi. |

Rev. Very large, irregular flaw below crab: all.

**340 O8
R30**

Die of 337–341, more worn.

Broad crab; eyes wide apart, separated by broad square section; thick claws, close to body; legs stretched out on l. side. Die of 340, 354.

- | | | | |
|-----|-------|----|---|
| 1. | 17.59 | 5 | Berlin (Imhoof-Blumer 1900). |
| 2. | 17.54 | 10 | MMAG 62, 1986, 97; Hess-Leu 24.3.1959, 53; Ratto (Milan) in stock 1957. |
| 3. | 17.53 | 6 | Ognina hoard; Boehringer, Ognina 22, pl. 28. |
| 4. | 17.42 | | Sotheby 8.5.1916, 91; Merzbacher 2.11.1909, 2428. |
| 5. | 17.28 | 1 | Lisbon, <i>Gulbenkian I</i> , 159 (from Hirsch 1948); Jameson IV, 2413; Naville 16, 1933, 78. |
| 6. | 17.22 | 6 | New York (1946.89.23, Field), <i>SNG ANS</i> 971. |
| 7. | 17.19 | | *Randazzo hoard, Arnold-Biucchi, <i>Randazzo</i> 14, pl. 1. |
| 8. | 16.99 | 10 | Cambridge, <i>McClellan</i> 2018. |
| 9. | 16.98 | | Aarhus, Fabricius collection, <i>SNG</i> 182; Cook, II.1, p. 666, fig. 604 (<i>rev.</i>) |
| 10. | 16.93 | 10 | Catanzaro. |
| 11. | – | | Rasmussen 142, 1962, 171. |
| 12. | – | | Myers 1, 1971, 45. |

Obv. Same flaws as last.

**341 O8?
R26**

Die of 337–341. Attribution uncertain.

Die of 335, 341.

- | | | | |
|----|-------|--|---|
| 1. | 16.80 | | Rovereto, Orsi collection, Gorini 71. Poorly preserved. |
|----|-------|--|---|

- 342 O9** Eagle has broad body with curved back; feet entirely transformed into a wavy line. Die of 342–346.
- R31** Square crab with broad, rounded upper part; eyes separated by rounded section; short, thick claws; legs wide apart and fan-like spread out.
1. 17.66 Boston (11.1759), Baldwin Brett 221; Warren 188.
 2. 17.24 12 Baranowsky (Rome) in stock 1951.
 3. 17.21 *Hirsch 13, 1905, 270.
 4. 17.17 4 Palermo. Corroded.
 5. 16.91 11 Palermo.
 6. 16.67 10 Formerly private collection, Sicily. Corroded.
 7. 16.43 3 Hess-Leu 49, 1971, 37 (ex. Desneux collection, Brussels); Ratto 11.3.1933, 44; Baranowsky (Milan) 4, 1931, 290; Naville 13, 1928, 195; Sotheby 24.4.1907, 41; Evans, *NC* 1926, pl. 2.23a.
 8. 16.35 Myers 1, 1971, 46; Spink *NCirc.* Dec. 1969, 9771, fig. 15.
 9. – Formerly Pennisi; Salinas 94, pl. 5.3.
- 343 O9** Die of 342–346.
- R32** As last but larger body and longer claws.
1. 17.40 *Gans in stock 1954; Hess in stock 1952.
 2. 17.32 Peus 297, 1979, 29.
 3. 17.10 Egger 10.12.1906, 50.
 4. 16.98 4 Bologna; *Arte e Civiltà* no. 73, pl. 4.
 5. 16.89 Kölner Münzkabinett 27, 1980, 15.
 6. 16.56 Peus 353, 1997, 50; do. 351, 1997, 45.
 7. 16.48 Krefeld-Linn, Heynen collection, Franke & Paar 16, pl. I.
 8. 15.82 7 Syracuse (20521, acq. 1901). Poorly preserved.
 9. – Kress 168, 1977, 622; do. 165, 1976, 312; Baranowsky (Rome), stock cat. 1934, 4613; do. 1929, 1529a.
 10. – Ciani 14.5.1936, 11.
 11. – Formerly de Ciccio collection.
- 344 O9** Die of 342–346.
- R24** Die of 333, 344.
1. 17.26 4 *Hess-Leu 7.4.1960, 65; Hirsch 13, 1905, 271.
 2. 16.23 4 Lanz 46, 1988, 44; Leu in stock 1954.

- 345 O9** Die of 342–346.
R33 Triangular crab, very broad above; drop shaped eyes separated by broad, square section; long pincers with teeth; legs fan-like spread out. Die of 345, 347.
1. 19.40 (sic) *Vatican (24).
 2. 17.50 Leu 77, 2000, 74.
 3. 17.45 Graz.
 4. 17.34 Hess 207, 1931, 126.
 5. 17.23 Künker 34, 1996, 21; Lanz 76, 1996, 118; do. 68, 1994, 44.
 6. 17.18 12 Syracuse (6504).
 7. 16.88 Graz.
- Rev.* Thin die break below crab: all.
- 346 O9** Die of 342–346.
R22 Die of 328, 331, 346.
1. 17.11 *Künker 8.3.1988, 3570.
- 347 O10** Similar eagle but feathers rendered in a more differentiated pattern with rows of oval dots on the upper part of the wing. Die of 347–356.
R33 Die of 345, 347.
1. 17.32 12 *Copenhagen, *SNG* 41 (ex. Rollin).
 2. 17.13 4 Palermo
 3. 16.81 Coin Galleries MB 17.7.1991, 94.
- Rev.* Same flaw as 345.
- 348 O10** Die of 347–356.
R34 Square crab; r. claw lifted, l. claw closer to the body; drop-shaped eyes separated by broad, flat section; legs wide apart.
1. 17.19 11 *New York (1957.172.511, Miller), *SNG ANS* 972; Glendining 10.4.1918, 35.
 2. 17.15 Peus 250, 1954, 116; Rosenberg 72, 1932, 159; Sotheby 3.2.1909, 171.
 3. 17.15 Naville 1, 1921, 377.
 4. 16.60 CNG 39, 1996, 260; Bonhams 4, 1980, 28.
- Rev.* Small flaws on crab's legs, r. side: 3.

- 349 O10** Die of 347–356.
R35 Crab of round shape with long, curved legs and long pincers; crab's shell is rendered in many small segments and resembles a human face; rounded top; very small eyes; circular incuse. Die of 349, 357.
- a) *rev.* without die flaw in field below or just beginning to appear.
1. 17.53 11 Hess-Leu 24.3.1959, 51.
 2. 17.49 10 Hess-Leu 27.3.1956, 60; J. Hirsch, New York, in stock 1952 (ex. de Ciccio); *Ars Classica* 15, 1930, 267.
 3. 17.47 7 MMAG 89, 2000,27; *Auctiones* 23, 1993, 213 (ex. Langlotz); Hess-Leu 14.4.1954, 44; Jameson IV, 2414.
 4. 17.43 4 Leu 72, 1998, 60.
 5. 17.37 Aretusa 2, 13–14 May 1994, 91; NAC 5, 1992, 48; Leu 50, 1990, 41.
 6. 17.33 7 Berlin (Löbbecke). *Obv.* Small cuts on eagle's body.
 7. 17.33 Glendining 7.7.1939, 58.
 8. 17.28 NAC-M, 2002, 2137.
 9. 17.27 Ratto, Paris, 4.6.1931, 36.
 10. 17.20 5 *Leu 42, 1987, 77; Leu-MMAG 28.5.1974, 77.
 11. 17.16 Védrines 29.12.1983, 5.
- b) *rev.* with die flaw in field below at the edge of incuse.
12. 17.70 11 London, Lloyd *SNG* 804 ("overstruck". Traces of overstriking on *obv.*).
Syracuse, Gagliardi (1980).
 13. 17.60 NFA 9. 1980, 44; Spink in stock 1952.
 14. 17.59 11 Syracuse, Gagliardi (1991); Stazio, *Sikanie*, fig. 68.
 15. 17.55 Lisbon, *Gulbenkian I*, 161 (from C.L. Morley, New York, 1951); Santamaria 24.1.1938, 77.
 16. 17.53 7 Leu 7, 1973, 47; Leu in stock 1954; Hamburger 98,1933, 116; Bodenstedt, pl. 61.
 17. 17.52 1 NAC 9, 1996, 132; formerly Moretti. *Obv.* Eye tooled?
 18. 17.51 Leu 59, 1994, 52; Hess-Leu 31, 1966, 92.
 19. 17.49 G. Hirsch 201, 1998, 67 (17.43); *Crédit de la Bourse* 23.5.1996, 10; SBV 15.9.1997, 48; do. 33, 1993, 87; Védrines 7.7.1984, 11(17.48); SKA list 38, 1982, 37 (17.59).
 20. 17.49 Triton 5, 2002, 1160; Tkalec/Rauch 25.4. 1989, 17.
 21. 17.46 Formerly London (ex. Hoskier), *NC* 1937, pl.31.2; *Brit. Mus. Quart.* 1937, pl.35.1; NAC 8, 1995, 114; Hess-Leu 24, 1964, 42; Hess 15.2.1934, 128; Cahn 75, 1932, 148; *Ars Classica* 14, 1929, 80.
 22. 17.46 5 MMAG list 476, 1985, 5.
 23. 17.46 Cahn 60, 1928, 177.
 24. 17.41 Sotheby 21.6.1990, 220.
 25. 17.37

26. 17.36 Hirmer pl. 59.171(*rev.*); Hirmer, *Griechenmünzen*, pl. 23 (*rev.*); Helbing 31.1.1930, 102.
27. 17.35 11 Formerly New York; Schulman 7.6.1937, 90; do. 8.6.1931, 46.
28. 17.34 Bonhams/Vecchi 8.11.1982, 279.
29. 17.32 Private collection, New York; Glendining 25.10.1955, 576; Lockett *SNG* part 2, 692; *Ars Classica* 15, 1930, 268.
30. 17.32 10 Lanz 92, 1999, 138.
31. 17.30 10 New York (1957.172.512, H. Miller), *SNG ANS* 973.
32. 17.26 9 *Auktionen 26, 1996, 41; MMAG list 590, 1995, 28; do.79, 1994, 95; do. 77, 1992, 17; G. Hirsch 170, 1991, 158; do. 26.6.1956, 95; Christie's 3.10.1988, 950; Stack's 17.9.1980, 40; Glendining 18.4, 1955, 158; Hamburger 98, 1933, 117; Cahn 71, 1931, 137; Hess 202, 1930, 2261.
33. 17.22 5 Berlin (Löbbecke).
34. 17.20 *Ars Classica* 17, 1934, 119.
35. 17.19 Private collection X.
36. 17.15 Schulman 16.12.1926, 93; Naville 6, 1923, 334 (corroded).
37. 17.14 NAC-E, 1995, 2148.
38. 17.12 1 Palermo.
39. 17.10 Private collection X.
40. 17.08 SKA 7, 1987, 91; Spink *NCirc.* 94, Jan. 1986, 30; Schulman 225, 1955, 1209; MMAG in stock 1953.
41. 17.06 2 Berlin (Gansauge 1873).
42. – Canessa 12.6.1928, 476.

c) *Obv.* Worn die, letters on l. side enlarged by cracking.

R35¹ *Rev.* Die flaw removed, but traces of it still visible (45–46); slight recutting of eyes and pincers.

43. 17.20 Glendining 28.1.1998, 18.
44. 17.17 Naville 10, 1925, 174.
45. 17.13 Vinchon Nov. 1986, 56; do. 24.11.1969, 89.
46. 16.57 10 *Wruck 11, 1952, 45; do. in stock 1951.

Note. Cahn 60, 177 (no. 24) has a heavy flaw on letters AN (*obv.*) and on *rev.* several minor flaws in the field below crab. This coin thus represent the latest state of b) before the die was recut (=c).

- 350 O10** Die of 347–356. Later state; letters on l. side elongated by die cracks.
- R27** Die of 336, 337, 350. Flaw in field below now larger.
1. 17.59 3 *Berlin (bequest 1995).

- 351 O10** Die of 347–356. As last.
R36 Triangular crab with long, drooping legs; small, round eyes; short claws.
1. 17.63 5 Syracuse (4932).
 2. 17.33 *Monetarium list 61, 1994, 4; Sotheby (Zürich), 27.10.1993, 191;.
 3. 17.21 7 Leu 74, 1998, 65; Lockett *SNG* III, part 2, 691; Glendining 25.10.1955, 575.
 4. 17.10 12 Formerly private collection, Bern; Münzhandlung Basel in stock 1951.
 5. 17.00 Formerly Benson collection, NY; CNG internet sale (historical coins) 4.10.1999, 3054.
 6. 16.84 Kricheldorf 28.5.1956, 937.
 7. 16.82 Cahn 68, 1930, 1063; Glendining-Seaby 15.7.1929, 177; do. 1.12.1927, 560.
 8. 16.60 1 Leu in stock 1954; Jameson III, 1888; Feuarent 26.5.1914, 102.
 9. 16.48 12 Munich, *SNG* 68.
 10. 15.23 7 Cefalù.
 11. 15.20 12 Reggio Calabria, Chiesa Pepe hoard.
- 352 O10** Die of 347–356. As last.
R37 Triangular crab with very broad upper part; eyes separated by broad section with antennas; irregular legs, stretched out on l. side, drooping on r. side; long pincers.
1. 17.80 Schlessinger 4.2.1935, 223.
 2. 17.50 Santamaria 12.10.1949, 270 (17.55); Helbing 8.11.1928, 3503 (17.55).
 3. 17.44 2 Cambridge, *McClean* 2020, pl. 64.11.
 4. 17.33 CNG 41, 1997, 160.
 5. 17.30 Milan, Arslan 33.
 6. 17.28 11 Berlin (Imhoof-Blumer).
 7. 17.28 5 *Paris Delepierre, *SNG* 528; Boutin in stock 1953; Ratto 4.4.1927, 334.
 8. 17.25 12 Paris (FG 32).
 9. 17.25 2 Formerly Moretti; Leu 25, 1980, 46.
 10. 17.20 Himera 1984 hoard; Mid-American Rare Coin Auctions 15.2, 1985, 560.
 11. 17.12 7 Budapest (51A.1913.8), *SNG* 21.
 12. 17.04 SKA list 38, 1982, 36.
 13. 17.03 Naville 5, 1923, 818.
 14. 17.03 Numismatica Wien 7, 1975, 29; Peus 261, 1960, 765; do.256, 1957, 14; Rosenberg 81, 1935, 123; Cahn 61, 1928, 37.

15. 16.48 Private Collection X.
 16. 16.38 7 Paris Delepierre, *SNG* 527.
 17. – In trade New York 1951.
 18. – Bourgey 5.12.1932, 65.
 19. 5.58 *Fragment*. Massyaf (Syria) hoard, Kraay & Moorey, no. 1.
- 353 O10** Die of 347–356, as last.
R38 Square crab with broad bottom; drop-shaped eyes separated by flat section; pincers with ‘teeth’; asymmetric legs, stretched out on r. side.
1. 17.49 Dresden (470); Grässe, *Handbuch*, pl. 18.5.
 2. 17.43 10 Naples, Santangelo 7320.
 3. 17.36 3 Zürich (ZB 872/1).
 4. 17.24 CNG MB 15.9.1999, 136 (ex. Russel Bement Jr. collection)
 5. 17.22 *Private collection X.
 6. 17.12 1 Florence.
 7. 17.08 *Ars Classica* 12, 1926, 671.
 8. 16.98 *Ars Classica* 16, 1933, 410.
 9. 18.86 6 Oslo.
 10. 16.65 7 Formerly private collection, Germany.
 11. 16.63 Milan, Arslan 35.
 12. 15.70 3 Syracuse (24442, acq, 1905). *Obv.* Corroded. Eagle’s body and neck too thin and disproportioned due to heavy cleaning or tooling.
- 354 O10** Die of 347–356, much worn.
R30 Die of 340, 354.
1. – *Ratto stock cat. XI, 1934, 1011.
- 355 O10** Die of 347–356, much worn; letters on l. side distorted.
R39 Large and broad crab; flat section with antennas between the eyes. Die of 355, 358, 370.
1. 17.30 Helbing 8.11.1928, 3505; Cahn stock cat. 24, 1912, 249; Hirsch 31, 1912, 131.
 2. 16.88 11 *New York (1944.100.8205, Newell), *SNG ANS* 974.
- 356 O10** Die of 347–356, as last.
R40 Square crab with broad bottom and rounded sides above; assymetrical claws, r. claw lifted, l.claw close to the body. Die of 356, 359.
1. 17.67 5 Paris (FG 30); Babelon, *Traité*, pl. 78.5.
 2. 16.71 *Hess 207, 1931, 125.
 3. – Kurpfälzische Münzhandlung 25, 1983, 52.

- 357 O11** Eagle of more compact shape and short legs, close together; simple rendering of the feathers by striation only; eagle's feet form a wavy line above a row of dots. Die of 357–367.
- R35¹** Die of 349c, 357.
1. 17.00 7 *Palermo, Contessa hoard.
Obv. Fracture on eagle's back beginning to appear.
- 358 O11** Die of 357–367.
- R39** Die of 355, 358, 370.
1. 17.89 Hess-Leu 2.4.1958, 47; J. Hirsch (NY), in stock 1952 (ex. de Ciccio); *Ars Classica* 14,1929, 81; Naville 1 Pozzi, 1921, 376; Hirmer pl. 59.170.
 2. 17.85 (?) *Private collection X.
 3. 17.17 MMAG list 439, 1981, 7.
 4. 17.10 12 Naples Fiorelli 3909.
 5. 15.28 St. Petersburg; Hess 208, 1931, 96.
- Obv.* Fracture as last; several small cracks between letters on r. side; long, narrow flaw i r. field after letter C: all.
- 359 O11** Die of 357–367. Same flaws.
- R40** Die of 356,359.
1. 17.36 Syracuse, Gagliardi (412).
 2. 17.20 Hamburger 12.6.1930, 601.
 3. 16.83 Hess in stock 1969. *Obv.* Tooled on neck and wing. Flaw at eagle's back removed.
 4. 16.69 *Vinchon 3.31975, 7; Schulman 231, 1958, 3613.
Obv. New flaw below at eagle's tail.
- 360 O11** Die of 357–367. As last.
- R41** Similar.
1. 16.51 6 *New York (1941.153.226, Beatty), *SNG ANS* 978.
- 361 O11** Die of 357–367. As last.
- R42** Triangular crab with broad upper part; eyes separated by rounded top with antennas; radiating legs. Die of 361, 371.
1. 17.50 NFA, MB 15.1.1982, 47.
 2. 17.30 1 *London, *BMC* 39.
 3. 17.29 12 Berlin (28630/3).
 4. 17.20 CNG MB 42, 1997, 100.
 5. 17.15 Ciani-Vinchon 6.2.1956, 170.
 6. 16.82 Private collection X.
 7. 16.80 Private collection X.

- 362 O11** Die of 357–367.
R43 Similar. Die of 362, 368.
 1. 17.25 1 Syracuse (13961, acq. 1894). Cleaned.
- 363 O11** Die of 357–367.
R44 Similar. Die of 363, 373.
 1. 17.63 9 *Vienna (6280).
 2. 17.50 Lempertz 230, 1925, 2370.
- 364 O11** Die of 357–367, worn; the die break at eagle's back getting larger.
R45 Crab with rounded sides and bottom; eyes in shallow, curved recesses which join in the middle; long and short antennae: open pincers; thin, asymmetrical legs. Die of 364, 375.
 1. 17.46 4 Pennisi.
 2. 17.46 Palermo.
 3. 17.45 Peus 291, 1977, 135.
 4. 17.42 7 Munich, *SNG* 70.
 5. 17.40 7 Basel (Hist.Mus. 1908, 627).
 6. 17.31 St. Petersburg.
 7. 17.25 Auctiones 23, 1993, 27.
 8. 17.15 7 Utrecht.
 9. 17.14 Védrines 8.7.1983, 7. *Obv.* Slightly tooled and die break partly removed.
 10. 17.15 Ahlström 41, 1990, 1542; Private collection, Sweden; Glendining 18.4, 1955, 159.
 11. 17.12 Knopek 11.5. 1979, 48.
 12. 17.10 10 Utrecht.
 13. 17.00 Vatican (25).
 14. 16.98 Helbing 19.8.1941, 131; *Ars Classica* 13, 1928, 196.
 15. 16.74 11 Cambridge, *McClellan* 2017.
 16. 16.66 5 Platt in stock 1953.
 17. 16.50 Santamaria 27.3.1928, 81.
 18. 16.46 Baldwin in stock 1952; Naville 1 Pozzi, 1920, 378.
 19. 16.36 9 Vienna (6279). Poorly preserved. Traces of overstriking.
 20. 16.32 Coin Galleries MB 20.11.1975, 2025.
 21. 16.18 8 Rome (8354).
 22. 16.50 2 Formerly private collection, Germany.
 23. – *MMAAG list 24, 1943, 32.
 24. – Platt 26.3.1922, 201.

- 365 O11** Die of 357–367, much worn; flaw on eagle's back still more developed.
- R46** Small, square crab with curved sides; drop-shaped eyes in shallow recesses; stiff, radiating legs.
1. 17.42 4 *Winterthur, Bloesch 566.
 2. 17.34 Dresden (472).
 3. 17.16 G. Hirsch 190, 1990, 80.
 4. 17.15 Glendining 9.6.1982, 54; Delmonte 18.11.1933; 30; Cahn 71, 1931, 136; Sambon-Canessa 27.6.1927, 642.
- 366 O11** Die of 357–367, much worn. Heavy flaws as last.
- R47** Small, square crab with flat bottom and curved sides; irregular claws, r. claw held tight to the body; thin legs, more bent on l. side than on r. side.
1. 17.37 6 *Syracuse (24708), from Girgenti 1905 hoard.
 2. 17.37 11 Budapest, SNG III.19.
 3. 17.30 Hirsch 34, 1914, 118; Egger 26.11.1909, 95.
 4. 17.26 Dresden (473).
 5. 17.24 Monetarium list 52, 1989, 24; Ceresio 2, 1988, 17.
 6. 17.21 Formerly private collection, Germany.
 7. 17.12 G. Hirsch 63, 1969, 2234; do. in stock 1964.
 8. 16.95 MMAG Deutschland 10.2002, 150.
 9. 16.66 11 Berlin (Rauch).
- 367 O11** Die of 357–367, much worn. As last.
- R48** Small, triangular crab with curved sides and curved upper section between the eyes; long and short antennas; l. claw uplifted; irregular legs, stretched out on l. side, bent on r. side. Die of 367, 381, 383.
1. 17.58 Christie's 8.10.1991, 27.
 2. 17.28 CNG internet sale (historical coins) 4.10.1999.
 3. 17.25 Rauch 33, 1984, 63.
 4. 17.22 7 Pennisi.
 5. 17.21 Peus 288, 1975, 77; Gans in stock 1954.
 6. 17.17 Himera 1984 hoard; Mid-American Rare Coin Auctions, 24.5. 1985, 960.
 7. 17.13 MMAG list 320, 1971, 1.
 8. 17.05 Button 18.9.1961, 1984; Schulman 233, 1960, 1037; do. 232, 1959, 1290. *Obv.* Tooled; die flaw at eagle's body removed.
 9. 17.01 10 *Bruun Rasmussen 245, 1970, 341; Ars Classica 13, 1928, 197.
 10. 16.88 Lanz 60, 1992, 53; MünzZentrum 72, 1991, 158.

- 368 O12** Large eagle of compact, heavy shape with short legs and short, thick neck; wavy and dotted lines as last. Die of 368–381.
R43 Die of 362, 368.
 1. 17.25 5 *Pennisi.
- 369 O12** Die of 368–381.
R49 Triangular crab with round bottom; drop-shaped eyes separated by wavy recesses; antennas between eyes.
 1. 17.42 Lanz 24, 1983, 48.
 2. 17.05 05 *Paris (FG 31), Babelon, *Traité*, pl. 78, 3; Salinas no 102, pl. 5.11.
 3. 16.35 10 Cambridge, *SNG IV*, 892. Corroded and cleaned.
Obv. Flaw beginning to appear between eagle's back and letter K: all.
- 370 O12** Die of 368–381.
R39 Die of 355, 358, 370.
 1. 17.33 *CNG / *Class.Num.Review* vol. 22.1.1997, 1.
Obv. Same flaw as last. Thin cracks in r. field.
- 371 O12** Die of 368–381. Same flaws as last.
R42 Die of 361, 371.
 1. 17.42 New York, Metropolitan Museum; Ward 134 (not in Sotheby 1973 sale).
 2. 17.42 Triton 5, 2002, 1159.
 3. 17.06 10 Pennisi. Corroded and cleaned.
 4. 16.91 Münzhandlung Basel 8, 1937, 103.
 5. 16.91 Athens; Feuardent 17.12.1919, 74; Sambon-Canessa 24.3.1902, 393, pl. 4.9.
 6. 16.75 Vinchon 30.11.1986, 55; *Ars Classica* 16, 1933, 412.
 7. 16.65 Coin Galleries MB 19.4.1962, 896; Coin Galleries/*The Numismatic Review* vol. 3.4, 1962, D23.
 8. 16.53 *Private collection X.
 9. 16.34 Numismatica Wien 5, 1974, 3.
- 372 O12** Die of 368–381. As last.
R50 Triangular crab with curved sides and rounded bottom; drop-shaped eyes separated by curved middle section with antennas; asymmetrical claws with 'teeth'; thin legs tight together on r. side.
 1. 17.32 *Boston (04.423), Baldwin Brett 222; Warren 189.
 2. 17.30 1 London, *BMC* 38; Salinas 103, pl. 5.12 (*rev.*).
 3. 17.18 4 Berlin (Imhoof-Blumer 1900).
 4. 17.18 Grabow 9.7.1930. 176.
 5. 16.81 Cahn 84, 1933, 106; do. 61, 1928, 36.
 6. 15.49 7 Cefalù.

- 373 O12** Die of 368–381. More fractures between the letters on r. side.
R44 Die of 363, 373.
1. 17.50 Rasmussen 367, 1977, 32.
 2. 17.44 Palermo.
 3. 17.32 10 Tübingen, *SNG* 559.
 4. 17.30 SBV 38, 1995, 45; Münzhandlung Basel 4, 1935, 415.
 5. 17.26 Monetarium list 63, 1995, 26.
 6. 17.25 Vienna (6281).
 7. 17.23 11 Palermo.
 8. 17.23 Bourgey 17.6.1959, 104.
 9. 17.23 Vinchon 11.4.1988, 233.
 10. 17.22 *Lisbon, *Gulbenkian* 162; Weber 1182; Locker-Lampson 58.
 11. 17.21 Vinchon 30.11.1986, 54; Canessa 22.5.1922, 166.
 12. 17.19 4 Palermo.
 13. 17.16 11 New York (1941.153.224, Beatty), *SNG ANS* 976.
 14. 17.11 Egger 46, 1914, 52.
 15. 17.09 Sotheby 20.7.1983, 8; Glendining 11, 1971, 23; Vinchon 27.2.1961, 51.
 16. 17.08 3 Duisburg (14/368), Köhler-Osbahr 155; Müller 53, 1986, 22; Oldenberg list 14, 1895, 27; Peus 299, 1980, 69; SBV 5, 1979, 57; Höfer list 9 (no year), 134.
 17. 17.07 Athena 2, 1988, 33.
 18. 17.07 Astarte 12, 2003, 45.
 19. 16.81 NAC-E, 1995, 2149.
 20. 16.68 G. Hirsch 143, 1984, 26.
 21. 16.38 1 Providence, Brown University, Wheaton College, *ACNAC* 1981, 29. *Obv.* Square mark on wing.
 22. 14.77 Dresden (474).
- 374 O12** Die of 368–381. Same flaws as last.
R51 Small, square crab with flat bottom and curved sides; long pincers with sharp ‘teeth’; long, radiating legs.
1. 17.35 *Peus 349, 1996, 30.
 2. – Livorno (0028–1903).
- 375 O12** Die of 368–381, much worn. Flaw at eagle’s body now extending more into r. field; letters on both sides more and more elongated by cracks in the die.
R45 Die of 364, 375.
1. 17.42 3 *Florence.

- 376 O12** Die of 368–381. As last.
R52 Triangular crab, wide above; drop-shaped eyes in shallow recesses, separated by flat section; radiating legs, wide apart.
1. 17.12 3 New York (1941.153.225, Beatty), *SNG ANS* 977.
 2. 17.08 Aufhäuser 21.10.1985, 12.
 3. 16.90 MünzZentrum 68, 1990, 71; do. 66, 1989, 90; Kunst u. Münzen list 60, 1987, 143; Peus 308, 1983, 69; do. 284, 1974, 95; Kunst u. Münzen 20.6.1977, 47; Kurpfälzische Münzhandlung 9, 1975.
 4. 16.83 9 Prag (H5–26227).
 5. 16.82 5 Salisbury, Courtauld collection, Pollard 17.
 6. 16.82 Udine, Collection Brandis 6.
 7. 16.80 Vatikan (26).
 8. 16.77 5 Blackburn, Hart collection, *SNG VIII*, 139.
 9. 16.66 Stuttgart (MK 1991/91); *Jahrbuch der Staatl. Kunstsamml. Baden/Württemberg* 1992, p. 233, fig. 15a.
 10. 16.65 12 *Stockholm (*Smith* 27), *SNG* 374; Naville 10, 1925, 175.
 11. 16.56 G. Hirsch 203, 1999, 91; Bourgey 13.6. 1977, 16. *Rev.* Right claw tooled.
- 377 O12** Die of 368–381, much worn. Flaws as last.
R53 Large triangular crab with strongly curved sides and rounded bottom; round, big eyes in recesses between flat section with antennas; radiating legs, wide apart.
1. 17.35 Formerly Moretti; SBV 35, 1994, 13; do. 33, 1993, 85; Kunst u. Münzen 15.3.1979, 56; Hess 247, 1978, 36; Hess 247, 1978, 36; Kricheldorf 31, 1977, 33.
 2. 17.35 Class. Num. Auctions 18, 1991, 29.
 3. 17.26 10 *Stockholm, Forbat *SNG* 96.
 4. 17.00 Coin Galleries, *The Numismatic Review*, vol. 5.3, 1964, C38.
 5. 16.32 Oslo Mynthandel 35, 1995, 1310; do. 34, 1994, 897; do. 30, 1992, 1424; Ahlström 14, 1977, 649; list 52, 1975–76, 6.
- 378 O12** Die of 368–381, much worn. As last.
R54 Similar to R52–R53 but pincers closer together.
1. 17.00 NFA MB 14.12.1989, 356; Helbing 12.4.1927, 1594.
 2. 16.44 Rauch 44, 1990, 89.
 3. – *Coin Galleries MB 29.11.1958, 796.

- 379 O12** Die of 368–381, much worn. As last.
R55 Small triangular crab with curved sides; drop-shaped eyes in curved recesses between antennas; pincer widely open on r. side; thin radiating legs.
1. 17.51 *Peus 355, 1998, 49; formerly Hammerich collection (1981).
 2. 17.10 Schulman 243, 1966, 1081; Hamburger 29.5.1929, 94; Cahn 65, 1929, 64.
 3. 17.25 2 Pennisi.
 4. 17.08 2 Syracuse (32952, acq. 1912).
 5. 17.05 Elsen list 63, 1984, 12; do. 55, 1983, 21; MünzZentrum 47, 1982, 12; Birkler & Waddell 2, 1980, 31; Numismatica Wien 4, 22.4.1974, 47.
 6. 16.99 MMAG 13, 1954, 1017; Riechmann list 1, 1921, 149.
 7. 16.72 Formerly R.B. Lewis, London, El Arahah hoard, *NC* 1962, pl. 21.4. *Obv.* Cuts on eagle's body; to r. round countermark?
 8. 16.68 3 Naples, Fiorelli 3913.
 9. 16.59 2 Palermo
- Rev.* Small crack below crab: 2, 3, 8, (7 uncertain)
- 380 O12** Die of 368–381, much worn. As last.
R56 Large, triangular crab, very broad above; broad, flat upper part with round eyes in deep recesses and flat mid section with antennas; open pincers and thin legs as last.
1. 17.25 6 Oslo.
 2. 17.22 Athena 3, 1990, 34; Kölner Münzkabinett 25, 1979, 10.
 3. 16.96 2 Agrigento, *SNG* 94.
 4. – *de Nicola list December 1961, 192; do. June 1961, 207.
- 381 O12** Die of 368–381, much worn. As last; letters on r. side almost effaced.
R48 Die of 367, 381, 383.
1. 17.30 12 *Budapest, *SNG* 20.

Group III. *Rev.* varying symbols

- 382 O13** Eagle standing on dotted line with slightly lifted head in a little more vertical position as before; feet forming wavy line; feathers rendered in a differentiated pattern of dots and lines; brushlike tail. Die of 382–391.
- R57** Triangular crab with curved sides; small drop-shaped eyes between flat, square section. Die of 382, 394.
1. 17.06 *NFA 22, 1989, 184; do. 9, 1980, 45; Sotheby 15.11.1927, 22.
- Rev.* Thin fracture beginning to appear in field below.
- 383 O13** Die of 382–391.
- R48** Die of 367, 381, 383.
1. 17.03 *MMAG 88, 1999, 58; *Ars Classica* 13, 1928, 193. *Rev.* Claws weakly struck.
- 384 O13** Die of 382–391.
- R58** Broad, round crab with big drop-shaped eyes sticking out from curved recesses between wavy middle section; outstretched legs, wide apart; below dolphin.
1. 17.36 9 London, *BMC* 41; Salinas 106, pl. 5.15.
2. 17.30 11 Formerly Moretti; Warren 190; Lloyd *SNG* 809; Triton I, 1997, 195; *NAC* 10, 1997, 92; *MMAG* 10, 1951, 188; *RIN* 1903, pl. 2.10 (*rev.*).
3. 17.10 12 *New York (1957.172.514, Miller), *ANS SNG* 985.
4. 16.91 10 Weber 1183; Jameson III, 1887; Hess-Leu 27.3.1956, 61; Sotheby 15.6.1896, 271.
5. 16.32 1 Pennisi; Hamburger 98, 1933, 120.
- 385 O13** Die of 382–391.
- R59** Similar round crab with symmetrical claws; below spiral ornament. Die of 385, 395
1. 17.32 11 *Pennisi; Lee, *NC* 1999, pl. 3. T; Rizzo pl. I.5; Salinas 109, pl. 5.18 (*rev.*).
- 386 O13** Die of 382–391.
- R60** Triangular crab with big eyes; assymetrical, open pincers; legs wide apart.
1. 17.60 Schlessinger 4.2.1935, 222.
2. 17.58 4 Palermo; Salinas 105, pl. 4.14.

- | | | | |
|----|-------|---|---|
| 3. | 17.28 | | SBV 29, 1992, 26. |
| 4. | 17.20 | | Dorotheum (Hollschek XIII), 26.4.1961, 893; Egger 40, 1912, 318. |
| 5. | 17.19 | 9 | UBS 49, 2000, 25; Kress 121, 1961, 137; Kricheldorf 12.6.1961, 160; Grabow in stock 1957 (ex. Nägeli); Münzhandlung Basel 4, 1935, 416. |
| 6. | 17.05 | | Rauch 37, 1986, 42. |
| 7. | 16.98 | | Monetarium list 49, 1988, 8. |
| 8. | 16.91 | 2 | *London, Lloyd <i>SNG</i> 801, Selinunte 1923 hoard, <i>NC</i> 1925, pl. 10.2; CB 77. |

**387 O13¹
R61** Die of 382–391 in worn state; eagle's legs and toes recut; letters weak. Broad, triangular crab; drop-shaped eyes in curved recesses between rounded upper section; below corn grain. Die of 387, 406.

- | | | | |
|----|-------|---|---|
| 1. | 17.62 | 5 | *London, <i>BMC</i> 40; Salinas 110, pl. 5.19 (<i>rev.</i>). |
| 2. | 17.50 | 7 | Formerly Moretti; Lockett <i>SNG</i> 693; CNG/NAC MB 40, 1996, 725; Glendining 25.10.1955, 577; Naville 6, 1923, 336. |
| 3. | 17.10 | | Boston (18.626), Baldwin Brett 224. |
| 4. | 17.07 | 1 | Berlin (Imhoof-Blumer 1900). |
| 5. | 17.06 | 3 | Pennisi; Hamburger 29.5.1929, 96 (ex. Löbbecke). |
| 6. | 16.65 | 7 | Jameson 504; Auctiones 26, 1992, 42; MMAG list 405, 1978, 2; Leu in stock 1954; Hirsch 21, 1908, 534. |

Rev. A dot below the corn grain is visible in all coins. It can hardly belong to the die but is rather a small flaw.

388 O13¹ Die of 382–391.

R62 Triangular crab, broad at top; big drop-shaped eyes in deep recesses between square middle section; legs, tight together on l. side; below bird.

- | | | | |
|----|-------|---|--|
| 1. | 17.37 | | Formerly New York, Metropolitan Museum, Ward 135; Sotheby 4.4.1973, 109; do. 7.7.1898, 25. |
| 2. | 17.27 | 2 | London, Lloyd <i>SNG</i> 810 (ex. Evans); Sotheby 8.5.1916, 97; Hirsch 13, 1905, 273. |
| 3. | 17.20 | 7 | Berlin (Imhoof-Blumer 1900). |
| 4. | 17.05 | 6 | Pennisi; Rizzo pl. I.9; probably Salinas 108, pl. 5.17 (<i>rev.</i>) |
| 5. | 17.00 | | Dorotheum 26.4.1961 (Hollschek XIII), 892. |
| 6. | 16.95 | | *Private collection X. |
| 7. | 16.24 | | St. Petersburg. |

- 389 O13¹** Die of 382–391.
R63 Triangular crab, broad above; big eyes between square top; pincers with ‘teeth’; radiating, drooping legs. Die of 389, 403, 408
1. 17.30 Canessa-de Nicola list Nov. 1948, 49.
 2. 17.30 4 Leu in stock 1954.
 3. 17.08 Hamburger 98, 1933, 114.
 4. 16.99 6 Brussels, Du Chastel 22.
 5. 16.88 5 *Paris, Delepierre *SNG* 526; Bourgey 14.6.1932, 15.
- 390 O13¹** Die of 382–391.
R64 Large, triangular crab; eyes in shallow recesses between flat top; pincers close to the body; thin legs; below dolphin, in front large die-break.
1. 17.25 11 Paris, de Luynes 847; Babelon, *Traité*, 2323, pl. 78.7; Salinas 107, pl. 5.16 (*rev.*)
 2. 17.23 12 Lockett, *SNG* III,694; Glendining 25.10.1955, 578; Ratto in stock 1957; Naville I Pozzi, 1921, 381.
 3. – *Formerly Moretti.
- 391 O13¹** Die of 382–391.
R65 Large, square crab with curved sides; asymmetrical legs; below flower with spiral tendrils. Die of 391, 404.
1. 16.82 3 *Berlin (Löbbecke).
 2. 16.55 Numismatica Wien 22.4.1974, 48. *Rev.* Tooled. Right claw too open.
- 392 O14** Eagle standing l.on double dotted lines, holding head straight forward; body has round shape; wing has two layers of feathers; short legs and short tail visible below the wing. Die of 392–407.
R66 Small triangular crab with curved outlines; open pincers; long radiating legs.
1. 17.39 Norman Davis, *ACNAC* 1969, 29; Sotheby 21.2.1929, 14; do. 3.2.1909, 170.
 2. 17.37 5 Brussels (ex. de Hirsch).
 3. 17.09 6 *New York (1944.100.8206, Beatty), *ANS SNG* 979.
 4. 17.05 Auctiones 25, 1995, 72; MMAG list 589, 1995, 7.
 5. 16.91 4 Hess-Leu 36, 1968, 54; Nanteuil 259.

- 393 O14** Die of 392–407.
R67 Broad, round crab with curved top: wide-open pincers; below dolphin l. with back downwards.
1. 17.44 NAC-A, 1991, 1167; MMAG 64, 1984, 23.
 2. 17.40 10 Cambridge, *SNG* IV, 894; Leake, *NH*, Sicily, p. 49.2; Sotheby 8.7.1844, 251.
 3. 17.19 MMAG 89, 2000, 28; Sternberg 20, 1988, 176.
 4. 17.10 7 Enna.
 5. 17.05 9 *Formerly New York, Metropolitan Museum, Ward 135A, Sotheby 4.4. 1973, 110; Triton I, 1997, 196; Vecchi 5, 1997, 88; Elsen 28, 1993, 44; Leu 54, 1992, 20; Sotheby 20.1. 1898, 36.
- 394 O14** Die of 392–407.
R57 Die of 382, 394 now with large die fracture in field below.
1. 17.48 Kricheldorf 8, 1960, 39.
 2. 17.39 *SKA 5, 1986, 84; do. list 41, 1983,28; Lanz 32, 1985, 61; Vecchi & Sons, 8.10.1984, 44; Bonham 7, 1982, 62; Galerie des Monnaies 1.8.1979, 2359; do in stock 1978 (said to come from a hoard found at Selinunte in 1978, cf. 410.4).
 3. 17.28 Sotheby 5.10.1990, 19.
 4. 17.25 Helbing list 17, 1934, 115; do. 9.12.1932, 494; do. 31.1.1930, 101.
 5. 17.22 Vinchon 14.3.1989, 61.
- 395 O14** Die of 392–407.
R59 Die of 385, 395.
1. 17.30 Vinchon 14.4.1984, 23.
 2. 17.03 6 *Syracuse (5431).
 3. 16.78 1 Syracuse (5432).
 4. 16.43 9 Berlin (Fox 1873).
- 396 O14** Die of 392–407, worn die.
R68 Large crab with curved sides; eyes wide apart; flat middle section; pincers with ‘teeth’; thin, curved legs.
1. 17.31 1 *Cambridge, Corpus Christi College, Lewis collection, *SNG* VI.1, 289.

- 397 O14** Die of 392–407, worn die.
R69 Broad, rounded crab; big eyes and flat middle section; long, open pincers; curved legs.
 1. 16.99 3 *New York (1925.141.3, Miller), *ANS SNG* 980; Merzbacher 15.11.1910. 187; Sambon 19.12.1907, 77.
- 398 O14** Die of 392–407, worn die.
R70 Large triangular crab, broad above; big, protruding eyes in curved recesses; thick claws with long open pincers; radiating legs wide apart.
 1. 17.35 4 Blackburn, Hart Collection, *SNG* VIII, 140.
 2. 17.35 7 G. Hirsch 17.11.1955, 482; do. in stock 1953.
 3. 17.32 7 *Formerly New York; formerly private collection, NY; *CNG* 33, 1995, 108; Sotheby 8.5.1916, 92.
 4. 17.30 Münzhandlung Basel 8, 1937, 104. *Obv.* Damage on wing.
 5. 17.10 10 NFA list 41, June 1992, 58; Sotheby 19.6.1991, 54.
 6. 17.07 3 Pennisi.
 7. 16.59 Pegasi Coins VIII, 2003, 74.
- 399 O14¹** Die of 392–407, much worn; only traces of letters on l. side.
R71 Large, triangular crab with broad upper part; small eyes; pincers close to body; radiating legs, wide apart; below flower bud with two short spiral tendrils.
 1. 17.41 *Leu 81,2001, 43; Stack's 10.6.1970, 118.
 2. 17.41 Lanz 44, 1988, 56; do. 36, 1986, 57. *Rev.* Small crack at edge below.
 3. 17.36 11 Stockholm, King Gustaf VI Adolf, *SNG* 23; Sotheby 6.7.1921, 198. *Obv.* Two chisel cuts on eagle.
 4. 17.35 Pierpont Morgan collection 107; Sambon 19.12.1907, 88.
 5. 17.30 12 Athens.
 6. 17.27 4 Berlin (28825), Friedländer & Sallet 553.
 7. 17.27 Cahn 66, 1930, 99. Worn.
 8. 17.14 Formerly Moretti; Triton II, 1998, 148; New York in trade 1951; Baranowsky stock cat. XI, 1934, 4612; Hamburger 98, 1933, 122; Lee, *NC* 1999, pl. 3.M.
 9. 16.98 3 Pennisi; Rizzo pl. I.11 (*rev.*); Salinas 112, pl. 5.21.
 10. 16.69 Randazzo hoard, Arnold-Biucchi, *Randazzo* 15, pl. 1.
- 400 O14¹** Die of 392–407.
R72 Similar crab; below flower with spiral ornaments as last. Die of 400, 413.
 1. 17.45 11 *London, *BMC* 42; Salinas 113, pl. 5.22 (*rev.*); Gardner, *Types*, pl. 2.41 (*obv.*); Hill, *SGC*, pl. 57.1 and 59.2.

- 401 O14¹** Die of 392–407.
R73 Broad, square crab; sharp pincers, tight together; radiating legs; below rose bud with spiral tendrils on each side.
1. 17.33 4 *New York (1949.21.1), *ANS SNG* 981; Münzhandlung Basel 4, 1935, 417.
 2. 17.12 2 London (1963.11.102, Herzfelder); Leu in stock 1960; Button 103, 1960, 8.
 3. 17.03 1 Syracuse (22379, acq. 1902).
- 402 O14¹** Die of 392–407, worn; letters are faint*, especially on l. side; feathers on eagle's body and the sharp dividing zig-zag line between the two layers improved by re-engraving.
R74 Broad, square crab; drop-shaped eyes standing out from curved recesses; pincers with 'teeth'; radiating legs; below flower with spiral on both side.
1. 17.28 1 *Berlin (Imhoof-Blumer 1900); Holm, pl. 1.11; Salinas 114, pl. 5.23 (*rev.*)
 2. 17.26 Formerly Moretti; Jameson 505; Triton I, 1997, 193; Lee, *NC* 1999, pl. 3.O.
 3. 17.18 3 Coin Galleries MB 14.2.1973, 11; Rasmussen 245, 1970, 342.
 4. 16.99 Peus 277, 1971, 23; de Nicola in stock 1951.
- *Salinas ad 114: "Le lettere incise a tratti così sottile, da vedersi improntate in maniera molto incomplete anche sugli esemplari fior di conio".
- 403 O14¹** Die of 392–407. As last.
R63 Die of 389, 403, 408.
1. 17.27 *Kricheldorf 5, 1958, 31.
 2. 17.27 G. Hirsch 84, 1973, 10.
- 404 O14¹** Die of 392–407.
R65 Die of 391, 404.
1. 17.00 6 *Oxford, *SNG* V.1671; Harden, pl. 6.1.
 2. 17.10 1 Palermo.
- 405 O14¹** Die of 392–407.
R75 Large, square crab with big eyes in curved recesses; one claw more lifted than the other; radiating legs; below rose bud with spiral tendrils. Die of 405, 411.
1. 16.90 07 *Palermo (G 4626); Rizzo pl. I.12.
 2. 16.83 Spink *NCirc.* 10, 1986, 8117; do. 2, 1981, 744.

- 406 O14¹** Die of 392–407.
R61 Die of 387, 406.
 1. 16.93 01 *Formerly private collection, Germany; Hess in stock 1969; Kress 109, 1958, 33.
- 407 O14¹** Die of 392–407.
R76 Large crab similar to R75 but with broader upper part; below rose with long petals and spiral tendrils. Die of 407, 412.
 1. 16.52 *Egger 45, 1913, 231.
- 408 O15** Ethnic starting below on l. side; eagle's feet form a wavy line over thin Ionian capital (only rarely visible); eagle's feathers carefully distinguished by dots and stripes; the head is flattened on top. The die has a little flaw below eagle's head.
R63 Die of 389, 403, 408.
 1. 17.01 *NAC 7, 1994, 182.
- 409 O15** Die of 408–415.
R77 Broad crab with curved top; big drop-shaped eyes sticking out from curved recesses; below rose bud with short spiral tendrils on both sides.
 1. 17.63 2 Pennisi. Corroded.
 2. 17.50 7 G. Hirsch 31, 1962, 43; Leu in stock 1954; Schulman 7.6.1937, 87.
 3. 17.39 *Leu 15, 1976, 50 (ex. R.A. van Every); Hamburger 96, 1932.
 4. 17.05 11 Cambridge, *SNG* IV.895; Leake, *NH*, Sicily, p. 49.3.
- 410 O15** Die of 408–415.
R78 Large crab, broad above; round eyes wide apart; one claw above the other; long legs; below bigger flower with longer tendrils.
 1. 17.50 *Private collection, South Germany.
 2. 17.31 7 Formerly New York, Metropolitan Museum, Ward 136; Sotheby 4.4.1973, 111; Vinchon 26.4.1999, 46; Bourgey 28.10.1974, 26; Sotheby 20.1.1898, 38.
 3. 16.98 Vinchon 20.5.1959, 374; *Ars Classica* 16, 1933, 417; Hirsch 16, 1906, 207.
 4. 16.85 Gadory 13.10.1980, 55; Galerie des Monnaies in stock 1978 (said to come from a hoard found at Selinunte in 1978, *cf.* 394.2).

- 411 O15** Die of 408–415.
R75 Die of 405, 411.
1. 17.48 6 New York (1927.38.18, Barrington), *ANS SNG* 983.
 2. 17.38 6 *London, *BMC* 43; Salinas no 115, pl. 5.24.
 3. 17.29 Glasgow, *Hunter* 15; Rutter, *Greek Coinage*, fig. p. 27.1; Rutter, *Italy and Sicily*, p. 133, fig. 132.
 4. 17.26 Baranowsky in stock 1951.
 5. 17.26 Leu list *Sicilia* 1962, 11; Leu in stock 1954.
 6. 17.23 3 Berlin (Imhoof-Blumer 1900).
 7. 17.20 Coin Galleries, MB 19.4.1962, 895.
 8. 17.20 Stockholm, Hallwylska Museet (LVI-KAa1, acq. at Taormina in 1888).
 9. 17.07 Pennisi. Corroded.
 10. 17.00 Weber 1184; Sternberg 35, 2000, 194; Hess 202, 1930, 2263; Cahn 65, 1929, 65; Helbing 24.10.1927, 2631.
- 412 O15** Die of 408–415.
R76 Similar to last; pincers with ‘teeth’. Die of 407, 412.
1. 17.46 UBS 15.9.1998, 112.
 2. 17.25 MMDeutschland 1, 1997, 42; Auctiones 25, 1995, 75.
 3. 17.10 Waddell 2, 1987, 61A.
 4. 17.03 2 Palermo.
 5. 16.65 1 *Syracuse (24885, acq. 1905).
- 413 O15** Die of 408–415.
R72 Die of 400, 413.
1. 17.36 4 *Copenhagen (Argyropoulos 1881), *SNG* 44.
- 414 O15** Die of 408–415.
R79 Square crab with big round eyes sticking out from shallow recesses; pincers, placed one above the other; long, radiating legs; below large double spiral with floral ornament at both ends. Die of 414, 419.
1. 17.47 4 New York (1944.100.8207, Newell), *ANS SNG* 982.
 2. 17.40 7 Cambridge, *McClean* 2023, pl. 64.13.
 3. 17.28 *Boston, Baldwin Brett 225.
 4. 17.20 11 Formerly Pennisi; Leu 28, 1981, 21; Rizzo pl. I.6.
 5. 17.12 Vecchi 2, 1996, 195; Auctiones 24, 1994, 41.
 6. 17.05 G. Hirsch 35, 1963, 282.
 7. 16.95 9 Syracuse (19497, acq. 1899); Cesano, p. 31, pl. 6.7.
 8. 16.25 G. Hirsch 194, 1997, 76.

- 415 O15** Die of 408–415.
R80 Large, square crab with short, thick claws, the left close to the body; long pincers; radiating legs; below double spiral with floral ornament at both ends. Die of 415–416.
1. 17.52 10 *Paris (39); *RN* 1907, p. 521, 112, pl. 17.
 2. 17.18 Private collection, Germany; Peus 353, 1997, 51.
 3. 16.33 NAC-H, 1998, 1133.
- 416 O16** Eagle of compact shape with short neck and legs standing l.; eagle's feet form part of wavy line over thin Ionian capital with small spiral volutes. Die of 416–418.
R80 Die of 415–416.
1. 17.18 *Ahlström 36, 1987, 930; Kricheldorf 10, 1962, 41.
 2. 17.03 7 Prag (H5–25743).
 3. 16.94 9 Formerly Moretti; NAC 13, 1998, 254; *Antikenmuseum Basel* 1988, 254; Lee, *NC* 1999, pl. 3.P.
 4. 16.86 Peus 337, 1993, 43; Seaby *Bull.* 853, Sept., 1990, B 176.
 5. 16.62 Vinchon 22.4.1977, 5.
 6. 16.62 10 Pennisi; *Ars Classica* 16, 1933, 418; Hirsch 19, 1907, 106.
- 417 O16** Die of 416–418, more worn.
R81 Square crab with drop-shaped eyes in deep recesses; open pincers; long legs; below big flower with long spiral tendrils.
1. 17.67 3 Lockett, *SNG* III, 695; Glendining 25.10.1955, 579; Leu 2, 1972, 67; Naville 10, 1925, 176; do. 1 (Pozzi), 1921, 379.
 2. 17.61 2 Munich, *SNG* 72; Salinas 111, pl. 5.20.
 3. 17.45 Hirsch 23, 1913, 294; do. 21, 1908, 535.
 4. 17.12 *Private collection X; Hamburger 98, 1933, 121; Glendining 9.3.1931, 891.
 5. 17.05 2 Private collection, Oxford, on loan at the Ashmolean Museum.
 6. 16.39 Elsen 46, 1996, 227.
- Obv.* Thin cracks between letters A and C, r. side, and at letter O, l. side; several small cracks in l. field: all.
Rev. Large flaw between crab's pincers, r. side: all. (In Naville 10.176=no. 1 above wrongly described as a shell)

- 418 O16** Die of 416–418.
R82 Round crab small claws and thick, radiating legs.
 1. 17.07 Cambridge, *McClellan* 2016, pl. 64.10.
 2. 16.28 7 *London, *BMC* 44.
 3. – Rollin-Feuardent 22.5.1908, Sambon-Canessa 22.6.1906, 155.
- 419 O17** Eagle with short neck and legs and long wing standing on thin Ionic capital as last. Die of 419–425.
R79 Die of 414, 419.
 1. 17.00 *Rauch 4.6.1970, 216.
- 420 O17** Die of 419–425.
R83 Broad, square crab with thick claws and thin legs; below large double spiral with flower buds. Die of 420, 427.
 1. 17.42 10 Cambridge, *SNG* IV, 896; Sotheby 15.6.1896, 269.
 2. 17.41 7 *London, *BMC* 46; Hirmer pl. 59.172; Seltman, *GC*, pl. 26.8; Salinas 118–119, pl. 5.26–27; Lee, *NC* 1999, pl. 3.Q; *NC* 1876, pl. 4.18.
 3. 17.21 7 Galerie des Monnaies 21, 1978, 12; do. 6.11, 1976, 4; do. 25.6. 1976, 682.
 4. 16.52 Kölner Münzkabinett 14, 1974, 7.
Obv. Small crack above eagle's back: 1, 2, 3.
- 421 O17** Die of 419–425.
R84 Similar broad, square crab; big, drop-shaped eyes standing out from shallow recesses; r. claw raised above the l. one; below smaller double spiral with floral ornaments. Die of 421, 426.
 1. 17.39 11 London, Lloyd *SNG* 807; Warren 191; Sambon 14.3.1923, 246; Sotheby 2.5.1905, 11.
 2. 17.35 1 Palermo; Rizzo pl. I.7; Salinas 120, pl. 5.28 (*rev.*)
 3. 17.28 9 Formerly Moretti; Lockett, *SNG* 696; Glendining 25.10.1955, 580; Peus 368, 2001, 31; Leu 61, 1995, 52; Auctiones 13, 1983, 73; Naville 5, 1923, 819; Sotheby 5.7.1910, 9.
 4. 17.22 Niggeler I, 90.
 5. 17.02 5 *London, Lloyd *SNG* II, 808, ex. Selinunte 1923 hoard, *NC* 1925, pl. 10.3; CB 78.
 6. 17.12 Jameson 503.
 7. 16.97 SBV 33, 1993, 86; Sternberg 20, 1988, 177.
Obv. Small crack above eagle's back as last; other flaws below eagle's head, in front of eagle's legs and in r. field; all except 4 (which has no flaws).

- 422 O17¹** Die of 419–425, more worn but most of the minor flaws repaired; eagle's feet and letter C recut.
- R85** Broad and round crab with long legs; open pincers; below Nike r. with spread wings holding wreath and fillet in her outstretched hands. Die of 422, 430.
1. 17.29 Himera 1984 hoard; Mid-American Rare Coin Auctions 24.5.1985, 961.
 2. 17.27 *Formerly Imhoof-Blumer (cast at Winterthur); *SNR* 26, 1936, pl. I.9.
 3. 16.88 5 Paris, de Luynes 855; Babelon, *Traité*, pl. 78,6; Salinas 123, pl. 6.3 (*rev.*)
 4. 16.80 06 Naples Fiorelli 3915. Corroded.
- 423 O17¹** Die of 419–425. Worn die with new flaws in l. field, thin crack from letter T.
- R86** Large, square crab; pincers with 'teeth'; no symbol below.
1. 17.30 Schulman 8.6.1931, 47; do. 7.6.1937, 89; do. in stock 1951.
 2. 17.17 *Formerly Boston (03.928), Baldwin Brett 223; NFA 18, 1987, 28; do. 16, 1984, 36; do. 8, 1980, 16.
- 424 O17¹** Die of 419–425. Worn die as last.
- R87** Round crab; open pincers. Die of 424, 433.
1. – Myers list "A Numismatic Bestiary" 1973, 15.
- 425 O17¹** Die of 419–425. Worn die, damaged by many flaws, especially in l. field.
- R88** Round, broad crab with open pincers; long legs. Die of 425, 434.
1. 17.21 01 *New York (1967.152.115, Newell), *ANS SNG* 975.
- 426 O18** Similar eagle with short neck and short legs standing l. on thin Ionic capital. Die of 426–433.
- R84** Die of 421, 426.
1. 17.27 11 *MMAG 89, 2000, 29; Leu 50, 1990, 42.
 2. 17.23 9 Munich, *SNG* 73; Hess 89, 1902, 479.
 3. 17.20 11 Wien (6282).

- 427 O18** Die of 426–433.
R83 Die of 420, 427.
1. 17.32 *Formerly private collection, Germany; G. Hirsch 150, 1986, 35.
 2. 17.18 CGF XI, 21.1.2002, 17; Gorny 62, 1993, 17; do. 56, 1991, 33.
 3. 17.04 Ratto stock cat. X1, 1934, 1014; do. list 1926, 18.
 4. 16.92 Private collection X.
- 428 O18** Die of 426–433.
R89 Broad, square crab with thick claws and long legs; drop-shaped eyes sticking out from shallow recesses, separated by flat and broad middle section; below large double spiral with floral decoration at both ends.
1. 17.40 7 Paris, de Luynes 854.
 2. 17.20 11 Brussels.
 3. 17.15 Schulman 245, 1967, 1305; G. Hirsch 41, 1964, 19.
 4. 17.08 12 *Spink 20.10.1986, 64 (ex. Gillet); Leu 18, 1977, 47; Sambon 19.12.1907, 87; Giesecke, pl. 6.2.
 5. 16.80 G. Hirsch 169, 1991, 95.
- 429 O18** Die of 426–433.
R90 Similar to last; pincer on l. side more open; legs on l. side more bent.
1. 17.38 Randazzo hoard, Arnold-Biucchi, *Randazzo* 16, pl. 1; CNG 43, 1997, 113.
 2. 17.07 Aretusa 2, 1994, 90.
 3. 17.04 Peus 340, 1994, 102; Glendining 25.11.1953, 35; in trade New York 1951 (ex. Pennisi).
 4. 17.01 7 Copenhagen (Proschowsky 1937), *SNG* 43; Schulman 21.10.1912, 11; Hirsch 16, 1906, 208; *Vejledning* (1940), p. 41; *NNUM* 1940, fig. p. 173.
 5. 16.97 11 Paris (FG 41).
 6. 16.90 *Private collection X.
- 430 O18** Die of 426–433 now with thin crack between eagle's body and letter A, l. side.
R85 Die of 422, 430.
1. 17.12 12 Pennisi; Rizzo pl. I.14.
 2. 16.80 8 *London (1905.4.6.5, ex. Seltman).

- 431 O18** Die of 426–433. Flaw as last; letters on l. side elongated by cracks.
R91 Broad and round crab; open pincers; long legs wide apart; below Nike with spread wings flying r., with wreath and fillet in her outstretched hands.
1. 17.41 1 *Lisbon, *Gulbenkian I*, 157 (ex. Hirsch 1949).
 2. 17.37 9 Aberdeen, Newham Davis Collection, *SNG I*, part 2, 45.
 3. 17.30 2 Naples Fiorelli 3914; Rizzo pl. I.13 (*rev.*); Bosi, fig. p. 264.
 4. 17.17 12 Jameson 502; Triton 6, 2003, 93; Leu 71, 1997, 45 (ex. Pennisi and Gillet); *Burlington Fine Arts Club Exhibition* 1903, pl. 102, no. 148.
 5. 16.98 7 Munich, *SNG* 74.
 6. 16.91 Triton II, 1998, 147.
 7. 16.68 11 London, Lloyd *SNG* II.805; Sotheby 13.6.1911, 19.
 8. 16.65 7 Syracuse (23599, acq. 1904). Poorly preserved.
 9. – Torino, Salinas 124, pl. 6.4 (*rev.*).
- 432 O18** Die of 426–433. Worn die as last.
R92 Crab more broad than high; very long and wide open pincers; long outstretched legs pointing slightly upwards.
1. 17.45 *NFA 9, 1980, 46.
 2. 17.23 5 Pennisi; Salinas 121 (not ill.).
 3. 17.20 Stack's 10.6.1970, 119.
 4. 16.80 12 Berlin (Friedländer 1861).
 5. – Torino (collection Lavy); Salinas 121, pl. 6.1
- 433 O18** Die of 426–433. Worn die as last.
R87 Die of 424, 433.
1. 17.27 9 *Glendining 10.12.1986, 61; Hess-Leu 12.4.1962, 49 (17.34) (ex. Hirsch (N.Y.) and de Ciccio).
- 434 O19** Similar; ethnic in uneven letters; eagle has large head with strongly bent beak. Die of 434–436.
R88 Die of 425, 434.
1. 17.35 7 Berlin (Löbbecke 1906).
 2. 17.36 Private collection X; Ratto stock cat. X1, 1934, 1013; *Ars Classica* 12, 1926, 670.
 3. 17.36 *Randazzo hoard, Arnold-Biucchi, *Randazzo* 17.
 4. 17.35 Pierpont Morgan collection 108; Sambon 19.12.1907, 79.
 5. 17.10 Lanz 24, 1983, 50.
 6. 16.97 Hirsch 26, 1910, 56.
 7. – Ognina hoard; Boehringer, Ognina 21, pl. 28.
- Obv.* Flaw at letter A, l. side: all. Flaw as last and at eagle's neck: 2–5. Several other cracks between eagle's body and legend: 2, 5.

- 435 O19** Die of 434–436; die has several cracks as last.
R93 Broad crab with curved sides; big eyes separated by wavy middle section; open pincers with ‘teeth’; thin legs. Die of 435, 437.
1. 17.54 9 Berlin (4823); Regling, *MaK*, pl. 18.396; Friedländer & Sallet 554.
 2. 17.46 3 Pennisi; Salinas 122, pl. 6.2 (*rev.*).
 3. 17.26 *London (1964.13.3.28, Clark); Glendining 25.10.1938, 48; Ratto 24.6.1929, 68; Feuarent 11.6.1913, 53.
 4. 17.19 12 New York (1980.109.15, Fecht), *SNG ANS* –; *Ars Classica* 12, 1926, 668.
- 436 O19** Die of 434–436 in worn state.
R94 Similar crab but smaller; dotted outline on upper part of crab’s body; round eyes on short stalks; claws with ‘theet’ pointing upwards; long, curved legs; above letter Φ ; below big rose bud with sepals and tendrils on either side. Die of 436, 439.
1. 17.48 Glasgow, *Hunter* 16, pl. 11.12.
 2. 17.40 1 Brussels.
 3. 17.35 *Formerly Moretti; Triton I, 1997, 194; Hess-Leu 28, 1965, 51.
 4. 17.25 11 London, Lloyd *SNG* 806 (ex. Evans); Sotheby 13.6.1911, 20.
 5. 17.24 Randazzo hoard, Arnold-Biucchi, *Randazzo* 18, pl. 1.
 6. 17.20 3 Berlin (Löbbecke 1906).
 7. 16.60 11 New York (1957.172.513, Miller), *SNG ANS* 984.
 8. 16.54 6 Cambridge, *McClellan* 2022, pl. 64.12. Damaged, especially *obv.*
- 437 O20** Similar eagle with legs wide apart; thicker capital with larger volutes; uneven letters in legend; perled border. Die of 437–440.
R93 Die of 435, 437.
1. 17.35 06 Palermo; Salinas 126, pl. 6.6 (*rev.*).
 2. 17.21 03 *Palermo.
- Obv.* Thin die crack between eagle’s body and letter N, left side: 2.
- 438 O20** Die of 437–440.
R95 Square crab with long, radiating legs; small eyes in shallow recesses; below Nike with wings seen in profile flying r., holding wreath and fillet in her outstretched hands.
1. 17.36 2 Palermo; Salinas 125, pl. 6.5 (*rev.*).
 2. 17.08 *Hirsch 19, 1907, 107.
 3. 16.94 6 Athens: Naville 1 Pozzi, 1921, 382; Hirsch 32, 1912, 27.
 4. 16.18 Milan, Arslan 36.
- Obv.* Thin crack as last: 4.

- 439 O20** Die of 437–440 in worn state with several cracks between the letters on both sides.
- R94** Die of 436, 439.
1. 17.22 3 *London, *BMC* 45; Salinas 127, pl. 6.7 (*rev.*); Lee, *NC* 1999, pl. 3.R.
 2. 17.08 8 Tkalec 29.2.2000, 23.
- 440 O20** Die of 437–440. As last.
- R96** Small crab; open pincer on r. side; long parallel legs tight together; below large eight-pointed star.
1. 17.33 11 Paris; Salinas 128, pl. 6.8 (*rev.*).
 2. 17.30 NAC-M, 2002, 2138. *Obv.* Test cut.
 3. 17.10 2 Berlin (Löbbecke 1906).
 4. 17.04 6 *London, Villabate hoard (1955.11.7.3, Baldwin); Lockett *SNG* III, 697; Glendining 25.10.1955, 581; Naville I Pozzi 1921, 380; Hirsch 15, 1906, 917; Evans, *NC* 1894, pl. 7.10; Lee, *NC* 1999, pl. 3.5.
 5. 16.69 3 Pennisi; Weber 1185 (ex. W. T. Ready 1893); Naville 4, 1922, 204.

Smaller denominations, c. 450–440 BC

Didrachms

- 441 O1** Ethnic in large, thin letters; eagle with slender body standing l. on dotted line. Die of 441–443.
- R1** Crab, broad above; long pincers; radiating legs.
1. 8.87 *NAC-P 2005, 1137; formerly Moretti; Leu in stock 1954; *Ars Classica* 17, 1934, 120
 2. 8.76 Kricheldorf list 72, 1963, 10; do. 11, 1962, 44 (fig. 45).
 3. 8.68 5 Berlin(170/1885).
 4. 8.63 Monetarium list 54, 1990, 21.
 5. 8.61 *MMAG list 396, 1978, 2 (“trace de surfrappe”).
 6. 8.60 10 Pennisi.
 7. 8.56 Formerly Niggeler collection (not in Leu/MMAG 3.12.1965 catalogue); MMAG 8, 1949, 741.

8. 8.50 Santamaria 25.10.1951, 291.
 9. 8.44 5 Dewing 556 (acq. E.P. Robinson 1941; ex. Spink's 1894).
 10. 8.42 6 London (1905.4.6.6, Seltman).
 11. 8.34 Cefalù.
 12. 8.30 4 Syracuse (22708, 1903).
 13. 8.12 Müller 53, 1986, 23; Oldenburg list 14, Oct. 1985, 26; Button 119, 1972, 1057.
 14. – New York in trade 1951.

Rev. Long, thin crack across crab's legs and body, beginning on l. side: 1, 9, 14.

442 O1 Die of 441–443.

R2 Similar broad crab with flat upper part; long pincers; legs more parallel.

1. 8.52 Galerie des Monnaies 21.1978.11.
 2. 8.51 *Grabow in stock 1960; MMAG list 152, 1955, 5; Kricheldorf 5, 1958, 32 (fig. 29); do. list 16, 1957, 6; *Ars Classica* 12, 1926, 663; Naville 4, 1922, 205.
 3. 8.44 10 Palermo; Salinas 132, pl. 6.12.

443 O1 Die of 441–443, more worn.

R3 Similar crab with more rounded sides; long pincers; long thin legs; below two laurel branches, one above the other.

1. 8.42 06 *London, *SNG* Lloyd 799; Sotheby 13.6.1911, 22; de Ciccio, *Note ed appunti*, p. 12.11, 13 (collection P. Mathey).
 2. 7.55 Private collection, Ognina hoard; Boehringer, Ognina 14; *AttiMem* 5, 1925, pl. I.2 (*rev.*).

Pentalitra

444 O1 Slender eagle with long wing and short legs standing l. on Ionic capital; above eagle's back legend ΠΙΕΝ in large, thin letters; dotted border. Die of 444–445.

R1 Triangular crab with curved sides; short pincers; big eyes; below floral ornament.

1. 4.34 04 *London; Sotheby 7.3.1896.26; Salinas 165, pl. 7.19; *NC* 1999, pl. 2j.
 2. 3.88 02 Naples, Fiorelli 3954.

- 445 O1** Die of 444–445.
R2 Similar crab; below AKRA. Die of 445–447.
1. 4.26 9 London, Bank collection.
 2. 4.23 *NAC 29, 2005, 68; formerly Moretti and de Ciccio (J. Hirsch, New York).
 3. 4.18 7 Oxford, *SNG* 1672.
 4. 4.13 10 Hess-Leu 27.3.1956, 62; MMAG 8, 1949, 742.
 5. 4.10 NAC-C, 1993, 1179.
 6. 4.00 Dresden (480).
 7. 3.92 7 Gans in stock 1958; de Falco in stock 1957. Corroded.
 8. 3.50 11 Naples, Santangelo 7349.
- 446 O2** Similar eagle with broader body; shorter capital; IIEN in smaller letters.
R2 Die of 445–447.
1. 4.30 4 Copenhagen, *SNG* 46.
 2. 4.26 4 Palermo.
 3. 4.21 9 London, Lloyd *SNG* 811 (ex. Evans); Sotheby 8.4.1916, 100; do. 5.7.1910, 10.
New York Sale I. 1998, 24.
 5. 4.12 SKA 7, 1987, 92; Spink *NCirc.* July 1987, 4219.
 6. 4.11 Kunst und Münzen 26, 1988, 22.
 7. 4.10 *Berlin (Imhoof-Blumer).
 8. 4.08 11 Paris (FG 61), Babelon, *Traité* 78.14.
 9. 4.07 Paris, Luynes 849 (acq. from Rollin 1854); Babelon, *Traité* 2331; Salinas 166, pl. 7.20 (*rev.*).
 10. 4.00 12 Munich (45726, corroded), *SNG* 75; Imhoof-Blumer, *MG*, pl. A.15.
 11. 3.98 Schulman 31.5.1938, 73; Glendining 25.10.1938, 49.
 12. 3.98 8 Palermo.
 13. 3.90 12 Cambridge, *SNG* IV.913; Leake, *NH*, Sicily, p. 49.10.
- 447 O2** Die of 446–447.
R2¹ R2 but crab's legs thinner and pincers more open; only traces of legend below crab; a thin die-break between the hardly visible letters AK makes them look like N. Die of 445–447.
1. 4.25 03 *London, *BMC* 47; Salinas 167, pl. 7.21 (*rev.*).
- Note.* Salinas read the reverse legend as ΛIN retrograde.

Litrai

Series A

Obv. dies 4, *rev.* dies 3.

448	O1		<i>Obv.</i> AK/RA; eagle standing l. on Ionic capital. Die of 448–449.
	R1		<i>Rev.</i> Crab with drooping legs; small pincers; below lotus flower. Die of 448, 451, 452.
		1.	0.89 Berlin (18111).
		2.	0.89 2 Copenhagen, <i>SNG</i> 51.
		3.	0.89 8 London, <i>BMC</i> 49; <i>NC</i> 1999, pl. 2L.
		4.	0.88 8 Naples Fiorelli 3986. <i>Rev.</i> Rose bud distorted.
		5.	0.88 7 Leu 57, 1993, 18; do. 42, 1987, 78.
		6.	0.88 *G. Hirsch 179, 1993, 100. (Enl. x2)
		7.	0.87 Weber 1188.
		8.	0.87 Hess 208, 1931, 97.
		9.	0.85 1 Naples Fiorelli 3982. Oblong flan. <i>Rev.</i> Badly struck; legs on r. side elongated. Rosebud reduced to small pellet.
		10.	0.85 Naville 5, 1923, 822.
		11.	0.85 *Boston, Baldwin Brett 230; Warren 196.
		12.	0.84 Glendining 21.6.1972, 68.
		13.	0.84 *Sternberg 20, 1988, 178.
		14.	0.84 2 SBV 28, 1991, 34.
		15.	0.83 12 Berlin (Imhoof-Blumer 1900).
		16.	0.83 7 *London, <i>SNG Lloyd</i> 813; Naville 5, 1923, 821 (ex. Payne-Knight).
		17.	0.83 Egger 40, 1912, 319; do. 10.12.1906, 52.
		18.	0.82 7 Coburg.
		19.	0.82 1 Agrigento, as <i>SNG</i> 95 but not same coin.
		20.	0.82 Vecchi 6, 1997, 166.
		21.	0.81 Torino (1347).
		22.	0.81 6 Stockholm (25880, acq. Hirsch, Stockholm, 1958), <i>SNG</i> 376. <i>Obv.</i> Cut below.
		23.	0.81 NAC-H. 1998, 1134.
		24.	0.80 New York (1960.170.11), <i>SNG ANS</i> 988 (ex. MMAG).
		25.	0.80 1 Palermo.
		26.	0.80 4 Palermo (from Selinous).
		27.	0.79 9 Lockett <i>SNG</i> 709; <i>Ars Classica</i> 12, 1926, 672.
		28.	0.76 2 Syracuse (30653, acq. 1910).
		29.	0.76 MMAG 86, 1998, 98.

- | | | | | |
|------------|-----|------|----|--|
| | 30. | 0.74 | | Lanz 20. 1981, 52. |
| | 31. | 0.73 | | Vecchi 6, 1977, 167. |
| | 32. | 0.71 | | Graz, Landesmuseum. |
| | 33. | 0.70 | | Helbing 8.11.1928, 3510. |
| | 34. | 0.70 | 3 | Vienna; Salinas 169, pl. 7.23 (<i>rev.</i>). |
| | 35. | 0.70 | | NFA list 2, 1986, 4. |
| | 36. | 0.69 | 1 | Formerly New York. |
| | 37. | 0.68 | | Auctiones 8, 1978, 60. |
| | 38. | – | | Utrecht, formerly Amsterdam Akademie, <i>Beschreibung</i> fig. 2. |
| 449 | O1 | | | Die of 448–449, more worn. |
| | R2 | | | Similar crab with long pincers; legs more stretched out. Die of 449–450. |
| | 1. | 0.98 | | Coin Galleries, MB 13.11.1991, 345. |
| | 2. | 0.89 | | MMAG 28, 1964, 35. |
| | 3. | 0.89 | 10 | *Leu 81, 2001, 44; Schlessinger 4.2.1935, 227. Enl. x2. |
| | 4. | 0.88 | 5 | *London, <i>BMC</i> 48; <i>NC</i> 1999, pl. 2K. |
| | 5. | 0.87 | 4 | New York (1944.100.8209, Newell) <i>SNG ANS</i> 987. |
| | 6. | 0.87 | | Paris (FG 66). |
| | 7. | 0.85 | 12 | Naples Fiorelli 3981. |
| | 8. | 0.85 | 3 | Naples Fiorelli 3985. |
| | 9. | 0.85 | | Turin (1346). |
| | 10. | 0.79 | 3 | Basel, Historisches Museum. |
| | 11. | 0.76 | 9 | Pennisi; <i>Ars Classica</i> 16, 1933, 425. |
| | 12. | 0.76 | | MMAG list 472, 1984, 15. |
| | 13. | 0.72 | | G. Hirsch 164, 1989, 67; Leu list 19, 1984, 2. |
| | 14. | – | | Formerly Moretti |
| | | | | <i>Note:</i> For a litra of this die pair in a private collection, Sicily, with countermark of Selinous (weight not recorded) see Manganaro, <i>JNG</i> , pl. 3.23 and Arnold-Biucchi, <i>pour Denyse</i> , pl. 1.1. |
| 450 | O2 | | | AK/RA; similar eagle, head bigger with flat top; long beak. Die of 450–451. |
| | R2 | | | Die of 449–450. |
| | 1. | 0.89 | 9 | Naples Fiorelli 3984. |
| | 2. | 0.87 | | Paris Luynes 857; Salinas 168, pl. 7.22. |
| | 3. | 0.87 | | *MMAG 54, 1978, 82; do. list 319, 1971, 5. |
| | 4. | 0.82 | 2 | Winterthur, Bloesch 574. |
| | 5. | 0.80 | | Naville I Pozzi, 1921, 383. |
| | 6. | 0.80 | 12 | *New York (1944.100.8208, Newell), <i>SNG ANS</i> 986; Sambon 19.12.1907, 89. |

- | | | | | |
|------------|-----|---|------|---|
| | 7. | 0.77 | 5 | Leu 79, 2000, 329. |
| | 8. | 0.76 | 3 | Cambridge, <i>McCLean</i> 2035. |
| | 9. | 0.70 | 7 | Syracuse (5439). |
| | 10. | 0.70 | 8 | Naples Fiorelli 3983. |
| 451 | O2 | Die of 450–451. | | |
| | R1 | Die of 448, 451–452. | | |
| | | 1. | 0.85 | 4 Naples Fiorelli 3988. |
| | | 2. | 0.81 | *MMAG list 406, 1978, 15. |
| | | 3. | 0.77 | Klagenfurt, <i>SNG</i> 404. |
| | | 4. | 0.74 | 5 Pennisi. |
| | | 5. | 0.74 | G. Hirsch 156, 1987, 41; Schulten 21.10, 1986, 3. |
| 452 | O3 | AK/RA; similar eagle with longer legs standing l. on small Ionic capital. | | |
| | R1 | Die of 448, 451–452. | | |
| | | 1. | 0.84 | *Glasgow <i>Hunter</i> 21. |
| | | 2. | 0.71 | Syracuse, Gagliardi (1217). |
| 453 | O4 | AK/RA; similar eagle with large head and short legs standing l. on Ionic capital. | | |
| | R3 | Crab with long pincers and long, thin legs; big lotus flower with narrow sepals. | | |
| | | 1. | 0.87 | Baldwin in stock; Naville 6, 1923, 341; Merzbacher 5.11, 1910, 190. |
| | | 2. | 0.83 | *MMAG 77, 1992, 18; SBV 21, 1989, 13. |
| | | 3. | 0.75 | 11 Utrecht. Weekly struck. |
| | | 4. | – | St. Petersburg (0001). |

Series B.1. Rev. letters ΛI (or ΛIT)

Obv. dies 41; *rev.* dies 38.

- | | | | | |
|------------|----|---|------|---|
| 454 | O5 | AKP retrograde above eagle's back; eagle standing r.; no support visible. | | |
| | R4 | Crab with big, round eyes and small pincers; below ΛIT retrograde. | | |
| | | 1. | 0.80 | 12 *Berlin (Imhoof-Blumer); Imhoof-Blumer, <i>MG</i> , p. 14.3, pl. A.15. |

Principal types:

Obv. AK/RA; eagle standing l. on line above thin Ionic capital with small volutes. Dotted border.

Rev. Crab with long pincers; below ΛI.

- 455** O6
R5 *Obv.* Capital without volutes.
1. 0.87 *CNG 41, 1997, 163.
- 456** O7
R6 *Obv.* Line below capital.
1. 0.62 11 *Waggoner, *Rosen*, 30; Meyers list January 1982, 16; Peus 250, 1954, 117; Grabow 14, 1939, 124. Enl. x2.
2. 0.59 12 Pennisi.
- 457** O8
R7 *Obv.* Die of 457–459.
1. 0.66 9 *New York (944.100.8210, Newell), *SNG ANS* 989.
2. 0.62 1 Palermo.
- 458** O8
R8 *Obv.* Die of 457–459.
Rev. Die of 458, 460, 463.
1. 0.63 6 Munich, *SNG* 77. Pierced.
2. 0.58 Syracuse (39344), Agrigento 1918 hoard, Boehringer, *Barbarisierte Münzen*, pl. 25.31.
3. 0.45 11 * Formerly de Laval collection, Stockholm. Broken.
- 459** O8
R9 *Obv.* Die of 457–459.
Rev. Die of 459, 462, 464.
1. 0.45 *Sambon-Canessa 27.6.1927, 663.
- 460** O9
R8 *Obv.* Die of 460–461.
Rev. Die of 458, 460, 463.
1. 0.66 Syracuse, Gagliardi (982).
2. 0.61 *Oxford, *SNG* 1673 (Evans 1941); Zodda, pl. I.15 (*rev.*).
- 461** O9
R10 *Obv.* Die of 460–461.
1. 0.68 Vinchon 11.4.1988, 237; Glendining 9.3.1931, 898; Grabow 9.7.1930, 182.
2. 0.60 7 *Paris (FG 67).
- 462** O10
R9 *Obv.* Dotted capital; another line below.
Rev. Die of 459, 462, 464.
1. 0.71 7 Pennisi.
2. 0.70 11 *Brussels. *Rev.* Double-struck.

- | | | | | |
|------------|-----|--|------|---|
| | | 3. | 0.62 | Schulten 21.10.1986, 4. |
| | | 4. | 0.59 | Astarte 9, 2002, 31. |
| | | 5. | 0.55 | Künker 71, 2002, 72. |
| | | 6. | 0.51 | Leu in stock 1951. |
| | | Same obv., uncertain rev. | | |
| | | 7. | 0.60 | Riechmann 30, 1924, 207. |
| | | 8. | 0.55 | 7 Munich, <i>SNG</i> 78. Boehringer, Barbarisierte Münzen, pl. 25.13. Worn. |
| 463 | O11 | <i>Obv.</i> Thicker capital. Die of 463–466. | | |
| | R8 | <i>Rev.</i> Die of 458, 460, 463. | | |
| | | 1. | 0.56 | *Sambon-Canessa 27.6.1927, 664. |
| 464 | O11 | <i>Obv.</i> Die of 463–466. | | |
| | R9 | <i>Rev.</i> Die of 459, 462, 464. | | |
| | | 1. | 0.60 | 6 *Vienna; Salinas 174, pl. 7.28. |
| | | 2. | 0.56 | 12 Syracuse (5440). |
| | | 3. | 0.55 | Gorny 28, 1984, 3198. |
| | | 4. | 0.53 | Spink <i>NCirc.</i> 3, 1998, 1692; Elsen 17, 1990, 21. |
| | | 5. | – | Kurpfälzische Münzhandlung 23.10.1982, 16. |
| | | 6. | – | St. Petersburg. |
| 465 | O11 | <i>Obv.</i> Die of 463–466. | | |
| | R11 | <i>Rev.</i> Die of 466–467. | | |
| | | 1. | – | St. Petersburg. |
| 466 | O11 | <i>Obv.</i> Die of 464–466. | | |
| | R12 | <i>Rev.</i> Die of 466–467. | | |
| | | 1. | 0.75 | G. Hirsch 229, 2003, 1565; do. 224, 2002, 32. |
| | | 2. | 0.57 | G. Hirsch 199, 1998, 35. |
| | | 3. | 0.55 | 11 *Formerly New York. |
| | | 4. | 0.53 | Kricheldorf 41, 1988, 50. |
| 467 | O12 | <i>Obv.</i> Die of 467–468. | | |
| | R12 | <i>Rev.</i> Die of 466–467. | | |
| | | 1. | 0.70 | 11 Naples Fiorelli 3993. |
| | | 2. | 0.62 | *Weber 1190. |
| | | 3. | 0.60 | CNG 45, 1998, 74. |
| | | 4. | 0.57 | Peus 345, 1995, 34. |
| | | 5. | 0.57 | Astarte 9, 2000, 28. |
| | | 6. | 0.57 | NFA 4, 1977, 55; do. MB Fall 1990, 59. |
| | | 7. | 0.54 | 3 Oslo. |

- 468** O12 *Obv.* Die of 467–468.
R13 *Rev.* Die of 468–469.
1. 0.67 1 *Agrigento, *SNG* –.
 2. 0.67 1 Palermo (69). Worn. *Rev.* uncertain.
 3. 0.64 Schulman 262, 1975, 1022.
 4. 0.63 10 Berlin (Imhoof-Blumer 1900).
- 469** O13
R13 *Rev.* Die of 468–469.
1. 0.78 6 *London, *BMC* 50.
 2. 0.67 Auctiones 25, 1995, 76.
 3. 0.64 7 Cambridge, *McClellan* 2036, pl. 65.7.
 4. 0.63 NAC-O, 2004, 1487; Vinchon 13.4.1985, 64; Jameson 506.
 5. 0.61 3 Copenhagen, *SNG* 48.
 6. 0.59 6 Coburg.
 7. 0.58 Pennisi.
- 470** O14 *Obv.* Capital without volutes. Die of 470–471.
R14 *Rev.* Die of 470, 472.
1. 0.56 *MMAG list 431, 1981, 7. Enl. x2.
- 471** O14 *Obv.* Die of 470–471.
R15 *Rev.* Die of 471, 473.
1. 0.67 12 *Berlin (Imhoof-Blumer 1900).
- 472** O15 *Obv.* Dotted capital. Die of 472–473.
R14 *Rev.* Die of 471–473.
1. 0.60 5 *Pennisi; Salinas 170, pl. 7.24 (*obv.*).
- 473** O15 *Obv.* Die of 472–473.
R15 *Rev.* Die of 471, 473.
1. 0.57 12 *Berlin (6632).
- 474** O16 *Obv.* Dotted capital.
R16
1. 0.68 *Lockett, *SNG* 710; Weber 1189 (ex. Virzi, acq. Palermo, 1902).
 2. 0.64 Glasgow, *Hunter* 22.
 3. 0.64 12 Palermo 68.
 4. 0.57 2 Cefalù.
- Obv.* Flaw on eagle's neck: 1, 4.

- 475** O17 *Obv.* Thick and curved capital with die flaw on r.side.
R17
1. 0.68 4 *Budapest, *SNG* 23.
 2. 0.65 7 Paris (FG 63).
 3. 0.61 3 Pennisi. *Obv.* Eagle's head off flan.
 4. 0.60 Peus 372, 2002, 83 (0.55); Lanz 34, 1985, 65.
- Obv.* Flaw on capital: 2.
- 476** O18 *Obv.* Short, curved capital, similar to last.
R18
1. 0.66 8 *Agrigento, *SNG* 96.
- 477** O19 *Obv.* Curved capital with large volute on l. side
R19
1. 0.56 Astarte 2, 1999, 55.
 2. 0.45 5 *New York (1944.100.8211, Newell), *SNG ANS* 993.
Worn.
- Same *rev.*, uncertain *obv.* with flaw on capital, r. side.
3. 0.53 Cambridge, *McClellan* 2037.
- 478** O20 *Obv.* Thick, curved capital, large volutes with dots. Die of 478–479.
R20 *Rev.* Die of 478, 480, 481, 482
1. 0.78 *Private collection X; Helbing 8.11.1928, 3512;
Santamari 6.4.1908, 142.
 2. 0.68 Santamaria in stock 1951.
 3. 0.62 Naples Fiorelli 3989.
 4. 0.62 Budapest, *SNG* 24.
 5. 0.61 MMAG list 607, 2001, 27; MMAG 88, 1999, 59.
 6. 0.58 5 Berlin (Löbbecke 1905).
 7. 0.58 7 Naples Santangelo 7362.
 8. – St. Petersburg (Q11).
- Rev.* Small flaw on crab's legs, r. side: 7.
- 479** O20 *Obv.* Die of 478–479.
R21 *Rev.* Die of 479, 483, 487.
1. 0.62 *Private collection X.
 2. 0.56 Vecchi 7, 1997, 150.
- 480** O21 *Obv.* Thick capital, volutes with dots.
R20 *Rev.* Die of 478, 480–482.
1. – *Formerly Moretti (ex. J. Hirsch, New York).

- 481** O22 *Obv.* Similar to last.
R20 *Rev.* Die of 478, 480–482.
1. 0.64 9 *New York (1941.153.227, Beatty), *SNG ANS* 990; Sambon 19.12.1907, 86.
 2. 0.64 3 Formerly Moretti.
- 482** O23 *Obv.* Capital has very small volutes.
R20 *Rev.* Die of 478, 480–482.
1. 0.64 5 *Tkalec 19.2.2001, 23; Lanz 24, 1983, 49; MMAG list 406, 1978, 16.
 2. – Glendining 8, 1971, 32.
- Same *rev.*, uncertain *obv.*:
3. 0.67 CNG 24, 1992, 176.
- 483** O24 *Obv.* Similar to last. Die of 483–484.
R21 *Rev.* Die of 479, 483, 487
1. 0.65 Astarte 9, 2002, 30. *Obv.* Corroded.
 2. 0.62 Private collection, Paris; MMAG list 527, 1984, 4.
 3. 0.61 Kölner Münzkabinett 51, 1990, 53.
 4. 0.57 Vecchi 6, 1997, 168.
 5. 0.56 *MMAG list 563, 1993, 22; do.list 560, 1992, 4. *Rev.* Pincer on l. side weekly struck. Enl. x2.
 6. 0.51 7 *London, *BMC* 51.
 7. 0.46 MünzZentrum 66, 1989, 92.
 8. 0.44 Peus 300, 1981, 55.
- 484** O24 *Obv.* Die of 483–484.
R22
1. 0.63 7 *Pennisi; Salinas 172, pl. 7.26 (*obv.*).
- 485** O25 *Obv.* Thick capital with large volutes. Die of 485–486.
R23
1. 0.71 *MMAG list 395, 1977, 2.
 2. 0.69 1 Formerly private collection, Sicily.
 3. 0.67 1 Formerly New York, Metropolitan Museum; Ward 137; Sotheby 4.4.1973, 4112.
 4. 0.65 5 Formerly Benson collection.
 5. 0.64 Nordlinds Mynthandel in stock 1989; MMAG list 424, 1980, 22.
 6. 0.64 Astarte 9, 2002, 32.

- 486** O25 *Obv.* Die of 485–486.
R24
1. 0.65 1 *London (1927.4.3.2, Spink).
 2. 0.63 Astarte 9, 2002, 29.
 3. 0.60 7 Naples Fiorelli 3990.
- 487** O26(?) *Obv.* Similar but thin capital. Die of 487–488.
R21 *Rev.* Die of 479, 483, 487.
1. 0.61 *Peus 376, 2003, 146.
- 488** O26 *Obv.* Die of 487–488 (?)
R25 *Rev.* Die of 488–489.
1. 0.75 G. Hirsch 224, 2002, 31. *Rev.* Weekly struck.
 2. 0.69 *MMAG list 607, 2001, 28. Enl. x1.5.
 3. 0.60 *Hamburger 98, 1933, 142.
- Rev.* Flaw on crab's shell above; 1, 2.
Same *rev.*, uncertain *obv.*:
4. 0.67 Munich, *SNG* 76. Boehringer, Barbarisierte Münzen, pl. 25.12.
 5. 0.55 2 Winterthur, Bloesch 575.
- 489** O27 *Obv.* No volutes on capital.
R25 *Rev.* Die of 488–489.
1. 0.64 Peus 301, 1981, 147.
 2. 0.59 09 *New York (1944, 100.8213, Newell), *SNG ANS* 995.
- 490** O28 *Obv.* Similar.
R26 *Rev.* Die of 490–491.
1. 0.57 5 *Palermo 63.
- 491** O29 *Obv.* Die of 491–492.
R26 *Rev.* Die of 490–491.
1. 0.51 11 Pennisi 51.
 2. – *Weil 7.11.2000, 13. Enl. x1.5.
- 492** O29 *Obv.* Die of 491–492.
R27 *Rev.* Die of 492–495.
1. 0.54 G. Hirsch 196, 1997, 129.
 2. 0.53 7 *Nomos, Kriens, in stock 1979. *Obv.* Flaw in front of eagle.

- 493** O30 *Obv.* Similar.
R27 *Rev.* Die of 492–495.
1. 0.73 *Myers 9, 1974, 31.
2. 0.52 8 Cambridge, *SNG* 914.
3. 0.50 2 Naples Fiorelli 3992.
- 494** O31 *Obv.* Similar
R27 *Rev.* Die of 492–495.
1. 0.75 7 New York (1955.54.54, Cammann), *SNG ANS* 992.
2. 0.65 Vatican (cat.19). *Obv.* Lumps of corrosion in front of eagle.
3. 0.64 *NFA MB 27.6. 1986, 86.
4. 0.54 11 Catanzaro.
5. 0.49 10 Syracuse (25275, acq. 1906).
6. 0.47 2 Copenhagen, *SNG* 50.
- 495** O32 *Obv.* Similar.
R27 *Rev.* Die of 492–495.
1. 0.36 *Private collection X.
- 496** O33 *Obv.* Similar.
R28 *Rev.* Similar.
1. 0.60 6 *Harvard, Dewing 557; Lockett, *SNG* 711; Spink, *NCirc.* Sept. 1956, 7001; *Ars Classica* 12, 1926, 673.
- 497** O34
R29
1. 0.65 12 *Berlin (Imhoof-Blumer).
2. 0.64 Aufhäuser 8, 1991, 16.
3. 0.57 Astarte 12, 2003, 46.
4. 0.45 Peus 355, 1998, 638.
- 498** O35
R30
1. 0.73 Merzbacher 5.11.1910, 191.
2. 0.67 Paris Luynes 850; Babelon, *Traité* 2333, pl. 78.16; Salinas 171, pl. 7.25 (*obv.*).
3. 0.65 Dresden (477).
4. 0.62 Peus 340, 1994, 103.
5. 0.62 Peus 348, 1996, 30.
6. 0.60 9 Brussels.
7. 0.59 2 Syracuse (4937).
8. 0.57 Egger 40, 1912, 320.
9. 0.57 *NAC-O, 2004, 1257; formerly Moretti.

- 499** O36 *Obv.* Dotted capital; no volutes.
R31
1. 0.66 2 *Waggoner, *Rosen* 31; Myers list January 1982, 17.
Enl. x2.
- 500** O37
R32
1. 0.51 *Aarhus, *SNG Fabricius*, part 2, 183 (ex. Martyn 1939);
Neville 5, 1923, 823. Enl.
- 501** O38
R33
1. 0.54 10 *New York (1957.172.515, H. Miller), *SNG ANS* 991.
- 502** O39
R34
1. 0.65 *Sternberg 12, 1982, 60.
- 503** O40
R35
1. 0.64 *Klagenfurt, *SNG* 403.
- 504** O41 *Obv.* Die of 504–505.
R36
1. 0.56 2 London, *BMC* 52.
Note: The faint letters on the reverse seem to be ΛΛΙ as noted in the
BMC.

Series B.2. Rev. letters IA

Obv. dies 8, *rev.* dies 6.

- 505** O41 *Obv.* Die of 504–505
R37
- | | | | |
|----|------|---|--|
| 1. | 0.56 | 2 | *London, Lloyd <i>SNG</i> 812; Naville 5, 1923, 824. |
| 2. | 0.46 | 2 | Palermo 71. |
- 506** O42
R38 *Rev.* Die of 506–507, 509.
- | | | | |
|----|------|---|--|
| 1. | 0.70 | 4 | Pennisi; Salinas 175, pl. 7.28. |
| 2. | 0.61 | 7 | *Stockholm, <i>SNG</i> Gustaf VI Adolf 24; <i>SNG Lockett</i> 712. |
| 3. | 0.56 | 1 | Palermo 67. |
- 507** O43 *Obv.* Die of 507–508.
R38 *Rev.* Die of 506–507, 509.
- | | | | |
|----|------|---|------------------------|
| 1. | 0.60 | 9 | Syracuse (6926). |
| 2. | 0.60 | | Lanz 38, 1986, 89. |
| 3. | 0.55 | | Astarte 11, 202, 161. |
| 4. | 0.52 | 3 | Naples Fiorelli 3994. |
| 5. | – | | *Leczyk 50, 1982, 870. |
- 508** O43 *Obv.* Die of 507–508.
R39
- | | | | |
|----|------|---|---|
| 1. | 0.71 | | *NFA MB 18.10.1990, 60 (0.57); NFA 8.12.1982, 20. |
| 2. | 0.65 | 1 | Syracuse (5446). |
- Rev.* Thin crack on r. claw: 1, 2.
- 509** O44
R38 *Rev.* Die of 506–507, 509.
- | | | | |
|----|------|---|---|
| 1. | 0.57 | 9 | *Copenhagen (acq. 1856), <i>SNG</i> 49. |
|----|------|---|---|
- 510** O45
R40
- | | | | |
|----|------|----|---|
| 1. | 0.63 | | *Formerly Moretti; Sternberg 20, 1988, 179. |
| 2. | 0.63 | 10 | Syracuse (6925). |

- 511** O46 *Obv.* Similar
R41 *Rev.* Similar
- | | | | |
|----|------|---|---|
| 1. | 0.73 | | MMAG list 570, 1993, 36; do. list 538, 1990, 6. |
| 2. | 0.60 | | *Private collection, Paris; <i>Studies Mildenberg</i> , pl. 2.10.
Enl. x2. |
| 3. | 0.58 | | MMAG 75, 1989, 122. |
| 4. | 0.46 | 5 | Syracuse (26506); Boehring, Barbarisierte Münzen,
pl. 25.7. |
- 512** O47
R42 *Rev.* Die of 512–513.
- | | | | |
|----|------|--|----------------------------|
| 1. | 0.64 | | *Waddell list 2, 1982, 75. |
| 2. | 0.51 | | Vinchon 11.4.1988, 238. |
- 513** O48 *Obv.* Very small capital.
R42 *Rev.* Die of 512–513.
- | | | | |
|----|------|---|---|
| 1. | 0.75 | | MMAG 88, 1999, 60; do. list 494, 1986, 6. |
| 2. | 0.60 | 6 | *Vienna. |
| 3. | 0.51 | 2 | New York (1983.51.7). |
- 514** Not classified litrai in public collections.
- | | | | |
|-----|------|----|-------------------------------|
| 1. | 0.80 | 1 | Naples Fiorelli 3987. |
| 2. | 0.77 | 9 | Tübingen, <i>SNG</i> 560. |
| 3. | 0.67 | | London (1928, 8.4.2 Pigott). |
| 4. | 0.66 | 6 | Agrigento, <i>SNG</i> –. |
| 5. | 0.56 | 3 | Palermo. |
| 6. | 0.54 | 11 | London (1904, 1.1.4 Howorth). |
| 7. | 0.54 | | Göttingen (AS 95–10) |
| 8. | 0.50 | 6 | Palermo. |
| 9. | 0.50 | 1 | Tübingen, <i>SNG</i> 561. |
| 10. | 0.46 | | Naples Santangelo 7361. |
| 11. | 0.44 | 8 | Palermo. |
| 12. | – | | Naples, Fiorelli 4062. |

Pentonkia

Due to the minute size of the smallest fractions it has not been possible to arrange them in a die sequence. Only a few die identities have been observed.

A. Eagle standing left

- 515** *Obv.* AK/..A; eagle standing l. on Ionic capital. Dotted border.
Rev. Eagle's head r. within five circles.
- | | | | |
|----|------|----|---|
| 1. | 0.27 | | *Manganaro collection, S. Agata; Manganaro, <i>Travaux Le Rider</i> , pl. 23.26. Enl. x2. |
| 2. | 0.23 | 11 | Palermo. |
| 3. | 0.21 | 11 | *Syracuse (5445, acq. 1885). |
| 4. | 0.20 | | Egger 12.11.1913, 237. |
- Note.* All coins seem to be of the same die-pair. Manganaro, *Travaux Le Rider*, reads the legend as AK/PA, but the third letter is hardly legible. When legible on 516–519 the letter form is R.
- 516** *Obv.* AK/RA retrograde; eagle standing l. on Ionic capital. Dotted border.
Rev. Five pellets in shallow incuse.
- | | | | |
|-----|------|--|--|
| 1. | 0.30 | | *Paris (FG 71), Babelon, <i>Traité</i> , pl. 78.19; Salinas 178, pl. 7.32; Salinas, <i>AttiMem</i> 1, 1913, p. 126, fig. 1. <i>Rev.</i> Small flaws between the pellets. |
| 2. | 0.29 | | *Berlin (Imhoof-Blumer 1900). Same dies as 11. Enl. x2. |
| 3. | 0.28 | | *Private collection, Paris; Leu 2, 1972, 66; Hess 15.2.1934, 129; <i>Ars Classica</i> 16, 1933, 427; <i>Studies Mildenberg</i> , pl. 2.9. Enl. x2. |
| 4. | 0.26 | | MünzZentrum 74, 1992, 129. |
| 5. | 0.26 | | CNG 41, 1997, 164; <i>Sternberg</i> 31, 1996, 404. |
| 6. | 0.25 | | <i>Auctiones</i> 8, 1978, 61. |
| 7. | 0.22 | | *Stockholm (100 835); Knopek list 11, 1982, 11. Probably same dies as no. 14. |
| 8. | 0.22 | | Formerly Moretti (ex. Leu 1974). |
| 9. | 0.21 | | Palermo. |
| 10. | 0.20 | | Palermo. |
| 11. | 0.20 | | Santamaria in stock 1951. Same dies as no. 2. |
| 12. | 0.20 | | New York (1944.100.8214, Newell), <i>SNG ANS</i> 996. Broken and glued. |
| 13. | 0.20 | | Astarte 6, 2000, 95; formerly Moretti (acq. in Sicily 1974) |
| 14. | 0.18 | | *Ceresio 26.9.1987, 31. Probably same dies as no. 7. Enl. x3. |

- | | | |
|-----|------|--|
| 15. | 0.17 | Cambridge, <i>McClellan</i> 2038, pl. 65.8 |
| 16. | 0.15 | Paris (FG 72). |
| 17. | – | Hirsch, New York, in stock in the 1950s (ex. de Ciccio). |
| 18. | – | Cammarata collection; Cammarata, pl. IB.24. |

517 *Obv.* As last but no border visible.

Rev. As last.

- | | | |
|----|------|--|
| 1. | 0.32 | Cambridge, <i>SNG</i> IV, 915; Leake, <i>NH</i> , Sicily, p. 50,7; Mommsen, <i>RM</i> , p. 82, note 10. Same dies as nos. 4 and 5. |
| 2. | 0.21 | Winterthur, Bloesch 576; Lockett, <i>SNG</i> part 2, 713; Weber 1192. |
| 3. | 0.18 | *London; Sothby 7.3.1896, 27. Same dies as nos. 1 and 5. Sotheby |
| 4. | 0.16 | Naples Fiorelli 3997. Same dies as nos. 1 and 4. |
| 5. | 0.15 | *London, <i>SNG Lloyd</i> 814 (Evans); Sotheby 8.5.1916, 101. |

518 *Obv.* KA–RA; as last. Dotted border.

Rev. As last.

- | | | |
|----|------|---|
| 1. | 0.21 | Munich, <i>SNG</i> –; Manganaro, <i>JNG</i> , pl. 4.39. |
|----|------|---|

B. Eagle standing right.

519 *Obv.* Traces of AK retrograde/RA; eagle standing r. on Ionic Capital. Dotted border.

Rev. As last.

- | | | |
|----|------|--|
| 1. | 0.22 | Palermo; Salinas 177, pl. 7.31. |
| 2. | 0.21 | *Sternberg 20, 1988, 181. |
| 3. | 0.19 | NAC-O, 2004, 1258, ex. Moretti. |
| 4. | 0.17 | *New York (1944.100.8215, Newell), <i>SNG ANS</i> 997. |
| 5. | 0.17 | *Astarte 14, 2004, 65; do. 9, 2002, 33. Enl. x2. |
| 6. | 0.16 | *Syracuse (24277, acq. 1904). |
| 7. | 0.15 | Naples Fiorelli 3996. |
| 8. | 0.12 | Naples Fiorelli 3995. |

Imitation?

520 *Obv.* A/K; eagle standing l. on capital formed like a bent line; no border.

Rev. As last.

- | | | |
|----|------|------------------------------|
| 1. | 0.16 | Berlin (Imhoof-Blumer 1900). |
|----|------|------------------------------|

Dionkia/Hexantes

- 521** *Obv.* A below eagle head l. Dotted border.
Rev. Two pellets with two pairs of semi-circles on either side; slightly concave flan.
1. 0.07 *Manganaro collection, S. Agata; Manganaro, *Travaux Le Rider*, pl. 23.25–25A. Enl. x 4.
- 522** *Obv.* As last.
Rev. Two pellets in plane, slightly concave field.
1. 0.11 Private collection; Manganaro, *JNG*, pl. 4.38.
 2. 0.08 Formerly Giesecke collection; Giesecke, pl. 6.9.
 3. 0.07 *Syracuse (13973, acq. 1894); Orsi, *AttiMem* 1921, p. 9, fig. 2(b).
 4. 0.07 Palermo.
 5. 0.06 Palermo.
 6. – Formerly private collection, Sicily; Salinas, pl. 7.33; Salinas, *RN* 1867, p. 342, note 4.
 7. – Cammarata collection; Cammarata, pl. IB.24a.
- 523** *Obv.* As last but eagle's head turned r.; in front letter A.
Rev. Two pellets in plain concave field.
1. 0.08 *Syracuse (13973, acq. 1894); P. Orsi, *AttiMem.* 4, 1921, p. 9, fig. 2(a). Enl. x 2.
 2. 0.07 Palermo.
 3. 0.07 *Cambridge, General collection, *SNG* –. *Obv.* No letter visible.
- Note to 3.* On the museum ticket the type is described as "eagle's claw", but the eye in shape of a dot shows that it is the normal type, an eagle's head.

Cast bronze coinage, c. 440–430 BC

Series A. Without marks of value

Uncertain denomination. Round flan

524			<i>Obv.</i> No ethnic. Eagle standing l.
			<i>Rev.</i> Broad and round crab with long claws.
1.	10.24		Private collection, Calciati I, 9.
2.	9.70		*Mini 6.
3.	9.33		NAC 13, 1998, 255; formerly Moretti; Antikenmuseum Basel 255.
4.	9.29		Vecchi 10, 1998, 108.
5.	9.10		*Berlin (Imhoof-Blumer 1900); Westermark, <i>Le origini</i> , pl. 1.5.
6.	9.09		Syracuse, Pennisi; Salinas 218, pl. 9.12.
7.	9.07		Stockholm (100 931); SKA list 39, 1982, 30; Bonhams 7, 1982, 66; do. 4.12.1980, 283; SBV list Autumn 1975, 24.8. 9.02 New York (1905.57.42, Parish), <i>SNG ANS</i> 1021; Calciati I, 9/2.
9.	8.95	5	*Copenhagen, <i>SNG</i> 64.
10.	8.86		Palermo, Gàbrici, p. 113.51, pl. I.8.
11.	8.85	2	Formerly Benson collection, Great Neck.
12.	8.65		Private collection, Calciati I, 9/1.
13.	8.46		Milan, Arslan 31.
14.	8.30		*Private collection, Calciati, <i>Koinon</i> , 43.
15.	7.30		Private collection, Calciati I, 9/3.
16.	–		Formerly Caruso collection.
17.	–		Nicola list March 1966, 158.

Series B. With marks of value

Note. Owing to the often poor state of preservation of the cast coins and to the unsatisfactory illustrations in many catalogues it has not been possible to identify the individual pieces for certain. The same coin may appear twice or more. Coins of series B are common. Only a selection, mainly in public and published private collections, has been listed in the catalogue.

Triantes. Cone-shaped with rounded base and flat top with four large pellets

- 525: A** *Obv.* Eagle standing l. Above to r. of eagle, letters AK or retrograde.
Rev. Broad, triangular crab with rounded sides; long claws.
1. 16.92 MMAG Deutschland 14, 2004, 372; Sternberg 15.11.1979, 4.
 2. 16.88 *MMAG, list 387, 1977, 5.
 3. 16.50 *Mini collection K retrograde above, A below eagle's tail.
 4. 16.47 Palermo, Gàbrici p. 113.1, pl. 1.2. K(A?) retrograde above.
 5. 15.99 NAC 13, 1998, 256; formerly Moretti; Antikenmuseum Basel, 256.
 6. 15.94 Morcom, *SNG* 515.
 7. 15.93 New York (1906.24.4, Lathorp), *SNG ANS* 1016. Letters AK faintly visible. Pellets on top almost obliterated.
 8. 15.29 London, *BMC*, p. 23, 1; Salinas 213, pl. 9.7; de Waele, pl. 2.6.
 9. 15.26 Palermo, Gàbrici, p. 113. 2, pl. I.1.
- Obv.* As last but no letters visible.
Rev. As last.
10. 21.89 NAC 5, 1992, 49.
 11. 21.65 NAC-H, 1998, 1135; Sternberg 27,1994, 106.
 12. 20.05 Müller 30, 1980, 34.
 13. 18.00 Syracuse, from Megara Hyblaea (tomb 69).
 14. 17.53 Copenhagen, *SNG* 61 (ex. Rollin & Feuarent 1878).
 15. 17.53 CNG 36, 1995, 1749.
 16. 17.12 Franke collection, Munich.
 17. 16.71 London (1947.6.5.960, Cameron).
 18. 16.58 Cambridge, *McClean* 2052; Egger 26.11.1909, 110.
 19. 16.53 Berlin (Imhoof-Blumer 1900).
 20. 16.50 Private collection, Calciati I, 1.
 21. 16.25 Palermo (H68.273.1), *Himera II*, p. 724.88, pl. 118.13.
 22. 16.25 London, *SNG* Lloyd 832.
 23. 16.17 London (1906.11.3.2567, Parker Weber).
 24. 16.12 Stockholm (30200), *SNG* 379 (Leu 1974, ex. Virzi 553).
 25. 16.04 Private collection, Calciati I, 1/1.
 26. 16.02 Berlin (Imhoof-Blumer 1900).
 27. 15.87 Palermo (H71.92), *Himera II*, p. 761.458, pl. 117.4.
 28. 15.70 Private collection, Calciati I, 1/2.
 29. 15.67 Private collection, Oxford. With five pellets on top.
 30. 15.58 Rome, Museo Nazionale.
 31. 15.57 Rome, Museo Nazionale.

32. 15.44 Parma (1273).
 33. 15.39 Formerly Virzi (552).
 34. 15.24 Pennisi.
 35. 15.00 Syracuse, from Megara Hyblaea (tomb 69).
 36. 14.96 Budapest, *SNG I*:3, 33.
 37. 14.94 London (1927.7.12.1, Brooke).
 38. 14.90 Private collection, Calciati I, 1/3.
 39. 14.89 *Formerly Virzi (551).
 40. 14.81 Catania, Castello Ursino.
 41. 14.74 *SNG Fabricius*, part 2, 185.
 42. 14.58 London, *BMC*, p. 24, 2.
 43. 14.27 Waggoner, *Rosen* 33.
 44. 14.06 London (1900.3.4.5, Evans).
 45. 13.94 Florence.
 46. 13.92 Auctiones 27, 1996, 62.
 47. 13.78 Private collection, Calciati I, 3.
 48. 13.60 New York (1955.54.55, Cammann), *SNG ANS* 1015.
 49. 13.49 Private collection, Calciati I, 2CT.
 50. 13.47 Palermo (H71.614), *Himera II*, p. 763.482, pl. 118.17 (top); Vassallo, pl. II.3 (obv.).
 51. 13.16 Private collection, Calciati I, 1/4.
 52. 13.20 Private collection, Calciati I, 1/5.
 53. 12.76 NFA MB 18.12.1987, 76; Waggoner, *Rosen* 32.
 54. 12.56 New York (1944.100.8223), *SNG ANS* 1017.
 55. 11.22 Private collection, Calciati I, 1/6.
 56. 10.63 London (1867.7.12.29, Sambon).
 57. 10.24 London (1906.11.3.2568, Parkes Weber).

Note to 47: Calciati describes this piece as having ‘three crab’s claws in form of trident’ on the reverse. No such type exists. The explanation may be that the crab’s shell has two sunken parts as a result of an unsuccessful casting. The claws are held in an upright position as on many other pieces.

525:B

Obv. Eagle standing r.

Rev. Crab with curved sides; knob between the eyes; short claws.

58. 15.40 Palermo, Gàbrici, p. 113.3 (not ill.).
 59. 13.68 Private collection, Calciati I, 5CT.
 60. 13.28 Private collection, Calciati I, 4. *Obv.* Above AK.
 61. 13.24 Florence.
 62. 13.14 Private collection, Calciati I, 4/1.
 63. 12.28 MMAG list 409, 1979, 2.
 64. 9.98 Monetaarium list 50, 1988, 10.
 65. 9.60 Mini (ex. Caruso).

Tetrantes. Triangular cone with pointed base and flat top with three large pellets

526

Obv. Heads and necks of two eagles back to back; below letters A/K.

Rev. Broad, triangular crab; below letters RA or PA.

1. 13.65 *Mini 3a; Calciati I, 6 mv1. *Obv.* A to I. *Rev.* Below to I, P, to r. A; between letters, kerykeion. Only two pellets visible on top.
2. 12.90 Private collection, Calciati I, 6. *Obv.* Below A/K.
3. 12.55 Palermo, Gàbrici, p. 113.17, pl. I.4. *Obv.* Below A/K. *Rev.* Below R/A.
4. 12.25 London, *BMC*, p. 24.3; de Waele, pl. 2.5. *Obv.* Below to I, letter A sideways.
5. 12.03 *MMAG list 497, 1987, 6. *Obv.* Below A/K. *Rev.* Below R/A. Small casting defect.
6. 11.81 Copenhagen, *SNG* 62. *Obv.* Below, l. side, traces of letter A.
7. 11.51 Peus 361, 1999, 11. *Obv.* Below A/K. *Rev.* Below R or P/A.
8. 11.25 *NAC-C, 1993, 1180. *Obv.* Below to I, A.
9. 11.15 Mini 3. *Obv.* To I, letter A.
10. 10.88 *MMAG list 504, 1987, 8. *Obv.* Below A/K. *Rev.* Below PA. Casting defect on crab's body.

Obv. and *rev.* As last but no letters visible.

11. 14.77 London (1867. 2.12.27, Sambon).
12. 13.32 Palermo (H68.443.5), *Himera* II, p. 726.106, pl. 117.19.
13. 12.80 London (1947. 6.6.961, Cameron).
14. 12.63 London, *SNG Lloyd* 833.
15. 12.62 Rome.
16. 12.62 Private collection, Calciati I, 6/1.
17. 12.53 Palermo, Gàbrici, p. 113.18, pl. 1.5.
18. 12.33 Kölner Münzkabinett 25, 1979, 9.
19. 12.31 Formerly Virzi (556).
20. 12.22 London (Goo 96).
21. 12.18 London, *BMC*, p. 24.4; *Money, a History*, p. 34, fig. 39.
22. 12.01 Berlin (Imhoof-Blumer 1900).
23. 11.98 Weber 1193 (acq. Girgenti 1889).
24. 11.92 Florence.
25. 11.86 *Stockholm (acq. MMAG 1976).
26. 11.54 Private collection, Calciati I, 6/2.
27. 11.52 Private collection, Calciati I, 6/3.
28. 11.45 Private collection, Calciati I, 6/4.
29. 11.36 Formerly Virzi (555).

- | | | |
|-----|-------|---|
| 30. | 10.95 | Rome. |
| 31. | 10.75 | Leu 6, 1973, 60; formerly Virzi (554). |
| 32. | 10.75 | Franke collection, Munich. |
| 33. | 10.64 | Private collection, Calciati I, 6/5. |
| 34. | 9.03 | Aretusa 2, 1994, 92. |
| 35. | 8.32 | New York (1957.172.522), <i>SNG ANS</i> 1018. |

Hexantes. Cone with pointed base and flat top with two large pellets

- 527** *Obv.* Eagle standing l; on r. side of eagle's head letters AK or RA (no. 4).
Rev. Round crab; below letters RA, PA or AK.
- | | | |
|----|------|--|
| 1. | 7.35 | Mini 4 (ex. Caruso). <i>Obv.</i> Above AK. Below, casting defect. 2. 6.90 Private collection, Calciati I, 7/1. <i>Obv.</i> Above AK. |
| 3. | 6.87 | *Formerly Virzi (557). <i>Obv.</i> Above AK. |
| 4. | 6.76 | *In trade 1982. <i>Obv.</i> Above RA. <i>Rev.</i> Below crab AK. |
| 5. | 5.70 | Palermo, Gàbrici p. 113.22. <i>Obv.</i> Traces of AK. |
| 6. | — | Formerly Virzi (559). <i>Rev.</i> Below RA or PA. |
- Obv.* and *rev.* As last but no letters visible.
- | | | |
|-----|------|--|
| 7. | 8.93 | Florence. |
| 8. | 8.14 | Private collection, Calciati I, 7. |
| 9. | 7.55 | Milan, Arslan 29. |
| 10. | 7.53 | Palermo, Gàbrici, p. 113.23, pl. I.3. |
| 11. | 7.48 | Palermo, Gàbrici, p. 113.24. |
| 12. | 7.34 | Waggoner, <i>Rosen</i> 33. |
| 13. | 7.30 | *Peus 300, 1980, 56. |
| 14. | 7.29 | Palermo (H67.478), <i>Himera</i> II, p. 736.209, pl. 117.13 (obv.). |
| 15. | 7.28 | Formerly Virzi (558). |
| 16. | 7.24 | Private collection, Calciati I, 7mv 1. <i>Rev.</i> Below crab, kerykeion. |
| 17. | 7.22 | Palermo (H69.906), <i>Himera</i> II, p. 724.92, pl. 117.7; Vassallo, pl. II.2 (obv). |
| 18. | 7.20 | Cambridge, <i>McCLean</i> 2053. |
| 19. | 7.12 | Kölner Münzkabinett 16.11.1987, 210 |
| 20. | 7.07 | Agrigento (421), <i>SNG</i> 90; <i>AHN</i> 2, 1955, p. 202.3. |
| 21. | 7.06 | Private collection, Calciati I, 7mv 1/1. |
| 22. | 7.00 | Berlin (Imhoof-Blumer 1900). |
| 23. | 6.88 | London, <i>SNG Lloyd</i> 834. |
| 24. | 6.87 | Pennisi. |
| 25. | 6.82 | Copenhagen, <i>SNG</i> 63. |

- | | | |
|-----|------|--|
| 26. | 6.80 | London, <i>BMC</i> 5. |
| 27. | 6.62 | Stockholm (acq. from MMAG, 1976). |
| 28. | 6.50 | London (1947.6.6.962, Cameron) |
| 29. | 6.39 | Florence. |
| 30. | 6.32 | Private collection, Calciati I, 7/2 |
| 31. | 6.31 | Palermo (H71.593), <i>Himera</i> II, p. 763.481, pl. 118.15. |
| 32. | 6.28 | London (1947.6.6.962, Cameron). |
| 33. | 5.46 | Palermo (H71.1444), <i>Himera</i> II, p. 775.596. |
| 34. | 5.31 | Private collection, Calciati I, 7/3. |

Onkiai. Flat and almond-shaped without legend and mark of value

528

Obv. Eagle's head l.

Rev. Crab's claw.

- | | | |
|-----|------|--|
| 1. | 5.07 | Private collection, Calciati I, 8. |
| 2. | 5.05 | New York (1944.100.8222, Newell), <i>SNG ANS</i> 1019;
Riechmann 30, 1924, 210. |
| 3. | 4.97 | Vienna. |
| 4. | 4.97 | *Leu 6, 1973, 61 (ex. Virzi 562). |
| 5. | 4.95 | *MMAG list 540, 1991, 5. |
| 6. | 4.93 | Palermo, Gàbrici, p. 113.38, pl. I.6. |
| 7. | 4.91 | *NFA MB 18.12.1987, 77; Waggoner, <i>Rosen</i> 35. |
| 8. | 4.90 | Formerly Virzi (563). |
| 9. | 4.87 | Formerly Virzi (567). |
| 10. | 4.85 | Rovereto, Orsi collection (220), Gorini 76. |
| 11. | 4.80 | London, <i>BMC</i> , p. 34. 6; Salinas pl. 9.11; de Waele,
pl. 2.4. |
| 12. | 4.81 | Agrigento (419), <i>SNG</i> 91; <i>AJIN</i> 2, 1955, p. 202.1. |
| 13. | 4.79 | Harvard, Dewing 558 (acq. Baldwin 1958). |
| 14. | 4.79 | Private collection, Calciati I, 8/1. |
| 15. | 4.73 | Private collection, Calciati I, 8/2. |
| 16. | 4.70 | London (1949.4.11.151, Mavrogordato). |
| 17. | 4.65 | Mini 5. |
| 18. | 4.65 | Morcom, <i>SNG</i> 514. |
| 19. | 4.64 | Palermo (H71.99), <i>Himera</i> II, p. 769.532, pl. 118.19. |
| 20. | 4.64 | Private collection, Calciati I, 8/3. |
| 21. | 4.63 | *Stockholm, <i>SNG</i> – (acq. from MMAG 1976). |
| 22. | 4.63 | Formerly Virzi (565). |
| 23. | 4.63 | New York (1957.172.521, Miller), <i>ANS SNG</i> 1020. |
| 24. | 4.62 | Formerly Virzi (566). |
| 25. | 4.62 | MMAG 76, 1991 (Lafaille), 121. |
| 26. | 4.61 | Palermo, Gàbrici, p. 113.37, pl. 1.7. |

27.	4.59	Formerly Virzi (569).
28.	4.58	Palermo (H67.676.3), <i>Himera</i> II, p. 730.158, pl. 117.10; Vassallo, pl. II.1 (<i>rev.</i>).
29.	4.57	London, <i>SNG Lloyd</i> 836.
30.	4.57	Rome.
31.	4.55	Hannover, Kestner Museum.
32.	4.52	London (1920.8.5.14, Earle Fox).
33.	4.50	Formerly Virzi (568).
34.	4.46	*Miksche collection, Huddinge; Vecchi 10, 1998, 107.
35.	4.45	Private collection, Calciati I, 8/4.
36.	4.44	London, <i>SNG Lloyd</i> 835.
37.	4.44	Cambridge, <i>McCLean</i> 2055.
38.	4.44	Paris, collection Delepierre.
39.	4.42	Formerly Virzi (564).
40.	4.40	Rome.
41.	4.37	Cambridge, <i>McCLean</i> 2054.
42.	4.30	Milan, Arslan 30.
43.	4.06	Morgantina excavations.
44.	3.78	Agrigento (420), <i>SNG</i> 92; <i>AION</i> 2, 1955, p. 202.2.
45.	3.01	Franke collection, Munich.

PERIOD III

Tetradrachms Eagle/Large fish, c. 420–415 BC

Obv. die 1; *rev.* dies 2

529	O1	AKRAΓ/ANTIN/O/N; eagle l. with spread wings bending over dead hare, lying on a rock, and touching hare's forelegs with its beak; on rock, sea snail to l., cockle shell to r. Dotted border. Die of 529–530.
	R1	In upper field crab with curved legs and claws pointing upwards; cockle shell on l. side of crab; sea snail on r. side; in lower field large fish with wide-open mouth, swimming l; fish has big eye, spiny dorsal fin and fan-shaped tail-fin; no border.
	1.	17.30 Hirsch (New York) in stock in 1950s (ex. de Ciccio).
	2.	17.23 3 *Leu 81, 2001, 45; ex. Abecassis and Pennisi; Hirmer pl. 60.174 (<i>rev.</i>). Enl. x2.
	3.	17.14 Berk in stock 2010, John E. van Wielink internet 1998.03.14 (Magna Graecia Coins); Berk MB 95, 1997, 88; CNG/NAC 40, 1996, 727.
	4.	16.92 NAC 33, 2006, 61.

5. 16.81 *Paris (88A, ex. Nanteuil but not in cat.); Spink in stock 1932; Seltman, *GC*, pl. 26.9. *Métal pensant* 1990/A, fig. 1.
6. 16.78 6 Berlin; Regling *MaK* 534, pl. 24; *RIN* 1903, pl. 1.4.
7. 16.51 8 Leu 79, 2000, 330; Leu 15, 1976, 51; Lockett, *SNG* 715; Glendining 25.10.596; *Ars Classica* 13, 1928, 201; Naville 6, 1923, 345; Egger 41, 1912, 99; Hirsch 26, 1910, 59; Imhoof-Blumer & Keller, pl. 7.3 (*rev.*).

Obv. Small flaw on top of nearest wing beginning to appear: 1.

- 530** O1 Same die with small flaw between eagle's wing and border. Die of 529–530.
- R2 In upper field crab with broad upper part, long legs and claws pointing upwards between murex to l. and cockle shell to r.; in lower field large fish as last, now somewhat slenderer.
1. 17.63 Himera 1984 hoard; CNG 42, 1997, 101; Mid-American Rare Coin Auctions, Febr. 15–16, 1985, 561. Small cracks at edge.
2. 17.53 10 *Lisbon, *Gulbenkian* 164; Locker Lampson 59; Sotheby 3.2.1909, 178; do. 23.3.1896, 88; do. 15.6.1896, 265. Small crack at edge.
3. 17.47 *London, *BMC* 59; Jenkins, *AGC*¹ 433 (*rev.*); Zeugner, *Spink NCirc* Aug.1963, p. 143, fig. 5; Hill, *Ancient Sicily*, pl. 7.16; Seltman, *NC* 1909, pl. 30.6; Holm p. 622, no. 141; Gardner, *Types*, pl. 6.32–33; Gardner, *NC*, pl. 4.20 (*obv.*); Rutter, *Italy and Sicily*, fig. 162. *Rev.* Cockle shell distorted by die crack. Enl. x2.
4. 17.46 6 Cambridge *McClellan* 2044, pl. 65.14; Sotheby 6.5.1895, 31; Seltman, *NC* 1948, pl. 1.1; Grässe, *Handbuch der alten Num.*, pl. 66.9.
5. 17.41 10 Lisbon, *Gulbenkian* 163; *Ars Classica* 13, 1928, 200; Lacroix, *RBN*, pl. 1.2; Rizzo, pl. 1.16. *Obv.* Small damage at nearest leg.
6. 17.28 1 Collection CC 38, pl. 17; Leu-MMAG 1974, 78; MMAG in stock 1947; Lloyd, *SNG* 822. *Rev.* Graffiti ΦΙΑ-O-N above and to r., ΣΥΚΟΙ-KΑΛΑ below fish ('Good luck to Syco from Philon').
7. 17.17 11 Winterthur, Bloesch 577; Naville Pozzi 1921, 390; Sotheby 24.4. 1907, 7, pl. 1.5; Bernhard, p. 38, pl. 1:24 (*obv.*). Small cracks at edge. Worn.
8. 17.06 Syracuse (54904), Ognina hoard; Boehringer, Ognina 24, pl. 28. Corroded. Crack at edge.

9. 17.04 NAC. 8, 1995, 115 (16.97g); formerly New York, MetropolitanMuseum, Ward 140; Sotheby 4.41973, 115; do. 20.1.1898, 42; Richter, *Animals*, fig. 188; Kraay, *ACGC*, pl. 46.793.
10. 17.04 Triton I, 1997, 197, ex. Moretti ; Hess-Leu 27.3.1956, 64. *Rev.* Fish's mouth off flan. Crack at edge.
11. 17.01 4 Leu 76, 1999, 22; Käppeli collection, Cahn, *Kunstwerke der Antike* F51; Schefold, 465; formerly Paris, *RN* 1907, p. 521, pl. 17.113; Salinas 183, pl. 8.2 (*obv.*); *Rev.* Cockle shell distorted by flaw. Crack at edge on r. side.
- 11A.17.01 Nomos (Zurich) 1, 2009, 17
12. 17.00 Boston (04.431), Baldwin Brett 235; Warren 201; Sambon 31.5.1881, 729. Two cracks at edge.
13. 16.95 7 *Hirmer collection, Hirmer pl. 60.173 (*obv.*); formerly Paris (FG 88); Mionnet 39; Schwarz & Mildenberg, pp. 57–58, no. 3, pl. 24.3 (*obv.*); MMAG in stock 1947. *Rev.* Forepart of fish distorted by corrosion and crack at edge. Enl. x2.
14. 16.89 9 NAC 13, 1998, 257, ex Moretti; *Antikenmuseum Basel* 257; Vinchon 14.4.1984, 25; Hirsch 19, 1907, 111.
15. 16.74 Dorotheum Sonderauktion 12.11.1982, 46; MMAG 52, 1975, 64. Oblong flan. Corroded.
16. 16.58 10 Christie's 7.10.1986, 92; Vinchon 13.4.1985, 68; Jameson 508; Hirsch 18, 1907, 2225; Giesecke, pl. 6.6.
17. 16.55 5 Formerly private collection, Sicily.
18. 16.40 10 Naples, Santangelo 7319. Corroded.
19. 16.29 Lanz 32, 1985, 62. *Rev.* Fish's mouth partly off flan, cracks at edge; cockle shell only faintly visible.
20. 16.20 NFA MB 26.10.1995, 94; G. Hirsch 183, 1994, 101. Corroded on both sides. Scratches on fish's body.
21. 15.35 Leu 2, 1972, 68; *Ars Classica* 16, 1933, 434; Naville 5, 1923, 827. Worn dies. *Obv.* Eagle's beak and wing-quills thickened by wear; legend almost obliterated. *Rev.* Sea snail to r. faintly visible.
22. – Bourgey 11.3.1985, 5.
23. – Location unknown. Lost? Formerly Syracuse (2090), Pachino hoard. Boehringer, Pachino, p. 43, no. 1.

Obv. Small flaw on top of nearest wing: all (not always visible). Small crack on wing above eagle's neck: all. Flaw at eagle's left foot: 1, 2, 5, 8, 10, 15, 20, 21.

Rev. Sea snail distorted by flaw: 3, 11.

Tetradrachms Eagle pair/Skylla, c. 415–410 BC

Obv. die 1; *rev.* dies 3.

- 531** O1 A/K/P/A/T; a pair of eagles r., grasping dead hare in their claws; nearer eagle with closed wings is screaming with lifted head and open beak; further eagle, with open wings, is lowering his head towards the hare's legs; border of dots. Die of 531–535.
- R1 AKPA/TA/NTIN/ON; crab above has hairy shell with slightly face-like pattern and curved sides; broad section between eyes; long thin legs; strong, sharp claws; below Skylla swimming l.; at the waist the upper part of two dogs are attached to her body ending in a long, curled fishtail with sharp dorsal fins and broad tail-fin; at the joint a broad, thorny fin; a fin belonging to the dog behind appears between the legs of nearest dog; Skylla's hair streaming out from her head; long, thin curl hanging down at ear; her l. arm turned backwards over the coiled tail; her r. arm raised in the gesture of *aposkopein*. Die of 531–533.
1. 17.43 1 New York (Leggett 97.047); Hess-Leu 27.3.1956, 67. *Rev.* Corroded, deep cracks at edge.
 2. 17.42 8 *NAC 39, 2007, 8; Leu 76, 1999, 23; Cahn, *Kunstwerke der Antike* (Käppeli), F52; Schefold, 466; Westermark, Skylla, pl. 25.1A (*rev.*). *Obv.* Small cavities in field below second eagle's head. Enl. x2 (*rev.*)
 3. 17.40 11 Hess-Leu 36, 1968, 55.
 4. 17.39 11 *Leu 81, 2001, 47 (ex. Giesecke, Virzi and Gillet); Hirsch 19, 1907, 112; Seltman, *NC* 1948, pl. I.ii; Regling, *MaK* pl. 24.533.
 5. 17.26 5 Cambridge *McClean* 2043; Sotheby 20.1.1898, 41. Worn, some injuries on surface. *Obv.* Hare's hindlegs off flan. *Rev.* Crab's claws and Skylla's tail-fin off flan.
 - 5A. 17.26 6 Collection CC 39, pl. 19; Leu 15, 1976, 52.
 6. 17.25 5 *Private collection, USA; NAC 8, 1995, 116; *Class. Num. Review* vol. 20.2, 1995, p. 12; do suppl. to vol. 20.2, p. 2; Leu 20, 1978, 20; *GN* July 1978, p. 189; Westermark, Skylla, pl. 25.1. *Rev.* Lower part slightly off flan. Enl. x2.
 7. 17.22 7 *Christie's 11.12.1992, 628; formerly Bryn Mawr College, Washburn King collection, Vermeule, *NC* 1956, p. 24, no. 28, pl. 4 (acq. J. Hirsch, NY 1948); Jameson 509; Sambon 19.12.1907, 90; Sambon-Canessa 7.5.1903, 586, pl. 5.11; Imhoof-Blumer & Keller, pl. 13.4. *Obv.* Small part of surface flaked off.

8. 17.19 3 Harvard, Dewing 559; Ratto 26.4.1909, 1106.
9. 17.14 1 Palermo, Contessa hoard; *NotSc* 1888, pl. 16.5; Belvedere, *Quaderno imerese* I, pl. 27.3 (*rev.*); *RIN* 1903, pl. II.2.
10. 17.12 11 Florence; Salinas 185, pl. 8.4. *Obv.* Weakly struck on r. side.
11. 17.07 Private collection, Switzerland; NAC 13, 1998, 258, ex Moretti; *Antikenmuseum Basel*, 258; E. Walter-Karydi, *JdI* 112, 1997, p. 170, fig. 3; Waywell, p. 109, fig. 1; Hirmer, pl. 60.175. Slightly double-struck.
12. 17.04 1 London, *SNG Lloyd* 821.
13. 16.98 Blackburn Museum, Hart collection, *SNG* 141; Woodward 49; Locker-Lampson 60; Sotheby 3.2.1909,177; do. 15.6.1896, 264. *Obv.* Slightly double-struck.
14. 16.94 10 Manchester, University Museum, *SNG* 374 (acq. Spink 1953; formerly Gotha, MMAG 10, 1951, 189.
15. 16.93 St. Petersburg; Schlessinger 13, 1935, 226; Zograph, pl. 7.8.
16. 16.71 6 Pennisi; Rizzo pl. I.20; Boehringer, *ZfN*, p. 252, fig. 2 (*obv.*), pl. 8.12 (*rev.*); von Matt, fig. 100 (*obv.*); Hofkes-Brukker, p. 65, fig. 9 (*obv.*). *Obv.* Corroded below, details obscure.
17. 16.64 1 Lisbon, *Gulbenkian* 166, Naville 6, 1923, 344. Cast in Berlin marked Hirsch 1915'. Corroded on *rev.*
- 17A.16.64 Künker 16.3.2007, 7847.
18. 16.49 4 Vinchon 13.4.1985, 67. Cast in London marked 'Herzfelder 1948 Caltanissetta'. Heavily tooled: *Obv.* Eye of a further eagle too big; hare's forelegs bent; hare's head too broad; flaw at hind leg removed. *Rev.* Skylla's face touched up; sharp line on chin added; hanging lock at ear shortened.
19. 15.79 Dresden (481, ex. Löbbecke). Poorly preserved, especially *rev.*, details obscure. *Rev.* Skylla's head, l. arm and head of nearest dog distorted by corrosion (?) and double striking.
20. 15.15 5 Syracuse (17081). Poorly preserved, corroded, details obliterated.
21. 15.00 Nanteuil 261. Much worn. Details indistinct.
- Note* by Grabow to 20: "Im Inventar steht 'antike Fälschung', doch ist das Stück echt, aber schlecht erhalten".
- Obv.* Flaw between hare's hind legs and border: all;
Small flaw below hare's tail: 3, 4, 6, 7, 8, 9, 10, 11.

Small crack between border and edge, r. side: 7, 13.

Small flaw at letter K: 18.

Rev. Thin cracks between letters AK: 3, 4, 8, 9.

Flaws are uncertain on coins which are either too worn or corroded.

- 532** O1¹ Same die recut; feathering sharpened up on eagle's legs; nearest eagle's neck and beak broader; beak less open; same flaws as last between hare's hind leg and border; no flaw at letter K. Die of 531–535.
- R1¹ Same die recut; thorns of dorsal fin and end-fin longer; small lines between thorns of end-fin; carapace slightly different with wavy section between crab's eyes; head of further dog more raised; mouth is shut; paws longer and broader; ear longer; locks of Skylla's hair thicker; a thin crack extending from the top of her hair; cracks between letters AK partly removed but still visible at letter K extending the tail; the fin between the legs of the nearest dog now only faintly visible. Die of 531–533.
1. 17.30 *Boston (00.96), Baldwin Brett 234; Sotheby 6.5.1895, 30; Noehden, pl. 3; *NC* 1909, pl. 30.4; Hill, *SGC*, pl. 58.2 (*obv.*), pl. 61.1 (*rev.*); Rizzo, p. 29, fig. 13a; Richter, *Animals*, fig. 187. Double struck above on l. side. Oval flan.
2. 17.13 2 Nomos (Zurich) 2, 2010, 17; New York Sale 14, 2007, 26; Sternberg 32, 1996, 6.
- Obv.* Three new, very slight die injuries below nearest eagle's wing and at second eagle's tail faintly visible on both coins.
- 533** O1¹ Same die recut. Die of 531–535.
- R1² As R1¹ but Skylla's hair cut off to half its former length, leaving bulging spot behind head; half of Skylla's hand missing.
1. 17.26 Paris. (FG 48.)
2. 17.18 5 *Salisbury University, Courtauld collection, Pollard 18; Hirsch 18, 1907, 2226 (ex. Imhoof-Blumer); Naville I Pozzi, 1921, 389; Miller, pl. 6.68; Bernhard, pl. I.31 (*obv.*); Giesecke, pl. 6.4.
- 534** O1¹ Same die recut. Die of 531–535.
- R2 AKPAΓ/ANT/INON in small letters; similar crab; claws tight together; curved legs; lower part of Skylla's body more visible; her left arm disappears behind the tail; no hand visible; dog in front further to r., raising up across the coiled tail; dog behind stretching out his long neck and head; very long tail (end off flan).

1. 17.28 6 *London, *BMC* 61; Salinas 184, pl. 8.3; Seltman, *GC*, pl. 26.10; Belvedere, *Quaderno Imerese* I, pl. 28.3 (*rev.*)
Obv. Double struck.
2. 17.26 11 *Brussels, L. de Hirsch 286. Deep cracks at edge.
Due to double striking and cracks details are indistinct on both coins.

- 535** O1¹ Same die recut. Die of 531–535.
R3 AK/PAFA; section between crab's eyes slightly curved; shell has more facelike pattern; *Skylla* similar to R2 but placed more to l.; her l. arm and tail raising higher up; more space between tail and crab's legs.
1. 17.17 *Himera 1984 hoard, Mid-American Rare Coin Auction, 15.2.1985, 562.

Hemidrachms, c. 420–410 BC

Series 1. *Rev.* Fish

Obv. dies 17; *rev.* dies 22.

- 536** O1 AK/PA or RA; eagle with open wings, long legs and strongly bent tail standing left on hare. Dotted border.
R1 Crab with short claws and slightly curved legs; curved middle section between eyes; below fish l. Slightly shallow flan.
1. 2.15 Syracuse, Gagliardi (680); Sambon-Canessa 27.6.1927, 665.
 2. 2.14 3 *Brussels, L. de Hirsch 291; Lacroix, *RBN*, pl. 1.4.
 3. 2.14 MMAG list 296, 1969, 1.
 4. 2.10 Kricheldorf 28.5.1956, 940; Ball stock cat. 46, 1938, 48787; Grabow 14, 1939, 125.
 5. 2.09 Elsen 67, 2001, 107.
 6. 2.06 7 Leu 81, 2001, 46.
 7. 2.06 Kölner Münzkabinett 46, 1988, 2033.
 8. 2.05 Frankfurt (383), Förschner 382.
 9. 2.04 4 Berlin (Fox 1873). *Rev.* Fish weekly struck.
 10. 2.03 1 Syracuse (26891, acq. 1906).
 11. 2.03 Sotheby 9.6.1983= Brand part III, 23; Naville I Pozzi, 1921, 391.
 12. 2.03 NAC 7, 1994, 183.
 13. 2.02 Glasgow, *Hunter* 30.

- | | | | | | |
|--|--|-----|------|----|---|
| | | 14. | 2.00 | | Spink <i>NCirc</i> Nov. 1976, 8989. |
| | | 15. | 2.00 | | St. Petersburg (2025.19). |
| | | 16. | 2.00 | 5 | Berlin (18108). |
| | | 17. | 1.99 | 4 | Palermo. |
| | | 18. | 1.98 | 7 | New York (1941.153.228, Beatty), <i>SNG ANS</i> 1002. |
| | | 19. | 1.98 | | Galerie des Monnaies 21, 1978, 13 |
| | | 20. | 1.98 | 12 | London, <i>BMC</i> 66; Salinas 210, pl. 9.4 (cf. note below). |
| | | 21. | 1.95 | | Hirsch 21, 1908, 541. |
| | | 22. | 1.95 | 12 | Naples, Fiorelli 3968. |
| | | 23. | 1.90 | 3 | Vienna. |
| | | 24. | – | | New York in trade 1951. |
- Note to 20: Salinas mentions only "Pennisi" for no. 210, but his pl. 9.4 seems to illustrate *BMC* 66.
- 537** O2 A(K)/ RA; longlegged eagle l. as last but legs and tail not bent. Dotted border. Die of 537–538.
- R2 A–K above, RA below; similar crab with longer claws; fish r. Die of 537, 539.
- | | | | | | |
|--|--|----|------|---|---|
| | | 1. | 2.00 | | *Private collection X. |
| | | 2. | 1.95 | | G. Hirsch 159, 1988, 82. |
| | | 3. | 1.92 | | Rauch 41, 1988, 24. |
| | | 4. | 1.87 | | Santamaria in stock 1951. |
| | | 5. | 1.85 | 7 | Manchester, <i>SNG</i> 373 (acq. Seaby 1947). |
| | | 6. | – | | Formerly Moretti. |
- 538** O2 Die of 537–538.
- R3 A–K–R–A around retrograde; similar crab; fish l. Die of 538, 541–542.
- | | | | | | |
|--|--|----|------|----|---------------------------|
| | | 1. | 2.15 | 6 | *London, <i>BMC</i> 67. |
| | | 2. | 2.05 | 5 | Naples, Santangelo 7358. |
| | | 3. | 2.00 | 11 | Paris (FG 94). |
| | | 4. | 1.98 | | Milan (B5384), Arslan 42. |
| | | 5. | 1.95 | 6 | Naples, Fiorelli 3966. |
- 539** O3 No legend; compact eagle l. with long tail bent towards hare. Die of 539–540.
- R2 Die of 537, 539.
- | | | | | | |
|--|--|----|------|----|----------------------------|
| | | 1. | 2.10 | 11 | *Naples, Fiorelli 3967. |
| | | 2. | 1.98 | | Glasgow, <i>Hunter</i> 29. |

- 540** O3 Die of 539–540.
R4 A–K–R–A around; round crab; fish r.
1. 1.99 Ars Classica 16, 1933, 436.
 2. 1.97 Kölner Münzkabinett 14, 1974, 9.
 3. 1.97 *Rauch 32, 1984, 57; Dorotheum Sonderauktion 3, 1983, 24; do. 2, 1983, 43.
 4. 1.96 7 Berlin (Imhoof-Blumer 1900).
 5. 1.94 Milan (B5381), Arslan 44.
 6. 1.71 St. Petersburg (2024.18b).
 7. – Schulman 262, 1972, 1023.
- 541** O4 Similar eagle; large hare with straight head and short fore-legs.
R3 Die of 538, 541–542.
1. 2.17 Santamaria 24.1.1938, A79.
 2. 2.15 *Private collection X.
 3. 2.14 7 Munich, *SNG* 87.
 4. 2.04 Dorotheum 412, 1981, 16.
 5. 2.01 St. Petersburg (2023.18d).
 6. 2.01 Elsen 47, 1996, 74.
 7. 1.99 1 Coburg.
 8. 1.82 6 Göttingen CR.
- Obv.* Long, thin flaws on either side of eagle's tail and in front of eagle's legs: 1, 2, 3, 5, 7, 8.
- 542** O5 Slender eagle l. with long, straight tail; large hare with short forelegs and curved back; hare's hind legs stretched upwards behind eagle's tail.
Dotted border. Die of 542–543.
R3 Die of 538, 541–542.
1. 2.15 7 *London, *SNG Lloyd* 826.
 2. 2.15 12 *New York (1957.172.519, H. Miller), *SNG ANS* 1009.
 3. 2.09 5 Palermo; Salinas 207, pl. 9.3.
 4. 2.09 6 Oxford (Oman 1947), *SNG* 1679.
 5. 2.05 Hirsch 30, 1911, 325.
 6. 2.05 6 Copenhagen, *SNG* 57.
 7. 2.05 7 Pennisi.
 8. 2.04 Private collection, N.Y.; Stack's list 10, 1970, D18.
 9. 2.03 NAC-N, 2003, 1104.
 10. 2.02 6 Palermo.
 11. 2.01 7 Palermo; Salinas 203.
 12. 2.01 St. Petersburg (2123, 18a).
 13. 1.96 5 CNG 37, 1996, 90; Hess-Leu 27.3.1956, 63; Hirsch, New York, in stock 1950s (ex. de Ciccio).

- | | | | |
|-----|------|----|--|
| 14. | 1.93 | | Formerly London, <i>BMC</i> 65; Rizzo, pl. I.17. |
| 15. | 1.90 | | Kress 119, 1961, 117 |
| 16. | 1.88 | 10 | Syracuse (5443). |
| 17. | 1.85 | 6 | Munich, <i>SNG</i> 86. |
| 18. | 1.85 | 7 | Naples, Fiorelli 3965. |
| 19. | 1.83 | | Bourgey 9.11.1976, 33. |
| 20. | – | | Manchester University Museum, <i>SNG</i> 371. |
| 21. | – | | Platt 19.5.1921, 30. |
| 22. | – | | Platt 27.3.1922, 203. |
| 23. | – | | Dorotheum 26.4.1961 (Hollschek XIII), 911. |
- Note* to 20: The weight given in the catalogue (8.29) is not correct.
Rev. Die flaw between crab's shell and left claw: 3, 6, 11.

- 543** O5 Die of 542–543.
 R5 A–K–R–A retrograde; similar; fish upwards r. Die has a thin crack from field below across crab's legs on r. side. Die of 543–544.
- | | | | |
|----|------|----|--|
| 1. | 2.02 | 11 | *Copenhagen (Ramus 6), <i>SNG</i> 58. |
| 2. | 1.99 | 5 | Cambridge, <i>SNG</i> 921; Leake, <i>NH</i> , Sicily, p. 50.3 I. |
| 3. | 1.95 | 7 | Naples, Fiorelli 3964. |
| 4. | 1.82 | 2 | Pennisi. |
| 5. | – | | MMAG list 339, 1972, 4. |
- Rev.* In addition to the thin crack visible on all specimens there is a flaw at the edge on no. 1.
- 544** O6 Similar; large hare with drooping head; long hind legs below eagle's tail. Die of 544–545.
 R5 Die of 543–544.
- | | | | |
|----|------|---|---|
| 1. | 2.08 | | Bourgey 25.3.1977, 12. |
| 2. | 2.04 | | *Aarhus University (F254, acq. Spink's 1936), <i>SNG Fabricius</i> 184. (Enlarged.) |
| 3. | 1.94 | | Private collection, N.Y.; Stack's list 6.1.1965, A2; Sambon-Canessa 27.6.1927, 668. |
| 4. | 1.91 | | Blackburn Museum, Hart Collection, <i>SNG</i> 142. |
| 5. | 1.91 | | Sternberg 31, 1996, 405. |
| 6. | 1.90 | 2 | Paris (FG 95). |
| 7. | 1.76 | | Grabow in stock 1957 (ex. Nägeli collection). |
| 8. | 1.74 | | Naples Santangelo 7357. |
| 9. | – | | Vinchon 25.4.1960, 170. |
- Rev.* Same thin crack as above; flaw at border as above: 1, 2, 4, 5, 6.

- 545** O6 Die of 544–545.
R6 A–K–R–A retrograde; similar crab; fish upwards r., slightly curved.
1. 2.13 5 Berlin (Imhoof-Blumer 1900).
 2. 2.06 G. Hirsch 191, 1996, 132; do. 187, 1995, 152; do. 184, 1994, 72.
 3. 2.05 *Paris, Luynes 863.
 4. 2.04 Grabow 9.7.1930, 180.
 5. 2.02 UBS 49, 2000, 28; Kricheldorf list 66, 1962, 15; Leu list Sicilia 1962, 12; Jameson 215.
 6. 1.98 Lanz 22, 1982, 72.
 7. 1.95 NAC-O, 2004, 1260 (ex. Moretti).
 8. 1.94 Myers list November 1977, 19.
 9. 1.91 NFA MB 15.1.1982, 49; do. list 5, 1978, 8.
 10. 1.89 12 Coburg.
 11. 1.87 G. Hirsch in stock 1953.
 12. 1.85 1 New York (1957.172.518, H. Miller), *SNG ANS* 1006.
 13. 1.82 8 Padua.
 14. 1.61 1 Ratto (Milan) in stock 1957.
- Rev. Thin crack between fish and crab's legs, r. side: all except 1, where it is just beginning to appear.
Flaws at crab's legs, r. side: 2, 5, 6, 10, 13.
- 546** O7 Eagle with broad wing and sharply bent tail touching hare's hind leg; large hare with short forelegs close before his head and long hind legs turned upwards eagle's wing. Die of 546–549.
R7 A–K–R–A around crab; crab has long claws and legs; fish upwards r. Die of 546, 550.
1. 2.09 7 Oslo.
 2. 2.02 CNG 42, 1997, 102.
 3. 2.02 *Glendining 25.10.1955, 599; Lockett, *SNG* 718; Naville 6, 1923, 347.
 4. 1.98 NAC-H, 1998, 1137.
 5. 1.90 1 New York (1944.100.8217, Newell), *SNG ANS* 1003; Bourgey 14.12.1911, 37.
 6. 1.90 Vatican (37).
- 547** O7 Die of 546–549.
R8 AK–R–A from l. to r.; small crab with long claws and curved legs; fish r.
1. 2.06 *Druckrey collection, Kelkheim; New York Sale I, 1998, 25. (Enlarged.)
 2. 2.03 7 Pennisi.
 3. 2.00 7 Pennisi; Rizzo pl. 1.18.
 4. – NFA MB 26.10.1995, 95.

- 548** O7 Die of 546–549.
R9 A–K–R–A around starting l.; broad crab with short claws; eyes wide apart; fish r.
1. 2.11 Santamaria 30.7.1949, 277; Cahn 84, 1933, 113; do. 65, 1929, 65a.
 2. 2.07 Müller 64, 1990, 15.
 3. 2.05 1 Paris (FG 93).
 4. 2.04 5 Brussels.
 5. 2.04 6 Leu 50, 1990, 43.
 6. 2.02 9 London, Lloyd *SNG* 828 (ex. Evans); Sotheby 20.4.1909, 11.
 7. 2.02 Monetarium list 61, 1994, 5.
 8. 1.987 *Hannover, Kestner Museum (1929.116), Grunauer 164; Richmann 30, 1924, 209 (2.01).
 9. 1.98 Myers list September 1972, 10.
 10. 1.96 *Ars Classica 13, 1928, 202.
 11. 1.96 Glendining 10, 1972, 69.
 12. 1.94 Elsen 67, 2001, 108.
 13. 1.92 11 de Nicola March 1966, 155 (ex. Pennisi).
 14. 1.92 New York Sale 4, 2002, 44.
 15. 1.89 Ars Classica 14, 1929, 85.
 16. 1.86 Hess 224, 1936, 325.
 17. 1.87 1 Formerly private collection, Sicily.
 18. 1.82 11 Naples, Santangelo 7355.
 19. 1.74 Coin Galleries (New York), MB 12.2.1992, 70.
 20. – Myers 3, 1972, 34.
 21. – New York in trade 1951.
 22. – Schulman (New York), Febr.–March 1973, 566.
 23. – Vecchi list 25, 1981, 10.
- Obv.* Dotted flaw at letter K on all where K is well visible except 8.
- 549** O7 Die of 546–549.
R10 Similar; fish r. very close to crab's bottom. Die of 549, 553.
1. 1.91 6 Syracuse (23607, acq. 1901).
- 550** O8 Similar eagle; wing has flat outline above; hare's hind leg not so long.
Die of 550–553.
R7 Die of 546, 550. Letter A below rarely visible.
1. 2.08 *Sternberg 20, 1988, 184.
 2. 2.08 Auctiones 17, 1988, 30.
 3. 2.07 1 Cefalù.
 4. 2.04 3 Cambridge, *McClean* 2048, pl. 65.17.
 5. 2.02 6 Cambridge, *SNG* 922; Leake, *NH*, Sicily, p. 50.3II.

- | | | | |
|-----|------|----|---------------------------------------|
| 6. | 2.01 | | Kunst und Münzen 20.6.1977, 49. |
| 7. | 2.00 | | Formerly private collection, Germany. |
| 8. | 2.00 | | Aufhäuser 8, 1991, 18. |
| 9. | 1.97 | 1 | Naples, Santangelo 7356. |
| 10. | 1.96 | 7 | Syracuse (12273, acq. 1892). |
| 11. | 1.96 | | Elsen 59, 1999, 36. |
| 12. | 1.96 | 4 | Palermo. |
| 13. | 1.95 | | Kölner Münzkabinett 27, 1980, 16. |
| 14. | 1.90 | 11 | Utrecht. |
| 15. | 1.90 | | New York Sale 1, 1998, 26. |
| 16. | 1.86 | 5 | Catania. |
| 17. | 1.82 | | Peus 298, 1979, 22. |

Rev. Die break on crab's shell: 1, 2, 3, 4, 5, 8, 15 (uncertain on worn coins).

551 O8 Die of 550–553.
R8 Die of 547, 551.

- | | | | |
|----|------|----|--|
| 1. | 2.06 | 1 | *New York (1906.26.3, Lathorp) <i>SNG ANS</i> 1004. |
| 2. | 2.05 | 9 | Vinchon 13.4.1985, 69; Sambon 19.12.1907, 93. |
| 3. | 2.00 | 12 | Vienna. <i>Rev.</i> Double struck at lower part of crab. |
| 4. | 1.98 | 3 | Milan (B5380), Arslan 43. |
| 5. | 1.96 | 7 | Syracuse (39360, acq. 1918). |

552 O8 Die of 550–553.
R9 Die of 548, 552, 554.

- | | | | |
|----|------|---|----------------------------|
| 1. | 2.13 | 7 | *London (R. Payne-Knight). |
| 2. | 2.09 | | Glasgow, <i>Hunter</i> 28. |
| 3. | 2.08 | 1 | Münster Landesmuseum. |
| 4. | 1.92 | | G. Hirsch 163, 2989, 60. |
| 5. | 1.88 | 6 | Milan (R1171), Arslan 45. |

Rev. Dotted flaw at letter K developing.

553 O8 Die of 550–553.
R10 Die of 549, 553.

- | | | | |
|----|------|--|--------------------|
| 1. | 2.14 | | NAC-B, 1992, 1105. |
|----|------|--|--------------------|

554 O9 Similar eagle; smaller hare; head and forelegs hanging down. Dotted border. Die of 554–555.

R9 Die of 548, 552, 554.

- | | | | |
|----|------|---|---|
| 1. | 2.14 | 4 | *Hess-Leu 24.3.1959; Hirsch (New York) in stock in 1950s (ex. de Ciccio). |
| 2. | 2.10 | | Palermo. |

- | | | | | | |
|------------|-----|---|------|----|---|
| | | 3. | 2.05 | 3 | New York (1957.172.518, H. Miller), <i>SNG ANS</i> 1005. |
| | | 4. | 2.04 | 5 | Berlin (Löbbecke 1906). <i>Obv.</i> Double struck. |
| | | 5. | 2.00 | 5 | Pennisi, Salinas 203 (not ill.). |
| | | 6. | 2.00 | 12 | London, <i>BMC</i> 69; Salinas 206, pl. 9.2. |
| | | 7. | 2.00 | | MMAG list 431, 1981, 8. |
| | | 8. | 1.98 | 3 | New York (1984.46.25, R. Trenholme). |
| | | 9. | 1.98 | 3 | Munich, <i>SNG</i> 84. |
| | | 10. | 1.86 | 3 | Enna. |
| | | <i>Rev.</i> Dotted flaw at letter K as last. | | | |
| 555 | O9 | Die of 554–555. | | | |
| | R11 | A–K–R–A around; crab with broad upper part and thin, long legs; fish r., slightly upwards. | | | |
| | | 1. | 2.00 | | *Vatican (36). |
| | | 2. | 1.95 | | Rauch 42, 1989, 2873; G. Hirsch 159, 1988, 81. |
| | | 3. | 1.94 | 6 | Rome (19008). |
| 556 | O10 | Eagle has short neck and broad tail; fat hare with large head. Dotted border. | | | |
| | R12 | A–K–R–A; similar crab, fish r., slightly curved upwards. | | | |
| | | 1. | 1.90 | 1 | Syracuse (21835). |
| | | 2. | 1.70 | 12 | Enna. |
| | | 3. | 1.38 | 8 | *Berlin (Prokesch-Osten 1875). |
| | | 4. | 1.14 | 11 | Bologna. |
| 557 | O11 | Eagle with long, narrow tail; hare has short forelegs, pointing down; drooping head. Dotted border. Die of 557–561. | | | |
| | R13 | A–K–R–A retrograde; similar crab; fish r., slightly curved upwards. | | | |
| | | 1. | 2.15 | | Hirsch 30, 1911, 326. |
| | | 2. | 2.05 | | Aufhäuser 9, 1992, 18; Glendining 9.3.1931, 899. |
| | | 3. | 2.02 | | Hess 15.2.1934, 132; Hamburger 98, 1933, 145. |
| | | 4. | 1.99 | 3 | Budapest (13A.1912.9), <i>SNG</i> 29. |
| | | 5. | 1.99 | | *NFA list 2, 1986, 5. |
| | | 6. | 1.95 | | Dresden (479). |
| | | 7. | 1.86 | 1 | London, Lloyd <i>SNG</i> 827; Canessa 22.5.1922, 173. |
| 558 | O11 | Die of 557–561. | | | |
| | R14 | A–K–R–A retrograde; similar crab; fish r., slightly curved upwards. | | | |
| | | 1. | 2.13 | 3 | *Stockholm, <i>SNG</i> 377. |
| | | 2. | 2.12 | 9 | Hirmer collection; Hecht list 1, 1954, 76. |
| | | 3. | 2.10 | 9 | New York (1944.100.8218, Newell), <i>SNG ANS</i> 1007; Egger 41, 1912, 100. |

4.	2.04		SBV 21, 1989, 14; Hess 15.2.1934, 131; Rosenberg 72,1932, 162; Helbing 20.3.1928, 67; Schulman 16.12.1926, 100; Naville 6, 1923, 346.
5.	2.02	4	Naples, Fiorelli 3963.
6.	1.99	11	Basel, Hist. Museum (1908.629).
7.	1.98	7	Syracuse (23605, acq. 1901).
8.	1.93	3	Berlin (unknown provenance).
9.	1.90		Kurpfälzische Münzhandlung 40, 1991, 26.
10.	1.89		Cambridge, Gow collection.
11.	1.85	5	Naples, Fiorelli 3962.
12.	1.54	1	Prag (H5-25757). Oval flan.

- 559** O11 Die of 557-561.
R15 A-K-R-A retrograde; similar crab; fish r., slightly curved upwards.
Die of 559, 562.
- | | | | |
|----|------|---|---|
| 1. | 2.13 | | Spink <i>NCirc</i> Nov.1987, 6265; do. March 1987, 1245. |
| 2. | 2.11 | 4 | *London, <i>BMC</i> 68. |
| 3. | 2.10 | 1 | New York (1944.100.8219, E. T. Newell), <i>SNG ANS</i> 1008. |
| 4. | 1.98 | | Private collection X. |
| 5. | 1.96 | 2 | Formerly New York. |
| 6. | 1.93 | | Baranowsky 4, 1931, 298; Ratto stock cat. XI, 1934, 1017; do. 24.6.1929, 72; do. 4.4.1927, 339. |
| 7. | 1.89 | 3 | Munich, <i>SNG</i> 85. |
| 8. | 1.76 | | Münster, Landesmuseum. |
| 9. | - | | New York, in trade 1951. |
- 560** O11 Die of 557-561.
R16 A-K-R-A retrograde; similar crab; fish r., upwards.
- | | | | |
|----|------|---|----------------------------------|
| 1. | 2.13 | 6 | Pennisi. |
| 2. | 1.99 | | *Frankfurt (384), Förschner 381. |
- 561** O11 Die of 557-561.
R17 AK to r./PA to l.; similar crab; fish r. upwards. Die of 561, 563, 567.
- | | | | |
|----|------|---|----------|
| 1. | 1.83 | 4 | *Coburg. |
|----|------|---|----------|
- 562** O12 Eagle standing r.; broad wing and long tail; hare r.; hind-legs touching eagle's tail. Dotted border. Die of 562-566.
R15 Die of 559,562.
- | | | | |
|----|------|----|----------|
| 1. | 2.08 | 12 | *Coburg. |
|----|------|----|----------|

- 563** 12 Die of 562–566.
R17 Die of 561, 564, 567.
1. 2.14 Astarte 9, 2002, 147.
 2. 2.13 4 Harvard, Dewing 568; Helbing 8.11.1928, 3515.
 3. 2.12 12 Naples, Fiorelli 3971.
 4. 2.08 Auctiones 25, 1995, 78.
 5. 2.05 *Stuttgart (A 364).
 6. 2.05 5 Catanzaro.
 7. 2.04 1 Myers 12, 1975, 70; formerly New York.
 8. 2.02 6 Glendining 25.10.1955, 598; Lockett *SNG* 717.
 9. 2.00 3 New York (1957.172.520, H. Miller), *SNG ANS* 1010.
 10. 1.98 7 Private collection, Sweden; Sambon-Canessa 27.6.1927, 667.
 11. 1.90 Vatican (cat. 34).
 12. 1.87 Agrigento (no inv. no.), *SNG* 244.
 13. 1.81 10 Agrigento (2260), *SNG* 245.
 14. – New York in trade 1951.
- 564** O12 Die of 562–566.
R18 A–K–P–A retrograde starting on r. side; similar crab; fish l., upwards.
Die of 514, 570.
1. 1.99 *Neville 10, 1925, 177; Neville I Pozzi, 1920, 392.
 2. 1.97 NFA mail bid sale, 18.10.1990, 469 (ex. Tucker collection); New York in trade 1951.
- 565** O12 Die of 562–566.
R20 AK to r., PA to l.; similar crab; fish r., upwards. Die of 565, 569, 571, 574.
1. 2.13 5 Syracuse (30638, acq. 1910).
 2. 2.08 9 Paris, *SNG Delepierre* 530; Neville 16, 1933, 438.
 3. 2.07 *London, *BMC* 70; Salinas 203, pl. 9.1.
 4. 2.05 11 Naples Santangelo 7354.
 5. 2.00 5 Paris (FG 98).
 6. 1.95 7 London (Mavrogordato 1949)
 7. 1.94 4 Palermo.
 8. 1.93 7 Pennisi.
 9. 1.92 Private collection X.
- Probably same dies but on *rev.* fish shorter (weekly struck?):
10. 2.01 5 Zurich (233).

- 566** O12 Die of 562–566.
R21 AK–PA retrograde; fish r. Die of 566, 572.
1. 2.05 5 Cefalù.
- 567** O13 Similar, eagle's tail turned upwards; hare has triangular head. Dotted border. Die of 567–568.
R17 Die of 561, 563, 567.
1. 2.11 Glasgow, *Hunter* 31, pl. 11.15.
2. 2.02 7 Copenhagen (Ramus 7), *SNG* 59.
3. 2.00 *MMAG list 143, 1955, 3; do. in stock 1954.
4. 1.88 St. Petersburg (2022.18)
5. – MMAG list 183, 1958, 3.
- 568** O13 Die of 567–568.
R19 AK to r., PA to l. Crab with very long thin legs; thin long fish r., upwards.
1. 2.08 12 *Leu 59, 1994, 53; Athena 2, 1988, 34. (*Obv.* enlarged.)
- 569** O14 Eagle has broad wing with finely rendered feathers; thick neck. Dotted border.
R20 Die of 565, 569, 571, 574.
1. 2.05 7 Naples, Fiorelli 3972.
2. 2.03 5 *New York (1941.153.229, Beatty), *SNG ANS* 1011.
3. 2.03 8 Berlin (171/1885).
4. 1.91 1 MMAG Deutschland 5, 1999, 32; Kölner Münzkabinett 53, 1991, 303; G. Hirsch 156, 1987, 42; do. 152, 1986, 106.
5. 1.90 Vatican (cat. 33).
6. 1.89 Peus 292, 1977, 5022.
7. 1.85 6 Oxford (Bodleian), *SNG* 1680.
- 570** O15 Similar eagle; tail turned slightly upwards; smaller hare with short legs. Dotted border. Die of 570–573.
R18 Die of 564, 570.
1. 2.18 Leu 38, 1986, 18; Glendining 25.10.1955, 597; *SNG* Lockett 7162. 2.06
2. Cambridge, *SNG* IV.918, Leake, *NH*, Sicily, p. 50.1.
3. 2.05 11 Naples, Fiorelli 3973.
4. 2.04 7 Berlin (Löbbecke 1906).
5. 2.02 9 Berlin (Fox 1873).
6. 2.00 12 *Copenhagen (C.VIII), *SNG* 60.
7. 1.99 Palermo.

8. 1.97 Rauch 36, 1986, 20; Spink in stock.
 9. 1.94 4 Berlin (Gansauge 1873).
 10. 1.93 Syracuse, Gagliardi (1178).
 11. 1.93 MünzZentrum 66, 1989, 93.
 12. 1.90 5 Leiden.
 13. 1.85 1 Münzhandlung Basel in stock 1951.
 14. 1.62 6 Syracuse (5430).
- R18¹ Reverse slightly recut: fish a little shorter, r. claw altered.
 15. 2.30 11 Utrecht.
Obv. Thin, small crack beginning to appear above eagle's tail: 6, 7, 10, 13.
- 571** O15 Die of 570–573. Worn die.
 R20 Die of 565, 569, 571, 574.
 1. 2.10 9 Oxford (Oman 1947), *SNG* 1681.
 2. 2.03 Vecchi 5, 1997, 89.
 3. 1.93 *Peus 282, 1973, 37.
- 572** O15 Die of 570–573.
 R21 AK to r./PA to l.; similar crab; fish r., upwards. Die of 566, 572.
 1. 2.15 11 Paris (FG 99).
 2. 2.15 Dresden (476).
 3. 2.09 1 Pennisi.
 4. 2.07 6 Pennisi.
 5. 2.06 5 *Brussels; Lacroix, *RBN*, pl. 1.7.
 6. 2.01 12 Udine, Brandis collection 7.
 7. 1.97 2 Cambridge, *SNG* 920; Leake, *NH*, Sicily, p. 50.2II.
 8. 1.89 12 Milan (B5385), Arslan 40.
 9. 1.80 10 Paris. (FG 97).
 10. 1.71 Budapest (Dess.III.670), *SNG* 30.
Obv. Thin, small crack above eagle's tail as last: 1, 3, 5, 6, 8, 10.
- 573** O15 Die of 570–573.
 R22 AK to l./RA to r.; similar crab with long claws and legs; fish r. upwards. Die of 573, 575.
 1. 2.22 *Stockholm, *SNG* I, Gustaf VI Adolf 25; Egger 26.11.1909, 107.
 2. 2.11 9 Palermo.
 3. 2.10 1 Harvard, Dewing 567; Hess 194.1929, 122.
 4. 2.10 Hirsch 30, 1911, 327.
 5. 2.10 7 Paris (FG 96).
 6. 2.10 4 London, *BMC* 71.

- | | | | |
|-----|------|----|--|
| 7. | 2.09 | | Stuttgart (A365). |
| 8. | 2.07 | 4 | Berlin (Friedländer 1861). |
| 9. | 2.07 | 11 | Naples, Fiorelli 3969. |
| 10. | 2.05 | | Künker 34, 1996, 22; G. Hirsch 153, 1987, 31; Downie list 8, 1984, 59P; Sotheby 12.5.1983, 96. |
| 11. | 2.04 | 5 | Cambridge, <i>SNG</i> 919; Leake, <i>NH</i> , Sicily, p. 50.2.I. |
| 12. | 2.04 | | Nomos, Kriens, in stock 1979. |
| 13. | 2.01 | | Naville 5, 1923, 831. |
| 14. | 2.01 | | Jameson 513. |
| 15. | 2.00 | | Vatican (cat. 32). |
| 16. | 2.00 | 7 | Formerly de Laval collection, Stockholm. |
| 17. | 1.96 | | Spink <i>NCirc.</i> 7, 1991, 5410; Weber 1198. <i>Rev.</i> Crab's legs cut off on left side. |
| 18. | 1.96 | 12 | Enna. |
| 19. | 1.95 | | Palermo. |
| 20. | 1.93 | 6 | Naples, Santangelo 7353. |
| 21. | 1.91 | 11 | Winterthur, Bloesch 578. |
| 22. | 1.90 | 3 | Vienna. |
| 23. | 1.89 | | Myntuset Stockholm, list 5, 1984, 8; Galerie des Monnaies (Los Angeles) 9.6.1978, 1250 (not ill.). |
| 24. | 1.88 | 10 | Naples, Fiorelli 3970. |
| 25. | 1.85 | | Formerly private collection, Germany. |
| 26. | 1.85 | | Manchester, <i>SNG</i> 372. |
| 27. | 1.84 | 12 | New York (1984.84.46, R. Trenholme). Worn. |
| 28. | 1.83 | | Arethusa 2, 1994, 93. |
| 29. | 1.80 | 9 | Göttingen AS 95–4. |
| 30. | 1.78 | 3 | New York (1984.46.24, R. Trenholme). Worn. |
| 31. | 1.73 | | Rauch 41, 1988, 23. |
| 32. | – | | Ratto stock cat. XI, 1934, 1019. |
- Obv.* Thin crack above eagle's tail as last: 4, 6, 7, 10, 11, 15, 30.

574 O16 Closely similar to O15; feathering on wing more varied; hare's forelegs more straight; head drooping. Dotted border.

R20 Die of 565, 569, 571, 574.

- | | | | |
|----|------|--|------------------------|
| 1. | 1.96 | | *Private collection X. |
|----|------|--|------------------------|

575 O17 Similar.

R22 Die of 573, 575.

- | | | | |
|----|------|---|------------------------------------|
| 1. | 2.07 | 1 | *Agrigento (2093), <i>SNG</i> 243. |
| 2. | 2.05 | | Cahn 66, 1930, 100. |
| 3. | 1.96 | | MM Deutschland 6, 2000, 17. |
| 4. | 1.90 | 2 | Bonn. |
| 5. | 1.84 | 3 | Syracuse (14875, acq. 1894). |

Series 2. *Rev.* Ketos (sea dragon)*Obv.* dies 5; *rev.* dies 5

- 576** O18 Eagle with rough feathering and lowered head grasping large hare in claws; between tail and wing, corn grain. Dotted border.
- R23 A–K–P–A around; crab, below ketos r., holding fish in mouth. Die of 576–577.
1. 2.17 8 London (1927.4.3.1, Spink).
 2. 2.12 Glasgow, *Hunter* 26.
 3. 2.09 7 Cambridge, *SNG* IV. 924 (De Pass).
 4. 2.08 6 Berlin (Löbbecke 1906). *Obv.* Double struck on l. side; hare's hindlegs weekly struck.
 5. 2.08 *Gans, MB 16, 1960, 120, Naville 5, 1923, 828; Sambon-Canessa 18.11.1907, 659.
 6. 2.07 2 Cambridge, *SNG* IV.923; Leake, Sicily, p. 49.11; Sotheby 19.7.1841. 212.
 7. 2.05 Copenhagen (C.VIII), *SNG* 56.
 8. 2.03 MMAG 28, 1964, 36; Münzhandlung Basel 4, 1935, 419. 9. 2.02 Myers list Febr. 1976, 5; do. 9, 1974, 32.
 10. 2.02 Spink (Zurich) 20, 1986, 65; MMAG list 288, 1968, 2.
 11. 2.01 2 New York (1944.100.8221, Newell), *SNG ANS* 1013.
 12. 2.01 4 Syracuse (5442).
 13. 2.01 Formerly Oxford (disposed of in 1977).
 14. 2.01 7 Pennisi. Oxydized.
 15. 2.01 Waddell list July 1985, 22.
 16. 2.00 6 Syracuse (23606, acq, 1901).
 17. 2.00 Sambon 19.12.1907, 92.
 18. 2.00 Vatican (cat.35).
 19. 1.98 7 Munich, *SNG* 80.
 20. 1.98 Syracuse, Gagliardi (981).
 21. 1.98 6 Coburg.
 22. 1.98 New York (1997.056, Leggett); SBV 2, 1977, 36.
 23. 1.96 12 Glendining 4, 1955, 60a (not ill.).
 24. 1.95 MünzZentrum 71, 1991, 61. Galerie des monnaies in stock 1978.
 25. 1.94 9 Winterthur (Bernhard), Bloesch 579.
 26. 1.94 Rosenberg 8.9.1924, 77; Naville 5, 1923, 829.
 27. 1.94 Palermo.
 28. 1.93 1 Basel, Hist. Museum (1908.628).
 29. 1.93 5 Munich, *SNG* 81.
 30. 1.92 11 Naples, Santangelo 7352.
 31. 1.92 *London, Lloyd *SNG* 825 (ex. Evans); Merzbacher 2.11.1909, 2434. (Enlarged.)

- | | | | |
|-----|------|----|---|
| 32. | 1.91 | | MMAG 79, 1993, 97; Münzhandlung Basel in stock 1951; Hirsch 20, 1907, 109. |
| 33. | 1.91 | 4 | Cambridge, <i>McClellan</i> 2045, pl. 65.15. |
| 34. | 1.90 | 11 | Oxford, <i>SNG</i> 1678 (Evans 1941). |
| 35. | 1.89 | | <i>Ars Classica</i> 16, 1933, 435; Merzbacher 15.11.1910, 193. |
| 36. | 1.86 | | CNG 41, 1997, 165. |
| 37. | 1.85 | | Hamburger 98, 1933, 144. |
| 38. | 1.85 | 6 | Formerly New York (Hoyt Miller); Myers 13, 1976, 58; do 12, 1975, 71. |
| 39. | 1.85 | 11 | Paris (FG 100). |
| 40. | 1.85 | | Triton I, 1997, 198. |
| 41. | 1.84 | | Auctiones 22, 1992, 58; CNG 24, 1992, 177; MMAG list 484, 1986, 6; Dorotheum Sonderauktion 12.11.1982, 47; Lanz 22, 1982, 73. |
| 42. | 1.84 | | Berk MB 95, 1997, 89. |
| 43. | 1.84 | 5 | Budapest, <i>SNG</i> I.3, 32. |
| 44. | 1.72 | | Berk 118, 2001, 101; Leu 79, 2000, 331; MMAG list 373, 1975, 10; Münzhandlung Basel 10, 1938, 88; Hess 207, 1931, 129. |
| 45. | 1.72 | 3 | Naples, Fiorelli 3975. |
| 46. | 1.71 | | NAC-C, 1993, 1181; Kunst und Münzen 23, 1982, 54. |

- 577** O19 Eagle's wing closer to body; wing has different feathering; head slightly more lifted; hare's hindleg and foot more bent. Die of 577–578.
- R23 Die of 576–577.
- | | | | |
|----|------|----|---|
| 1. | 2.08 | 6 | Berlin (Löbbecke 1906). <i>Obv.</i> Slightly double struck on l.side. |
| 2. | 1.98 | | Aufhäuser 8, 1991, 17. |
| 3. | 1.95 | | G. Hirsch 229, 2003, 1566; Pozzi, Boutin 923. |
| 4. | 1.90 | 10 | Sotheby (Zurich), 4–5 April 1973, part II: 116 (b, not ill.); formerly New York, Metropolitan Museum, Ward 142. |
| 5. | 1.89 | | G. Hirsch 158, 1988, 20. |
| 6. | 1.89 | | Schulten 20, 1987, 76; Rauch 33, 1984, 64. |
| 7. | 1.33 | 1 | Syracuse (26890). |
| 8. | – | | *Sambon 19.12.1907, 23. |
- 578** O19 Die of 577–578.
- R24 A–K–P–A around; similar to last. Die of 578–579.
- | | | | |
|----|------|---|-----------------------------------|
| 1. | 1.98 | 3 | Cambridge, <i>McClellan</i> 2046. |
| 2. | 1.95 | | Münster (ex. Bieder collection). |

- 579** O20 Eagle's head more forwards; hare's forelegs and head more bent.
R24 Die of 578–579.
1. 2.14 St. Petersburg (2020.17a).
 2. 2.07 8 Berlin (366/1872).
 3. 2.05 2 Paris (FG 101); Salinas 211, (pl. 9.5).
 4. 2.05 MMAG in stock 1976.
 5. 2.03 1 Zürich (872/3).
 6. 2.00 7 Naples, Fiorelli 3976.
 7. 2.00 G. Hirsch 179, 1993, 102; do. 177, 1993, 88.
 8. 1.99 2 New York (1944.100.8220, Newell), *SNG ANS* 1012.
 9. 1.99 1 Palermo.
 10. 1.98 6 Budapest (17A.1918.1), *SNG I.3*, 31.
 11. 1.98 9 Formerly private collection, Sicily.
 12. 1.97 2 *Formerly New York.
 13. 1.96 NFA 27.6.1986, 87.
 14. 1.95 NAC-O, 2004, 1259.
 15. 1.93 Auctiones 10, 1979, 57.
 16. 1.93 Leu 45, 1988, 29; Hess-Leu 24, 1964, 43.
 17. 1.91 7 Berlin (Imhoof-Blumer 1900).
 18. 1.89 11 Palermo.
 19. 1.88 1 Syracuse (22289, acq. 1902).
 20. 1.88 7 Harvard, Dewing 566.
 21. 1.85 Helbing 12.4.1927, 1597.
 22. 1.80 9 London (1896.12.3.2, Bunbury).
 23. 1.80 Rovereto, Orsi collection (213), Gorini 75.
 24. 1.79 9 Bologna.
 25. 1.70 Pozzi, Boutin 924.
 26. 1.65 7 Naples, Santangelo 7351. Worn.
- 580** O21 Similar eagle; large head, sharply bent; broad wing; smaller hare.
R25 A–K–P–A–Γ around; similar to last.
1. 2.18 5 *Sotheby 21.6.1990, 222; Leu-MMAG 28.5.1974, 79.
 2. 2.08 7 Vinchon 13.4.1985, 70; *Ars Classica* 13, 1928, 198; Naville 4, 1922, 207. *Obv.* Double struck.
 3. 2.07 Vinchon 11.4.1988, 239.
 4. 2.03 6 Pennisi; Rizzo, pl. I.19. *Obv.* Double struck.
 5. 2.03 9 Washington University, Wulfing collection, *ACNAC* 1979, 89; Weber 1200 (2.11) *Obv.* Double struck.
 6. 2.01 NAC 10, 1997, 94, ex Moretti.
 7. 2.01 5 Paris, Delepierre *SNG* 531. *Obv.* Hare distorted by double striking.
 8. 2.00 Private collection X.
 9. 2.00 7 Utrecht.

10.	2.00	6	London, <i>BMC</i> 63. <i>Obv.</i> Double struck.
11.	2.00	11	Vienna.
12.	1.95	6	Palermo. <i>Rev.</i> Double struck.
13.	1.95	4	Catania.
14.	1.90		Canessa 12.6.1928, 497; Sambon-Canessa 27.6.1927, 666.
15.	1.87	1	Florence.
16.	1.75		Private collection X.

- 581** O22 Similar eagle grasping large size prey with long neck and hooves, possibly a deer or goat kid. Die of 581–582.
R26 A–K–P–A around; similar to last.
- | | | | |
|-----|------|----|--|
| 1. | 2.09 | | *NAC 13, 1998, 259; Antikenmuseum Basel 259; ex. Moretti collection; Jameson 514. Enl. |
| 2. | 2.07 | 9 | *New York (1947.97.46, Flinders Petri), <i>SNG ANS</i> 1014. |
| 3. | 2.02 | 2 | Naples, Santangelo 7350. Small piece missing at edge. |
| 4. | 2.01 | 4 | Munich, <i>SNG</i> 82. |
| 5. | 1.99 | 5 | Munich, <i>SNG</i> 83. |
| 6. | 1.98 | | Glasgow, <i>Hunter</i> 27. |
| 7. | 1.95 | 12 | Naples, Fiorelli 3974. |
| 8. | 1.93 | 1 | Enna. |
| 9. | 1.92 | 10 | Palermo. |
| 10. | 1.90 | 2 | Paris. |
| 11. | 1.90 | | Münzhandlung Basel 10, 1938, 89. |
| 12. | 1.86 | | Naville 5, 1923, 830. |
| 13. | 1.86 | 10 | Formerly New York. Worn, <i>rev.</i> partly off flan. |
| 14. | 1.81 | 7 | Milan (R1170), Arslan 41. |
| 15. | 1.80 | 5 | Cambridge, <i>SNG</i> IV.925; Leake, <i>NH</i> , Sicily, p. 49.12. |
| 16. | 1.80 | | Dresden. |
| 17. | 1.79 | | St. Petersburg (2021.17b). |
| 18. | 1.58 | 6 | Private collection, England; Grabow in stock 1957 (ex. Nägeli). |
- 582** O22 Die of 581–582.
R27 Similar to last.
- | | | | |
|----|------|---|---|
| 1. | 2.12 | | Hamburg, Kunsthalle (1951/33), Postel 31; Riechmann 30, 1924, 208; Börger, <i>JHK</i> vol. 6, 1961, p. 178; Gramberg & Hatz, p. 42 (<i>rev.</i>). |
| 2. | 2.08 | 8 | Palermo. |
| 3. | 2.07 | 4 | Palermo. <i>Rev.</i> Double struck on l. side, above. |
| 4. | 2.04 | | G. Hirsch 199, 1998, 36. |
| 5. | 2.04 | | Elsen 67, 2001, 109. |
| 6. | 2.00 | 3 | *London, <i>BMC</i> 64, Salinas 212, pl. 9.6. |

7.	1.99	1	Berlin (Rauch).
8.	1.98		Egger 26.11.1909, 106.
9.	1.97	10	Copenhagen (C. VIII, Rollin 1847), <i>SNG</i> 55.
10.	1.96		Schulten list January 1988, 2; do. 1–3 April 1987, 29; do. list December 1986, 2.
11.	1.95		Private collection X.
12.	1.94	6	Cambridge, <i>McClellan</i> 2047, pl. 65.16.
13.	1.91		Locarno, Vismara, <i>Koinon</i> 5, 120, ex. Moretti collection.
14.	1.89		MMAG 86, 1986, 99; Leu 18, 1977, 48.
15.	1.85		Formerly private collection, Germany.
16.	1.77	8	Pennisi.
17.	1.75	6	Paris, Delepierre <i>SNG</i> 532.
18.	–		Berk 88, 1995, 93.

Tetradrachms Quadriga/Eagle pair, c. 410–406 BC

Series 1

Obv. dies 5; *rev.* dies 6

- 583** O1 Quadriga r. driven by charioteer dressed in a long chiton which leaves the r. shoulder bare; he holds reins in both hands and a kentron in r.hand; one rein is attached to the antyx of the chariot; another rein is trailing loose below forelegs of third and fourth horse; horses galloping in lively motion with heads down; the head of third horse turned towards second horse; above Nike flying l. holding an open wreath with both hands; in exergue small Skylla; on exergue line to r. signature MYP. Die of 583–584.
- R1 Ethnic ΑΚΡΑΓΑΝΤΙΝΟΝ from l. to r. following the edge of the coin; eagle pair r. as on 531–535; both birds have strongly curved beaks and broad tails; tail of second eagle visible below first eagle; large hare with long ears placed on a pile of rocks; lined border (not always visible).
- | | | | |
|----|-------|----|---|
| 1. | 17.16 | 7 | *Formerly Moretti; Leu 52, 1991, 10 (ex. Abecassis). Enl. |
| 2. | 17.12 | 12 | *Sotheby 19.6.1990, 76; Leu-MMAG 28.5.1974, 80; Seltman 3b, pl. IBγ (=cast at Winterthur); Sotheby 28.5.1900, 83, Hamburger 2.4.1894, 135; Rizzo, pl. 2.6 and 4.3; <i>WealthAW</i> , p. 180, no. 76. <i>Rev.</i> Cut across head and neck of third and fourth horses. |

3. 16.76 7 London, *BMC* 53; Seltman 3 (a); Salinas 189, pl. 8.8.
Worn dies; corroded.

Obv. Small, thin die crack in exergue below wheel: all. Large die break over wheel concealing two of the spokes: 3.

584 O1
R2

Die of 583–584 in more worn state.

Ethnic probably as last, only partly visible on all specimens; similar but heavier eagles with short, broad necks; long tails; large hare as last; straight ear; in field I. cicada.

1. 17.33 7 *Formerly London, *BMC* 54 (sold as duplicate in 1959); Hess-Leu 24.3.1959, 53; Seltman 2(b), pl. IBβ; Rizzo, pl. 2.5; De Agostino, pl. II.2.8; Forrer, *Signatures (RBN* 1905), fig. p. 299; Weil, pl. I.13.
2. 17.25 1 Pennisi (from. Francesco Schiavo 3.6.1912). Small flan.
3. 17.23 9 Berlin (Fox 1873); Seltman 2(c).
4. 17.17 5 Harvard, Dewing 560; Sartiges 83; Hirsch 19, 1907, 108. Oval, irregular flan.
5. 17.07 7 *London, *SNG Lloyd* 820; Weber 1196 (ex. Lambros 1888 and Evans); Seltman 2(a) and 2(d), pl. 3B, pl. 4β; Westermarck & Jenkins, *Kamarina*, pl. 17(l); Jenkins, *CGS*¹, pl. 12b, *CGS*², fig. 61 (*obv.*); Hirmer pl. 61.177; *Burlington Fine Arts Club Exhibition* 1903, 319. Cracks at edge.
6. 16.75 Sotheby 7.10.1986, 93; Vinchon 13.4.1985, 71. *Obv.* Partly off flan; lower part corroded and details muddled.
7. 16.40 Helbing 19.8.1941, 134; Schlessinger 13, 1935, 225. Poorly preserved.
8. 16.30 Private collection X. *Obv.* Nike, charioteer and fourth horse partly off flan.
9. 15.95 Gans MB 16, 1960, 119. Poorly preserved.

Obv. Flaw on wheel: all except 2. Flaw on wheel extending over charioteer along l. side of coin: 1. Thin crack above head of first horse: 1, 2, 4, 7, 9. Long, thin crack from hoof of third horse through letter Y in signature: 1. Skylla distorted by flaws on shoulder, head and arms, visible on 4 and 7; most developed on 1.

- 585** O2 Almost identical quadriga; possibly same die recut and repaired?
 Nike's wreath smaller; in exergue ketos; no trailing rein; no signature.
 R3 Ethnic retrograde beginning on l. side; similar eagle pair; further wing
 of second eagle more visible; the feathering of the open wing rendered
 in a simple pattern.
1. 17.35 6 *Lisbon, *Gulbenkian* 167; Jameson 510, pl. 25; Egger 7.1.1908, 24; Seltman 1(a). Cast in London marked Giarre Riposto hoard (*IGCH* 2115, but not mentioned there).
 2. 17.30 5 *Leu 48, 1989, 35; do. 2, 1972, 69. Broad flan with cracks at edge. Overstruck on Carthage, Jenkins, *CPS* II, p. 24, pls. 6–7; Lee, *NC* 2000, pl. 3a. Pl. 71.
 3. 17.29 11 Copenhagen (C. VIII, Rollin 1847), *SNG* 53. Double struck.
 4. 17.29 Hirsch 33, 1913, 298; Sotheby 9.6.1983 (Brand 3), 22.
 5. 17.28 11 Brussels, L. de Hirsch 287; Seltman 1(c); *Art et Monnaie*, p. 13.31; Rizzo, pl. 2.4.
 6. 17.25 7 Collection CC 40, pl. 19; Leu 13, 1975, 38; Hirsch (New York) in stock in 1950s (ex. de Ciccio). *Obv.* Wheel and charioteer partly off flan.
 7. 17.21 10 Berlin (28723), Friedländer & Sallet² 583.
 8. 17.14 12 NAC 25, 2003, 52; do. 10, 1997, 93, ex. Moretti; Hess-Leu 16.4. 1957, 65.
 9. 17.11 Leu-Spink 26.9. 1988, 18 (16.63); SBV 5, 1979, 60.
 10. 17.10 *Sotheby 19.6. 1991, 55; Stack's 9.12.1991, 114; MMAG 61, 1982, 34; SBV 2, 1977, 38.
 11. 17.08 NAC 18, 2000, 64.
 12. 17.00 Banque Populaire du Nord 35, Mai 1985, 12
 13. 16.99 4 Cambridge, *McClean* 2042, pl. 65.12; Rollin-Feuardent 22.5.1908, 112; Seltman 1(b), pl. 1Aa; *Burlington Fine Arts Club Exhibition* 1903, 149. Overstruck.
 14. 16.81 Leu 53, 1991, 23; MMAG 72, 1987, 503.
- 586** O3 Similar quadriga; horses' hindlegs more strictly parallel; an eight hoof
 added; no corresponding leg visible; in exergue crab downwards.
 R4 Ethnic retrograde and partly reversed, starting on r. side; eagles of
 ample shape; thick, broad tails; large hare as 1st; to l. cicada.
1. 17.20 Palermo; Seltman 5(b), pl. 1De; Rizzo, pl. 2.3.
 2. 16.89 *Boston (04.430), Baldwin Brett 231; Warren 200; Seltman 5a, pl. 3D and 4e.
- Note to 1:* Salinas, p. 21 ad 190, regarded the coin in Palermo as a forgery.

- 587** O4 Similar, more compact quadriga; horses' legs form a restless pattern; hind legs touching ground; large Nike close to horses's heads; in exergue crab downwards.
- R5 Ethnic AKPAΓ/A in small letters beginning on l. side; eagles l.; first eagle's neck bent strongly backwards; on lowest wing quill signature ΠΟΛΥΑΙ; large hare on pile of stones with a plant added; no symbol.
1. 17.22 ? NAC 29, 2005, 70 (17.18); G. Hirsch 234, 2004, 57 (16.92); Delorme-Fraysse-Weil 26.5.1997, 1 (17.22); NFA 20, 1988, 620 (17.28). *Rev.* Head of first eagle double struck.
 2. 17.15 5 *NAC 13, 1998, 260; formerly Moretti; *Antikenmuseum Basel*, 260; Hess-Leu 31, 1966, 94. *Rev.* Deep cracks around edge.
 3. 17.11 7 *London, *SNG Lloyd* 819 (ex. Evans and Mathey); Egger 45, 1913, 235; Seltman 4(a), pl. ICδ, pl. IIIC, pl. IVδ; Westermark & Jenkins, *Kamarina*, pl. 17n (*obv.*); Jenkins, *CGS*¹, pl. 12c; *CGS*², fig. 62(*rev.*); Hirmer pl. 61.176; Rizzo, pl. 2.2. and p. 89, fig. 20; Evans, *NC* 1926, p. 11, pl. 2.21; Sambon, *RN* 1914, pp. 1–2, figs. 1–2. Oval, compact flan. *Rev.* Only letters ΑΓ visible on l. side.
- 588** O5 Quadriga r. of varying type; second, third and fourth horses looking forward; head of first horse turned back; tails of all horses visible; hindlegs in parallel position touching ground; charioteer (possibly female) naked but for a short cloak draped over the shoulders and billowing out behind; he (or she) has longer hair flowing back; smaller Nike in more upright position holding open wreath; in exergue, crab downwards. Dotted border.
- R6 Ethnic AKPAΓANTINΩN retrograde and partly reversed. starting on r. side; eagle pair of new style; large heads; vertical tails; wings of second eagle much spread out forming fanlike pattern; very large hare with extremely long forelegs resting on stones as before; no symbol.
1. 17.57 5 London, *BMC* 57; Seltman 6(c); *RIN* 1903, pl. II.1 (*obv.*). *Rev.* Cut below, r. side.
 2. 17.35 12 Leu 76, 1999, 24; Cahn, *Kunstwerke der Antike* (Käppeli) F54. Large flan.
 3. 17.34 12 Providence, Brown University, Center for Old World Archaeology and Art; Waddell list 2.2.1982, 76.

4. 17.33 Formerly New York, Metropolitan Museum, Ward 139 (ex. Virzi); Seltman 6 (f); Sotheby 5.10.1990, 20; do. 4.4.1973, 114; Sotheby 20.1.1898, 43; *RIN* 1903, pl. II. 1(rev.) Worn.
5. 17.20 Hirsch 26, 1910, 58 (ex. Löbbbecke).
6. 17.14 Hess 249, 1979, 58. Worn. Rev. Head of nearest eagle off flan.
7. 17.08 10 Paris, Luynes 859; Seltman 6(d).
8. 17.04 Boston (00.95), Baldwin Brett 232; Sotheby 15.3.1897 (Montagu II), 42 (17.11). Oval flan.
9. 17.01 7 New York (1987.32.78), *ANS SNG* 5, App. 2 (donation Moretti), 1296. Rev. Head of nearest eagle off flan.
10. 17.00 9 *Brussels, L.de Hirsch 288; Seltman 6(a), pl. 1E ζ ; Rizzo, pl. 2.1; Salinas 188, pl. 8.7. Irregular flan.
11. 16.96 Leu 38, 1986, 19.
12. 16.87 3 *Leu 45, 1988, 30; Jameson 1889, pl. C; Hirsch 34, 1914, 119; Seltman 6(e).
13. 16.82 *Ars Classica* 16, 1933, 433; Naville 4, 1922, 206.
14. 16.80 1 Paris (FG 85). Small flan.
15. 16.80 Berk 98, 1997, 63. Irregular, oval flan.
16. 16.76 3 Berlin (11/1878); Hirmer pl. 61.178; Regling, *MaK* 535, pl. 25. Large, oval flan.
17. 16.65 5 Harvard, Dewing 561; *Pierpont Morgan Collection*, 108a; Hirsch 21, 1908, 539. Oval flan.
18. 16.50 7 Budapest, *SNG* I.3, 28; Egger 41, 1912, 98.
19. 16.44 NAC 9, 1996, 134; Peus 349, 1996, 31.
20. 16.31 5 SBV 15.9.1997, 47; G. Hirsch 174, 1992, 43; Sotheby 19.6.1991, 56; Leu 15, 1976, 53; Hess-Leu 27.3.1956, 68; *Hesperia Art* in stock 1951; *The Numismatist*, vol. 64, Sept 1951, p. 1011, fig. 2. *Obv.* Worn die.
21. 16.31 Leu 53, 1991, 24.
22. 16.05 12 London, *SNG Lloyd* 818 (ex. Evans); Seltman 6(b); Naville I Pozzi, 1921, 388. Worn. Porous surface with cavities. 23.15.65 12 Copenhagen (C. VIII, Falbe 1832), *SNG* 54. Worn and corroded.
24. 14.94 NAC-E, 1994, 2150.
25. ? NAC 27, 2004.69; Triton 4, 2000, 83. Small, irregular flan with deep cracks along edge.

Series 2

Obv. dies 2, *rev.* dies 6

- 589** O6 Ethnic AKPAΓANTI/NON in exergue; fast moving quadriga l. driven by Nike in chariot with high antyx; heads of first and third horses looking forward; head of second horse lifted; head of fourth horse turned back; hind-legs slightly above ground; both chariot wheels visible; nearest wheel has modelled spokes with knob in middle; Nike is dressed in long chiton blowing out behind her legs and leaving left shoulder bare; she leans forwards, holding reins of fourth horse in her lifted r. arm and hand and kentron and reins of the other horses in her l. hand; in field above long vine branch with leaves and bunch of grapes hanging down over head of second horse. Dotted border. Die of 589–591.
- R7 Eagle pair turned l. holding dead hare in their claws; hare placed on pile of stones as before; in r. field young head (river-god); in l. field above ΣTPATΩN.
1. 17.51 11 Syracuse (54 490), Ognina hoard; Boehringer, Ognina 25, pl. 28 and 38; Stazio, *Sikanie*, fig. 69.
 2. 17.48 3 Berlin (Imhoof-Blumer 1900); Imhoof-Blumer, *MG*, p. 15.6 (not ill.); Imhoof-Blumer, *Choix*, pl. 9.264. *Obv.* Small cut in front of horses. *Rev.* Head of river-god partly off flan.
 3. 17.46 Triton 5, 2002, 1161 (ex. William N. Rudman collection); Gorny 102, 2000, 50; Peus 349, 1996, 32; NAC 5, 1992, 50.
 4. 17.35 9 *London, *BMC* 58; Seltman 12a, pl. 3 H and 4λ; Jenkins, *CGS*¹, pl. 13a; Jenkins, *CGS*², figs. 63–64; *BM Guide* IIC26, pl. 14; Hill, *SGC*, pl. 52.2; Hill, *Ancient Sicily*, pl. 7.18; Seltman, *NC* 1909, pl. 30.5; Gardner, *Types*, pl. 6.28 (*obv.*), pl. 6.31 (*rev.*). Enl. x2.
 5. 17.23 9 Leu 79, 2000, 336; formerly Pennisi; Seltman 12d, pl. 2 Hλ; Caltabiano, *Studi Breglia*, fig. 2.8 (*obv.*); Hirmer, pl. 64.180; Rizzo pl. 3.1; Salinas 195, pl. 8.14. *Rev.* Slightly double struck on r.side.
 6. 17.19 Peus 366, 2000, 28; Aes Rude 1, 1977, 5, Catania 1976 hoard, *CH* 3, 1977, no. 13, fig. 6.1.
 7. 17.12 SBV 38, 1995, 46.
 8. 17.08 6 Harvard, Dewing 564; formerly Pennisi; *Ars Classica* 17, 1934, 127; Boehringer, *ZfN*, pl. 8.12 (*obv.*), p. 252, fig. 1 (*rev.*). *Obv.* Double struck. *Rev.* Somewhat weakly struck.

9. 17.06 *Boston (09.265), Warren 199, Baldwin Brett 233; Seltman 12b. *RIN* 1903, pl. I.20 and II.6. Irregular flan.
10. 17.00 4 Brussels, Hirsch 290; *Art et Monnaie*, p. 13.33, pl. 5 (*rev.*).
11. 16.91 NAC 13, 1998, 261; formerly Moretti; Antikenmuseum Basel 261; Giacosa, p. 52, pl. 40–41. *Obv.* Surface damaged on r. side below.
12. 16.84 Triton II, 1998, 151. *Rev.* Minor porosity on first eagle's head.
13. 16.82 CNG 36, 1995, 1751. *Rev.* Symbol partly off flan.
14. 16.75 *Harvard, Fogg Art Museum, F. M. Watkins Collection 21; Jameson 511, pl. 25; Hirsch 19, 1907, 110.
15. 16.65 7 Paris (FG 81); Foville, *RN* 1907, pl. 17.114 (16.59).
16. 15.68 5 Oxford (Evans bequest 1941), *SNG* 1677; Münzhandlung Basel 8, 1937, 105. Worn dies, esp. *obv.*

Obv. Thin flaw below heads of third and fourth horses: 12, 13, 14.

Rev. Small falw above first eagle's back: 2, 5, 6, 8, 12, 13. Long thin flaw from first eagle's wing towards hare: 2, 5, 14.

590 O6
R8

Die of 589–591.

Similar to last but inferior, heavier style; in right field grasshopper; no name.

1. 17.45 *Naples, Fiorelli 3950; Seltman 11a, pl. 2Hk; Rizzo, pl. 2.10; Salinas 194, pl. 8.13.
2. 17.03 9 *Lisbon, *Gulbenkian* 169 (from MMAG 1949), Caltanissetta hoard.
3. 16.86 Leu 77, 2000, 75 (ex. Gillet); Hurter, *NomKhron*, pl. 1.7 (*rev.*)
4. 16.78 Sartiges 84; Sotheby 4.5.1908, 113; Seltman 11b.
5. 16.69 9 Harvard, Dewing 563 (ex. Imhoof-Blumer); Seltman 11c; Glendining 24.11. 1950, 1488; Helbing 20.3.1928, 66; Hess 157, 1918, 167; Hamburger 17.6.1908, 291; Hirsch 20, 1907, 108; do. 18, 1907, 2224. Traces of overstriking. 6. 16.58 Ciani-Vinchon 6.2.1956, 173; Feuardent 17.12.1919, 77; Sambon-Canessa 22.6.1906, 156. Corroded.
7. 16.29 09 Hirmer collection, München.
8. 16.15 CNG/NAC 40, 1996, 728. Corroded.

Rev. Hare's hindlegs cut off by thin die break from hare's tail to eagle's tail: all.

- 591** O6 Die of 589–591 in worn state.
R9 Eagle pair of slenderer proportions turned r.; in left field lion's head.
Die of 591–592.
1. 16.39 5 *MMAG 37, 1968, 68; Seltman 13a, pl. 2Hμ; Hess-Leu 12.4.1962, 50; Jameson 2415, pl. 128; Schwarz & Mildenberg, 4, pl. 23 (*rev.*). *Obv.* Corroded.
 2. 15.65 G. Hirsch 221, 2002, 66; 218, 2001, 66; do. 215, 2001, 60; do. 211, 2000, 1230; do. 208, 2000, 1538; do. 205, 1999, 79; NAC 26.10. 1995, 97; Spink 96, 1993, 18; Ars Class. 17, 1934, 126; do. 14, 1929, 84. Corroded.
- 592** O7 Ethnic on tablet bustrophedon; similar fast moving quadriga l., driven by Nike; horses tighter together; heads of first, third and fourth horses turned straight ahead; head of second horse lifted. Nike is smaller; her chiton covers both shoulders; she holds kentron in her lifted r. hand and reins of all four horses in her l. hand. In exergue long club l.
Die of 592–596.
R9 Die of 591–592.
1. 17.43 7 Nomos (Zurich) 1, 2009, 18.
 2. 17.40 6 Paris, de Luynes 858; Seltman 14a, pl. 2Jμ; Lee, *NC* 2000, pl. 3b; Caltabiano, *Studi Breglia*, p. 125, fig. 2.7 (*obv.*); Hirmer pl. 64.181; Rizzo, pl. 3.4; *RN* 1937, pl. 5.1; Salinas 193, pl. 8.12.
 3. 17.21 *New York Sale 3, 2000, 85; MMAG 88, 1999, 62.
 4. 15.76 Glasgow, *Hunter* 25. Much worn.
 5. 15.26 9 Palermo.
- Rev.* Small flaw on eagle's neck and wing visible on most specimens.
- 593** O7 Die of 592–596.
R10 Similar eagles; further eagle in a little more upright position; hare fatter with forelegs more separated; in r. field cow's head. Die of 593–594.
1. 17.40 5 *Brussels, L. de Hirsch 289.
 2. 17.22 NAC 23, 2002, 1077; do. 9, 1996, 136. *Rev.* Slightly off-centre, cow's head and hare's head off flan. *Obv.* Holes in surface.
 3. 16.64 1 Private collection, Ognina hoard; Boehringer, Ognina 27.
 4. 16.47 Ars Classica 12, 1926, 674. Oval flan. Much worn, legend and many details obliterated.

- 594** O7 Die of 592–596.
R10¹ Same die slightly altered; open wing of further eagle longer. Die of 593–594.
1. 17.36 St. Petersburg (16c); Seltman 15a; Sotheby 20.1.1898, 40; Kraay, *ACGC*, pl. 46.794; Salinas 192, pl. 8.11 (formely Paris?).
 2. 17.21 1 Syracuse (54543), Leonforte 1952 hoard.
 3. 17.10 2 *Brussels, du Chastel 25; Seltman 15b (cast at Winterthur), pl. 2Jv; Rizzo, pl. 3.5.
- 595** O7 Die of 592–596.
R11 Similar to last; further wing of second eagle well visible; hare's forelegs wide apart; on l. side ΣΙΑΝΟΣ following border; no symbol.
1. 17.43 12 Leu 42, 1987, 79; Seltman 16c; *SNG* Spencer-Churchill 30; *Ars Classica* 16, 1933, 432 (ex. Woodward collection); do. 15, 1930, 271; Egger 45, 1913, 234; Rollin et Feuarent 9.5.1910, 120 (ex. Duruflé collection); Seltman, *GC*, pl. 26.11; Giesecke, pl. 6.5. *Obv.* Double struck on r. side.
 2. 17.41 11 Berlin, Friedländer & Sallet² 582; Seltman 16b.
 3. 17.41 Lanz 48, 1989, 65. Deep crack at edge.
 4. 17.30 1 Lisbon, *Gulbenkian* 170; Naville 6, 1923, 343; Sotheby 3.2.1909, 176. do. 15.6.1896, 266.
 5. 17.24 12 *Berlin (Imhoof-Blumer 1900); Seltman 16e. pl. 2.Jo (cast at Winterthur); Hofman 24.4.1867, 101=*RN* 1867, p. 480, 101 (collection Dupré); Rizzo, pl. 3.3; *Annuaire* 3, 1868, p. 36.14, pl. I.
 6. 17.21 Triton 5, 2002, 1163 and colour plate 5.
 7. 17.19 Formerly Moretti
 8. 17.15 11 Cambridge, *SNG* IV, 917 (De Pass gift); Hirsch 17, 1907, 392; do. 16, 1906, 210; Ratto 26.4.1909. 1105. *Obv.* Left side off flan.
 9. 16.80 3 Leu 33, 1983, 217; formerly Pennisi; Cahn 71, 1931, 137a; Hamburger 98, 1933, 143; formerly Pennisi; *MemAccAci* 1930–31, suppl., pl. 1.2.
 10. 16.76 Peus 332, 1991, 45 (ex. Feori Pipito collection); Hess 89, 1902, 482.
 11. 16.43 12 Syracuse (55 283), Augusta hoard; *AnnaliIN* 2, 1955, p. 80.1, pl. 8.1. *Obv.* Surface ruined.
 12. 16.20 4 New York (1960.173.1), *SNG ANS* 1000.
 13. 15.95 Hirsch 19, 1907, 109. Much worn.
- Rev.* Flaw at the border of the die below eagle's beak: 5, 9, 11, 12, 13.

- 596** O7 Die of 592–596, worn die.
R12 Similar eagles; open wing u-shaped curved with long, pointed upper part; further eagle's beak almost touching hare's foreleg; hare's forelegs not so wide apart; hare's head turned back with long ear pointing forwards; on l. side ΣΙΑΝΟΣ; no symbol.
1. 17.44 9 Private collection, Ognina hoard; Boehringer, Ognina 26. *Obv.* Corroded on left side. Large flan.
 2. 17.39 Lanz 46, 1988, 45; Knopek 7.4.1978, 35. Small flan.
 3. 17.34 *Sotheby (Genève) 12.11.1990. 2; Leu 7, 1973, 48; Hess-Leu 7.4.1960, 66; Hess 15.2.1934, 130; Hamburger 96, 1932, 37. Small flan.
 4. 17.24 3 *London, *BMC* 55; Seltman 16a, pls. 3J and 4o; Jenkins, *Gela*, pl. 39.3 (*obv.*); Jenkins, *AGC* 434 (*rev.*); Gardner, *NC* 1876, pl. 4.19 (*rev.*); Salinas, pl. 8.10. Large, slightly oval flan.
 5. 16.94 Pegasi Coins 106, 1998, 41 (16.87); Bourgey 24.2.1983, 19; Glendining 16, 1981, 10; Spink/Galerie des Monnaies 10.10.1977, 66.
 6. 16.89 11 Syracuse (12310, acq. 1893).
 7. 16.80 12 Reggio Calabria, Vito Superiore hoard, Procopio 14, pl. 1.5.
 8. 16.77 4 Haevard, Dewing 565 (acq. Agrigento 1956).
 9. 16.69 3 Munich, *SNG* 90.
 10. 16.65 5 Oxford (Evans' bequest 1941), *SNG* 1676; Sotheby 20.4.1909, 10. Poorly preserved, partly effaced. *Obv.* The coin has been heavily tooled; a depression in the surface on r. side, below, visible in the Sotheby catalogue, has been removed and the design incorrectly "improved"; eagle's head too much bent; hare's legs too far apart. Irregular flan.
 11. 15.30 03 Cambridge, *McClellan* 2041, pl. 65.11; Seltman 16d. Small flan, *obv.* die very worn, coin poorly preserved, *rev.* almost ruined.

Rev. Dotted flaw in front of eagles' legs: all except 8.

Dekadrachms, c. 408–406 BC

Obv. dies 2, *rev.* dies 3

597 O1 AKPAΓΑΣ in left field above horses' heads; fast moving quadriga galloping left driven by youthful, male charioteer, very tall, naked except for a cloak billowing out behind his back; nearest horse turning his head back; furthest horse lowering his head; horses have neck and breast collars; driver holds reins with both hands; horses' hind legs form a strictly parallel pattern; no chariot visible; foreshortened wheel on left side; traces of second wheel between horses' hind-legs; no ground line; above, eagle flying left grasping snake in claws; snake forms a loop around eagle's tail; below small crab turned downwards; dotted border. Die of 597–598.

R1 Eagle pair left, grasping large hare, turned left, and placed on a rock; nearest eagle with closed wings lifts head; further eagle has open wings and head lowered; three legs clearly visible; only traces of fourth leg; in right field, large grasshopper with curved antennae, turned right.

1. 42.95 1 *Paris (I) (FG 103, 1826); Seltman 9b; Lengyel, 187; Rizzo, pl. II.9; Bernhart fig. 7 and 11; Mirone, *Aréthuse*, fasc. 18.1928, pl. 13.9; Seltman, *NC* 1909, pl. 30.3; Seltman, *RIN* 1910, pl. 4.3; Reinach, *L'Histoire*, pl. 4.3.
2. 43.15 10 *Pennisi (II); Seltman 9a; Bernhart, fig. 6 and 10; Buchenau, col. 4373, fig. B.
3. 43.04 6 *Private collection, England; Triton II 1998, 150; NAC 9, 1996, 135; SBV 1, 1977, 37. Booth sides have serious, secondary injuries. Due to lack of full strike there are holes on the first horse's body (*obv.*) and on the hare (*rev.*) and at the left border (*rev.*); as noted in the Triton II catalogue there are heavy scrapes on the obverse and the flan has been bent by a heavy blow on the chariot and a lighter blow above the horses' heads.
4. 42.58 6 *Private collection; Hurter, *NomKhron*, pl. 1.4 (*rev.*). Slight secondary injuries on *obv.* at border and through eagle's head; thin crack through the flan visible on both sides to 1.

Obv. 1. Paris: Letter A in legend only faintly visible; letters KP weak; long thin crack between letters K and P extending into field below; knob like flaw in front of fourth horse's head; long, thin die-flaw across l. side of wheel; two small cracks on crab's legs, r. side
2. Pennisi II–3. Private collection: Coin 2 is worn and coin 3 damaged

but the long die cracks through the legend and on the wheel can be seen. Coin 4. Private collection has developed several more die-flaws compared with Paris; the thin long crack below letters K and P now extending above through eagle's wing; a triangular flaw appears from the ear of the third horse; thin flaws from the first horse's leg through the wheel and another below wheel; another flaw through the lower fold of driver's cloak.

Rev. Coin 4 has small flaws above and below further eagle's head and above grasshopper's antennae; stones below and hare's head weekly struck.

598 O1 Die of 597–598.

R2 Similar; hare's legs less bent; smaller grasshopper with straight antennae. Die of 598–600.

1. 43.50 6 *Lisbon, *Gulbenkian* 168 (acq. from J. Hirsch 1925), Naro hoard; Seltman 10a, pl. 3G and 40; Mildenberg, *KME* pl. 44.1; Hill, *SGC*, pl. 51.2 and 58.1; Bernhart, fig. 8 and 13. Slightly worn on both sides.

Obv. Die has the same flaws as 597.4 and an additional small triangular flaw at r. border above driver's head; flaws through the large fold of the driver's cloak and across crab's legs towards the horses' hindlegs now bigger.

Rev. Slightly double struck on stones below and on cicada.

599 O2 Same legend; similar quadriga in faster speed; horses' legs form a muddled pattern enhanced by double lines; driver leaning further forward. Die of 599–600.

R3 Similar; further eagle lowers head closer towards hare; grasshopper has straight antennae.

1. 43.22 1 *Munich, *SNG* 89 (acq. 1845 from Longi collection, Messina); Seltman 7a, pls. 2Fη, 3F, 4η; Garraffo, *RIN*, p. 184, fig. 2 (reduced size); Caltabiano, *Studi Breglia*, p. 122, fig. 1.3 (*obv.*); Kraay, *ACGC*, pl. 46.797; Jenkins, *CGS*¹, pl. 12a, Jenkins, *CGS*², fig. 59 (*obv.*); Jenkins, *AGC*, fig. 435; de Waele, frontispiece (*rev.*); Alföldi, *Dekadrachmon*, pl. 2.1; Alföldi, *Antike Numismatik* 1, fig. 133; Lacroix, *Studia Naster*, pl. I.1 (*obv.*); Hirmer 179, pls. 62–63; Hirmer, *Griechische Münzen* 559, pl. 42–43; Miller, pl. 6.67; Vermeule, *JHS* 75, 1955, p. 110, fig. 12(*obv.*); Seltman, *Book*, fig. 91 a–b; Seltman, *Masterpieces*, fig. 45 a–b; Seltman, *GC*,

pl. 27.2; Rizzo pl. 2.7; Bernhart part 1, fig. 4 (*obv.*); part 2, fig. 9 (*rev.*) Regling, *MaK* 532; Giesecke, pl. 6.3; Keller, *Antike Tierwelt* II, pl. 1.2; Buchenau, col. 4371, fig. A; Seltman, *NC* 1909, pl. 30.1; Seltman, *RIN* 1910, pl. 4.1; Reinach, *L'Histoire*, pl. 4.1; Holm III, pl. 4.16; Salinas 186, pl. 8.5.

Note: The coin is in excellent state of preservation and has a very fine patina. The back of the first horse is flattened out in the striking. The *obv.* die is here in its freshest state but there are some minor die flaws: small crack behind the driver's head; another small flaw below letter S; several flaws at the edge on l. side.

600 O2 Die of 599–600.

R2 Die of 598–600.

- | | | | |
|----|-------|---|---|
| 1. | 43.58 | 7 | *London, <i>SNG Lloyd</i> 817, Naro hoard; Seltman 8b; Rutter, <i>Italy and Sicily</i> , fig. 163; Stazio, <i>Sikanie</i> , fig. 71; Carradice & Price, pl. 6.83; Jenkins, <i>CGS</i> ¹ , pl. 11, Jenkins, <i>CGS</i> ² , figs. 57–58; Bernhart, part 1, fig. 2 (<i>obv.</i>), part 2, fig. 12 (<i>rev.</i>). |
| 2. | 43.31 | 6 | *Harvard, Dewing 562 (formerly Pennisi I); Olesen, Dewing collection 39; Seltman 8a; Rizzo, pl. 2.8; Boehringer, <i>ZfN</i> , pl. 8.7 (<i>rev.</i>); Bernhart, part 1, fig. 3 (<i>obv.</i>), part 2, fig. 14 (<i>rev.</i>); Buchenau, fig. C; Seltman, <i>RIN</i> 1910, pl. 4.7; Salinas 187, pl. 8.6. |
| 3. | 42.42 | 5 | *Formerly Bunker Hunt; Sotheby 19.6.1990, 77; <i>WealthAW</i> 77. |

Obv. die has same flaws as before and several new ones. No. 1: below letter S and behind driver's head as before; numerous flaws in l. field; long crack across letters A and P; thin cracks between third and fourth horses and in front of fourth horse's head. No. 3: As last; driver's face badly injured; large square flaw over legs of first horse. No. 2: Flaws in l. field still more numerous; driver's face completely ruined; large, square flaw on legs of first horse as on no. 3. In addition to the severe die injuries there is as big hole in the driver's chest (failure in striking?). The order of striking is the same as listed above.

Rev. Very thin long die-crack along the nearest eagle's back towards the antennae of the grasshopper (not visible on ex. 3. cleaned?); small flaws on the open wing of the 2nd eagle and on top of the wing behind.

Smaller denominations, c. 410–406 BC

Didrachms

Obv. dies 2, *rev.* die 1

601 O1 AKPAΓA/N/TI/NON ending below eagle's tail and feet; eagle with open wings l., hovering above long twisted snake; its head pointing at eagle's beak; above eagle's wing ΣTPA. Die of 601–602.

R1 Crab; above vine leaf; below large fish l. Die of 601–603.

1. 8.63 9 *Leu 30, 1982, 23 (ex. Pennisi); Hirmer, pl. 65.182; Baumann p. 65.156 (*rev.*); von Matt, fig. 100a (*obv.*); Hofkes-Brukker, p. 65, fig. 8 (*obv.*); Rizzo, pl. 3.2; Salinas 197, pl. 8.16.
2. 8.60 3 Naples, Fiorelli 3952. Worn.
3. 8.51 7 New York, *SNG ANS* 1001. *Obv.* Worn and restored.
4. 8.27 11 Berlin (Imhoof-Blumer 1900); Imhoof-Blumer & Keller, pl. 4.30 (*obv.*), pl. 7.2 (*rev.*)

Obv. Small flaw below snake through border: all. Flaw between snake and eagle's chest: 3, 4.

602 O1¹ Same die recut; end of ethnic NON now placed along the border; eagle's beak slightly more open; claws on r. foot altered; feather above on open wing prolonged; upper part of the snake with head slightly less curved.

R1 Die of 601–603.

1. 8.70 *NAC 13, 1998, 262; formerly Moretti; Antikenmuseum Basel 262; Hirsch, N.Y., in stock (ex. de Ciccio); Westermarck, *Le origini*, pl. 5.10. Enl.
2. 8.69 7 *Lisbon, *Gulbenkian* 165; Jameson IV, 2416 (ex. Torremuzza); formerly Naples, Fiorelli 3953; Salinas 196, pl. 8.15 (*obv.*).
3. 8.65 1 Sotheby 4.12.1990, 22; Hess-Leu 27.3.1956, 65; formerly Käppeli; Cahn, *Kunstwerke der Antike* F53; Scheffold, 467. *Obv.* Slightly double struck. Oval flan.
4. 8.57 8 Berlin (Fox 1873, ex Eastwood 1856). *Obv.* Slightly double struck on eagle's wings.
5. 8.50 12 Berlin (Löbbecke 1906). *Obv.* Eagle's tail and feet double struck.
6. 7.93 Jameson 512 (ex. Evans).

Obv. Flaw at border as before; thin flaw at eagle's leg: 1, 2, 4. Flaw between snake and eagle's chest removed.

Note. The recut ending of the ethnic visible only on nos 2 and 5.

- 603** O2 No legend visible; as last but eagle turned r.
 R1 Die of 601–603.
 1. 7.92 7 London, *SNG Lloyd* 823; Weber 1197 (ex. Evans and Montagu); Evans, *NC* 1926, pl. 2.22.

Drachm

Obv. die 1, *rev.* die 1

- 604** O1 AKPAΓAN; eagle pair r. on hare; dotted border within two linear borders.
 R1 Crab with human face on carapace; above on either side of crab's claws grass-hopper to r., corn grain to l.; below shrimp.
 1. 4.14 NAC.27, 2004, 67; do. 9, 1996, 133; Sternberg 20, 20.4.1988, 183. *Obv.* Tooled. Nearest eagle's wing too short; hare's hind-leg too straight and short.
 2. 4.12 Auctiones 25, 1995, 77 ("Überprägungsspuren. Gereinigt").
 3. 4.11 CNG 53, 2000, 95. *Obv.* Slightly double struck.
 4. 4.10 *Palermo; Hirmer pl. 65.183; Rizzo, pl. 1.21 and 4.2; Imhoof-Blumer & Keller, pl. 8.13 (*rev.*); Cook, II.1, p. 666, fig. 605.
 5. 4.10 Paris, Luynes 862.
 6. 4.08 3 London, *BMC* 62; Gardner, *Types*, pl. 6.34; Salinas 182, pl. 8.1.
 7. 4.06 9 *London, *SNG Lloyd* 824 (Evans); Sambon 19.12.1907, 91; Evans, *NC* 1926, pl. 2.23.
 8. 4.06 8 Formerly private collection, Sicily.
 9. 4.01 5 Berlin (Löbbecke 1906). *Obv.* Scratches.
 10. 4.00 Pennisi; formerly Paris; *RN* 1907, p. 522.115, pl. 17 (*rev.*); Longpérier, p. 416.7, pl. 16.1; Barthélemy, *Atlas*, pl. 8.265.
 11. 3.92 5 Munich, *SNG* 79. Twice pierced.
 12. 3.91 10 *Leu 28, 1981, 22 (ex. Gillet, acq. in Sicily before 1955). Enl. x2,5.
 13. 2.43 *Plated.* Myers 6, 1973, 46; Spink, *NCirc.* Dec. 1971, 11274.

Obv. Thin crack between eagle's legs and hare's forelegs: all specimens. Two cracks between eagle's head and border: 12.

Litrai

Obv. dies 4, *rev.* dies 3

- 605 O1** AKPAΓANTINO/N; two eagles r. on hare with long forelegs. Linear border.
- R1 Crab; below large fish r.; above A; linear border. Die of 605–606.
- | | | | |
|-----|------|----|--|
| 1. | 0.90 | | Private collection, South Germany. |
| 2. | 0.81 | 1 | *LHS 102, 2008, 57; Leu 22, 1979, 13 (ex. Gillet); Jameson 516 (ex. Evans). |
| 3. | 0.78 | 10 | Palermo; Salinas 198, pl.8.17 (<i>obv.</i>). <i>Rev.</i> worn. |
| 4. | 0.77 | | NAC 18, 2000, 65. |
| 5. | 0.76 | | Peus 374, 2003, 31; do. 371, 2002, 22; do. 368, 2001, 32; do. 366, 2000, 27; Sternberg 31, 1996, 406. |
| 6. | 0.74 | | Paris Luynes 864; Salinas 198, pl. 8.19 (<i>rev.</i>). |
| 7. | 0.74 | 3 | London, <i>BMC</i> 74. |
| 8. | 0.72 | 1 | Pennisi; Sambon 19.12.1907, 94; Rizzo, pl. 3.6. |
| 9. | 0.72 | 7 | Berlin (Imhoof-Blumer 1900). |
| 10. | 0.71 | 9 | SBV 21, 1989, 15; formerly Lloyd, <i>SNG</i> 829; formerly London, <i>BMC</i> 73; Naville 5, 1923, 832. |
| 11. | 0.71 | | *NAC 46, 2008, 179; do. 25, 2003, 53; do. 13, 1998, 263; formerly Moretti; Antikenmuseum Basel, 263; <i>SNG Lockett</i> 719; Glendining 25.10.1955, 600; <i>Ars Classica</i> 17, 1934, 128 (enlarged). |
| 12. | 0.63 | | Berlin (Löbbecke). Piece broken off. |
| 13. | 0.56 | | New York (1983.51.8, A. A. Rosen). Poorly preserved. |
| 14. | | | NFA 7, 1979, 44. (The weight is given as 10.99). |
| 15. | – | | Hirsch, N.Y., in stock <i>c.</i> 1950 (ex de Ciccio). |
- 606 O2** AKPA above eagle's back; single eagle l. with lowered head on hare l., placed on pile of rocks with cockle shell; dotted border.
- R1 Die of 605–606.
- | | | | |
|----|------|----|--|
| 1. | 0.81 | | *NAC 21, 2001, 42; formerly Moretti. Enl. x2. |
| 2. | 0.78 | 7 | London, <i>SNG Lloyd</i> 830. |
| 3. | 0.72 | 10 | *Winterthur (Imhoof-Blumer), Bloesch 580; Bernhard, pl. 1.27 (<i>obv.</i>); Salinas 199. |
- 607 O3** AKPA; similar eagle standing l. on a pile of rocks clutching a snake in his claws. Die of 607–608.
- R2 As last but broader crab with thin, curved claws and straight legs; linear border.
- | | | | |
|----|------|--|--|
| 1. | 0.82 | | *Elsen list 183, 1996, 17; CNG 24, 1992, 178. Enl. x2. |
| 2. | 0.81 | | Sternberg 20, 1988, 186. |

- | | | | | | |
|------------|----|--|------|----|---|
| | | 3. | 0.77 | 12 | Formerly Moretti; NAC 25, 2002, 54; Hirsch, New York, in stock (ex. de Ciccio). |
| | | 4. | 0.76 | 10 | Pennisi; Rizzo, pl. 3.7. |
| | | 5. | 0.74 | 12 | *London, <i>SNG Lloyd</i> 831. |
| | | 6. | 0.74 | | MMAG list 484, 1986, 4. |
| | | 7. | 0.72 | | Peus 343, 1995, 29. Corroded. |
| | | 8. | 0.70 | 7 | Paris (FG 105); Salinas 200. |
| | | 9. | 0.68 | 10 | MMAG in stock 1960. Broken. |
| | | 10. | 0.65 | | Pozzi, Boutin 927. |
| | | 11. | 0.60 | | Peus 345, 1995, 35; do. 340, 1994, 104. Corroded and cleaned. |
| | | 12. | – | | Glendining 25.10.1938, 52. |
| 608 | O3 | Die of 607–608. | | | |
| | R3 | Small crab with long claws; below A; linear border. Die of 608–609. | | | |
| | | 1. | 0.75 | 1 | *Paris (FG 104); Salinas 201, pl. 8.20. <i>Rev.</i> Large flaw on shell, left side. |
| 609 | O4 | AKPA; single eagle with lowered head pointing towards snake, placed on pile of rocks; dotted border. | | | |
| | R3 | Die of 608–609 but without flaw. | | | |
| | | 1. | 0.95 | | Sternberg 20.1988. 185. |
| | | 2. | 0.88 | | Knopek 7.4.1978, 37. |
| | | 3. | 0.84 | | Argenor 23.4.1999, 22. |
| | | 4. | 0.81 | | NAC 23, 2002, 1078. |
| | | 5. | 0.74 | 5 | Pennisi. |
| | | 6. | 0.71 | 9 | *London, <i>BMC</i> 72; <i>RIN</i> 1903, pl. I.6. |
| | | 7. | 0.71 | 07 | Berlin (Imhoof-Blumer). |

Hemilitrai (AR)

Obv. dies 2, *rev.* die 1

- | | | | | | |
|------------|----|--|------|--|--|
| 610 | O1 | AKP above eagle's back; eagle r. standing on rocks encircled by long snake with head raised toward eagle's lowered head. | | | |
| | R1 | Square crab with straight legs; below six pellets in two rows. Die of 610–611. | | | |
| | | 1. | 0.30 | | *NAC 18, 2000, 67; MMAG list 484, 1986, 5. |
| 611 | O2 | Legend illegible; similar to last but snake different. | | | |
| | R1 | Die of 610–611. | | | |
| | | 1. | 0.38 | | NAC-H 1998, 1136. |

Struck bronze coinage, c. 415–406 BC

Hemilitrai

Series 1. Triton.

Obv. dies 7, *rev.* dies 5.

Principal types:

Obv. Legend above; screaming eagle three-quarter facing l. or r. with open wings and head raised, holding hare or fish in its claws.

Rev. Crab; below Triton r., holding conch-shell in his outstretched arms close to his mouth; six pellets; no border.

- 612 1.O1** Eagle l. holding hare with head r.; in l. field cicada; linear border.
1.R1 Crab with long claws and legs; Triton has big head with short hair; pellets around
- | | | | |
|-----|-------|----|--|
| 1. | 23.45 | 3 | *Private collection, South Germany; formerly Moretti; Leu 6, 1973, 65 (ex. Virzi 583); Sangiorgi 15.4.1907, 1298; Calciati I, 49/1. |
| 2. | 23.32 | 5 | Palermo, Gàbrici 33. |
| 3. | 23.21 | 5 | *Berlin (Imhoof-Blumer 1900); Salinas 241, pl. 10.3 (<i>obv.</i>); Giesecke, pl. 2.2; Calciati I, 49; Bernhard, pl. I.25(<i>obv.</i>); Imhoof-Blumer & Keller, pl. 8.26. |
| 4. | 22.56 | 2 | London, <i>SNG Lloyd</i> 838; Egger 40, 1912, 323; Westermarck, <i>Le origini</i> , pl. 2.6. |
| 5. | 22.52 | 1 | Cambridge, <i>McClellan</i> 2056, pl. 66.2. |
| 6. | 21.91 | | Triton III, 30.11.1999, 157. |
| 7. | 21.60 | 6 | Brussels. |
| 8. | 21.20 | | Formerly Moretti and Virzi (584). <i>Obv.</i> Deep cut on r. side. |
| 9. | 21.14 | | Agrigento (462), <i>SNG</i> 215. Worn. |
| 10. | 20.50 | 11 | Pennisi. |
| 11. | 20.47 | 5 | London, <i>BMC</i> 90. |
| 12. | 20.03 | 2 | Berlin (Feytrighet). |
| 13. | – | | Naples, Santangelo 7390. |
- Rev.* Large flaw on Triton's arms and chest: 1, 5.
- 613 1.O2** Eagle turned r., holding hare with head l.; in r. field cicada. Linear border.
1.R2 Similar; Triton has thicker tail. Die of 613–615.
- | | | | |
|----|-------|--|---|
| 1. | 23.78 | | Pegasi Coins 106, 1998, 42; CNG 39, 1996, 262(b). |
|----|-------|--|---|

- | | | | |
|-----|-------|----|--|
| 2. | 23.46 | | *NAC 13, 1998, 268; formerly Moretti; Antikenmuseum Basel 268; Spink/Galerie des Monnaies 10.10.1977, 68; Calciati I, 32/1; Westermark, <i>NAC/QT</i> 1984, pl. 1.1. Agrigento 1976–77 hoard. |
| 3. | 23.26 | | London, <i>BMC</i> 89; Calciati I, 32/2; Salinas 221, pl. 9.14 (<i>rev.</i>) |
| 4. | 22.85 | | Elsen 56, 1998, 96; do. 49, 1997, 170; Lanz 78, 1996, 115. |
| 5. | 22.56 | 7 | Paris, Delepierre. |
| 6. | 22.32 | 8 | Berlin (Löbbecke 1906). |
| 7. | 21.89 | 6 | Pennisi; Rizzo, pl. 3.13; Calciati I, 32; Salinas 239, pl. 10.1 (obv.). <i>Rev</i> The big lump, which looks like a flaw behind Triton's back on the photo in Rizzo and Calciati does not exist on the cast. |
| 8. | 21.67 | 3 | Munich (65 573), <i>SNG</i> 117; Sambon-Canessa 27.6.1927, 672. |
| 9. | 21.63 | | Milan, Arslan 53. |
| 10. | 21.60 | | Formerly Virzi (582). |
| 11. | 21.55 | | Cambridge, General collection. <i>Rev</i> Hole on top of crab. |
| 12. | 21.51 | | Rovereto, Orsi collection, Gorini 214. |
| 13. | 21.19 | | Glasgow, <i>Hunter</i> 38. |
| 14. | 20.91 | | Cambridge, Leake collection. |
| 15. | 20.82 | | Private collection, Calciati, <i>Koinon</i> , 49. |
| 16. | 20.65 | 5 | Syracuse (34127). |
| 17. | 20.40 | | Lepzyk 12.6.1981, 21; formerly Virzi (581). |
| 18. | 20.26 | 5 | Berlin (Imhoof-Blumer 1900). |
| 19. | 20.21 | 11 | Palermo, Gàbrici 32 (20.19). |
| 20. | 20.09 | | Agrigento (2816), <i>SNG</i> 216, Sant. Div. Ctonie. |
| 21. | 19.82 | 6 | Copenhagen, <i>SNG</i> 71 (acq. 1890). |
| 22. | 18.30 | 5 | Pennisi. |
| 23. | – | | Naples, Fiorelli 4000; Salinas 240, pl. 10.2 (<i>rev.</i>). |
- Rev* Square flaw over r. claw and small dotted flaw at the edge, r. side: all but not visible or uncertain on 1, 4, 6, 9, 14, 18.

614 1.O3 Eagle holding large fish turned r. in his claws; no cicada. Dotted border.

1.R2 Die of 613–615. Same flaws.

- | | | | |
|----|-------|---|---|
| 1. | 22.29 | 7 | London, <i>BMC</i> 91; Westermark, <i>NAC/QT</i> 1984, pl. I.3. |
| 2. | 20.63 | 5 | Brussels. |
| 3. | 20.30 | 6 | München, <i>SNG</i> 119; Calciati I, 39. |
| 4. | 19.40 | 9 | *Toronto (949.15.15). Obv. Damage on eagle's leg. |

- 615** 1.O4 Similar eagle on fish; l. wing more curved; r. wing longer, touching fish below; no cicada. Dotted border.
- 1.R2 Die of 613–615. Same flaws.
1. 22.80 5 Budapest, *SNG* I, part 3, 41.
 2. 21.47 Agrigento (2261), *SNG* 213.
 3. 21.35 *CNG 54, 2000, 265; formerly Virzi (585).
 4. 20.36 Sternberg 13, 1983, 72. *Obv.* Tooled, especially on wings.
 5. 20.28 *Glasgow, *Hunter* 35.
 6. 19.19 Private collection, Messina, Consolo Langher 3, pl. I.3.
 7. – Naples, Fiorelli 3999.
- Same *obv.* but uncertain *rev.*
8. – Syracuse (17874). Much worn, partly effaced on both sides.
- 616** 1.O5 No legend visible; eagle on hare turned l.; shorter, curved wings; no cicada. No border visible.
- 1.R3 Smaller, heart-shaped crab; huge shell.
1. 17.56 *Morcom collection, *SNG* –; Vecchi 10, 1998, 112.
- 617** 1.O6 Faint traces of letters TI/NON; eagle on hare as last; head straight upwards; cicada in r. field. No border visible. Die of 617–618.
- 1.R4 Crab with very broad upper part; Triton has big head, short upper body and long tail; huge shell.
1. 21.13 2 Enna 13. *Rev.* Partly off flan.
 2. 20.95 10 Milan, Arslan 54.
 3. 20.19 Agrigento (461), *SNG* 214.
 4. 19.57 3 Munich, *SNG* 118.
 5. – *Naples, Santangelo 7394; Salinas 226, pl. 9. 18.
- 618** 1.O6 Die of 617–618.
- 1.R5 Crab with slooping sides in shallow incuse; Triton similar to last. Die of 618–619.
1. 19.54 *Rauch 34, 1985, 60; do. 32, 1984, 64; Dorotheum Sonderauktion 2, 15.4.1983, 44; do. Sonderauktion 12.11.1982, 49.
 2. 17.90 Sternberg MB 1, 1999, 105. *Obv.* Tooled; top of eagle's l. wing altered.
- Same *obv.* but uncertain *rev.*
3. 20.20 11 Paris (FG 115). *Obv.* Letters AKPAΓAN on l. side tooled? *Rev.* Plain field below. Symbol obliterated?

- 619** 1.O7 No legend visible; similar eagle but turned l., holding huge fish with head r. No border visible.
 1.R5 Die of 618–619. Worn die.
 1. 19.49 Milan, Arslan 62.
 2. 19.49 Private collection, Calciati I, 48.
 3. 18.85 6 *Agrigento (2116) *SNG* 210. *Rev.* Worn and double struck.

Series 2. Octopus

Obv. dies 28, *rev.* 37.

Principal types:

Obv. AKPAΓANTINON; screaming eagle with lifted head, thrown back, standing r. or l. on fish. Dotted border.

Rev. Broad crab with rounded sides, holding snake in l. or r. claw; below octopus and conch-shell; around, six pellets.

- 620** 1.O2 Die of series 1, 613, series 2, 620.
 2.R1 Snake in l. claw; conch-shell to l, upwards.
 1. 22.91 Coburg.
 2. 22.20 11 *Berlin (Imhoof-Blumer); Westermark, *NAC/QT* 1984, pl. I.2.
 3. 22.09 St. Petersburg (2030.22).
 4. 19.24 Agrigento (431), *SNG* 196. Much worn.
 5. 12.40 Utrecht.
 Similar but varying dies: add 23.50 Agrigento, *SNG* 197.
- 621** 1.O3 Die of series 1, 614, series 2, 621–623.
 2.R2 Similar to last; snake in l. claw.
 1. 23.45 12 Leu 79, 2000, 332.
 2. 22.29 Oslo.
 3. 20.81 *MMAG list 544, 1991, 1.
 4. 19.56 Formerly private collection, Germany.
- 622** 1.O3 Die of series 1, 614, series 2, 621–623.
 2.R3 Similar to last; conch-shell to l., horizontally.
 1. 23.96 Gorny. 62, 1993, 18.
 2. 21.39 *Formerly Virzi (571); Westermark, *NAC/QT* 1984, pl. I.4.
 3. 20.80 3 London, *SNG* Lloyd 840.
 4. 20.59 Munich, *SNG* 110.
 5. 19.75 Vecchi 6, 1997, 169.

6. 18.61 1 Duisburg (14/548), collection Köhler-Osbahr 160.
Same *obv.* die in a worn state, possibly recut on l. wing.
7. 19.81 Schulten 15.10. 1990, 18; do. list May–June 1990, 12;
do. 27.3.1990, 12.
- 623** 1.O3 Die of series 1, 614, series 2, 621–623.
2.R4 Similar to last; conch-shell to l., horizontally.
1. 19.48 *Oxford.
- 624** 1.O4 Die of series 1, 615, series 2, 624–625.
2.R5 Similar to last; conch-shell to l., diagonally.
1. 21.85 Private collection, Calciati I, 40/3.
2. 21.17 Baldwin in stock 1952. Much worn.
3. 20.61 Pennisi.
4. 17.09 *Palermo.
5. – Cahn 68, 1930, 1064. *Rev.* Damaged below.
6. – Rauch 40, 1988, 57.
7. 21.62 Agrigento (no inv. no.), *SNG* 194. Much worn (possibly
this *obv.*, var. *rev.*)
- 625** 1.O4 Die of series 1,615, series 2, 624–625.
2.R6 Snake in r. claw; conch-shell to l., diagonally. Die of 625–626.
1. 23.35 *Oxford (20.5.1891, gift G.J.Chester). Oxydized.
2. 20.14 Agrigento (427), *SNG* 201.
- 626** 2.O1 Eagle r. Die of 626–628.
2.R6 Die of 625–626.
1. 19.83 Agrigento (no inv. no.), *SNG* 195.
2. 18.30 *Tübingen, *SNG* 563.
- 627** 2.O1 Die of 626–628.
2.R7 Snake in l. claw; conch-shell l., diagonally. Die of 627, 629.
1. 21.89 1 Palermo, Gàbrici 18.
2. 21.68 Sternberg 31, 1996, 410.
3. 21.45 5 Copenhagen, *SNG* 72.
4. 20.62 5 Rome (19010).
5. 20.55 *MMAG 76, 1991, 122; Lafaille 1982, 37.
6. 20.32 MMAG in stock 1976.
7. 20.05 Paris, Delepierre.
8. 19.95 Private collection, South Germany.
9. – Naples, Fiorelli 4002; Salinas 219, pl. 9.13.
10. – Palermo. Corroded.
11. – G. Hirsch 171, 1991, 68.

- 628** 2.O1 Die of 626–628.
2.R8 Similar to last; conch-shell to l., horizontally.
1. 25.35 Vecchi 7, 1997, 152; Baldwin 7, 1996, 107.
 2. 23.10 7 Pennisi.
 3. 22.94 11 *Syracuse (8403).
 4. 22.24 Private collection, Calciati I, 40/1.
 5. 19.65 9 Agrigento (430), *SNG* 203.
 6. 18.70 Milan, Arslan 58.
 7. 15.41 Private collection, Calciati I, 40/6. *Obv.* Eagle's wing tooled.
- 629** 2.O2 Similar; fish a little shorter.
2.R7 Die of 627, 629.
1. 31.24 2 Parma (1276). Deep hole on obverse. Overstruck on Himera. Unclear traces of undertypes on both sides.
 2. 22.74 *Formerly Virzi (575).
 3. 21.43 NAC 27, 2004, 70; formerly Moretti.
 4. 21.25 8 Roma (116158).
 5. 21.02 Sternberg MB 1, 1999, 106. *Obv.* Tooled on eagle's body, wing, tail and beak. *Rev.* Pellet between crab's claws added.
 6. 20.82 11 Agrigento (422), *SNG* 198.
 7. 20.34 2 Pennisi; Rizzo pl. 3.10 (*rev.*).
 8. 19.94 CNG 41, 1997, 166.
 9. 19.82 2 Paris (FG 114).
- 630** 2.O3 Similar; fish touching eagle's tail.
2.R9 Similar to last; conch-shell to l., diagonally.
1. 23.00 Kunst und Münzen 26, 1988, 25.
 2. 22.99 Astarte MB 5, 1999, 224.
 3. 22.69 9 Private collection, Paris; Leu 6, 1974, 64 (ex. Virzi 570).
 4. 22.09 1 *London, *BMC* 86; *Money, A History*, p. 34, fig. 40 (*rev.*).
 5. 22.07 Vecchi 6, 1997, 171.
 6. 21.52 5 Pennisi.
 7. 21.31 Galerie des Monnaies 9.6.1978, 1251; Spink/Galerie des Monnaies 10.10.1977, 67, from Agrigento 1976–1977 hoard.
 8. 20.73 11 London, *BMC* 87.
 9. 20.38 5 Berlin (18114).
 10. 19.90 Agrigento(425), *SNG* 202.
 11. – Lepczyk 25.2.1981, 16.

- 631** 2.O4 Similar; long fish.
 2.R10 Similar to last; conch-shell to l. pointing l.
1. 22.06 Astarte MB 5, 1999, 228
 2. 21.14 MM Deutschland 11, 2002, 470.
 3. 21.03 5 Berlin (Imhoof-Blumer 1900).
 4. 20.76 Agrigento (no inv. no.), *SNG* 199.
 5. 20.65 10 *New York, *SNG ANS* 1031.
 6. 20.15 Agrigento (424), *SNG* 200.
 7. 20.10 12 Vienna.
 8. 19.34 12 Leipzig, *SNG* 367.
- 632** 2.O5 Similar. Die of 632–633.
 2.R11 Similar to last; conch-shell to l., pointing upwards.
1. 23.05 *London (1949.4.11.152, Mavrogordato); Weber 1202.
 2. 22.11 12 Berlin (Imhoof-Blumer 1900).
 3. 21.81 1 Palermo, Gàbrici 19.
 4. 21.60 Locarno, Vismara, *Koinon* 5, 123.
 5. 21.16 Private collection, Calciati I, 40/4.
 6. 21.10 Vatican (38).
 7. 21.09 11 Münster.
 8. 20.88 1 Palermo; Gàbrici, p. 114.16, pl. I.29.
 9. 20.81 Rovereto, Orsi collection, Gorini 78.
 10. 20.95 5 Agrigento, *SNG* –. Depression on wing and in front of eagle.
 11. 20.70 Formerly Virzi (573).
 12. 20.59 5 Roma (19011).
 13. 20.57 Palermo, Gàbrici 20? (20.37).
 14. 20.54 Munich, *SNG* 113.
 15. 20.50 Milan, Arslan 53.
 16. 20.29 10 Morcom collection, *SNG* 520.
 17. 20.24 Formerly Virzi (572); Hirsch (Genoa) 1922, 132.
 18. 20.13 7 Udine, Brandis collection 11.
 19. 19.97 3 Paris, Seymour de Ricci; Bourgey 30.6.1927, 165.
 20. 19.82 11 Syracuse (8400).
 21. 19.36 Lanz 86, 1998, 37.
 22. 19.34 Pegasi Coins list 119, 30.5.2000, 47; Toderi list 3, 1975, 62.
 23. 19.18 Glasgow, *Hunter* 33.
 24. 19.01 Agrigento (426), *SNG* 204.
 25. 18.83 1 Syracuse (25348).

- 633** 2.O5 Die of 632–633.
 2.R12 Similar to last; conch-shell to l., pointing r.
1. 22.74 Rauch 32, 1984, 60; formerly Virzi (574). *Obv.* Depresseion on eagle's body.
 2. 21.86 Elsen 49, 1997, 171; Lanz 78, 1996, 116.
 3. 21.00 *Private collection, Calciati, *Koinon*, 50.
 4. 20.92 Schulten 19, 1989, 22; do. 20–22 Oct., 1987, 77; MünzZentrum 65, 1988, 64; Müller 54, 1987, 15.
 5. 20.76 Vecchi 6, 1997, 170.
 6. 20.59 Formerly Moretti; *Class. Num. Review* 19.2.1994, 41.
 7. 20.56 10 Munich, *SNG* 112.
 8. 20.12 6 Syracuse (17785).
 9. 19.86 Palermo, Gábrici 21.
 10. 19.30 9 Budapest, *SNG* I.3, 38.
- 634** 2.O6 Similar; fish fatter and smaller. Die of 634–635.
 2.R13 Similar to last; long, curved snake; conch-shell to l. diagonally.
1. 24.79 7 Berlin (Löbbecke 1906).
 2. 24.12 7 Formerly private collection, Brussels; *Ars Classica*. 16, 1933, 439; Rizzo pl. 3.11 (*rev.*)
 3. 23.78 12 *Vienna.
 4. 23.64 7 Pennisi.
 5. 23.13 Kurpfälzische Münzhandlung 9, 1975, 22.
 6. 22.60 2 Berlin (6425).
 7. 21.84 Cambridge, General collection (acq. Girgenti 1931). Corroded and worn.
 8. 21.83 1 Cambridge, *McClellan* 2060. *Rev.* Depression to l. above.
- 635** 2.O6 Same die. Die of 634–635
 2.R14 Similar to last; conch-shell to l., pointing upwards.
1. 24.90 Evelpidis, *SNG* 428.
 2. 23.84 *MünzZentrum 56, 1985, 75 (ex. Virzi 576).
 3. 21.52 Glasgow, *Hunter* 32. *Obv.* Piece of surface flaked off.
 4. 21.22 9 Berlin (Arditi).
 5. 20.97 08 Lanz 82, 1997, 54.
- 636** 2.O7 Similar. Die of 636–637.
 2.R15 Crab with very broad upper part; eel in r. claw; conch-shell to l., pointing towards crab.
1. 24.78 NAC-K, 2000, 1108.
 2. 24.04 Paris (FG 113).
 3. 23.15 7 Berlin (Friedländer 1861).

4. 17.71 *Galerie für griechische, römische und byzantinische Kunst, list 1 (no year, c. 1971), 2.
Same *obv.*, var. *rev.*
5. 20.80 Palermo.
- 637** 2.O7 Die of 636–637.
2.R16 Smaller crab; long snake in r. claw; conch-shell to l, pointing r. Die of 637–638.
1. 14.82 7 *Pennisi; Calciati I, 40.
- 638** 2.O8 Eagle with open wings and lowered head, standing r. on hare turned r.
2.R16 Die of 637–638.
1. 19.24 *Berk 108, 1999, 493.
2. 16.75 MMGmbH 30 (28.5), 2009, 35.
3. 16.17 2 Agrigento (434), *SNG* 160.
- 639** 2.O9 Ethnic illegible; screaming eagle with lifted head r.on hare turned l.
2.R17 Large crab, very broad above; snake in r. claw; conch-shell to l.
1. 24.75 *Private collection, England, from 1976–1977 Agrigento hoard.
2. 22.20 1 Stockholm, *SNG* 380. Poorly preserved.
Similar but varying dies: Ad 23.57 Agrigento (429), *SNG* 197.
- 640** 2.O10 Similar eagle with long tail pointing upwards standing on long fish.
Die of 640–641.
2.R18 Crab has broad upper part and square lower part; snake in r. claw; octopus' arms floating l.; conch-shell to r., upwards.
1. – *Kurfälzische Münzhandlung 47, 1994, 28.
- 641** 2.O10 Die of 640–641.
2.R19 Crab with eyes very wide apart; conch-shell to r., pointing upwards.
1. 18.15 *Cambridge, Leake collection. *Obv.* Worn and spotted. Ethnic effaced.
- 642** 2.O11 Ethnic illegible; eagle's body more frontal.
2.R20 Triangular crab with snake in l. claw; conch-shell to l.
1. 22.21 12 *München, *SNG* 111.
2. 22.00 Private collection, Calciati I, 40/2.

- 643** 2.O12 Similar eagle; shorter, straight tail; shorter fish.
 2.R21 Broad crab; snake in l. claw; shell to r. Die of 643–644.
 1. 22.55 Glasgow, *Hunter* 34, pl. 11.16.
 2. 21.60 *Mini 21.
 3. 19.37 7 Munich, *SNG* 115.
 4. – Spink *NCirc.* 79, Dec. 1971, 11275.
- 644** 2.O13 AKPA below; clutching eagle with large wings and broad tail r. on hare; in r. field leaf. Die of series 5. 774–777.
 2.R21 Die of 643–644.
 1. 20.10 Private collection, Calciati I, 17.
 2. 20.07 7 Munich, *SNG* 104.
 3. 17.19 10 *Cambridge, *McClean* 2062, pl. 66.4; Calciati I, 17/1.
- 645** 2.O14 Screaming eagle with big head; in r. field cicada. Die of series 4. 738.
 2.R22 Round crab; snake in l. claw; conch-shell to l., pointing upwards.
 1. 17.45 11 Florence.
 2. 17.45 1 Private collection, New York; Knobloch list May 1967, 28.
 3. 17.29 MM Deutschland 6, 2000, 18; Astarte MB 5, 1999, 226. Tooled.
 4. – Palermo.
 5. – *Formerly Moretti; Westermark, *NAC/QT* 1984, pl. I.5.
 This *obv.*, uncertain *rev.* 20.30 Vatican (cat. 41).
- 646** 2.O15 Similar to last. Die has big flaw on lower part of l. wing.
 2.R23 Broad crab; snake in r. claw; conch-shell to r. pointing upwards. Die of 646–647.
 1. 21.77 1 Berlin (Fox 1873). *Obv.* Depression on top of the flan.
 2. 19.39 Cambridge *McClean* 2061.
 3. – *Formerly Moretti.
- 647** 2.O16 Screaming eagle standing l. on large fish turned l. Die of 647–648.
 2.R23 Die of 646–647.
 1. 23.12 Berk 114, 2000, 500. *Rev.* Weakly struck. Overstruck?
 2. 21.42 5 Syracuse (25367).
 3. 20.06 12 *Cambridge *McClean* 2059.
 4. 18.90 Private collection, Calciati I, 47.

- 648** 2.O16 Die of 647–648.
2.R24 Crab with narrow lower part; snake in r. claw; conch-shell to l., pointing r.
1. 21.71 *Malter 1, 1973, 38 (ex. Virzi 577). Deep crack at the edge. On *obv.* several depressions in the surface.
 2. 21.37 Harvard, Dewing 572 (acq. Baldwin 1958).
 3. 21.30 7 Cambridge, *McClellan* 2058. *Obv.* Cuts in surface.
 4. 20.50 9 Budapest, *SNG* I.3, 39. *Obv.* Depression below.
 5. 20.09 10 Agrigento (no inv. no.), *SNG* 208.
 6. 18.70 Palermo, Gàbrici 24. *Obv.* Big hole on l. side.
- 649** 2.O17 Similar eagle; fat and long fish turned upwards. Die of 649–650.
2.R25 Crab with broad upper part and narrow lower part; strongly curved section between eyes; loop-shaped snake in r. claw; conch shell to l., pointing r. Die of 649–651.
1. 23.40 5 New York (1957.172.527, H. Miller), *SNG ANS* 1032.
 2. 22.42 3 Waggoner, *Rosen* 38; Ariadne Galleries, Dec. 1981, 21.
 3. 21.90 Elsen 64, 2000, 94; formerly Moretti.
 4. 21.60 *Mini 24; Westermarck, *Le origini*, pl. 2.5.
 5. 21.23 Vecchi 6, 1997, 172.
 6. 19.33 Locarno, Vismara, *Koinon* 5, 122 (ex. Virzi 578).
- 650** 2.O17 Die of 649–650.
2.R26 Crab with rounded sides; eel in l. claw; conch-shell to r., pointing l.
1. 23.44 Dresden (537).
 2. 23.40 *Formerly Moretti and Virzi (580); Pozzi, Boutin 929; Hirsch 16, 1906, 214.
 3. 21.28 Milan, Arslan 60.
- 651** 2.O18 Similar eagle with thick neck and head thrown back. Die of 651–654.
2.R25 Die of 649, 651.
1. 24.45 12 Udine, Brandis collection 12.
 2. 23.25 1 Stockholm, *SNG* 381. Poorly preserved.
 3. 23.20 Miksche collection, Huddinge; G. Hirsch 188, 1995, 56.
 4. 23.18 12 *Cambridge, *McClellan* 2057, pl.66.3.
 5. 22.80 7 Bologna.
 6. 22.16 1 Berlin (Imhoof-Blumer); Salinas 225 pl. 9.17; Imhoof-Blumer & Keller, pl. 8.3 (*rev.*); Bernhart; *SNR* 26, 1936, pl. 2.17 (*obv.*).
 7. 21.15 6 Munich, *SNG* 116.
 8. 20.54 7 Rome (54484).
 9. 19.57 5 Syracuse (15489).

- 652** 2.O18 Die of 651–654.
 2.R27 Similar to R25; snake forming loop; conch-shell l., pointing upwards.
 1. 20.86 6 Duisburg (14/362), Collection Köhler-Osbahr 161.
 2. 20.52 11 Brussels.
 3. 19.19 *CNG 54, 2000, 265; NFA 5, 1978, 253; Calciati I, 43 (ex. Virzi 579); Pozzi, Boutin 928; Hirsch 16, 1906, 209.
- 653** 2.O18 Die of 651–654.
 2.R28 Snake in l. claw; conch-shell l., pointing upwards r.
 1. 22.20 *London (1947. 6.6.33, Cameron).
 2. 21.67 Agrigento (432), *SNG* 207.
 3. 21.10 9 Copenhagen, *SNG* 73.
 4. 20.86 Peus 304, 1982, 53.
 5. 20.54 7 Roma (54484).
- 654** 2.O18 Similar. Die of 851–654.
 2.R29 Snake in l? claw; conch-shell to l., pointing r.
 1. 22.12 5 *Agrigento (no inv. no.), *SNG* 206.
 2. 18.70 Torino (1350). Worn.
- 655** 2.O19 Ethnic illegible; eagle with small, distorted head thrown back, standing l. on big fish turned l.
 2.R30 Similar to R 25; snake in r. claw; conch-shell to r., pointing l.
 1. 21.73 11 *Palermo, Gàbrici 26 (21.71).
 2. 20.82 Private collection, Calciati I, 43/1.
- 656** 2.O20 Similar. Die of 656–657 and series 4. 747–748.
 2.R31 Snake in l. claw; conch-shell to l., pointing r.
 1. 14.90 8 Palermo, Gàbrici 25 (14.82).
 2. 13.12 Agrigento(433), *SNG* 209.
 3. 13.07 CNG 39, 1996, 262 (c). *Obv.* Long deep cut on l. side.
 4. 11.65 *Rauch 42, 1989, 2876; do. 41, 1988, 26; G. Hirsch 159, 1988, 78.
 5. 11.62 New York(1944.100.8228, Newell), *SNG ANS* 1033.
 6. 10.93 10 Berlin (Löbbecke).
 7. – Formerly Moretti.

- 657** 2.O20 Die of 656–657 and series 4. 747–748.
 2.R32 Small crab with long, thick legs; snake in r. claw; conch-shell to l. Die of 657–658
1. 17.06 11 Berlin (Löbbecke 1906).
 2. 16.54 SBV 2, 1977, 35.
 3. 15.95 Private collection, Calciati I, 47/1.
 4. 14.43 10 Budapest, *SNG* I.3, 40.
 5. 12.13 5 *Pennisi.
- 658** 2.O21 Eagle with head lowered, standing r. on hare turned r; snake in r. claw and series 4. 732, series 5. 793–796.
 2.R32 Die of 657–658.
1. 17.40 *Private collection, Calciati, *Koinon*, 46.
 2. 16.63 Brussels in trade (c. 1975).
 3. 15.66 Palermo.
- 659** 2.O22 Similar to last.
 2.R33 Square crab; straight legs; snake in l. claw; conch-shell to r., upwards. Die of 659–660.
1. 19.67 11 Padua.
 2. 18.31 6 Pennisi.
 3. 17.94 8 *London, *BMC* 88, Salinas 242, pl. 10.4.
 4. 17.83 9 Munich, *SNG* 105.
- 660** 2.O23 Ethnic illegible; screaming eagle r. on hare, turned l.; in r. field cicada; linear border. Die of 660–661 and series 3. 700, series 5. 800.
 2.R33 Die of 659–660.
1. 17.17 *Auctiones 11, 1980, 30; Westermark, *NAC/QT* 1984, pl. 2.9.
 2. 16.20 Agrigento (428), *SNG* 212.
- 661** 2.O23 Die of 660–661.
 2.R34 Similar broader crab; snake in l. claw; conch-shell to l., pointing upwards. Die of 661–662 and series 3. 700, series 5. 800.
1. 17.65 6 *New York (1957.172.526, Miller), *SNG ANS* 1030; Calciati I, 33.
 2. 16.51 1 Winterthur, Bloesch 586.

- 662** 2.O24 Ethnic illegible; clutching eagle standing l. on small hare with long, thin legs, turned l. Die of series 4. 754, series 5. 799.
2.R34 Die of 661–662.
1. 15.05 6 Florence.
2. 14.97 Glasgow, *Hunter* 47.
3. – *Utrecht (formerly Amsterdam Akademie); Westermark, *Le origini*, pl. II.13.
- 663** 2.O25 Ethnic illegible; similar clutching eagle standing l. on hare turned l. Die of series 4. 773 (?).
2.R35 Large crab with square lower part and long, angular legs; snake in l. claw; conch-shell to l. Die of 663–664.
1. 14.51 *Cambridge, Leake collection.
- 664** 2.O26 Ethnic illegible; screaming eagle standing r. on fish.
2.R35 Die of 663–664.
1. 15.59 2 Palermo, Gábrici 23 (15.55).
2. 14.25 2 Catanzaro.
3. 13.70 12 *Munich, *SNG* 114; Calciati I, 42. Calciati describes the *rev.* symbols as ‘the anterior part of a crab with horizontal claws’. It is however the normal type, but the horizontal position of the shell makes it look like a claw.
4. 13.16 Agrigento (423), *SNG* 205.
Uncertain *obv.*, same *rev.*
5. 15.53 Selinunte excavation, Mertens p. 406, SL 605, fig. 429 on p. 408.
- 665** 2.O27 Traces of letters to l.; similar; eagle’s head upwards. Dotted border. Die flaw close to eagle’s neck.
2.R36 Broad crab; no snake; above crab small, uncertain item; long claws; conch shell to l., pointing upwards.
1. 18.98 Elsen 48, 1997, 68; Müller 52, 1986, 18. *Obv.* Eagle’s neck distorted.
2. 17.90 *Miksche collection, Huddinge; Lanz 86, 1998, 36.
- 666** 2.O28 Ethnic illegible; similar eagle but smaller; fish fat and small. No border.
2.R37 Small. round crab; snake in l. claw; conch-shell to l.
1. 16.00 *Utrecht (*rev.* is ill.).
2. 15.54 Private collection, Calciati I, 40/5.
3. – *G. Hirsch 166, 1990, 59; Rauch 43, 1989, 99 (*obv.* is ill.).

Imitations

- AE **B1** *Obv.* No legend visible; long-legged eagle l. bent over fat fish, turned l.
Rev. Crab with thin claws; between them long snake; lower field unclear.
1. 23.70 10 *Stockholm (ex. Drottningholm), *SNG* 382.
- AE **B2** *Obv.* Uncertain legend beginning r.; thin eagle r. on fish; head straight upwards; dotted border.
Rev. Square crab with short claws; large conch-shell r., pointing upwards.
1. 15.49 01 *Cambridge, general collection (375–1936, A. W. Young)
- AE **B3** *Obv.* AKPAGAN/TIN. retrograde in extremely large letters; screaming eagle on fish l.
Rev. Crab with snake in r.claw.
1. 22.08 11 Palermo; Salinas 222, pl. 9.15; Vassallo, pl. 11.6.
2. 21.20 Caltanissetta, from Sabucina excavations, Mannino, pl. 22.2
3. 21.08 7 *Private collection, England (ex. NAC and Pennisi).
4. – Kunst und Münzen list 50, 1982, 41.

Series 3. Leaf

Principal types:

Obv. AKPA or AKRA or longer version; clutching eagle with head lowered and open wings standing r. or l. on hare. Dotted border.

Rev. Crab in circular incuse; above vine leaf; below shrimp; six pellets.

- 667** 3.O1 Long ethnic; slender eagle r. with long legs. Die of 667–668.
3.R1 Broad, square crab with thin legs; vine leaf downwards; shrimp l. Die of 667–670.
1. 27.05 5 Miksche collection, Huddinge; Lanz 82, 1997, 53. Overstruck on Himera. *Obv.* Traces of underlying Gorgoneion on eagle's wing and body; row of dots belonging to undertype on l. side. *Rev.* Pellet from underlying type at the edge above.
2. 25.29 5 *Leu 6, 1973, 63 (ex. Virzi 592). Overstruck on Himera. *Obv.* Pellet from underlying type on eagle's body.
3. 23.54 Rauch 32, 1984, 62.

- | | | | | |
|------------|-------------------|--|----|---|
| | 4. | 21.61 | 7 | Berlin (Imhoof-Blumer 1900). Overstruck on Himera.
<i>Rev.</i> Traces of pellet on crab's l. claw. |
| | 5. | 16.80 | 12 | Palermo; Gàbrici 4, pl. I.30 (16.70). |
| | 6. | 13.94 | | Dresden (540). |
| | 7. | – | | Parma, Salinas 255, pl. 10.14. Overstruck on Himera.
<i>Obv.</i> Gorgoneion's face clearly visible on eagle's body.
<i>Rev.</i> Three pellets visible around crab. |
| 668 | 3.O1 ¹ | Same die reengraved; pattern on wings altered; distance between eagle's head and further wing wider. Die of 667–668. | | |
| | 3.R2 | Crab with curved shell; vine leaf downwards; shrimp l.; pellets above. | | |
| | 1. | 23.71 | 12 | Berlin (Bernhard-Imhoof 1928). Large flan. <i>Rev.</i> Broad, flat edges. |
| | 2. | 22.06 | | Frankfurter Münzhandlung 132, 1989, 14. |
| | 3. | 21.45 | | Coburg. <i>Obv.</i> Die flaw on eagle's back. |
| | 4. | 20.42 | 5 | Florence. |
| | 5. | 19.05 | 7 | *London, <i>BMC</i> 100. Large flan. <i>Rev.</i> Flat edges. |
| 669 | 3.O2 | Eagle has thick body with broad tail; large wings. Die of 669–670. | | |
| | 3.R3 | Similar to last. | | |
| | 1. | 31.26 | | Riechmann 30, 1924, 211. Overstruck on Himera. <i>Obv.</i> Two pellets visible on r. side. <i>Rev.</i> Deep cracks at edge. |
| | 2. | 28.98 | 12 | Berlin (Rauch). <i>Rev.</i> Flaw above at the edge. |
| | 3. | 28.01 | 10 | *Private collection, Calciati I, 12 OS/4 (ex. Virzi 595); Overstruck on Himera. <i>Obv.</i> Gorgoneion's nose visible on eagle's body. <i>Rev.</i> Three large pellets visible on crab's shell and on shrimp; Westermarck, <i>Le origini</i> , pl. 2.2. Pl. 71. |
| | 4. | 27.22 | 8 | *Palermo; Gàbrici 1, pl. I.27 (<i>obv.</i>). Overstruck on Himera. <i>Obv.</i> Traces of Gorgoneion on eagle's body. <i>Rev.</i> Pellet on crab's shell below. Same flaw at the edge as on no. 1. |
| | 5. | 26.12 | | Private collection, Calciati I, 12 OS. Overstruck on Himera. |
| | 6. | 21.21 | | Triton III, 1999, 158. |
| | 7. | 20.18 | 5 | Palermo; Gàbrici 2, pl. I.28 (<i>rev.</i>). |
| | 8. | 19.06 | 5 | Palermo, Gàbrici 3 (18.95). |
| | | Possibly this die-pair: | | |
| | 9. | – | | Formerly private collection, Sicily, Salinas 256, pl. 10.25. Overstruck on Himera. <i>Rev.</i> Three pellets of undertype on l. side. |
| | | <i>Note.</i> No 2 is unusually heavy but there are no clear traces of overstriking. | | |
| | | <i>Rev.</i> Square flaw at vine leaf, r. side: 1, 2, 4, 5. | | |

- 670** 3.O2 Die of 669–670.
 3.R1 Die of 667–670.
1. 28.58 3 Munich, *SNG* 92. Overstruck on Himera. *Obv.* Traces of Gorgoneion's eye on eagle's wing. *Rev.* Two pellets visible on shrimp.
 2. 27.17 1 Pennisi; Salinas 245, pl. 10.6.
 3. 22.94 Glasgow, *Hunter* 45, pl. 11.17. Overstruck on Himera. *Obv.* Hair, r. eye and nose of Gorgoneion visible on eagle's body (upside down). *Rev.* Pellet visible on crab's shell to l.
 4. 22.87 Private collection, Calciati I, 11.
 5. 19.80 *Cambridge, General collection (1939).
 6. 19.65 Klagenfurt, *SNG* 406. Overstruck? Poorly preserved.
 7. 17.95 Paris (FG 108).
 8. – Cammarata, Calciati I, 12 OS/1. Overstruck on Himera. *Obv.* Eyes and nose of Gorgoneion visible on eagle's wings and body.
- 671** 3.O3 Similar; eagle has thick body and long tail. Dotted border. Die of 671–672.
 3.R4 Square crab with flat top; tiny eyes in small recesses; vine leaf downwards; shrimp l. Die of 671–673.
1. 23.29 7 *Formerly Virzi (594).
 2. 22.69 5 Private collection, Messina; Consolo Langher, p. 207.2; pl. 1.2. The legend quoted in the catalogue p. 207.2 with ending NΩN does not occur on any bronze coin.
 3. 22.09 Elsen 50, 1997, 163; Lanz 78, 1996, 110.
 4. 19.79 Glasgow, *Hunter* 44.
 5. – G. Hirsch 166, 1990, 57.
- 672** 3.O3 Die of 671–672.
 3.R5 Similar to R1.
1. 21.43 Private collection, Calciati I, 11/1. This *rev.* but uncertain and much worn *obv.*
 2. 24.43 Agrigento, *SNG* 105.
 3. 19.03 5 Copenhagen, *SNG* 66.
 4. – Bonn AKM.
- 673** 3.O4 Similar but eagle in more horizontal position; end of r.wing visible above.
 3.R4 Die of 671, 673.
1. 22.33 1 Ratto in stock.
 2. 21.30 Agrigento (437), *SNG* 99.

- | | | | | |
|------------|------|--|---|---|
| | 3. | 20.91 | | *NAC-H, 1998, 1139; Sternberg 31, 1996, 418. Flan broken off at edge. |
| | 4. | 20.86 | 7 | Munich, <i>SNG</i> 93. |
| | 5. | 20.52 | 3 | Munich, <i>SNG</i> 94. |
| | 6. | 19.80 | | Winterthur, Bloesch 583. |
| 674 | 3.O5 | Large eagle in upright position; broad, short wings; large hare. Die of 674–675. Die of series 4. 710. | | |
| | 3.R6 | Broad crab; square section between small eyes in shallow recesses; wine leaf downwards; shrimp r. | | |
| | 1. | 28.13 | | Astarte 11, 2002, 167. <i>Rev.</i> Double struck. The crab appears twice, one over the other. |
| | 2. | 23.63 | | *Rauch 42, 1989, 2877; do. 41, 1988, 215. <i>Rev.</i> ill. |
| | 3. | 23.20 | | Oslo. Large flan. |
| | 4. | 22.14 | | Morcom, <i>SNG</i> 516; Vecchi/Numismatic Services 8.10.1986, 57. Large flan. <i>Rev.</i> Worn and distorted by double striking; r. claw visible across the legs. |
| | 5. | 20.66 | 2 | *Palermo. <i>Rev.</i> Almost effaced, but probably this die. <i>Obv.</i> ill. |
| | 6. | 17.42 | 3 | Florence. Large flan. <i>Rev.</i> Double struck on l. side. This <i>rev.</i> die but uncertain <i>obv.</i> |
| | 7. | 12.34 | 2 | Munich, <i>SNG</i> 101. Double struck on both sides. <i>Obv.</i> Eagle appears twice, one above the other. <i>Rev.</i> Crab struck twice, reversed. |
| 675 | 3.O5 | Die of 674–675. Die of series 4. 710. | | |
| | 3.R7 | Crab with broad upper part and straight legs; eyes wide apart; uncertain leaf; shrimp l. Die of 675–676. | | |
| | 1. | 18.26 | | Oldenburg 1, 1990, 13. <i>Rev.</i> No leaf visible. |
| | 2. | 18.13 | | *Lanz 78, 1996, 111. |
| 676 | 3.O6 | Eagle with head slightly more lifted; small hare r.; end of r. wing visible above. | | |
| | 3.R7 | Die of 675–676. | | |
| | 1. | 19.80 | 6 | *Vienna. |
| 677 | 3.O7 | Similar to last; r. wing visible above. | | |
| | 3.R8 | Similar; shrimp l. | | |
| | 1. | 18.20 | 5 | *Copenhagen, <i>SNG</i> 67. |

- 678** 3.O8 Eagle with small head standing in an almost horizontal position; very broad wings with feathers rendered in a fine pattern; end of further wing visible behind front wing; long hare r. has straight body and long legs. Dotted border.
- 3.R9 Smaller crab; vine leaf downwards; shrimp r.
1. 19.63 Private collection, Calciati I, 11/2.
 2. 15.40 Caltanisetta, find from Sabucina, Mannini 5, pl. 22.5.
 3. 15.04 *London, *SNG Lloyd* 837; Egger 12.11.1913, 238.
- 679** 3.O9 Eagle in a more upright position; longer neck. Dotted border.
- 3.R10 Similar crab; short claws: vine leaf downwards; shrimp r. Die of 679–680.
1. – *Formerly Moretti.
- 680** 3.O10 Similar eagle with head more lowered.
- 3.R10 Die of 679–680.
1. 19.29 *Berlin (Löbbecke).
 2. 18.70 2 Milan, Arslan 48. Said to be restruck, but no such traces are visible on the photograph in the catalogue.
 3. 17.60 Baldwin in stock (1952). Poorly preserved.
- Rev.* Large flaw at edge, l. side below: 1.
- 681** 3.O11 Smaller eagle with long neck, broad tail and thin wings on large hare r. Die of 681–682.
- 3.R11 Broad crab with curved legs; vine leaf downwards; thick shrimp l.
1. 17.11 7 *Pennisi; Rizzo, pl. 3.15.
- 682** 3.O11¹ Same die with ethnic recut. Die of 681–682 and series 4. 719.
- 3.R12 Similar crab with legs wide apart; short claws; vine leaf downwards: thick shrimp l.
1. 21.84 *Elsen 49, 1997, 169; Lanz 78, 1996, 109.
- 683** 3.O12 No legend visible: eagle with short body, long tail and head sharply bent towards hare with long legs and ears. Dotted border.
- 3.R13 Round crab with radiating legs; vine leaf close to crab's body; shrimp l.
1. 18.92 *Class. Num. Review* vol. 17.3, 1992, 24; CNG 24, 1992, 179; Elsen 11, 1988, 17.
 2. 18.59 12 Munich, *SNG* 96.
 3. 17.17 *NAC/Spink Taisei 52, 1994, 1799; NAC-B, 25.2.1992, 1106.

- | | | | | |
|------------|-------|--|-------|--|
| | 4. | 15.75 | | Palermo, Gàbrici 5 (15.66). |
| | 5. | 15.65 | | Oxford (10.1.1934, D. B. Harden gift). |
| | 6. | 15.62 | 5 | Berlin (Rauch). |
| 684 | 3.O13 | Legend retrograde; deagle with short tail and extremely long curved neck bent over large, thin hare with long fore legs and ears. Dotted border. | | |
| | 3.R14 | Square crab with straight legs; vine leaf downwards; shrimp l. | | |
| | | 1. | 16.81 | Peus 323, 1988, 707. |
| | | 2. | 15.96 | Oldenburg list 25, 1987; Kölner Münzkabinett 30, 1981, 6. |
| | | 3. | 12.45 | Knopek 30.9.1978, 22. |
| | | 4. | 12.20 | *Private collection, Calciati, <i>Koinon</i> , 44. |
| | | 5. | 12.12 | 2 Munich, <i>SNG</i> 102. |
| | | 6. | – | Naples, Fiorelli 4007. Piece missing. |
| | | 7. | – | Syracuse, Milocca hoard, Orsi fig. 2. |
| 685 | 3.O14 | Similar eagle with long tail and shorter neck bent over thin, extremely curved hare r. Dotted border. | | |
| | 3.R15 | Trilobed crab with broad section between eyes; leaf downwards; shrimp r. | | |
| | | 1. | 18.34 | *Private collection, Stockholm (deposited in the Numismatic Institute, Stockholm University); Kölner Münzkabinett 30, 1981, 5. |
| | | 2. | 16.58 | Vecchi 6, 1997, 173. Outlines improved in catalogue. |
| | | 3. | 15.90 | Private collection, Calciati I, 14/2. |
| | | 4. | 14.85 | Baldwin in stock (1970s). |
| 686 | 3.O15 | Slender eagle; head and neck sharply bent; end of further wing visible behind front wing. Die of series 3. 686, series 4. 733–734. | | |
| | 3.R16 | Similar; vine leaf downwards; shrimp l. | | |
| | | 1. | 14.53 | 2 Budapest, <i>SNG</i> I: 3, 34; Westermarck, <i>NAC/QT</i> 1984, pl. 3.17. |
| | | 2. | 14.38 | *Sternberg 20, 1988, 187. |
| | | 3. | 10.35 | Brussels, in trade c. 1978. |
| | | 4. | – | Princeton University Art Museum, Dan Fellows Platt collection. |
- Obv.* Large flaw between eagle's head and hare's fore-legs: all.

- 687** 3.O16 Eagle with long neck and large drooping head. Die of series 4.737.
 3.R17 Crab with curved sides; thin legs; uncertain leaf downwards; diagonal shrimp r.; two pellets below, four above. Die of 687–688.
 1. 15.50 6 *Palermo, Gàbrici 7 (15.42).
 2. 14.83 Agrigento (2269), *SNG* 108.
 3. 14.30 6 London (6.6.34, Cameron 1947).
 4. 13.14 3 Munich, *SNG* 99.
- 688** 3.O17 Legend illegible; eagle with curved body standing l. on long, thin hare l.; broad wings. Probably same die as 689.
 3.R17 Die of 687–688.
 1. 14.10 Vatican (46). *Obv.* Poorly preserved.
- 689** 3.O17? Probably same die as 688.
 3.R18 Similar; uncertain leaf; shrimp l.; pellets above.
 1. 25.32 Private collection, Calciati I, 23. Deep cut at edge. Poorly preserved.
 2. 19.60 *Private collection, Calciati, *Koinon*, 47.
- 690** 3.O18 Similar eagle but smaller head, very broad wings with rough feathering. Die of 690–691.
 3.R19 Similar crab but broader; uncertain leaf downwards with two pellets on either side; shrimp l.
 1. 17.35 5 *Syracuse (41042).
- 691** 3.O18 Die of 690–691.
 3.R20 Similar; fig leaf downwards; shrimp r.
 1. 15.94 *Pennisi.
 2. 12.38 New York (1944.100.8226, Newell), *SNG ANS* 1029.
- 692** 3.O19 Eagle of fine style standing r.; large wings with finely rendered feathering.
 3.R21 Square crab; curved section between large, round eyes; long, thin legs; fig leaf upwards; shrimp r. Die of 692–694.
 1. 16.99 *Auctiones 27, 1996, 63.
- 693** 3.O20 Similar; smaller head and broader tail.
 3.R21 Die of 692–694. Flaw between the joints of r. claw.
 1. 19.67 Morcom *SNG* 618.
 2. 15.22 *Private collection, Calciati I, 11/3.

- 694** 3.O21 Eagle with thick body; large head with long, sharply bent beak. Die of 694–695.
 3.R21 Die of 692–694. Same flaw.
 1. 15.27 11 *Syracuse (8406). *Rev.* Cut above.
 2. – Private collection, Calciati, *NAC/QT*, p. 74, pl. 1.5.
 Overstruck on Himera. *Rev.* Pellet of undertype visible on crab's legs, r. side.
- 695** 3.O21 Die of 694–695.
 3.R22 Crab has long, drooping legs; square section between eyes; figue leaf upwards very close to crab's shell; shrimp l.
 1. 14.03 9 *Copenhagen, *SNG* 68.
 2. 13.75 11 Syracuse (8405).
- 696** 3.O22 Eagle r. with head lowered on hare turned r. Die of series 3. 696, series 4. 761–763.
 3.R23 Crab with broad upper part, curved sides and flat bottom; eyes in deep curved recesses; fig leaf downwards with pellets on either side; shrimp l. Die of 696–698.
 1. 17.73 SBV 2, 1977, 39; Calciati I, 16.
 2. 13.93 Oxford (Evans bequest 1941).
 3. 13.50 12 Vienna.
 4. 13.11 10 Palermo, Gàbrici 6 (13.03).
 5. 10.49 2 *Winterthur, Bloesch 587.
 6. 10.39 Stockholm (101958); Elsen list 131, 1991, 6: do. list 127, 1990, 18. Overstruck on Himera. *Rev.* Two large pellets visible above crab. Irregular flan.
- 697** 3.O23 Screaming eagle with lifted head r. on hare (?); shrimp l. Die of series 3. 697, series 4. 769–770.
 3.R23 Die of 697–698.
 1. 16.78 *Lanz 86, 1998, 35. Overstruck.
- 698** 3.O24 Screaming eagle r. on fish; eagle's body more frontal; head straight up. Dotted flaw on eagle's wing.
 3.R23 Die of 697–698.
 1. 13.22 London, *BMC* 101 (marked "cast?" on the museum ticket).
 2. 13.12 *Formerly Virzi (596).

- 699** 3.O25 Screaming eagle r. on fish. Die of series 3. 699, series 5. 791.
 3.R24 Crab's shell strongly curved; fig leaf downwards; shrimp l.
- | | | | |
|----|-------|--|---|
| 1. | 13.61 | | *Glasgow, <i>Hunter</i> 37; Westermark, <i>NAC/QT</i> 1984, pl. 3.19. |
| 2. | 13.50 | | Private collection, Calciati I, 37. |
| 3. | – | | Naples, Fiorelli 4003. |
- 700** 2.O23 Screaming eagle r. on hare. Die of series 2. 660–661, series 3. 700, series 5. 800.
 3.R25 Square crab with straight legs; fig leaf pointing downwards; shrimp r.
- | | | | |
|----|-------|---|--|
| 1. | 19.17 | 7 | *Munich, <i>SNG</i> 109; Westermark, <i>NAC/QT</i> 1984, pl. 2.10. |
| 2. | 15.43 | | Milan, Arslan 55; Calciati I, 31. |

Series 4. Shrimp

Obv. dies 38, *rev.* dies 50.

Principal types:

Obv. AKPA; clutching eagle with spread wings and lowered head, turned r. or l., holding hare in his claws. Dotted border. Often large flan.

Rev. Crab in circular incuse; below shrimp; around six pellets.

- 701** 4.O1 No ethnic visible; eagle flying r. holding snake in his claws; head outstretched; broad tail; long wings; end of further wing visible above.
 4.R1 Large and broad crab with thick, short claws; thin legs; thick shrimp l.
- | | | | |
|----|-------|----|---|
| 1. | 22.03 | | Glasgow, <i>Hunter</i> 49. |
| 2. | 21.53 | | MMDDeutschland 24.5.2007, 61. |
| 3. | 20.87 | 11 | Florence. Large flan. |
| 4. | 20.85 | 9 | Palermo, Gàbrici 15. |
| 5. | 20.82 | | Calciati, <i>Koinon</i> , 48. Corroded. |
| 6. | 20.60 | 6 | *MMGmbH 17(4.10) 2005, 159; Kricheldorf 32, 1977, 362; Leu 6, 1974, 62 (ex. Virzi 597); <i>Ars Classica</i> 17, 1934, 129; Calciati I, 29; Westermark, <i>Le origini</i> , pl. 2.4. |
| 7. | 18.97 | | Astarte MB 5, 1999, 225. |
| 8. | – | 11 | Bonn, AKM. |
| 9. | – | | Cammarata, Calciati I, 29/1. |

- 702** 4.O2 Eagle r. holding long, thin hare r. in his claws; nearest wing has a fine pattern of long and shorter feathers; end of further wing visible behind nearest wing. Dotted border.
- 4.R2 Round and broad crab with short claws and long, straight legs; shrimp l.; below shallop shell.
1. 23.65 Private collection, Calciati I, 10.
 2. 23.48 6 NAC 21, 2001, 43; do. 13, 1998, 264; formerly Moretti; Antikenmuseum Basel 1988, 264.
 3. 22.16 London, *BMC* 96.
 4. 21.42 Agrigento (2815), *SNG* 98, Sant. Div. Ctonie.
 5. 19.49 Agrigento (2262), *SNG* 100.
 6. 18.65 7 New York (1944.100.8225, Newell), *SNG ANS* 1025.
 7. 17.65 *G. Hirsch 188, 1995, 54.
 8. 14.68 Triton II, 1998, 149.
- 703** 4.O3 Similar eagle with longer neck; hare's forelegs sharply bent. Dotted border. Die of series 4.703, series 5.779–781.
- 4.R3 Similar crab but shorter claws; below shrimp l. and shallop shell.
1. 21.67 Astarte 2, 1998, 5.
 2. 20.94 *NAC-H, 1998, 1138.
 3. 19.53 Agrigento (2117), *SNG* 110.
 4. 19.50 11 Paris (FG 107).
 5. – Naples, Santangelo 7375.
- 704** 4.O4 Similar; fat hare with forelegs bent towards his body. Dotted border. Die of 704–705.
- 4.R4 As last.
1. 22.70 *Mini 13.
 2. 18.41 2 Agrigento (no inv. no.), *SNG* 109. Worn.
 3. – Glendining 14.12.1988, 29.
- 705** 4.O4 Die of 704–705.
- 4.R5 Broad, triangular crab; shrimp l?; no shell visible.
1. 16.51 Private collection, Calciati I, 15/1.
- 706** 4.O5 AKPA to l.; similar to last. No border. Die of 706–709.
- 4.R6 Broad crab with flat top; legs tight together on l. side; thick shrimp l.
1. 19.28 1 *Palermo; Gábrici 11 (19.20), pl. I.31 (*rev.*).

- 707** 4.O5 Die of 706–709.
 4.R7 Trilobed crab with irregular legs, tight together on l. side; thick shrimp l.
 1. 24.04 2 *Palermo, Gàbrici 8; *cf.* Salinas 250, pl. 10.9 (possibly this ex.). Salinas quotes only Paris for no. 250, but the illustration is more like the coin in Palermo.
 2. 18.27 2 Paris (FG 109).
- 708** 4.O5 Die of 706–709.
 4.R8 Broad, square crab with short claws; thin legs going upwards.
 1. 16.00 *Palermo, Gàbrici 14 (15.92). *Rev.* Shrimp almost effaced.
- 709** 4.O5 Die of 706–709.
 4.R9 Crab with legs going downwards; thick shrimp r.
 1. 20.30 Vatican (cat.40).
 2. 15.69 *Private collection, South Germany.
 3. – de Nicola list June 1978, 58.
 4. – G. Hirsch 177, 1993, 86.
Obv. Flaw at eagle's back extending into l. field: 2.
- 710** 3.O5 Die of series 3, 674–675, series 4, 710.
 4.R10 Rounded triangular crab; shrimp l.
 1. 21.90 *Sambon-Canessa 27.6.1927, 671.
 2. 21.79 Elsen 32, 1993, 19.
 3. 16.31 Agrigento (435), *SNG* 104. Long cut on r. side.
 4. – Tel Aviv, Kadman Museum.
- 711** 4.O6 Broad and heavy eagle r. with thick, short neck; wing has slightly curved lines; large hare with bent forelegs resting on rocks. Dotted border.
 4.R11 Broad crab with curved sides and bottom and flat top; thick shrimp l.
 1. 20.16 CNG 39, 1996, 262(a).
 2. 19.87 *London, *SNG Lloyd* 839; Weber 1204; Bompois 1882, 378.
 3. 19.13 6 Munich, *SNG* 95.
 4. 16.98 1 Palermo, Gàbrici 13 (16.90).
 5. 15.89 Rauch 32, 1984, 59 (ex. Virzi 590).

- 712** 4.O7 Similar eagle; long, broad tail; wing beautifully marked. Dotted border.
 4.R12 Crab's legs bent downwards; long shrimp l.
 1. 22.88 *Private collection, from Agrigento 1976–1977 hoard.
Rev. Test cuts above.
 2. 21.14 7 Berlin (Fox 1873).
 3. 20.98 11 Palermo, Gàbrici 9.
 4. 20.26 1 Stockholm (Skjöldebrand), *SNG* 383.
 5. 19.13 5 Brussels.
 6. 17.06 7 Munich, *SNG* 97.
 7. 18.37 Formerly Virzi (593). *Obv.* Test cuts below.
- 713** 4.O8 Illegible; eagle has thick neck and sharply curved wing; small hare.
 4.R13 Shrimp r.
 1. 21.28 9 *Copenhagen, *SNG* 65.
- 714** 4.O9 Large eagle in more vertical position; long, thick hare. Dotted border.
 Die of 714–715.
 4.R14 Oval crab with radiating legs; thick shrimp (l.?).
 1. 22.03 12 *Syracuse (31730).
- 715** 4.O9 Die of 714–715.
 4.R15 Triangular crab with long legs; short claws; shrimp l., below crab to l.,
 uncertain symbol; to r. oval “ring” (mussel-shell?)³. Die of 715–716.
 1. 17.50 5 Catanzaro. *Obv.* Two thin cuts below.
 2. 16.52 *London, *BMC* 97.
- 716** 4.O10 Illegible; similar eagle but turned l; very long hare l.
 4.R15 Die of 715–716.
 1. 18.35 *Private collection, Calciati I, 26A.
- 717** 4.O11 Eagle r. has thick body and neck; large hare with round head and long
 ear. Die of 717–719.
 4.R16 Square crab with long legs tight together; shrimp not visible.
 1. 19.89 3 *Morcom, *SNG* 517 (formerly R. Falkiner collection).
- 718** 4.O11 Die of 717–719.
 4.R17 Similar to last; claws more upright.
 1. 18.30 *Private collection, Calciati I, 14/1.

³ Calciati I, 52/1 calls it mussel-shell.

- 719** 3.O11¹ Die of series 3, 682, series 4, 719.
 4.R18 Square crab with long upright claws; straight legs.
 1. 20.45 *Sternberg 18, 1986, 29.
 2. 17.84 G. Hirsch 155, 1987, 18. *Obv.* Poorly preserved; identification of *obv.* uncertain.
- 720** 4.O12 Similar thin and slender eagle on small hare r. Die of 720–722.
 4.R19 Triangular crab with broad upper part, long claws and curved legs; thick shrimp r.
 1. 21.90 *Formerly Moretti and Virzi (588); *Ars Classica* 12, 1926, 678.
 2. 20.17 New York (1957.172.525, Miller), *SNG ANS* 1026.
 3. 20.15 5 Palermo.
 4. 19.10 Caltanisetta, from Sabucina excavations, Mannino 4, pl. 22.
 5. 18.50 Caltanisetta, from Sabucina excavations, Mannino 8, pl. 22.
 6. 18.35 Private collection, Calciati I, 15.
 7. 15.28 Hess-Leu 31, 1966, 95; Westermark, *Le origini*, pl. 2.3.
- 721** 4.O12 Die of 720–722.
 4.R20 Broad crab with curved sides and short claws; long, slightly bent legs upwards; thick, short shrimp l. Die of 721, 725.
 1. 18.10 Private collection, Calciati, *Koinon*, 45.
 2. 17.62 *London, *BMC* 99; Salinas 251, pl. 10.10 (*obv.*).
- 722** 4.O12 Die of 720–722. Worn die.
 4.R21 Crab with curved sides and short claws; legs wide apart; shrimp l.
 1. 15.79 9 *New York (1940.77.10, Husker), *SNG ANS* 1027.
- 723** 4.O13 Traces of legend on l. side; eagle r. has fatter body and shorter neck.
 4.R21?. Possibly same die or very similar.
 1. 19.26 11 *Palermo.
 2. 15.98 7 Palermo.
- 724** 4.O13 Die of 723–724.
 4.R22 Similar; short l. claw tight to crab's body.
 1. 19.57 7 *Palermo, Gàbrici 10 (19.50).

- 725** 4.O14 Similar; further wing more visible. Die of 725–726.
 4.R20 Die of 721, 725.
 1. 20.54 Glasgow, *Hunter* 42.
 2. 17.46 *Auctiones 10, 1979, 58.
 3. 16.14 Elsen list 226, 2003, 16. Overstruck?
- 726** 4.O14 Die of 725–726.
 4.R23 Similar to R20; legs slightly curved; shrimp r. Die of 726–727.
 1. 20.35 7 *Paris (FG 110).
 2. 20.07 7 Leipzig, *SNG* 361.
- 727** 4.O15 Eagle's prey lying on rock.
 4.R23 Die of 726–727.
 1. 17.03 3 *Urs.
- 728** 4.O16 Eagle r.has broad, finely curved wing; large hare. Dotted border.
 4.R24 Crab with long claws and long, curved legs; shrimp l. Die of 728–729.
 1. 25.28 *NAC-K, 2000, 1107.
- 729** 4.O17 Eagle l. on hare, both of an unusual, primitive style; eagle has thick body and broad tail. Die of 729–730, die of series 5. 789.
 4.R24 Die of 728–729.
 1. 13.81 *Class. Num. Auctions 16, 1991, 261. Large flan.
- 730** 4.O17 Die of 729–730, die of series 5. 789.
 4.R25 Broad crab with thin claws; shrimp r. Die of 730–731.
 1. 17.74 9 Modena. Corroded.
 2. 14.42 10 Paris (FG 111).Worn.
 3. 12.19 1 *New York (1941.131.395, E.P. Robinson), *SNG ANS* 1028; Calciati I, 24. Worn.
- 731** 4.O18 No legend visible; screaming eagle with lifted head r. on fish. Die of series 5. 788.
 4.R25 Die of 730–731.
 1. 21.29 *London (1949, 4.11.153, Mavrogordato); Weber 1201
- 732** 2.O21 Die of series 2, 658, series 4, 732, series 5. 793–796.
 4.R26 Round crab with short claws; shrimp l.
 1. 17.37 *MMAG list 396, 1978, 3.
 2. 17.12 2 Pennisi.
 3. 16.90 10 Munich, *SNG* 91.
 4. 16.22 9 Stockholm, *SNG* 384.

- 733** 3.O15 Die of series 3, 686, series 4, 733–734. Large flaw between eagle's neck and hare.
- 4.R27 Square crab with curved upper part; straight line between eyes; shrimp l. Die of 733–735.
1. 15.67 Catanzaro.
 2. 15.32 Cambridge, *McClellan* 2063.
 3. 15.09 *Lanz 26, 1983, 62.
 4. 13.23 Pegasi Coins list 118 (27.3) 2000, 51. *Obv.* Planchet flaw on eagle's body.
 5. 12.79 Erlangen-Nürnberg Z 395.
 6. 12.00 Sternberg 31, 1996, 417.
- 734** 3.O15 Die of series 3, 686, series 4, 733–734. Same flaw.
- 4.R28 Similar but claws closer to crab's body. Die of 734, 736.
1. 15.97 Waggoner, *Rosen*, 37; Ariadne Galleries Dec. 1981, 20; Spink *NCirc.* July–August 1975, 6438. *Rev.* Upper part of crab double struck.
 2. 15.92 Locarno (Rossi collection 51), Vismara, *Koinon* 6, 147.
 3. 15.63 *Formerly Virzi (589).
 4. 15.52 6 Pennisi; Salinas 152, pl. 10.11.
 5. 15.01 6 Franke collection, Munich.
 6. 13.93 7 Agrigento (2119), *SNG* 103.
 7. – Naples, Fiorelli 4005.
- Same *obv.*, uncertain *rev.*:
8. 15.95 Private collection, Calciati I, 15mv1.
- 735** 4.O19 Eagle with thick body and broad tail; long, sharply bent neck; pointed wings; further wing visible above eagle's body; long hare with curved back on pile of stones. Dotted border. Die of 735–736.
- 4.R27 Die of 733, 735.
1. 14.60 7 *Vienna.
 2. 14.20 Formerly private collection, USA.
 3. 13.05 Milan, Arslan 51.
- 736** 4.O19 Die of 735–736.
- 4.R28 Die of 734, 736.
1. 17.26 *Helbing 8.11.1928, 3517; Canessa (Naples) 22.5.1922, 176.
 2. 17.03 Müller 31, 1981, 18.
 3. 14.65 1 Berlin (Löbbecke 1906).
 4. 13.75 Cambridge, *SNG Lewis* 291.
 5. 12.93 9 Munich, *SNG* 100.

- 737** 3.O16 Die of series 3, 687, series 4, 737.
4.R29 Round crab; thin claws and legs:shrimp l.
1. 12.25 7 *Berlin (Rauch).
2. 11.42 3 Pennisi.
- 738** 2.O14 Die of series 2, 645, series 4, 738.
4.R30 Broad crab; shrimp l. Die of 738–739.
1. 18.68 Berlin (Imhoof-Blumer).
2. 18.14 *Torino (1348). *Rev.* Small flaw at l. claw.
3. 17.29 Agrigento (868), *SNG* 211.
4. 16.72 Glasgow, *Hunter* 36. There is no fig-leaf above as stated in the catalogue.
- 739** 4.O20 Eagle r.; head much lowered; short wings.
4.R30 Die of 738–739.
1. 13.42 *Formerly Virzi (591).
This *rev* but var. *obv.*: 16.40 Caltanissetta, from Sabucina excavations, Mannino 7, pl. 22.
- 740** 4.O21 To l., AKP retrograde; to l., A; eagle has thick body, long, thin neck; open beak and round eye; very long wing; thick, short tail; hare r. has thick body and long, thin legs.
4.R31 Square crab; flat bottom and top: short claws; long, thin shrimp l. Die flaw above crab. Die of 740–741.
1. 18.25 *Mini 10.
- 741** 4.O22 AKP retrograde; eagle with spread wings and head lifted standing r. on fish r.; end of eagle's further wing visible behind front wing.
4.R31 Die of 740–741. Same flaw.
1. 13.99 *London, *BMC* 98. The three pellets below crab almost effaced.
- 742** 4.O23 To r., AKRA retrograde; eagle l. on hare. Die of series 5. 797
4.R32 Similar crab; claws close together; shrimp l.
1. 17.57 Dresden (539).
2. 12.68 2 *Berlin (6690/1846).
3. 12.00 10 Agrigento (no inv.no.), *SNG* 159.
4. 11.46 Private collection, Calciati I, 51 ('tetras').

- 743** 4.O24 To r., AKR.; similar to last; shorter wing; flaw on eagle's beak.
 4.R33 Similar to last; claws more upright; shrimp r. Die of 743–744.
 1. 15.44 Private collection, Calciati I, 26/1.
 2. 14.45 *Private collection, Munich.
 3. 11.88 Vecchi 10, 1998, 110.
 4. – G. Hirsch 177, 1993, 84.
 5. – Naples Santangelo; Salinas 253, pl. 10.12 (*obv.*).
- 744** 4.O25 K/P; eagle r. on hare; broad wings; end of further wing visible behind
 front wing. Die of 744–745.
 4.R33 Die of 743–744.
 1. 14.37 *Paris, Delepierre.
- 745** 4.O25 Die of 744–745.
 4.R34 Similar; shrimp l. Die of 745–747.
 1. 14.68 Miksche collection, Huddinge; CNG 37, 1996, 89.
 2. 12.18 *Glasgow, *Hunter* 43.
- 746** 4.O26 Eagle l. on hare with long legs; head lowered; end of further wing
 visible behind front wing. Flaw between hare and eagle's head.
 4.R34 Die of 745–747.
 1. 12.91 10 *Morcom, *SNG* 519.
- 747** 2.O20 Die of series 2, 656–657, series 4, 747–748.
 4.R34 Die of 745–747. Much worn.
 1. 13.66 Berlin (Löbbecke). Porous surface, *obv.* uncertain
 2. 13.43 10 *Copenhagen, *SNG* 74. Booth sides weekly struck.
- 748** 2.O20 Die of series 2, 656–657, series 4, 747–748.
 4.R35 Broad crab with long claws; crayfish l. Die of 748–749.
 1. 15.17 *Milan, Arslan 63.
- 749** 4.O27 No legend visible; thin eagle l on long hare l.; head lowered; broad
 wings.
 4.R35 Die of 748–749.
 1. 22.90 *Mini 68; Calciati I, 27OS. *Rev.* Double struck.
 Overstruck on Himera.

- 750** 4.O28 No legend visible; screaming eagle r. on long, thin fish.
 4.R36 Square crab with very long craws and long, angular legs; shrimp r. Die of 750–751.
 1. 16.04 11 Syracuse (32092).
 2. 14.87 10 Syracuse (23413).
 3. 14.33 *Morcom collection, *SNG* – ; Vecchi 10.1998, 113.
 4. 13.34 Private collection, Calciati I, 36.
 5. 13.00 St. Petersburg (2031.24).
 6. 11.24 6 Duisburg (14/363), collection Köhler-Osbahr 150; Knopek 30.9.1978, 23a. Overstruck. Uncertain undertype.
- 751** 4.O29 Illegible; eagle l. on hare.
 4.R36 Die of 750–751.
 1. 17.18 Calciati I, 23/1.
 2. 14.39 10 *Copenhagen, *SNG* 69. Weakly struck. Eagle's head distorted.
- 752** 4.O30 No legend visible; screaming eagle l. on fish; strongly curved neck and beak. Die of 752–753.
 4.R37 Large crab; thick, asymmetrical claws and legs; legs upwards on r. side; shrimp l.
 1. 15.90 1 Modena.
 2. – *Rauch 41, 1988, 27; G. Hirsch 160. 1988, 37.
- 753** 4.O30 Die of 752–753.
 4.R38 Crab with curved upper part and square lower part; short claws; stiff legs, straight on r. side; shrimp l.
 1. 15.02 *Private collection, Calciati I, 46.
- 754** 2.O24 Die of series 2. 662, 754, series 5. 799.
 4.R39 Broad crab with curved sides; radiating legs; shrimp r. Die of 754–755.
 1. 16.57 2 *Budapest, *SNG* I.3, 35.
- 755** 4.O31 PΑΓΑΝ to r.; eagle l. with lifted head and spread wings holding fish in his claws. Die of 755–756.
 4.R39 Die of 754–755.
 1. 19.24 6 *Syracuse (23412).

- 756** 4.O31 Die of 755–756.
 4.R40 Crab with curved sides and flat bottom; shrimp l. Die of 756–757.
 1. 14.80 *Stockholm (101135, 1984); Müller 46, 1984, 37; do
 43, 1983, 20; do. 41, 1982.9. Overstruck on Panormos.
 2. 14.57 Milan, Arslan 64.
 3. 13.23 Pegasi Coins, list 120 (20.11) 2000, 46.
 4. 11.27 6 *Berlin (604237). Overstruck on Panormos. Pl. 71.
 5. 8.72? 6 Palermo. Thin flan, much worn.
 Uncertain *Rev.*:
 6. 13.05 Caltanissetta, from Sabucina excavations.
- 757** 4.O32 Illegible; eagle r. on very small fish. Die of 757–758.
 4.R40 Die of 756–757.
 1. 13.37 5 *Munich, *SNG* 120.
 2. 12.20 Private collection, Calciati I, 38. Overstruck. Pellets
 visible on *obv.*
- 758** 4.O32 Die of 757–758.
 4.R41 Broad crab with curved sides; long thin claws: shrimp r. Die of 758–
 759.
 1. 15.27 Düsseldorf University (4252/14/2). Overstruck ? *Obv.*
 Cut across eagle's wing.
 2. 13.77 7 *Cambridge, General Collection (Young 374, 1936);
 Overstruck on Himera? *Obv.* Pellet of undertype visible
 on eagle's body.
- 759** 4.O33 No legend visible; small eagle with lowered head and large, spread
 wings r. on hare. Dotted border. Die of 759–760 and series 5.801.
 4.R41 Die of 758–759.
 1 14.04 *Gadoury 13.10.1980, 56. Outlines of eagle filled in.
- 760** 4.O33 Die of 759–760 and series 5.801.
 4.R42 Broad crab with long, thin claws; drooping legs; shrimp l.
 1. 15.65 *Private collection, Calciati I, 13 OS–CM. Same coin
 restruck *obv.* on *rev.* On *obv.* legs and shell of *rev.* crab
 visible to l.; on *rev.*, reversed, traces of eagle's wing
 visible below. There is probably no countermark as
 suggested by Calciati.
 2. 13.66 *Cambridge, *McCLean* 2066.
Note to I: Calciati writes that the *rev.* has only three pellets, but the
 coin in Cambridge shows that the reverse type is normal.

- 761** 3.O22 Die of series 3, 696, series 4, 761–763.
4.R43 Crab with stiff, drooping legs; shrimp r.
1. 16.51 Agrigento (436), *SNG* 101.
2. 11.86 6 *Duisburg (14/364), collection Köhler-Osbahr 158; Müller 30, 1980, 41.
- 762** 3.O22 Die of series 3, 696, series 4, 761–763.
4.R44 Crab with broad top and flat bottom; radiating legs; shrimp l.; above crab uncertain object. Die of 762, 764, 769.
1. 12.49 Private collection, Calciati I, 10/1.
2. 12.36 *Private collection, South Germany.
- 763** 3.O22 Die of series 2, 696, series 4, 761–763.
4.R45 Similar; shrimp r.
1. 13.98 Private collection, Calciati I, 15/2.
2. – *Utrecht (ex Amsterdam Akademie). Poorly preserved.
- 764** 4.O34 No legend visible; eagle l; curved body; head bent low down over hare. Die of 764–766.
4.R44 Die of 762, 764, 769.
1. 11.89 *Morcom collection, *SNG* 521.
- 765** 4.O34 Die of 764–766.
4.R46 Crab with stiff, drooping legs; shrimp l.
1. 18.42 Private collection, Calciati I, 26.
2. 15.30 11 Vienna.
3. 12.91 Private collection, Calciati I, 26mv 1/1.
4. 12.19 7 *Berlin (Imhoof-Blumer 1900).
5. – Formerly Moretti.
- 766** 4.O34 Die of 764–766.
4.R47 Similar crab with straight legs; shrimp l. Die of 766–768, 770.
1. – *Cammarata collection, Calciati I, 51/1 (tetras).
- 767** 4.O35 Traces of ethnic; eagle in more upright position; large hare.
4.R47 Die of 766–768, 770.
1. 15.16 Milan, Arslan 46.
2. 14.90 Cambridge, *McClean* 2067.
3. 14.20 Vatican (45). *Obv.* Two long, parallel marks across eagle's head and body. Overstruck?
4. 12.63 *Elsen 49, 1997, 172; Lanz 78, 1996, 120. *Rev.* Forepart of shrimp missing. Tooled or weakly struck?

- 768** 4.O36 Traces of ethnic; end of eagle's further wing visible above front wing.
4.R47 Die in worn state. Die of 766–768, 770.
1. 17.08 1 *Winterthur, Bloesch 584.
- 769** 3.O23 Die of series 3, 697, series 4, 769–770.
4.R44 Die of 762, 764, 769.
1. 11.62 *Pennisi; Calciati I, 40/7.
- 770** 3.O23 Die of series 3, 697, series 4, 769–770.
4.R47 Die of 766–768, 770.
1. 13.28 12 *Livorno (Enrico Chiellini gift c.1883).
- 771** 4.O37 Traces of letters on l. side; eagle in curved position; long legs; rough feathering. Die of 771–772 and series 5. 798.
4.R48 Crab's carapace has wavy top; shrimp l.
1. 14.41 5 *Berlin (Löbbecke).
2. – Edgar L. Owen (Andover, NJ) 32, 1997, 49.
- 772** 4.O37 Die of 771–772 and series 5. 798.
4.R49 Crab with stiff, drooping legs; shrimp l.
1. 13.03 *Private collection, Calciati I, 26 mv1.
- 773** 2.O25? Probably die of series 2, 663, series 4, 773.
4.R50 Round crab with flat top; long angular legs; shrimp l.
1. 18.70 Paris, Delepierre.
2. 15.44 04 Pennisi.
3. – *Myers 3, 1972, 35; do. list without year (1973), 15.

Imitations?

- AE **B4** *Obv.* No legend visible; eagle l. similar to 4.O34; large hare.
Rev. Crab with long, angular legs; thick curved shrimp l. Uncertain number of pellets.
1. 18.02 Private collection, Calciati I, 26.
- AE **B5** *Obv.* No legend visible; eagle l. similar to last; wing behind visible below front wing; oddly shaped, stiff hare with extremely thin legs.
Rev. Crab similar to last; fat, curved shrimp r. Uncertain number of pellets.
1. 17.92 5 Pennisi; Calciati I, 25 (*rev.*); Salinas 254, pl. 10.13 (*rev.*).

- AE **B6** *Obv.* Eagle l., strange style, long legs, long neck; hare poorly shaped.
Rev. Shrimp r.; pellets above, three on each side.
 1. 15.76 03 *Göttingen AS 95–19.
- AE **B7** *Obv.* No legend visible; eagle r., with curved body; large, thin hare.
Rev. Shrimp r.; pellets above as last. Flaw between claws?
 1. 14.29 07 Munich, *SNG* 98. Worn.

Series 5. Hippocamp

Obv. dies 6; *rev.* dies 19.

Principal types:

Obv. AKPA, often missing or illegible; clutching eagle on hare. Dotted border.

Rev. Crab; below hippocamp r. or l.; six pellets.

- 774** 2.O13 Die of series 2, 644, series 5, 774–777.
 5.R1 Broad crab with long legs; snake in l. claw forming a ring in front of
 claw and visible behind claw; below hippocamp r.; horselike upper
 part with horse's legs; strongly curved body with dorsal fins ending
 in forked tail-fin.
 1. 20.47 Munich, *SNG* 107.
 2. 19.68 NAC-O, 2000, 1261; formerly Moretti.
 3. 19.67 1 Stockholm, *SNG Forbat* 97. Partly weekly struck.
 4. 19.47 *NAC 4, 1991, 32.
 5. 17.50 Utrecht.
 6. – Edgar L. Owen 32 (17.4) 1997, 50.
- 775** 2.O13 Die of series 2, 644, series 5, 774–777.
 5.R2 Round crab with long legs; below large and thick hippocamp r.; horse-
 like forepart; curved body with spiny dorsal fins, broad, fanlike fin
 below and broad tail-fin, fanned out.
 1. 22.23 5 Bologna.
 2. 21.01 Private collection, Calciati I, 17 A/1.
 3. 20.25 NAC 11, 1998, 20.
 4. 19.39 *Berlin (Imhoof-Blumer); Calciati I, 17A; Salinas,
 pl. 10.5; Giesecke, pl. 11.1a–b; Westermarck, *Le origini*,
 pl. 2.1.

5. 18.72 Agrigento (866), *SNG* 157.
6. 18.59 7 Copenhagen, *SNG* 70. Corroded.
7. 17.80 Milan, Arslan 49.
8. 17.01 MMAG list 352, 1974, 7.
9. – Glendining 10, 1972, 70.

Obv. Die flaw below eagle's head: 7, 9.

Note to 4. Calciati identified the eagle's prey as a turtle, but it is undoubtedly a hare with long legs as noted in NAC 11, 1998, 20.

- 776** 2.O13 Die of series 2, 644, series 5, 774–777. Large die-break over eagle's head extending towards hare's legs.
- 5.R3 Similar crab with long legs; below longtailed hippocamp r.
1. 18.83 9 *Paris (FG 112). Poorly preserved.
- 777** 2.O13 Die of series 2, 644, series 5, 774–777. Die completely distorted by the enlarged die flaw.
- 5.R4 Small, round crab with small claws and thin legs; below hippocamp r; its curved body has spiny dorsal fin, broad fanlike fin below and forked tail-fin; in front shallow shell. Die of 777, 779.
1. 19.42 Torino (1349).
 2. 18.09 Budapest, *SNG* I: 3, 37.
 3. 17.80 *Private collection, Calciati I, 18, OS.
- 778** 5.O1 Similar to last but further wing smaller; rough pattern on open wing, head deeply bent; hare's fore-legs upwards.
- 5.R5 Smaller crab with long legs; hippocamp r., slenderer and less curved body with dorsal fins, long fin below and forked tail-fin; head with pointed nose.
1. 15.21 Coburg.
 2. 13.84 *Miksche collection, Huddinge; Lanz 78, 1996, 113.
 3. 13.60 Palermo; Gàbrici, p. 114.29 (13.55), pl. I.32 (*rev.*).
 4. 12.29 Agrigento (459), *SNG* 156.
- 779** 4.O3 Die of series 4, 703, series 5, 779–781.
- 5.R4 Die of 777, 779.
1. 21.18 CNG 53, 2000, 96; Astarte 1, 1998, 33.
 2. 20.94 NAC-N, 2003, 1105; formerly Moretti and Virzi (586).
 3. 19.02 *Spink/Galerie des Monnaies 10.10.1977, 69, from Agrigento 1976–1977 hoard.
 4. 18.55 MMDDeutschland 17 (4.10) 2005, 158.

- 780** 4.O3 Die of series 4, 703, series 5, 779–781.
5.R6 Similar to last; crab's legs going upwards on l. side; hippocamp r.; fanlike fin below; scallop shell in front.
1. 22.44 New York (1957.172.524, Miller), *SNG ANS* 1024.
 2. 22.04 NAC 18, 2000, 68.
 3. 20.61 Glasgow, *Hunter* 46.
 4. 20.53 Lanz 78, 1996, 112.
 5. 19.53 *NAC-O, 2004, 1262; Elsen 64, 2000, 93; formerly Moretti.
- 781** 4.O3 Die of series 4, 703, series 5, 779–781. Worn die.
5.R7 Similar crab with very short and thin claws; below ketos r.; dog-like head turned backwards; two broad fins below. Die of 781–782.
1. 21.35 Lanz 78, 1996, 114.
 2. 19.99 6 *Formerly Virzi (587); Calciati I, 21/1; Westermark, *Le origini*, pl. 2.9 (rev.).
 3. 19.71 Private collection, Calciati I, 21.
- 782** 5.O2 Ethnic AKA to l with P inserted above; eagle r. in a more upright position; broad wings. Die of 782–784.
5.R7 Die of 781–782.
1. 23.17 *Class. Num. Auction 20 (25.3) 1992, 336; do. 16 (16.8) 1991, 260.
- 783** 5.O2 Die of 782–784.
5.R8 Broad crab with short claws; below hippocamp r.
1. 20.15 Pennisi; Rizzo, pl. 3.12; Calciati I, 19 (17.80g).
 2. 19.50 4 *London, *BMC* 92.
 3. 19.40 8 Pennisi. *Rev.* Two small cuts at left edge.
 4. 18.86 Astarte 2, 1999, 51.
- 784** 5.O2 Die of 782–784. Worn die.
5.R9 Broad, square crab with short claws; hippocamp r. Die of 784–785.
1. 20.36 Agrigento (455), *SNG* 154.
 2. 20.15 Agrigento (2118), *SNG* 155.
 3. 17.15 Caltanissetta, from Sabucina excavations, Mannino 9, pl. 22.
 4. 17.10 5 *Vienna. *Rev.* Long cuts to l.
- 785** 5.O3 Similar.
5.R9 Die of 784–785.
1. 18.68 1 *Berlin (Löbbecke 1906).

- 786** 5.O4 Clutching eagle r. on hare.
 5.R10 Crab's legs more bent; long r. claw; hippocamp r.
 1. 22.42 Lanz 86, 1998, 34.
 2. 21.47 6 *Leipzig, *SNG* 360.
 3. 20.35 Private collection, Calciati I, 19/1.
- 787** 5.O5 Long ethnic retrograde; eagle with long neck and large beak; shorter wings.
 5.R11 Similar crab; hippocamp r. with legs and forked tail.
 1. 23.67 5 *New York (1944.100.8224, Newell), *SNG ANS* 1022.
 2. 21.36 Gela excavations 1984–85, 1987, Carbè, p. 54.1, pl. 21.1.
 3. 21.11 5 Agrigento (456), *SNG* 153.
 4. 18.99 Locarno, collection Rossi, Vismara, *Koinon* 6, 146. *Obv.* Uncertain. Poorly preserved.
 5. 15.47 9 Rome (19012, Mus. Kircheriano).
 6. 15.44 12 Syracuse (6372).
- 788** 4.O18 Die of series 4, 731, series 5, 788.
 5.R12 Larger, more irregular crab holding snake in l. claw; hippocamp l; horse-like forepart with legs. Die of 788–789.
 1. 21.64 *Elsen 50, 1997, 164; Lanz 78, 1996, 117.
- 789** 4.O17 Die of series 4, 729–730, series 5, 789.
 5.R12 Die of 788–789.
 1. 17.62 London, *BMC* 94.
 2. 17.60 *Mini 18.
- 790** 5.O6 No legend visible: eagle r. on hare r.; head lowered: in r. field leaf.
 5.R13 Similar crab; hippocamp r. with broad, fan-like tail-fin. Die of 790–791.
 1. 17.32 *Florence.
 2. 15.15 Utrecht.
 3. 14.00 Glasgow, *Hunter* 41.
- 791** 3.O25 Die of series 3, 699, series 5, 791.
 5.R13 Die of 790–791.
 1. 13.20 Private collection, Calciati I, 41.
 2. 12.36 Agrigento (460), *SNG* 218.
 3. 12.10 7 *Palermo.

- 792** 5.O7 No legend visible; eagle has slender body and long neck; leaf in r. field.
- 5.R14 Similar crab; longer claws; legs wide apart; hippocamp r. with horse's legs; in front, scallop-shell.
1. 26.45(sic.) Private collection, Calciati I, 20 OS/1. Overstruck?
 2. 13.55 Gela excavations 1984–1985, 1987, Carbé p. 54.2, pl. 21.2.
 3. 13.26 *Morcom collection, *SNG* –; Vecchi 10, 1998, 109.
 4. 12.51 Palermo, Gàbrici 30.
 5. 12.44 Glasgow, *Hunter* 40.
 6. 11.85 Paris (FG 116).
 7. 11.84 Dresden (538).
- Note to 1:* The heavy weight suggests an overstrike but there are no clear traces of such.
- 793** 2.O21 Die of series 2, 658, series 4.732, series 5, 793–796.
- 5.R15 Crab with finely curved shell; hippocamp r. with no fin below.
1. 21.20 6 Paris, Seymour de Ricci; Bourgey 30.6.1927, 155.
 2. 17.27 New York (1957.172.523, H. Miller), *SNG ANS* 1023; Calciati I, 19/2.
 3. 16.15 2 Berlin (Imhoof-Blumer 1900).
 4. 15.72 Milan, Arslan 50.
 5. 15.09 London, *BMC* 93; Westermark, *NAC/QT* 1984, pl. 2.12.
 6. 14.54 NAC-D, 1994, 2118.
 7. 13.77 6 Munich, *SNG* 108.
 8. 13.59 Paris (FG 117).
 9. 11.70 *G. Hirsch 166, 1990, 58; do. 159, 1988, 79; Rauch 41, 1988, 28.
 10. – Formerly Moretti.
- 794** 2.O21 Die of series 2, 658, series 4, 732, series 5, 793–796.
- 5.R16 Similar; smaller hippocamp r. with short tail.
1. 21.94 Elsen 18, 1991, 65.
 2. 18.39 5 Pennisi.
 3. 18.04 1 Palermo, Gàbrici 27 (17.94); Vassallo, pl. 2.5.
 4. 18.02 Budapest, *SNG* I: 3,36.
 5. 16.13 Rauch 32 (16.1) 1984, 61.
 6. 15.27 Cambridge *McClean* 2065.
 7. 14.85 Private collection, Calciati I, 19/3.
 8. 14.65 1 Palermo, Gàbrici 28 (14.56).
 9. 12.00 Agrigento (2820), *SNG* 158, Sant. Div. Ctonie.
 10. 11.92 Coburg.
 11. 11.54 *NFA 15.1.1982, 50.

- 795** 2.O21 Die of series 2, 658, series 4, 732, series 5, 793–796.
5.R17 Hippocamp swimming l.
1. 17.35 MMDDeutschland 17 (4.10) 2005, 172; Sternberg 18. 1986, 29a.
 2. 15.17 12 Munich, *SNG* 106.
 3. 14.80 Palermo, Gàbrici 31 (14.74).
 4. 14.50 Private collection, Calciati I, 22.
 5. 14.02 *Lanz 42, 1987, 73; do. 32, 1985, 64; Monetarium list 51, 1989, 14; SKA 7, 1987, 483; do. 1, 1983, 46; do. list 38, 1982, 38. Enl. x2.
 6. 13.54 London, *BMC* 95.
 7. 13.22 Glasgow, *Hunter* 39.
 8. 13.04 10 CNG 54, 2000, 264; Waggoner, *Rosen*, 36; Ariadne Galleries Dec. 1981, 22.
 9. 13.04 Private collection, Calciati I, 22/1.
 10. 12.10 3 Vienna.
 11. 12.05 12 Pennisi; Salinas pl. 10.8.
 12. – Formerly Moretti.
- 796** 2.O21 Die of series 2, 658, series 4, 732, series 5, 793–796.
5.R18 Crab with broad claws; hippocamp r. Die of 796–797.
1. 12.44 6 *Cambridge, *McClellan* 2064, pl.66.5; Calciati I, 20. Overstruck on Himera.
- 797** 4.O23 Die of series 4, 742, series 5, 797.
5.R18 Die of 796–797.
1. 12.64 *Glasgow, *Hunter* 48.
 2. 11.48 Private collection, Germany; G. Hirsch Nov. 2009, 53.
- 798** 4.O37 Die of series 4, 771–772, series 5, 798.
5.R19 Die of 798–801.
1. 16.24 *Rauch 42, 1989, 2875; G. Hirsch 159, 1988, 80.
 2. 15.18 Klagenfurt, *SNG* 405.
 3. 14.50 10 Palermo.
 4. 11.18 Private collection, Calciati I, 28/1.
- 799** 2.O24 Die of series 2, 662, series 4, 754, series 5, 799.
5.R19 Crab with curved upper part and square lower part; long claws; hippocamp l. Die of 798–801.
1. 13.91 3 *Cambridge, *McClellan* 2068, pl. 66.6; Calciati I, 28.

- 800** 2.O23 Die of series 2, 660–661, series 3, 700, series 5, 800.
 5.R19 Die of 798–801.
1. 14.27 Vecchi 10, 1998, 111.
 2. 12.83 Agrigento (457), *SNG* 217.
 3. 12.35 7 *Pennisi.
 4. 11.82 Private collection, Calciati I, 34.
 5. – Private collection, Calciati I, 35OS. Traces of overstriking.
 6. – Grabow in stock (1950s).
- 801** 4.O33 Die of series 4, 759–760, series 5, 801.
 5:R19 Die of 798–801.
1. 12.81 10 *Berlin (unknown provenance).

Tetrantes

Series A. *Obv.* Screaming eagle l.

Obv. dies 1; *rev.* dies 4.

- 802** O1 No legend visible; screaming eagle with open wings standing l. on harein three-quarter position; dotted border. Die of 802–805.
 R1 Crab; below shrimp l.; two pellets above on either side of claws, one below.
1. 11.70 4 *Private collection, Calciati, *Koinon*, 57, pl. 5.
 2. 10.63 Private collection, Calciati I, 61.
 3. 10.62 Private collection, Calciati I, 61/1.
 4. 10.60 Private collection, Calciati I, 61/3.
 5. 9.86 9 Cambridge, *McClean* 2069, pl. 66.7; Calciati I, 61/2.
 6. 9.77 Oldenburg 9.5.1981, 22.
 7. 9.54 *London (1949.4.11.154, Mavrogordato).
 8. 9.36 Budapest, *SNG* I.3, 46. Much worn.
 9. 9.05 3 Berlin (Löbbecke)
- 803** O1 Die of 802–805.
 R2 Crab; shrimp l.; one pellet above, two pellets on either side of crab.
1. 11.55 11 Berlin (Imhoof-Blumer).
 2. 11.15 7 Palermo, Gàbrici 62 (11.10).
 3. 10.47 7 *Agrigento, *SNG* 219; Westermark, *Le origini*, pl. 3.2.
 4. 10.00 12 Vienna.

- 804** O1 Die of 802–805.
R3 Crab; shrimp l.; two pellets on either side of crab; third pellet not visible. Large die flaw below on r. side.
- | | | | |
|----|------|---|---------------------|
| 1. | 9.62 | 3 | Palermo. |
| 2. | 9.35 | | *Mini 43. |
| 3. | 8.82 | 5 | Pennisi. Much worn. |
- 805** O1 Die of 802–805.
R4 Crab; shrimp l.; above three smaller pellets, one between crab's claws
- | | | | |
|----|-------|---|----------------------|
| 1. | 11.79 | 1 | *Pennisi. Much worn. |
|----|-------|---|----------------------|

Series B. *Obv.* Eagle grasping snake in claws

Obv. die 1; *rev.* dies 2

- 806** O2 AK/PA below wing on l. side; above head on r. side; eagle flying r. picking at long, coiling snake in his claws. Die of 806–807.
R5 Crab, shrimp l.; pellets above.
- | | | | |
|-----|-------|---|---|
| 1. | 11.73 | | Morcom collection; Rauch Sept. 2010, 67; NAC 18, 2000, 69. |
| 2. | 11.05 | | Palermo, Gàbrici 63 (10.97); Vassallo, pl. 3.1; Salinas 270, pl. 11.1 (<i>rev.</i>). |
| 3. | 10.88 | | NAC 1, 1999, 1135; formerly Moretti and Virzi; Westermark, <i>Le origini</i> , pl. 3.5. |
| 4. | 10.61 | | Class. Num. Auctions 13, 1990, 293; Poindessault-Vedrines 15.11.1991, 67. |
| 5. | 10.29 | | *Vecchi 1, 1996, 166; NAC 4, 1991, 33. |
| 6. | 10.18 | | Private collection, Calciati I, 58. |
| 7. | 10.10 | 6 | Private collection, Calciati, <i>Koinon</i> , 55. |
| 8. | 10.08 | | Rovereto (215), Orsi collection, Gorini 79. |
| 9. | 10.06 | | Cambridge, <i>McClean</i> 2070. |
| 10. | 9.92 | | Private collection, Calciati I, 58/1. |
| 11. | 9.32 | | Cambridge (General collection 378–1936, Young). |
| 12. | 9.11 | | Munich, <i>SNG</i> 127. |
| 13. | – | | Hannover, Kestner Museum (K. 160). |
| 14. | – | | Naples, Santangelo 7395. |
- 807** O2 Die of 806–807, more worn.
R6 Below crab, fish r. and pellets (fish not always visible).
- | | | | |
|----|-------|---|--|
| 1. | 10.21 | | *Miksche collection; Vecchi 10, 1998, 115. |
| 2. | 10.05 | 7 | Pennisi. |
| 3. | 10.00 | | Mini 33. |
| 4. | 9.51 | | Private collection, Calciati I, 58B. |

5. 9.46 Private collection, Calciati I, 58A.

6. – Naples, Fiorelli 4021.

Obv. Flaw covering eagle's head: 2, 3.

Note to 4: Calciati sees a letter M below eagle's neck, which he regards as an artist's signature, but no such letter exists.

Series C. *Obv.* Eagle on hare, sometimes additional symbol; *Rev.*

Varying, additional symbols

Obv. dies 18; *rev.* dies 28

808 O3 Ethnic on r. side; eagle with head lowered, open wings and broad tail standing r. on hare, deposited on rock; vine leaf above eagle's tail; dotted border.

R7 Crab; vine leaf between claws; "ring" (mussel-shell?)⁴ on r. side; below shrimp l; twopellets above, one below. Die of 808–809.

1. 13.40 Private collection, Sweden; Ahlström Mynthandel in stock 199.

2. 11.77 Syracuse (36597).

3. 10.97 5 Pennisi.

4. 10.69 *London, *BMC* 106.

5. 10.58 4 Leu 79, 2000, 333; NAC 2, 1990, 54.

6. 8.44 Private collection, Calciati I, 56/2.

809 O4 Ethnic on l. side; similar eagle with thicker body; hare on rock; no vine leaf; Dotted border. Die of 809–811.

R7 Die of 808–809.

1. 12.02 Frankfurt/M (8459), Förschner 386.

2. 10.75 11 Agrigento (no inv. no.), *SNG* 149.

3. 9.42 6 Milan (Brera 5401), Arslan 66.

4. 9.14 Private collection, Calciati I, 56.

5. – *Naples, Fiorelli 4015.

6. – Formerly Moretti.

Same or similar dies:

add. 7.30 Agrigento (448), *SNG* 150. Small flan.

Obv. Beak broken by flaw: 1, 4.

⁴ Cf. above.

- 810** O4 Die of 809–811.
R8 Similar but vine leaf above; "ring" (mussel-shell?)* on r. side; shrimp r.; two pellets above, one below.
1. 13.08 Oxford.
 2. 12.48 3 New York (1911.105.56, Greenwood), *SNG ANS* 1035.
 3. 11.38 Morcom, *SNG* 522; *Ars Classica* 16, 1933, 444.
 4. 11.37 Private collection, NY; Knobloch list May 1967, 29.
 5. 10.99 12 *Berlin (Imhoof-Blumer).
 6. – Naples, Fiorelli 4016.
 7. – Formerly Moretti.
- Similar but uncertain dies:
add. 6.60 10 Munich, *SNG* 128.
Obv. Flaw as last: 3, 5, 7.
- 811** O4 Die of 809–811.
R9 Crab; above "ring" and three pellets; shrimp l.
1. 14.65 Miksche collection; G. Hirsch 188, 1995, 60.
 2. 13.62 9 Pennisi; Salinas 264, pl. 10.18 (*obv.*).
 3. 13.12 Gorny 44, 1989, 73.
 4. 13.08 11 Cambridge, *SNG* 929.
 5. 12.64 *St. Petersburg (2038.27b). Overstruck on Himera.
 6. 10.90 Paris, Delepierre.
 7. 10.70 11 New York (1957.172.528, Miller), *ANS SNG* 1034; Calciati I, 50/2.
 8. 10.35 12 *Berlin (Imhoof-Blumer).
- Obv.* Flaw as last: 1, 7, 8.
- 812** O5 Ethnic below wing and above head; dotted border. Die of 812–813.
R10 Crab; vine leaf between claws; "ring" to r.; shrimp r. pellets below.
1. 12.29 9 Berlin (6691). Thick flan.
 2. 11.50 1 Syracuse (32081).
 3. 11.28 *Miksche collection; Lanz 86, 1998, 39.
 4. 10.41 Private collection, Calciati I, 52/1.
 5. 10.33 Formerly private collection, Copenhagen.
 6. 9.34 Private collection, Calciati I, 52/3.
- 813** O5 Die of 812–813. Worn die.
R11 Broad crab; vine leaf above; "ring" on r. side; shrimp r.; pellets below.
1. 11.81 Private collection, Calciati I, 52.
 2. 11.04 5 *Palermo, G.52? (10.98).
 3. 10.12 Private collection, Calciati I, 52/2.
 4. – St. Petersburg (2036.27).

- 814** O6 Ethnic probably as last; eagle standing r. on large hare; dotted border.
Die of 814–816.
R12 Vine leaf and "ring" as last; shrimp l.; two pellets above to r., one below.
1. 8.33 *Catanzaro.
- 815** O6 Die of 814–816.
R13 No leaf or "ring" above; shrimp l.; pellets below.
1. 8.40 3 *Lanz 86, 1998, 38.
- 816** O6 Die of 814–816.
R14 Similar; vine leaf above; shrimp l.; pellets below.
1. 8.45 3 *Florence.
- 817** O7 No legend visible; similar eagle; dotted border.
R15 Similar; vine leaf above; shrimp l., two pellets above, one below.
1. 7.90 4 *Berlin (Löbbecke).
- 818** O8 Ethnic above eagle's back and below neck; eagle r. on hare; dotted border.
R16 Similar; vine leaf above; shrimp l.; pellets below.
1. 8.80 6 Pennisi. *Obv.* Double struck; the upper part of the eagle appears twice.
2. 8.67 Münz Zentrum 48, 1983, 15.
3. 8.63 *MMAG list 584, 1995, 16.
4. 7.90 Oxford (1979, gift R. D. Chetterham).
5. 7.85 Agrigento (2274), *SNG* 130. types partly off flan.
6. 7.44 Galerie des Monnaies (Los Angeles), 9.6. 1978, 1251.
- 819** O9 Ethnic on r. side; hare on pile of stones; dotted border.
R17 Similar; vine leaf above, "ring" on l. side; shrimp l., pellets below.
1. 11.20 7 Private collection, Calciati, *Koinon*, pl. 5.52.
2. 10.52 *Mini 31; Westermark, *Le origini*, pl. 3.3.
3. 10.36 7 Agrigento (no inv. no.), *SNG* 146.
- 820** O10 Ethnic above eagle's back; similar eagle with sharply bent neck.
R18 Similar; vine leaf above but no "ring"; shrimp r.; pellets below.
1. 12.20 *Vatican (cat. 47).
2. 9.46 7 Pennisi.
3. 9.16 5 Morgantina 72b.
4. 7.27 Palermo, Gàbrici 64.
This *obv.*, var. *rev.*
add. 7.11 5 Private collection, Italy. Overstruck on Solous.

- 821** O11 Ethnic on l. side; eagle on hare. Die of 821–822.
R19 Shrimp l.; pellets above.
1. 10.83 Nomos Kriens in stock 1979.
2. 9.86 Agrigento (no inv. no.), *SNG* 142.
3. 9.13 *Kricheldorf 44, 1994, 38.
- 822** O11 Die of 821–822.
R20 Shrimp r.; pellets below.
1. 9.70 Private collection, Calciati I, 53/2.
2. 9.42 Private collection, Calciati I, 53/3.
3. 8.95 4 Oslo.
4. – *Naples Fiorelli 4012.
Rev. Thin die crack from bottom of crab's shell through pellet extending across crab's shell and r. field above: 4.
- 823** O12 Ethnic not visible; similar eagle.
R21 Shrimp l.; two pellets above, one below.
1. 10.32 *Kölner Münzkabinett 30, 1981, 7.
- 824** O13 Ethnic on l. side; eagle has broad tail bent inwards; hare on rock.
R22 Shrimp l.; pellets above.
1. 11.16 Private collection, Calciati I, 57.
2. 8.17 10 Lanz 82, 1997, 57.
3. 8.05 5 *Berlin (Löbbecke).
4. 8.02 Paris (FG 122). Worn.
5. 7.35 Private collection, Calciati I, 54 mv2. Irregular flan; on *rev.* pellets off flan.
6. – G. Hirsch 34, 1963, 1142.
- 825** O14 Ethnic on l. side; small eagle on hare; linear border.
R23 Shrimp l.; pellets above.
1. 9.55 9 *Florence.
2. 8.69 9 Cambridge, *McClellan* 2073.
3. 8.00 Private collection, Calciati I, 57.2.
4. 6.95 Agrigento (2285), *SNG* 143. Small flan.
- 826** O15 Ethnic on l. side; similar eagle.
R24 Shrimp l.; pellets below.
1. 8.21 Riechmann 30, 1924, 214.
2. 7.94 11 *Pennisi.

- 827** O16 Ethnic on r. side; eagle with widely spread wings; further wing visible. Behind front wing; crab in l. field below wing; large hare with legs upwards. Die of 827–832.
R25 Shrimp l.; pellets below.
- | | | | |
|-----|-------|----|------------------------------------|
| 1. | 11.16 | 8 | Lanz 97, 2000, 93. |
| 2. | 10.56 | 4 | Munich, <i>SNG</i> 131. |
| 3. | 10.30 | 12 | Pennisi. |
| 4. | 10.19 | | Lanz 78, 1996, 119. |
| 5. | 10.02 | 12 | Formerly private collection, USA. |
| 6. | 9.78 | 12 | Syracuse (41044). |
| 7. | 9.47 | 8 | Paris (FG 119). |
| 8. | 9.44 | 12 | *Vienna. |
| 9. | 9.35 | | Kunst und Münzen list 67, 1992, 4. |
| 10. | 9.15 | 10 | Cambridge, <i>McClean</i> 2071. |
| 11. | 9.13 | | Agrigento (2278), <i>SNG</i> 123. |
- 828** O16 Die of 827–832.
R26 Round crab with short claws; shrimp l.; pellets below.
- | | | | |
|----|-------|--|--|
| 1. | 11.74 | | Private collection, Calciati I, 50. |
| 2. | 11.10 | | Locarno, Vismara, <i>Koinon</i> 5, 121. |
| 3. | 10.89 | | NAC 21, 2001, 44; do. 13, 1998, 265; Antikenmuseum Basel, 265; formerly Moretti. |
| 4. | 10.65 | | *NAC 10, 1997, 95; do. 5, 1992, 51. Enl. x2. |
| 5. | 9.82 | | Mini ad 42. |
| 6. | 9.80 | | *Mini 42; possibly ex Salinas 257, pl. 10.16 (ex Gréau collection). |
| 7. | – | | St. Petersburg (2035.20). |
- 829** O16 Die of 827–832.
R27 Shrimp l.; pellets below.
- | | | | |
|----|-------|----|---|
| 1. | 12.75 | | Miksche collection; G. Hirsch 190, 1996, 78; do. 188, 1995, 59. |
| 2. | 10.69 | 2 | Munich, <i>SNG</i> 129. |
| 3. | 10.37 | 7 | *Pennisi. |
| 4. | 9.76 | 11 | New York (1944.100.8229, Newell) <i>SNG ANS</i> 1037; Calciati I, 50.2. |
- 830** O16 Die of 827–832.
R28 Shrimp l.; pellets below.
- | | | | |
|----|-------|---|--|
| 1. | 10.30 | 7 | Pennisi. |
| 2. | 9.91 | 8 | *Berlin (5489); Westermark, <i>Le origini</i> , pl. 3.4. |
| 3. | 9.59 | | NAC –D, 1994, 1219. |
| 4. | 9.21 | | Lanz 82, 1997, 55. |

- 831** O16 Die of 827–832.
R29 Shrimp l.; pellets below.
1. 10.82 Astarte 7, 2001, 52.
2. 9.62 1 *Florence.
- 832** O16 Die of 827–832.
R30 Shrimp l.; pellets below. Die of 832–833.
1. 10.45 *Private collection, Calciati I, 50.1.
Same *obv.*, uncertain *rev.*
add. 9.26 Vecchi 6, 1997, 175.
- 833** O17 Ethnic to l.; thin eagle with long neck and small head; hare on rock
with legs upwards; scallop shell in front of eagle.
R30 Die of 832–833.
1. 10.29 2 New York (1944.100.8233, Newell, ex. Sotheby 1916),
SNG ANS 1042.
2. 9.20 7 *New York (1944, 100.8232, Newell), *SNG ANS* 1041.
- 834** O18 Similar; scallop shell in r. field. Die of 834–835.
R31 Broad crab with long legs; shrimp l.; pellets below. Die of 834, 836.
1. 10.96 9 *MMDeutschland 8, 2001, 30; NAC 13, 1998, 266;
Antikenmuseum Basel, 266; formerly Moretti.
2. 10.69 Vecchi 6, 1997, 174.
3. 10.44 8 Berlin (Fox).
4. 10.35 Private collection, Calciati I, 62 OS/1. Overstruck ?
5. 9.99 *Monetarium list 53, 1990, 26. Enl. x2.
6. 9.88 Cambridge, General collection (Young 349–1936).
7. 9.55 Agrigento (2272), *SNG* 151. Worn.
8. 9.18 New York (1957, 172.529, Miller), *SNG ANS* 1036;
Calciati I, 50 mvl.
9. – Syracuse, Milocca hoard.
Obv. Flaw at border below hare, getting larger covering hare and
extending along border: 2, 3, 6, 8.
- 835** O18 Die of 834–835.
R32 Shrimp l.; pellets below.
1. 10.97 *Cambridge (CB 265–1950).
2. 7.87 Agrigento (2826), *SNG* 152, Sant. Div. Ctonie hoard.
- 836** O19 Similar but no shallop shell. Die of 836–837.
R31 Die of 834, 836.
1. 10.24 *SBV 2, 1997, 34.
Obv. Flaw on hare's forelegs.

- 837** O19 Die of 836–837.
R33 Similar; shrimp l.; pellets below.
1. 9.85 1 Munich, *SNG* 133.
2. 9.15 *Sambon-Canessa 27.6.1927, 673.
Same *obv.* but var. *rev.*
3. 10.96 3 Lanz 82, 1997, 56.
Obv. Same flaw as last: all.
- 838** O20 Eagle with sharply bent, long neck; scallop shell in r. field; hare on stones.
R34 Round crab with legs wide apart; shrimp l.; pellets below.
1. 9.00 *Private collection, Calciati I, 50mv 1/1.

Series D. *Obv.* Eagle r. on hare; *Rev.* Shrimp normally l., or in few cases r.; pellets below

Obv. dies 30; *rev.* dies 35

- 839** O21 Ethnic on l. side.
R35 Thin shrimp l.
1. 9.20 Weber 1205.
2. 8.92 8 Berlin (Friedländer).
3. 7.50 12 Milan, Arslan 67 (Rosa 1192).
4. 7.20 5 *Private collection, Calciati, *Koinon*, pl. 5.53.
- 840** O22 Ethnic on l. side.
R36 Similar.
1. 10.16 Agrigento (no inv. no.), *SNG* 118.
2. 8.89 *Dresden (541).
- 841** O23 Ethnic on l. side; eagle has broad tail. Die of 841–843.
R37 Die of 841, 845.
1. 11.55 CNG 45, 1998, 75.
2. 11.04 *Spink/Galerie des Monnaies 10.10.1977, 70. From Agrigento 1976–1977 hoard.
3. 10.08 3 Palermo, Gàbrici 50, pl. I.33 (*obv.*); Vassallo, pl. 2.7.

- 842** O23 Die of 841–843.
R38 Similar.
1. 10.87 Private collection, Calciati I, 54; Calciati, *NAC/QT* 25, 1996, pl. 1.4.
 2. 9.83 Berlin (Imhoof-Blumer).
 3. 9.27 Triton III, 1999, 154.
 4. 8.19 *Formerly Virzi (602), ex. *Ars Classica* 12, 1926, 678 (not ill.).
 5. – Naples, Fiorelli 4011; Salinas 258, pl. 10.17 (*obv.*).
- 843** O23 Die of 841–843.
R39 Similar. Die of 843–844.
1. 10.78 Private collection, Calciati I, 54/3.
- 844** O24 Ethnic above eagle's body; large hare.
R39 Die of 843–844.
1. 12.71 Vecchi & Sons 11.10.1984, 45.
 2. 11.85 G. Hirsch 188, 1995, 58.
 3. 11.40 Lanz 24, 1983, 52.
 4. 10.35 *Mini 41 (*rev.* illustrated under no. 38).
 5. 10.10 2 Florence.
 6. 10.15 1 Palermo, Gàbrici 54 (10.09).
 7. 9.76 Sternberg 25, 1991, 42.
 8. 9.45 10 Udine, Brandis 15.
 9. 8.31 5 Agrigento (2277), *SNG* 129.
- 845** O25 Ethnic on both sides of eagle. Die of 845–846.
R37 Die of 841, 845.
1. 10.67 7 Palermo, Gàbrici 53 (10.61).
 2. 9.96 12 *Stockholm; Ahlström Mynthandel 30, 1984, 1939.
- 846** O25 Die of 845–846.
R40 Similar. Die of 846–847.
1. 10.24 10 *Cambridge, *McClellan* 2072, pl. 66.8. *Obv.* Two cuts below.
 2. 10.10 12 Munich, *SNG* 132. Poorly preserved.
- 847** O26 Ethnic as last; hare has long legs upwards.
R40 Die of 846–847.
1. 10.80 Private collection, Calciati I, 54/2.
 2. 10.57 Leu 74, 1998, 66.
 3. 9.31 5 Pennisi.
 4. – *Kress 121, 1961, 138.

- 848** O27 Ethnic as last; small eagle with head deeply lowered. Die of 848–849.
R41 Crab with legs upwards on l. side.
1. 11.70 Syracuse (17788).
2. 10.10 12 *Vienna.
3. 9.60 7 Pennisi.
4. 9.19 10 Palermo, Gàbrici 56, pl. I.34 (*rev.*).
- 849** O27 Die of 848–849.
R42 Similar.
1. – *Kress 121, 1961, 139.
Similar but uncertain dies. *Rev.* much worn
add. 9.93 8 *Berlin (506/1898).
- 850** O29 Ethnic on r. side. Die of 850–851.
R43 Similar.
1. 12.06 Sternberg 31, 1996, 421.
2. 10.89 Lanz 78, 1996, 121.
3. 9.62 12 *Berlin (Imhoof-Blumer).
- 851** O29 Die of 850–851
R43A Similar. Die has flaw between crab's shell and first pellet. Die of 851–852.
1. 9.48 3 SBV Autumn 1975, 28 (ex. Virzi 604); Ratto (Lugano) 1926, 26. Overstruck on uncertain undertype.
- 852** O30 Ethnic on either side of eagle in more upright position. Die of 852–854.
R43A Similar. Die of 851–852.
1. 11.19 *MMDeutschland 8, 2000, 31; Nomos (Kriens) in stock 1979.
2. 10.24 Aretusa 4, 1996, 100.
Similar but uncertain dies
3. 9.28 3 Munich, SNG 134. Worn.
Rev. Flaw between crab's shell and left pellet: all.
- 853** O30 Die of 852–854.
R44 Similar.
1. 11.29 2 Palermo, Gàbrici 51 (11.22).
2. 9.75 *Syracuse (26800).
Same *obv.*, uncertain *rev.*
add. 10.04 Private collection, Calciati I, 54/7.

- 854** O30 Die of 852–854.
R45 Die of 854–855.
1. 9.88 Kunst und Münzen list 66, 1991, 79.
2. – Syracuse (31731). *Obv.* Test cut through hare.
- 855** O31 Illegible; similar eagle.
R45 Die of 854–855.
1. 7.91 *Ratto in stock 1957.
- 856** O32 Ethnic on either side of eagle. Die of 856–858.
R46 Similar.
1. 11.34 London (1920, 8.5.15, Earle Fox); Westermark, *Le origini*, pl. 3.1. Test cut above on l.side.
2. 10.83 Private collection, Calciati I, 54/1.
3. 10.65 Private collection, Calciati I, 54/4.
4. 10.54 Private collection, Calciati I, 54/5.
5. 10.43 *London, *BMC* 102.
6. 10.14 3 Berlin (Löbbecke); Giesecke, pl. 11.3.
7. 9.35 Utrecht.
- 857** O33 Die of 857–858?
R47 Similar.
1. 10.83 London, Lloyd *SNG* 841. *Rev.* Double struck.
2. 10.68 *Elsen list 40, 1982, 9. *Rev.* Surface damaged. *Obv.* ill.
3. 9.30 10 Agrigento (2120), *SNG* 121.
4. – *Knopek 30.9.1978, 23b. *Rev.* ill.
Rev. Dotted flaw in r. field above: 1.
- 858** O33? Uncertain die.
R48 Similar.
1. – *Formerly Moretti.
2. – Syracuse, Milocca hoard, Orsi fig. 10, *Rev.* Partly double struck.
- 859** O33A Similar.
R49 Similar.
1. 9.90 *NAC-E. 1995, 2563.
This *obv.*, uncertain *rev.*
add. 9.63 Private collection, Calciati I, 54/8.

- 860** O34 Similar.
R50 Triangular carb with long claws and straight legs.
1. 12.91 1 Copenhagen, *SNG* 75.
2. 8.50 3 *Syracuse (44483).
3. 8.38 Private collection, Calciati I, 54/14.
4. – Syracuse, Milocca hoard.
- 861** O35 Ethnic on r. side.
R51 Round crab.
1. 10.89 Elsen list 66, 1984, 12; do. 57, 1983, 17.
2. 9.90 *New York, *SNG ANS* 1039.
- 862** O36 Ethnic on r. side.
R52 Triangular crab.
1. 10.03 8 *Morcom, *SNG* 523.
- 863** O37 Ethnic on either side of eagle. Die of 863–864.
R53 Similar.
1. 7.26 Private collection, Calciati I, 54/16.
2. – *Naples, Fiorelli 4013.
- 864** O37 Die of 863–864.
R54 Similar.
1. 8.44 12 *NAC 13, 1998, 267; Antikenmuseum Basel 267, ex. Moretti.
- 865** O38 Ethnic on either side of eagle. Die of 865–871.
R55 Similar.
1. 8.72 3 Private collection, Messina, Consolo Langher 4, pl. 1.4 and III.
2. 8.37 *Palermo, Gàbrici 57.
- 866** O38 Die of 865–871.
R56 Similar.
1. 8.36 1 Tübingen, *SNG* 565.
2. – *Dombrowski January 1977, 1012; do. stock list 74/75, 1977, 5216.
- 867** O38 Die of 865–871.
R57 Broad crab, legs upwards.
1. 10.64 *London (Goo 97).
2. 8.48 Private collection, Calciati I, 54/12.

- 868** O38 Die of 865–871.
R58 Similar.
1. – *Kricheldorf 32, 1977, 263.
2. – Formerly New York. Worn.
- 869** O38 Die of 865–871.
R59 Very tall crab; large pellets. Die of 869, 875.
1. 9.00 1 Paris, Delepierre.
2. 8.26 2 Berlin (Imhoof-Blumer).
3. 8.24 4 Göttingen AS 95–20.
4. 6.51 6 *Private collection, Calciati, *Koinon*, pl. 5.54.
5. 6.43 Paris, de Luynes 866.
- 870** O38 Die of 865–871.
R60 Small crab with long legs. Die of 870, 872.
1. 8.17 5 *Berlin (Fox).
- 871** O38 Die of 865–871.
R61 Similar.
1. 10.48 Agrigento (no inv. no.), *SNG* 145.
- 872** O39 Ethnic on r. side. Die of 872–873.
R60 Die of 870, 872.
1. 9.81 Cambridge, *McClellan* 266.
2. 6.80 *Parma (1281).
- 873** O39 Die of 872–873.
R62 Similar.
1. 6.70 11 *Pennisi.
- 874** O40 Ethnic on either side of eagle. Die of 874–878.
R58 Die of 868, 874.
1. 7.28 1 Munich, *SNG* 137.
- 875** O40 Die of 874–878.
R59 Die of 869, 875.
1. 7.19 *Vecchi 5, 1997, 90.
- 876** O40 Die of 874–878.
R63 Similar.
1. 8.01 Parma (1280).
2. 7.90 *MMAG list 595, 1996, 5.
3. – 7 Bonn, Akademisches Kunstmuseum.

- 877** O40 Die of 874–878.
R64 Similar.
1. 9.65 Morgantina 72a (inv. 63:1130).
2. 8.84 7 *Winterthur, Bloesch 588.
3. – 2 Bonn, Akademisches Kunstmuseum.
Same *obv.*; uncertain *rev.*
– 10.93 Budapest, *SNG* 45.
- 878** O40 Die of 874–878. Worn die.
R65 Similar.
1. – *Athens. Surface damaged.
Same *rev.*; uncertain *obv.*
– 10.68 5 Agrigento (no inv. no.), *SNG* 144.
– 9.98 Evelpidis *SNG* 430.
– 7.25 10 Catania.
- 879** O41 Ethnic to l. and to r.; eagle with broad tail. Die of 879–880.
R66 Similar.
1. 9.15 Private collection, Calciati I, 54/9.
2. 9.06 New York (1955.54.56, Cammann), *SNG ANS* 1045.
3. 8.64 *Morcom collection; Vecchi 6, 1997, 177; NAC –D, 1994, 1220; G. Hirsch 168, 1990, 102.
Same *rev.*, uncertain *obv.*
add. 5.77 Paris (FG 118).
- 880** O41 Die of 879–880.
R67 Similar.
1. 7.95 Sternberg 31, 1996, 422; G. Hirsch 173, 1992, 71.
2. 7.57 Palermo, Gábrici 60.
3. 6.84 Selinous excavation, *Selinus I*, p. 349, SL 1731.
4. 6.23 5 *Brussels.
- 881** O42 Ethnic to l. and r. Linear border.
R68 Shrimp r.
1. 12.01 *Private collection, Calciati I, 53; formerly Virzi (605).
2. 9.08 12 Agrigento (449), *SNG* 124. *Obv.* Three cuts on eagle.
- 882** O43 Illegible.
R69 Shrimp l.
1. 10.38 7 *Tübingen, *SNG* 564.
2. 10.35 Oxford (27.1.1924, J. G. Milne). *Rev.* Test cut across crab.

- 883** O44 Ethnic on l. side; hare on pile of stones.
R70 Shrimp l.
1. 10.62 Cambridge, Leake collection.
 2. 7.80 *Mini 38. The *rev.* illustrated in the catalogue belongs to Mini 41.
 3. 7.36 Monetarium list 55, 1991, 15.
 4. 6.67 9 Cambridge, *McClellan* 2074.
 5. 6.39 St. Petersburg (2037.27a).
 6. 6.18 12 Munich, *SNG* 138.
 7. 6.13 11 Oslo.
 8. 5.80 Birkler & Waddell 3, 1981, 38.
 9. 5.50 *MMD* Deutschland 11, 2002, 471.
 10. 5.07 Birkler & Waddell 2, 1980, 34.
 11. 4.36 Winterthur, Bloesch 590.
 12. – Naples, Santangelo 7407.
- 884** O45 Ethnic retrograde, to l. and to r. Die of 884–890.
R71 Large pellets; shrimp l.
1. 8.14 6 Pennisi. *Obv.* Cut across eagle.
 2. 8.12 Schulten 1.4.1987, 40.
 3. 6.73 Lanz 38, 1986, 91.
 4. 6.46 1 *Coburg.
- 885** O45 Die of 884–890.
R72 Large pellets; shrimp l. Die of 885, 892, 897.
1. 7.48 11 Pennisi.
 2. 7.31 3 New York, *SNG ANS* 1043.
 3. 7.10 7 *Pennisi.
- 886** O45 Die of 884–890.
R73 Shrimp l.
1. 10.65 *Elsen list 23, 1980, 2. *Rev.* Damaged on l. side.
 2. 7.65 Budapest, *SNG* I.3, 47.
 3. 7.36 7 Agrigento (442), *SNG* 134.
- This *obv.*, uncertain *rev.*
4. 5.98 12 Munich, *SNG* 139.
- 887** O45 Die of 884–890.
R74 Shrimp l.
1. 8.67 2 *Copenhagen (C.VIII 1820–22), *SNG* 76.
 2. 6.99 Münz Zentrum 56, 1985, 74.

- 888** O45 Die of 884–890.
R75 Similar.
1. 9.32 *Oxford (Cameron bequest 1948).
2. 7.90 12 Rome (19013).
- 889** O45 Die of 884–890.
R76 Small pellets; shrimp l. Die of 889, 906.
1. 7.21 1 *Agrigento (2279), *SNG* 135. *Rev.* ill.
2. 5.82 *Agrigento (no inv. no.), *SNG* 148. *Obv.* ill.
- 890** O45 Die of 884–890.
R77 Similar. Die of 890, 895.
1. 9.07 *London, *BMC* 105.
2. 8.95 Private collection, Calciati I, 54/11.
3. 8.81 Knopek 11.5.1979, 49.
4. – Mynthuset (Stockholm), 5.1984, 9; do. 1.1981, 8.
- 891** O46 Ethnic on r. side; eagle has sharply bent neck. Die of 891–896.
R71 Die of 884, 891.
1. 8.73 1 *New York, *SNG ANS* 1038.
- 892** O46 Die of 891–896.
R 72 Die of 885, 892, 897.
1. 7.22 *Cambridge, Leake collection.
This *obv.*, var. *rev.*
– 8.38 12 Munich, *SNG* 135.
– 7.10 Palermo (H 72.19), Himera excavation, *Himera* II, 337,
pl. 118.5.
– 6.17 7 Winterthur, Bloesch 589.
- 893** O46 Die of 891–896.
R73 Die of 886, 893.
1. 7.50 1 Vienna.
2. 4.65 *CNG 41, 1997, 167(a). Enl.
- 894** O46 Die of 891–896.
R74 Die of 887, 894.
1. 8.76 *Müller 28, 1980, 20; Oldenburg list Oct. 1980, 14.
- 895** O46 Die of 891–896.
R77 Die of 890, 895.
1. 6.76 6 *Syracuse (20383).

- 896** O46 Die of 891–896.
R76 Die of 889, 896.
1. 8.67 Private collection, Calciati I, 54 mv.
2. 7.88 *Palermo, Gàbrici 59 (7.86).
3. 7.72 Franke collection, Munich.
- 897** O47 Ethnic on l. side. Die of 897–901.
R72 Die of 885, 892, 897.
1. 8.41 Franke collection, Munich.
2. 6.11 *Gaettens in stock 1951.
- 898** O47 Die of 897–901.
R78 Similar to last.
1. 8.60 6 Vienna.
2. 6.50 3 *Formerly Virzi (599).
3. – Syracuse (39248).
- 899** O47 Die of 897–901.
R79 Similar.
1. 7.11 9 *Formerly Virzi (598).
2. – Schulten list March 1989, 1.
- 900** O47 Die of 897–901.
R80 Crab with curved upper outline and big eyes. Die of 900, 905.
1. 9.74 Astarte 11, 2002, 169.
2. 8.36 6 Palermo, Gàbrici 58, pl. 1.34 (*obv.*), I. 35 (*rev.*).
3. 8.31 5 Paris, Delepierre.
4. 7.01 11 *Agrigento (no inv. no.), SNG 136.
- 901** O47¹ O47 recut ; eagle has larger head, hare longer fore legs. Die of 897–
901.
R81 Similar.
1. 8.60 *Peus 288, 1975, 78.
2. 7.60 Agrigento (440), SNG 132.
3. 6.43 Class. Num. Auctions 14, 1991, 259.
4. 6.40 Knopek 7.4.1978, 40.
5. 6.02 Formerly private collection, Germany.
6. – Syracuse (7294).
This *obv.* but uncertain *rev.*
– 8.63 Franke collection, Munich. Overstruck?
– 5.09 Franke collection, Munich.

- 902** O48 Ethnic on r. side. Die of 902–904.
R72 Die of 885, 892, 902.
1. – *G. Hirsch 170, 1991, 159.
- 903** O48 Die of 902–904.
R79 Die of 899, 903.
1. 10.20 *Paris, Delepierre.
2. 7.78 New York, *SNG ANS* 1040.
3. 7.17 Vecchi 6, 1997, 176.
- 904** O48 Die of 902.904.
R82 Similar.
1. 8.76 *CNG 54, 2000, 266.
2. 7.02 SKA/Monetarium list 52, 1989, 25; do. list 48, 1978, 4.
- 905** O49 Ethnic on r. side; small eagle. Die of 905–912.
R80 Die of 900, 905.
1. 9.63 *Palermo, Gábrici 55 (9.59).
2. 6.61 5 Milan, Arslan 69.
3. 6.21 CNG 54, 2000, 267.
- 906** O49 Die of 905–912.
R83 Similar.
1. 9.14 Private collection, Calciati I, 54/10.
2. 7.69 Elsen 18, 1991, 64; Müller 68, 1991, 11.
3. 6.02 *London, *BMC* 103.
4. 5.91 Paris, Delepierre.
5. 5.28 1 Formerly Moretti and Virzi (603); Ratto, stock cat. 1926, 27.
6. 5.27 Private collection, Calciati I, 54/19.
7. 5.22 Cambridge (Mossop).
8. 5.21 1 Copenhagen, *SNG* 77.
9. 4.74 London, Lloyd *SNG* 842.
10. – *NCirc.* 12, 1977, 12917.
- 907** O49 Die of 905–912.
R81 Die of 901, 907.
1. 9.96 12 *Agrigento (2121), *SNG* 120.
- 908** O49 Die of 905–912.
R84 Similar.
1. 3.89(sic.) *London, *BMC* 104.
2. – Vecchi 12, 1998, 194.

- 909** O49 Die of 905–912.
R85 Similar.
1. 7.37 7 *Munich, *SNG* 136.
2. – G. Hirsch 166, 1990, 60; Rauch 43, 1989, 100.
- 910** O49 Die of 905–912.
R86 Similar.
1. 6.38 Private collection, Calciati I, 54/17.
- 911** O49 Die of 905–912.
R87 Similar.
1. 8.62 11 *Syracuse (24282).
2. 7.77 11 Syracuse (7301).
3. 6.01 Private collection, Calciati I, 53/4.
- 912** O49 Die of 905–912.
R88 Square crab; large A above; shrimp r.
1. 10.07 Private collection, Calciati I, 53/1.
2. 9.11 5 *Stockholm (Skjöldebrand), *SNG* 385. *Rev.* Letter effaced.
3. 6.84 Frankfurt/M (388), Förschner 387.
4. 5.53 Birkler & Waddell, list 5, 1982, 13. *Rev.* Letter not visible.
- 913** O50 Ethnic on l. side.
R89 Shrimp l. Die of 913–914.
1. 5.90 7 *New York (1944.100.8234, Newell), *SNG ANS* 1044.

Series E. *Obv.* Eagle l. on hare; *Rev.* Crab; three pellets below or above, shrimp l.

Obv. dies 3; *rev.* dies 4.

- 914** 4:O34 Die of hemilitron O34, series 4, 764–766.
R89 Die of 913–914.
1. 8.75 *Private collection, Calciati I, 59.
- 915** O51 No ethnic visible. Die of 915–916.
R90 Shrimp l.; pellets below crab.
1. 8.04 9 *Formerly Virzi (606).

- 916** O51 Die of 915–916.
R91 As last.
- | | | | |
|----|------|---|---|
| 1. | 9.70 | 2 | *Private collection, Calciati, <i>Koinon</i> , 56, pl. 5. |
| 2. | 8.75 | | Private collection, Calciati I, 59/1. |
| 3. | 8.29 | 2 | Copenhagen, <i>SNG</i> 78. |
| 4. | 7.08 | 2 | Berlin (Imhoof-Blumer). |
| 5. | – | | Princeton University Art Museum (55–108). |
- 917** O52 No ethnic visible.
R92 Shrimp I; one pellet above; two pellets above on r. side.
- | | | | |
|----|------|---|--|
| 1. | 9.95 | | Private collection, Calciati I, 60. |
| 2. | 9.43 | 9 | *edgarlowen Internet 2000-02-08; formerly Virzi (607). |
| 3. | 8.78 | | Private collection, Calciati I, 60/1. |
- Obv.* Dotted die flaw in front of eagle's head: 2.
Rev. Flaw at edge below: 1, 2.

Imitations

AE B8

Obv. Eagle r. on hare.*Rev.* Crab; three pellets below.

- | | | | |
|----|------|---|----------------------------|
| 1. | 8.75 | | Paris, <i>Delepierre</i> . |
| 2. | 8.40 | 6 | *Virzi (600). |

AE B9

Obv. As last.*Rev.* As last.

- | | | | |
|----|------|--|--|
| 1. | 7.96 | | *Malter 1, 1973, 39, formerly Virzi (601). |
|----|------|--|--|

Hexantes

Series Hare

Obv. dies 5; *rev.* dies 5.***Principal types****Obv.* Eagle with open wings standing r. or l. on hare.*Rev.* Crab; below fish; two pellets above on either side of crab.

- 918** (H)O1 AKP/A across field; eagle in upright position; large hare r.; linear border.
 (H)R1 Between crab's claws, leaf; below thin fish r.
- | | | | |
|-----|------|----|--|
| 1. | 7.84 | | Rauch 16.1, 1984, 62. |
| 2. | 7.80 | | Lanz 78, 1996, 124. |
| 3. | 7.67 | 5 | Brussels. |
| 4. | 7.50 | | Hamburger 98, 1933, 146; Sambon-Canessa 27.6.1927, 675. |
| 5. | 7.14 | 10 | Syracuse (30457); Salinas 266, pl. 10.21 (collection Di Stefano, Catania). |
| 6. | 6.50 | | Private collection, Calciati I, 67. |
| 7. | 5.83 | | Agrigento (876 bis), SNG 165. |
| 8. | 7.53 | | Monetarium list 63, 1995, 27. |
| 9. | – | | Naples Fiorelli 4017. |
| 10. | – | | *Naples Fiorelli 4018. |
| 11. | – | | G. Hirsch 177, 1993, 85. |
- 919** (H)O2 No letters visible; similar eagle; hare with straight head.
 (H)R2 Fish r.
- | | | | |
|----|------|----|---|
| 1. | 5.97 | 10 | *Syracuse (39351); Westermark, <i>Le origini</i> , pl. 3.7. |
|----|------|----|---|
- 920** (H)O3 No letters visible; small hare with drooping head. Die of 920–921.
 (H)R3 Below two fish l.
- | | | | |
|----|------|--|--|
| 1. | 4.97 | | *Birkler & Waddell III, Dec. 1981, 39. |
|----|------|--|--|
- 921** (H)O3 Die of 920–921.
 (H)R4 Below fat fish l.
- | | | | |
|----|------|---|----------------------|
| 1. | 6.73 | 9 | *Enna. |
| 3. | – | | Hirsch 37, 1963, 41. |
- This *rev.*, uncertain *obv.*
 Morgantina 73a. Much worn.
- 922** (H)O4 AKPA on r. side; eagle r. in a strongly curved position; thin, long hare with drooping head; dotted border.
 (H)R5 Fat fish l. Die of 922–923.
- | | | | |
|----|------|----|---|
| 1. | 7.35 | | Sambon-Canessa 27.6.1927, 674. |
| 2. | 7.13 | 4 | Parma (1282). |
| 3. | 6.84 | | SNG Evelpidis 431. |
| 4. | 6.68 | 6 | New York (1944.100.8239, Newell), SNG ANS 1055; Calciati I, 70/1. |
| 5. | 6.34 | 10 | *Leu 6, 1973, 67 (ex. Virzi 619); Calciati I, 70. |
| 6. | – | | Naples Fiorelli 4019, Salinas 265, pl. 10.20. |

- 923** (H)O5 AKP/A on l. side; similar eagle. Dotted border.
 (H)R5 Die of 922–923.
- | | | | |
|----|------|---|--|
| 1. | 8.12 | | Pennisi; Rizzo, pl. 3.16. |
| 2. | 7.47 | | MMAG Deutschland 11, 2002, 472. |
| 3. | 6.91 | | Lanz 22, 1982, 74, |
| 4. | 6.00 | 7 | *Lepczyk June 1981, 27 (ex. Virzi 620, from Ars Classica 16, 1933, 451, not ill.). |

Series Bird

Obv. dies 7; *rev.* dies 10

Principal types:

Obv. Eagle r. holding large bird with spread wings in his claws; dotted or line border.

Rev. Crab; two fish r. or l.; two pellets above.

- 924** (B)O1 A/K/PA retrograde. Linear border. Die of 924–927.
 (B)R1 Two fish upwards l.
- | | | | |
|----|------|----|---|
| 1. | 7.70 | 12 | Morcom <i>SNG</i> 526; AC 16, 1933, 44. |
| 2. | – | | *Naples Fiorelli 4025. |
| 3. | – | | Kölner Münzkabinett 27, 1980, 14. |
- Possibly same *obv.*, but varying *rev.*
- | | | | |
|----|------|---|--|
| 4. | 7.84 | 2 | Agrigento (no inv. no.), <i>SNG</i> 170. |
| 5. | 6.64 | 1 | Cambridge, <i>McClean</i> 2080, pl. –. Worn. |

- 925** (B)O1 Die of 924–926.
 (B)R2 Two fish upwards l.
- | | | | |
|----|------|----|---|
| 1. | 8.14 | 11 | *Berlin (Fox 1873). |
| 2. | 7.49 | 6 | Budapest <i>SNG</i> I.3, 49. |
| 3. | 7.47 | | Sternberg 31, 1996, 423. |
| 4. | 7.33 | | Private collection, Calciati I, 64. |
| 5. | 6.52 | | Lanz 52, 1990, 73. |
| 6. | 6.27 | 5 | Berlin (unknown provenance). |
| 7. | 4.45 | | Private collection, Calciati I, 64/1. Worn. |
| 8. | – | | Formerly private collection, Germany. |
- Obv.* Die break on eagle's wing.

- 926** (B)O1 Die of 924–926.
 (B)R3 Two fish upwards r. Die-linked series Pig, no 941.
- | | | | |
|----|------|---|---|
| 1. | 8.25 | 9 | *Formerly Virzi (611). |
| 2. | 7.36 | | Dresden (542). |
| 3. | 7.05 | | Cambridge, Leake collection, <i>SNG</i> . |

4. 6.87 11 Pennisi.
 Similar but uncertain dies:
 5. 6.06 Agrigento (2837), *SNG* 179, Sant. Div. Ctonie. Worn.

927 (B)O2 A/K/R/A; similar eagle.

(B)R4 Two fish upwards r.

1. 9.74 1 Astarte XI, 2002, 171.
 2. 8.18 CNG 45, 1998, 76. *Rev.* Only small flaw.
 3. 8.15 *Kress 90, 1951, 82.
 4. 8.04 2 Palermo (9553).
 5. 7.72 CNG 22, 1992, 222.
 6. 7.58 Vecchi 2, 1992, 222.
 7. 7.40 6 New York (000.999.5800, Gookin), *SNG ANS* 1054.
 8. 7.31 7 Agrigento (2131), *SNG* 171.
 9. 7.05 London (1947 66.966, Cameron). Worn.
 10. – Naples Santangelo 7413.
 11. – Miksche collection; Hirsch 190, 1996, 79.

Rev. Large flaw across crab's legs, r.side: all (uncertain on 4).

928 (B)O3 A/P/A.; similar eagle.

(B)R5 Two fish upwards r. as last; pellets within circle.

1. 7.53 *Triton III, 1999, 160; formerly Moretti.
 2. 7.39 10 Palermo (9541), Gàbrici 73, pl. 1.36; Vassallo, pl. 3.2.
 3. 7.14 8 Agrigento (2130), *SNG* 173.
 4. 7.14 9 New York(1944.100.8238, Newell), *SNG ANS* 1053.
Rev. No flaw.
 5. 6.92 4 Budapest, *SNG* I.3, 50.
 6. 6.87 12 Berlin (Löbbecke 1906).
 7. 6.74 6 Catanzaro.
 8. 6.06 3 Syracuse (20479).
 9. – Pozzi, Boutin 931; Hirsch 20, 1907, 112.

Rev. Long flaw across crab's legs, l. side: all except 4.

929 (B)O4 AK. on r. side; eagle r.

(B)R6 Two fish upwards l.

1. 7.53 8 *Private collection, Sweden; Selin Mynthandel,
 Stockholm, in stock 1999; Elsen 55, 1998, 33; Lanz 82,
 1997, 59.

929A (B)O4 Die of 929, 929A.

(B)R9 Die of 929A, 932, 933.

1. 7.90 Lanz 82, 1997, 58.

- 930** (B)O5 A/K/P/A; similar eagle; below wing corn grain?; linear border. Die of 930–932.
 (B)R7 Two fish upwards l. as last; crab's claws tight to body.
- | | | | |
|----|------|----|------------------------------------|
| 1. | 8.52 | 10 | Florence. |
| 2. | 8.28 | 7 | Berlin (Imhoof-Blumer). |
| 3. | 8.11 | 10 | Palermo (9542), Gábrici 74. |
| 4. | 7.91 | 12 | *Formerly Moretti and Virzi (609). |
| 5. | 7.69 | 1 | Florence. |
| 6. | 7.43 | 12 | Franke collection, Munich. |
| 7. | 7.06 | 7 | Berlin (unknown provenance). |
| 8. | 6.91 | 1 | Syracuse (20454). Corroded. |
| 9. | – | | Naples, Santangelo 7416. |
- 931** (B)O5 Die of 930–932.
 (B)R8 Two fish upwards l.
- | | | | |
|----|------|--|--|
| 1. | 8.55 | | London, <i>BMC</i> 107; Salinas 272, pl. XI.4. |
| 2. | 6.65 | | *Mini 56. |
- Similar but uncertain dies poorly preserved.
- | | | | |
|----|------|--|---|
| 3. | 6.64 | | Agrigento (466), <i>SNG</i> 175. |
| 4. | 6.61 | | Agrigento (1838) <i>SNG</i> 176, Sant. Div. Ctonie. |
- 932** (B) O5 Die of 930–932.
 (B) R9 Two fish upwards r. Die of 929A, 932–933.
- | | | | |
|----|------|--|---|
| 1. | 7.51 | | St. Petersburg (2033.25). |
| 2. | 7.30 | | *Syracuse (8422). <i>Obv.</i> corroded. |
- 933** (B)O6 AK/PA; eagle's body curved.
 (B)R9 Die of 929A, 932–933.
- | | | | |
|----|------|----|---|
| 1. | 8.07 | 1 | *Stockholm (30200, Leu 1974, ex. Virzi 610), <i>SNG</i> 386; Westermark, <i>Le origini</i> , pl. 3.9. |
| 2. | 7.65 | 11 | Rome (19014). |
| 3. | 7.02 | 12 | Cambridge, <i>McClellan</i> 2077, pl. –. |
| 4. | 6.37 | | Weber 1208. |
| 5. | – | | Naples, Fiorelli 4026. |
- Rev.* Oblong flaw above crab's claws: 1, 2, 4.
- 934** (B)O7 AK/PA; similar eagle; below wing, corn grain?
 (B)R10 Similar to last but crab's claws wider apart.
- | | | | |
|----|------|---|---|
| 1. | 7.74 | | MMAG Deutschland 6, 2000, 16; Astarte II, 1999, 56. |
| 2. | 7.41 | 1 | Palermo (9544). |
| 3. | 7.31 | | *Private collection, Sweden; Selin Mynthandel, Stockholm, in stock 1999; Elsen 55, 1998, 34; do. 49, 1997, 173; Lanz 78, 1996, 122. |

- | | | | |
|----|------|----|---|
| 4. | 7.31 | 6 | Private collection, Messina, Consolo Langher 10, pl. 1.10 |
| 5. | 7.18 | 7 | Cambridge, <i>McClellan</i> 2076, pl. 66.9. |
| 6. | 6.69 | 9 | Pennisi. |
| 7. | 6.51 | | Agrigento (2281), <i>SNG</i> 178. Poorly preserved. |
| 8. | 6.01 | 12 | Pennisi. |

Obv. Thin flaw in front of eagle's feet: 1, 3.

Series Pig

Obv. dies 4; *rev.* 9.

Principal types:

Obv. Eagle l. with open wings holding inverted pig in his claws; dotted border.

Rev. Crab; below, two fish; above, two pellets.

- 935** (P)O1 No ethnic visible; eagle has broad wing; small pig with stiff forelegs pointing upwards. Die of 935–937.
 (P)R1 Fishes upwards r.
- | | | | |
|----|------|--|---|
| 1. | 7.45 | | *Sternberg 20, 1988, 188. |
| 2. | 6.75 | | Caltanissetta, from Sabucina excavations, Mannino 42, pl. 24. |
| 3. | 6.40 | | Caltanissetta, from Sabucina excavations, Mannino 43, pl. 24. |
- 936** (P)O1 Die of 935–937.
 (P)R2 Similar.
- | | | | |
|----|------|---|--|
| 1. | 7.21 | 7 | *Lanz 92, 1999, 139; do. 78, 1996, 127; Elsen 55, 1998, 35; do. 49, 1997, 175; formerly Virzi (613). <i>Rev.</i> Cut on r. side below. |
| 2. | 6.84 | | Agrigento (463), <i>SNG</i> 163. |
| 3. | 6.83 | 9 | Glendining/Spink 23, 1975, 23. |
- 937** (P)O1 Die of 935–937.
 (P)R3 Similar; one pellet between crab's claws, one to r.
- | | | | |
|----|------|---|------------------------------------|
| 1. | 7.00 | 7 | Morcom collection, <i>SNG</i> 524. |
| 2. | 6.12 | | Münzhandlung Basel 8, 1937, 106. |
| 3. | – | | *Niccola list March 1966, 160. |
- Possibly same die-pair, but heavily worn and identification uncertain.
- | | | | |
|----|------|--|--|
| 4. | 5.90 | | Agrigento (464), <i>SNG</i> 167. |
| 5. | 5.86 | | Agrigento (2845), <i>SNG</i> 180, Sant. Div. Ctonie. |

- 938** (P)O2 AK/PA retrograde; pig has long neck and legs; hind-legs wide apart.
 (P)R4 Similar; pellets on either side of crab.
 1. 7.42 Oxford (Evans bequest 1941), *SNG* –.
 2. 6.60 5 Lanz 82, 1997, 61. Small flan.
 3. – *Formerly private collection, Germany.
- 939** (P)O3 A/K/P/A retrograde; long pig with bent forelegs; Die of 939–942.
 (P)R5 Two fish upwards r.; pellets on either side of crab.
 1. 8.17 Private collection, Calciati I, 75A.
 2. 7.12 *Mini 51; Nicola list June 1966, 157; do. Dec. 1964, 150 (ex. Pennisi); Salinas 268, pl. 10.23; Westermark, *Le origini*, pl. 3.10.
 3. 7.73 CGF, Monnaies XX, 2004, 14.
 4. 6.55 Caltanissetta, from Sabucina excavations, Mannino 47, pl. 24.
 5. – Formerly Moretti.
- 940** (P)O3 Die of 939–942.
 (P)R6 Two fish upwards r.; pellets on either side of crab.
 1. 7.68 12 Cambridge, *McClellan* 2075, pl. –.
 2. 7.61 Dresden (543).
 3. 7.58 *London, *BMC* 108.
 4. 7.17 6 Göttingen (AS 95.22).
 5. 7.12 Oxford (Baillol College), *SNG* –.
 6. 7.10 10 Berlin (6427).
 7. 6.97 Weber 1207.
 8. 6.91 7 Berlin (Imhoof-Blumer 1900); Giesecke, pl. 11.4a.
 9. 6.82 Pennisi.
 10. – Formerly Moretti.
- 941** (P)O3 Die of 939–942.
 (B)R3 Die of 926, series Bird.
 1. 7.56 1 *Formerly Virzi (612); *Ars Classica* 12, 1926, 678.
- 942** (P)O3 Die of 939–942.
 (P)R7 Two fish r.
 1. 7.50 Agrigento (no inv. no.), *SNG* 162.
 2. 7.28 7 Agrigento (no inv. no.), *SNG* 172.
 3. 7.13 5 *Morcom collection, *SNG* 525.
 4. 6.37 5 Munich, *SNG* 146. Worn and corroded.

- 943** (P)O4 No ethnic visible; pig has long ears and fore-legs pointing upwards.
Die of 943–944.
- (P)R8 Two fish; upper fish r., lower fish l.
- | | | | |
|----|------|----|--|
| 1. | 6.13 | 10 | Winterthur, Bloesch 592; Bernhard, p. 116.6, pl. 2.6
(<i>obv.</i>). |
| 2. | 5.62 | | Private collection, Calciati I, 69. |
| 3. | – | | *Glendining 10, 1972, 71. |
- 944** (P)O4 Die of 943–944.
- (P)R9 Crab with curved shell; upper fish l., lower fish r.
- | | | | |
|----|------|---|--|
| 1. | 6.82 | 3 | *Formerly Moretti and Virzi (614). |
| 2. | 5.70 | 5 | Berlin (Rauch). |
| 3. | – | | Salinas 267, pl. 10.22 (without provenance). |

Series Fish a

Obv. dies 21; *rev.* dies 23

Principal types:

Obv. Eagle standing r. or l. on fish with head lowered; mostly dotted border.

Rev. Crab; below two fish; two pellets above.

- 945** (F)O1 Eagle l. Die of 945–946. Traces of legend.
- (F)R1 A below; two fish upwards r.; pellets on either side of crab's claws.
- | | | | |
|----|------|----|--|
| 1. | 7.22 | 12 | Pennisi. |
| 2. | 7.14 | | Oxford (Cameron bequest 1948). Worn. |
| 3. | 6.80 | 12 | *Vienna. |
| 4. | 6.26 | 7 | Lanz 82, 1997, 62. |
| 5. | 6.22 | | Cambridge, <i>SNG</i> Lewis 292 (not illustrated). |
| 6. | 6.19 | | Private collection, Calciati I, 79/1. |
| 7. | – | | G. Hirsch 223, 2002, 1430. |
- 946** (F)O1 Die of 945–946.
- (F)R2 No letters visible; fish as last. Die of 946–947, 949.
- | | | | |
|----|------|----|-------------------------------------|
| 1. | 6.82 | 12 | Paris (FG 124). |
| 2. | 6.19 | | Private collection, Calciati I, 79. |
- 947** (F)O2 No ethnic visible; eagle r. Die of 947–948.
- (F)R2 Die of 946–947, 949.
- | | | | |
|----|------|---|---|
| 1. | 7.53 | | MünzZentrum 72, 1991, 163. <i>Rev.</i> Upper part of fish l. effaced. |
| 2. | 7.14 | 5 | *Rocca d'Entella (E.3894). See p. 208. |
| 3. | 6.88 | 7 | Winterthur, Bloesch 591. |

- 948** (F)O2 Die of 947–948.
 (F)R3 A/K/P/A around; two fish upwards r.
 1. 7.80 1 Copenhagen, *SNG* 80.
 2. 6.84 Elsen 56, 1998, 97; do. 49, 1997, 174; Lanz 78, 1996, 128.
 3. 6.47 11 Berlin (Imhoof-Blumer 1900).
 4. 6.46 *Cambridge, General collection (Young 380–1936).
 5. 6.29 Pennisi.
- 949** (F)O3 A A above to l. and to r.; eagle r.; head lowered almost touching fish.
 (F)R2 Die of 946–947, 949.
 1. 7.04 4 *Modena.
- 950** (F)O4 Traces of letters AKP; similar eagle.
 (F)R4 Two fish upwards r.
 1. 7.79 7 Munich (45729), *SNG* 141.
 2. 7.60 Vecchi 6, 1997, 180; Pegasi Coins, MB 104 (11.11) 1997, 41.
 3. 7.45 Vecchi 7, 1997, 153.
 4. 7.19 *London, *BMC* 109.
 5. 6.17 Hamburger 98, 1933, 147; Sambon-Canessa 27.6.1927, 677.
 6. 6.04 Oxford (Cameron bequest 1948).
- 951** (F)O5 A above eagle's tail.
 (F)R5 Two fish upwards r.
 1. 5.62 5 *Private collection, Munich.
 2. 4.42 3 Oslo. Worn and corroded. *Obv.* uncertain.
 3. – Formerly Moretti.
- 952** (F)O6 A P on r. side. Die of 952–953.
 (F)R6 Two fish upwards l.
 1. 6.48 *Delepierre. *Obv.* Surface partly flaked off.
- 953** (F)O6 Die of 952–953.
 (F)R7 Two fish as last. Die break on l. side.
 1. 7.32 3 Göttingen CR.
 2. 6.19 *Private collection, Calciati I, 77.

- 954** (F)O7 AKP/A to l. and to r.; similar eagle.
 (F)R8 Upper fish r., lower fish l.
 1. 5.79 *Peus 321, 1988, 58.
 2. 4.76 12 CNG 46, 1997, 115; Leu in stock 1954.
- 955** (F)O8 A/K to r.; similar.
 (F)R9 P–A below; upper fish r., lower fish l.
 1. 7.28 11 New York (1944.100.8236, Newell), *SNG ANS* 1048.
 2. 6.97 Palermo (9547), Gàbrici 78. *Obv.* Flaw on eagle's back.
Rev. Cut.
 3. 6.70 Vatican (cat. 53).
 4. 3.75 *Utrecht.
- 956** (F)O9 AK A around; similar.
 (F)R10 Fish as last.
 1. 8.10 10 *Copenhagen, *SNG* 79.
 2. 6.99 7 Leu 79, 2000, 335.
- 957** (F)O10 A/K/P/A around, retrograde; similar.
 (F)R11 Fish as last; pellets within circle. Die of 957–958.
 1. 8.30 *Miksche collection, Huddinge; Elsen 54, 1998, 87; do.
 50, 1997, 166; Lanz 78, 1996, 126.
 2. 7.39 Müller 29, 1980, 44.
 3. 6.98 Private collection, Calciati I, 75/4.
 4. 6.67 London, *BMC* 110.
 5. 6.38 Palermo (9548).
 6. 6.19 Syracuse (17789).
 7. – Syracuse (25348).
 8. – Formerly New York, ANS.
- 958** (F)O11 AK above eagle's wing, P on r. side; similar. Die of 958–959.
 (F)R11 Die of 957–958.
 1. 7.05 *London (Cameron 1947.6.6.966).
 This *rev.*, uncertain *obv.*:
 2. 7.29 1 Munich, *SNG* 143.
 3. 6.80 7 Munich, *SNG* 144.
- 959** (F)O11 Die of 958–959.
 (F)R12 A/K/P/A around.
 1. 7.43 Private collection, Calciati I, 75/1.
 2. 6.79 CNG 22, 1992, 223.
 3. 6.66 Private collection, Calciati I, 75/7.
 4. – *Morgantina 73e (inv. 62–795).

- 960** (F)O12 A/KP/A around; Die of 960–961.
 (F)R13 A/K/P/A; upper fish r.; lower fish l.
 1. 8.22 5 New York (1944.100.8235, Newell), *SNG ANS* 1049.
 2. 7.75 Riechmann 30, 1924, 213.
 3. 7.57 7 Formerly Virzi (616).
 4. 7.51 5 *Berlin (Löbbecke 1906).
 5. 7.31 7 New York (1895.25.1), *SNG ANS* 1047.
 6. 6.58 Bologna. Uncertain.
- 961** (F)O12 Die of 960–961.
 (F)R14 A/K/P/A/T around; upper fish l., lower fish r. Die of 961–962.
 1. 6.70 10 *Münster. Enlarged.
- 962** (F)O13 Similar eagle. Traces of legend.
 (F)R14 Die of 961–962.
 1. 7.68 11 Private collection, Calciati, *Koinon*, 61.
 2. 7.65 Private collection, Calciati I, 69lv.
 3. 7.45 Morcom collection, *SNG* –; Vecchi 1, 1996, 167;
NAC-D, 1994, 1221.
 4. 7.14 Auctiones 13, 1983, 74.
 5. 6.86 6 Pennisi.
 6. 6.85 5 *Private collection, Paris; Leu 6, 1973, 66 (ex. Virzi
 615).
 7. 6.60 5 Agrigento, *SNG* –.
 8. 6.60 7 Syracuse (41046).
 9. 6.54 12 Pennisi.
Obv. Die break on fish: 3, 4, 5, 7, 8.
- 963** (F)O14 A/KP below eagle, A on r. side.
 (F)R15 Upper fish r., lower fish l.; one pellet between claws; one on r. side.
 1. 7.90 *Sambon-Canessa 27.6.1927, 676. *Obv.* ill.
 2. 7.80 10 *Private collection, Calciati, *Koinon*, 60. *Rev.* ill.
 3. 6.46 Private collection, Calciati I, 75/8.
- 964** (F)O15 AK/PA retrograde and upside down below eagle; eagle has big head
 with long beak; large fish upwards. Die of 964–965.
 (F)R16 Upper fish l., lower fish r.; between claws two small dots.
 1. 7.20 4 Berlin (6041).
 2. 6.87 Pennisi.
 3. 6.81 2 *Formerly Virzi (637); AC 16, 1933, 441.

- | | | | |
|-----|------|---|--|
| 4. | 6.78 | | Schulten 19.3.1986, 31. |
| 5. | 6.64 | 5 | Prag (H5–25.746). Worn. |
| 6. | 6.55 | 1 | Syracuse (30488). |
| 7. | 6.50 | 3 | Vienna. |
| 8. | 6.48 | | <i>Class. Num. Review</i> , vol. 23.1, 1998, 12. |
| 9. | 6.39 | 3 | Cambridge, <i>McClellan</i> 2082, pl. 66.11. |
| 10. | 5.80 | | Pennisi. |
| 11. | – | | NAC 26.10.1995, 96. |

Similar but uncertain identification:

- | | | | |
|-----|------|---|--|
| 12. | 6.41 | 4 | Leipzig, <i>SNG</i> 364. Poorly preserved. |
|-----|------|---|--|

965 (F)O15 Die of 964–965. Die break across eagle's beak.

(F)R17 Fish as last; no dots between crab's claws.

- | | | | |
|----|------|---|---------------------------------------|
| 1. | 7.23 | 5 | *Formerly Virzi (617). |
| 2. | 7.24 | | Private collection, Calciati I, 75/2. |

966 (F)O16 AK/PA retrograde and upside down. Die of 966–967.

(F)R18 Fish as last; similar.

- | | | | |
|----|------|----|---|
| 1. | 7.19 | | Private collection, Calciati I, 74/1. |
| 2. | 6.80 | 11 | Agrigento, <i>SNG</i> –. <i>Rev.</i> almost effaced, uncertain. |
| 3. | 6.65 | 2 | *Berlin (Imhoof-Blumer 1900). |
| 4. | 6.64 | | Agrigento (471), <i>SNG</i> 174. |
| 5. | 6.51 | 10 | Syracuse (17792). |
| 6. | – | | Salinas 227, pl. 9.19 (Imhoof, not identical with 3). |

Same *obv.*, varying *rev.*

- | | | | |
|----|------|----|-------------------------|
| 7. | 6.58 | 11 | Munich, <i>SNG</i> 145. |
|----|------|----|-------------------------|

967 (F)O16 Die of 966–967.

(F)R19 Fish as last; one pellet between crab's claws, one to l.

- | | | | |
|----|------|--|--|
| 1. | 7.79 | | Dresden (544). Much worn. |
| 2. | 7.12 | | *Schulten 19.3.1986, 32. |
| 3. | 7.60 | | MünzZentrum 72, 1991, 162. |
| 4. | 7.30 | | Utrecht. |
| 5. | 6.93 | | Cambridge, General collection (381–1936, Young). |
| 6. | 6.60 | | Vatican (cat. 55). Much worn. |

Similar but identification uncertain:

- | | | | |
|----|------|---|--|
| 7. | 7.70 | 5 | Utrecht. |
| 8. | 7.16 | | Cambridge, Mossop collection. |
| 9. | 6.78 | | Agrigento (2835), <i>SNG</i> 190, Sant. Div. Ctonie. |

- 968** (F)O17 AK/PA below eagle; similar.
 (F)R20 Upper fish r., lower fish l; pellets to l. and between crab's claws.
 Die of 968–969.
1. 7.81 *NAC-B 1992, 1107.
 2. 7.79 6 Oslo. Cut on *obv.* Corroded.
 3. 7.60 7 Copenhagen, *SNG* 81.
 4. 7.24 11 Cambridge, *SNG* 930.
 5. 7.01 MMAG in stock 1976. Corroded.
 6. 6.78 Private collection, Calciati I, 75/6.
- Obv.* Flaw on eagle's head and wing: 1, 3, 4, 6.
- 969** (F)O18 AKP/A retrograde below eagle; eagle has big head.
 (F)R20? Die of 968–969 var.
1. 7.99 *Riechmann 30, 1924, 212. *Obv.* ill.
 2. 7.16 11 *Berlin (Imhoof-Blumer); Salinas 228, pl. 9.20 (*rev.*).
Rev. ill.
 3. 7.08 Private collection, Calciati I, 75/3.
 4. 6.75 11 Paris (FG 123).
 5. 6.70 7 Copenhagen, *SNG* 82.
- 970** (F)O19 No ethnic visible; similar to last.
 (F)R21 Fish as last; pellets on either side of crab.
1. 7.73 6 Oslo. Corroded.
 2. 7.16 11 Palermo (9546), Gàbrici 77.
 3. 6.87 *Delepierre.
 4. 6.83 10 Oslo.
- 971** (F)O20 No ethnic visible; similar to last.
 (F)R22 Pellets on either side of crab; upper fish l., lower fish r.
1. 7.95 *Private collection, Stuttgart (ex. Krüger collection, Stuttgart).
 2. 6.56 12 Syracuse (41045).
- Possibly same *obv.*, varying *rev.*
1. 7.16 Stuttgart.
- 972** (F)O21 No ethnic visible; similar to last but wing further back; long fish.
 (F)R23 Square crab similar to R22; upper fish r., lower fish l.
1. 5.81 *Agrigento (no inv. no.), *SNG* 189.
 2. 5.02 12 Palermo.
- Rev.* Numerous thin die cracks between crab's legs: 1.

Imitation?

B10*Obv.* No ethnic; eagle l.*Rev.* Crab; pellets above on either side of crab; two fish below; upper fish r., lower fish l.

1. 6.20 5 *Syracuse (25433).

Series Fish b

Obv. dies 9, *rev.* dies 9*Principal types:**Obv.* AKPA; eagle with open wings standing r. on thin fish.*Rev.* Crab; below fat fish swimming r. or l.; two pellets above or below crab.**973** (F)O22 AKPA on l. side; eagle's beak almost touching fish's head. Dotted border.

(F)R24 Fish r.; pellets above. Die-linked Series snake 985.

1. 6.86 Oxford (acq. Sabin Galleries, 1960).

2. 6.65 *Private collection, Calciati I, 72.

974 (F)O23 AKPA on l. side. Linear border.

(F)R25 Fish r.; pellets above.

1. 5.73 10 New York, *SNG ANS* 1050.

2. 5.42 6 Lanz 78, 1996, 125.

3. 5.28 Vecchi 6, 1997, 179.

4. 5.25 *MMAG 76, 1991 (Collection Lafaille), 123; Lafaille 39.

5. 5.22 5 Leu 79, 2000, 334.

6. 4.81 Private collection, Calciati I, 72/2.

7. 4.63 Syracuse (26802).

8. 4.30 Mini 53.

9. – Pozzi, Boutin 930.

975 (F)O24 No letters visible.

(F)R26 Fat fish r.; pellets above.

1. 5.13 *Morcom collection, *SNG* –; Lanz 86, 1998, 40.**976** (F)O25 AKPA on l. side; Die of 976–978.

(F)R27 Fish r.; pellets above.

1. 6.52 8 *Lanz 82, 1997, 60.

- 977** (F)O25 Die of 976–978. Worn die, no legend visible.
 (F)R28 Fish r.; pellets above. Die of 977, 979.
 1. 7.45 12 Agrigento (454), *SNG* 187.
- 978** (F)O25 Die of 976–978. As last.
 (F)R29 Fish r.; pellets above. Die-linked Series snake 986.
 1. 6.16 *Private collection, Calciati I, 72/1.
 Possibly same *obv.* with die break on eagle's beak; var. *rev.*
 2. 7.20 Private collection, Calciati I, 73/1.
- 979** (F)O26 No letters visible; eagle more upright; large fish.
 (F)R28 Die of 977, 979.
 1. 6.15 1 New York (1941.131.396, Clapp), *SNG ANS* 1052.
- 980** (F)O27 AKP on l. side, A below eagle's head.
 (F)R30 Fish r.; pellets below.
 1. 7.21 Peus 298, 1979, 24.
 2. 6.99 *MMAG list 515, 1988, 1.
 3. 6.92 Naville 5, 1923, 833.
- 981** (F)O28 AK/PA; slender eagle with small head; long, thin fish.
 (F)R31 Fish r.; pellets below. Die of 981–982.
 1. 6.67 Vecchi 6, 1997, 178.
 2. 6.65 Budapest, *SNG* I: 3, 48.
 3. 6.50 9 Vienna.
 4. 6.46 3 New York, *SNG ANS* 1051.
 5. 6.34 11 Berlin (Fox 1873). *Obv.* Cut across eagle's wing.
 6. 6.34 Peus 298, 1979, 25.
 7. 6.02 5 Palermo (9552), Gábrici 83.
 8. 5.80 8 *Private collection, Calciati, *Koinon*, 59.
 9. 5.60 Vatican (cat. 56).
 This *rev.*, but uncertain *obv.*:
 10. 7.72 Private Collection, Calciati I, 73.
- 982** (F)O29 Uncertain legend; eagle in more horizontal position. Die of 982–983.
 (F)R31 Die of 981–982.
 1. 6.95 *Ars Classica 16, 1933, 442.

- 983** (F)O29 Die of 982–983.
 (F)R32 Fish l.; pellets below. Die of 983–984.
 1. 7.04 12 Cambridge, *McClellan* 2081, pl. –.
 2. 7.02 *Morcom collection, *SNG* –; Lanz 86, 1998, 41.
 3. – Morgantina 73c.

- 984** (F)O30 AK on l. side, PA below eagle's head. Linear border.
 (F)R32 Die of 983–984.
 1. 7.32 *London, *BMC* 111; Salinas 231, pl. 9.22.
 2. 5.62 3 Leipzig, *SNG* 365.
 3. – Blancon list 8, 1990, 112.

Imitation

- B11** *Obv.* AK–PA retrograde beginning r; eagle l.; rough pattern on wings.
Rev. Crab; fish r.? (almost obliterated); pellets below.
 1. 3.48 Private collection, Calciati I, 80.
 2. 3.24 7 *Private collection, Calciati, *Koinon*, 62.

Series Snake

Obv. die 1; *rev.* dies 3

Principal types:

Obv. Legend only faintly visible; eagle r. with open wings holding long, wriggling snake in claws; snake's head lifted towards eagle's beak; linear border.

Rev. Crab; below one or two fish; two pellets above on either side of crab.

- 985** (S)O1 AKPA in small letters to l. Die of 985–989.
 (F)R24 Thick fish r. Die of 973, Series Fish b.
 1. 7.66 10 New York (1957.172.531, Miller), *ANS SNG* 1057.
 2. 6.70 7 Agrigento (no inv. no.), *SNG* 192. *Rev.* Corroded.
 3. 6.30 7 *Florence.
 4. 6.11 Private collection, Calciati I, 65 mv 1.
- 986** (S)O1 Only faint traces of legend. Die of 985–989.
 (F)R29 Die of 978, Series Fish b.
 1. 6.43 7 Berlin (Imhoof-Blumer 1900).
 2. 6.05 Syracuse (21736).
 3. 5.92 6 New York (1944.100.8240, Newell), *SNG ANS* 1056.
 4. – *Naples Fiorelli 4022; Westermarck, *Le origini*, pl. 3.6.
 5. – Morgantina 73b.

- 987** (S)O1 Die of 985–989.
 (S)R1 Thick fish r.
- | | | | |
|-----|------|----|--|
| 1. | 7.29 | 12 | Formerly Virzi (618). |
| 2. | 7.00 | | Pennisi. |
| 3. | 6.92 | 10 | Palermo (9551), Gàbrici 82. |
| 4. | 6.75 | | Mini 50. |
| 5. | 6.62 | 12 | Parma (1283); Salinas 271, pl. 11.3. |
| 6. | 6.50 | | Private collection, Calciati I, 65. |
| 7. | 6.48 | | *Private collection, South Germany. |
| 8. | 6.19 | 7 | Palermo (9550), Gàbrici 81. |
| 9. | 5.74 | | Agrigento (469), <i>SNG</i> 193. Worn. |
| 10. | 5.70 | | *Private collection, Calciati, <i>Koinon</i> , 58. |
| 11. | 5.53 | 6 | Berlin (859/1900). |
- 988** (S)O1¹ Probably same die worn and repaired; traces of letters to l.; r. loop formed by the snake more open; eagle's tail longer. Die of 985–989.
 (S)R2 Thick fish r.
- | | | | |
|----|------|--|--|
| 1. | 5.80 | | Private collection, Calciati I, 65 mv 1/1. Poorly preserved. |
| 2. | 5.60 | | Caltanissetta, from Sabucina excavations, Mannino 44, pl. 24. |
| 3. | 5.53 | | *Elsen 50, 1997, 165; Lanz 78, 1996, 123.
<i>Obv.</i> Uncertain traces above wing. |
| 4. | 4.55 | | Private collection, Calciati I, 65 mv 1/2. <i>Rev.</i> Much worn, uncertain attribution. |
- 989** (S)O1¹ Die of 985–989.
 (S)R3 Below two fish upwards r.
- | | | | |
|----|------|----|-------------------------------------|
| 1. | 5.15 | | Private collection, Calciati I, 66. |
| 2. | 4.38 | | *Private collection, Calciati 66/1. |
| 3. | 4.27 | 10 | Oslo. <i>Obv.</i> Almost effaced. |

Onkiai

Obv. dies 8; *rev.* dies 13.

Principal types:

Obv. AKPA; eagle with reverted head r. or l. on fish; linear border.

Rev. Crab; below fish or conch shell; one pellet above or below.

- 990** O1 AKP/A; eagle r.; in l. field above, cicada.
 R1 Below crab, conch shell; pellet above between claws.
 1. 3.87 3 Cambridge, *McClellan* 2090.
 2. 3.83 11 Lanz 97, 2000, 94.
 3. 3.80 Private collection, Calciati I, 84.
 4. 3.56 Private collection, Calciati I, 84/1.
 5. 3.41 7 Leu 6, 1973, 69 (ex. Virzi 626).
 6. 3.41 1 Berlin (Löbbecke 1906).
 7. 3.36 *NAC-O, 2004, 1265; formerly Moretti. (Enl. x 1.5).
 8. 3.35 Lanz 22, 1982, 75.
 9. 3.25 Private collection, Calciati I, 84/2.
 10. 3.31 5 Budapest, *SNG* I.3, 53.
 11. 3.26 NAC 19, 2000, 70.
 12. – *Private collection, Rizzo pl. 3.14.
Rev. Large flaw on r. side, above: 1, 7, 8, 11.
 R1¹ Section between crab's eyes higher and more rounded.
 13. 3.50 Utrecht. Worn.
- 991** O2 AKPA retrograde; eagle l.; in r. field above, cicada. Die of 991–993.
 R2 Below crab, cockle shell; pellet above as last.
 1. 3.98 Internet Wielink 1998.03.14.
 2. 3.85 3 New York (1957.172.532, Miller), *SNG ANS* 1062;
 Calciati I, 86; Sambon-Canessa 27.6.1927, 679.
 3. 3.80 7 *Brussels, de Hirsch 296.
 4. 3.74 Private collection, Calciati I, 86 mv1. *Rev.* Pellet off
 flan.
 5. 3.70 *Egger 12.11.1913, 239.
 6. 3.60 7 New York (0000.999.5801), *SNG ANS* 1063.
- 992** O2 Die of 991–993.
 R3 Similar; below crab, cockle shell; pellet above.
 1. 3.94 5 Berlin (Rauch 1878).
 2. 3.84 *Elsen 49, 1997, 176; Lanz 78, 1996, 129.
 3. 3.54 6 Copenhagen, *SNG* 85.
 4. 3.45 12 Cambridge, *McClellan* 2085.
- 993** O2 Die of 991–993.
 R4 K/P/A; below crab, thick fish r. (perch); pellet above. Die of 993–994.
 1. 3.59 *Morcom collection; Vecchi 10, 1998, 116.
 2. 3.00 Vatican (cat. 23). Poorly preserved.
Obv. Heavy flaw on eagle's head: 2.

- 994** O3 AKPA retrograde on l. side; eagle l.; in r. field above, cicada. Die of 994–995.
R4 Die of 993–994.
- | | | | |
|-----|------|----|--|
| 1. | 3.87 | 5 | Evelpidis, <i>SNG</i> 432. |
| 2. | 3.76 | 7 | *Stockholm (30200, ex. Virzi), <i>SNG</i> 387. |
| 3. | 3.72 | 8 | Munich, <i>SNG</i> 150. |
| 4. | 3.67 | 12 | Udine, Brandis 19. |
| 5. | 3.58 | 12 | New York (1944.100.8243, Newell), <i>SNG ANS</i> 1061. |
| 6. | 3.54 | | Private collection, Calciati I, 85. |
| 7. | 3.19 | 4 | Udine, Brandis 20. |
| 8. | 2.98 | | Private collection, Calciati I, 85/1. Uncertain, poorly preserved. |
| 9. | 2.72 | | Mini 62. |
| 10. | – | | Formerly Moretti. Damaged on both sides. |
| 11. | – | | Schulten list January 1988, 3. |
- 995** O3 Die of 994–995.
R5 Fish r.; pellet above, shaped like a ring.
- | | | | |
|----|------|----|--|
| 1. | 4.05 | 1 | Munich, <i>SNG</i> 149. |
| 2. | 3.86 | 9 | Cambridge, <i>McClean</i> 2083. |
| 3. | 3.6 | | Vecchi 2, 1996, 197. |
| 4. | 3.51 | 11 | Leu 74, 1998, 67. |
| 5. | 3.35 | 5 | *Formerly Virzi (628). |
| 6. | 3.32 | 9 | Cambridge, <i>McClean</i> 2084, pl. 66.12. |
- 996** O4 AK/PA; eagle r.; fish upwards. Die of 996–997.
R6 Fish l; pellet within circle above.
- | | | | |
|-----|------|----|---|
| 1. | 3.99 | 12 | Winterthur, Bloesch 593. |
| 2. | 3.66 | 6 | Formerly Virzi (624). |
| 3. | 3.55 | | Sternberg 25, 1991, 43. |
| 4. | 3.47 | 12 | Morcom collection, <i>SNG</i> 527; Naville 5, 1923, 834. |
| 5. | 3.43 | | *Lee collection; Brand part 7, 276; Naville I Pozzi, 1921, 393; Giesecke, pl. 11.5. |
| 6. | 3.30 | | G. Hirsch 196, 1997, 128; Sternberg 31, 1996, 424. |
| 7. | 3.27 | 9 | New York (1944.100.8241, Newell), <i>SNG ANS</i> 1058; Calciati I, 83. |
| 8. | 3.20 | 12 | Formerly Virzi (623). |
| 9. | 2.96 | 12 | Cambridge, <i>McClean</i> 2089. |
| 10. | – | | Formerly Moretti. <i>Rev.</i> Upper part with pellet off flan. |
- Rev.* Flaw along crab's shell: all except 10.

- 997** O4 Die of 996–997.
R7 Fish r.; pellet within circle as last.
1. 4.02 7 Copenhagen, *SNG* 83.
 2. 3.84 Agrigento (874), *SNG* 221.
 3. 3.78 Cambridge (383.1936, Young).
 4. 3.57 Private collection, Calciati I, 81.
 5. 3.43 London, *BMC* 112; Salinas 234, pl. 9.23 (drawing of *obv.* not correct).
 6. 3.42 MMAG in stock 1976.
 7. 3.34 1 Tübingen, *SNG* 566.
 8. 3.25 *Mini 60a.
 9. 3.24 MMDDeutschland 10, 2002, 151; Kricheldorf Oct. 23–24, 1981, 50.
 10. 3.24 3 Udine, Brandis 18.
 11. 3.07 Agrigento (2291), *SNG* 224.
- Uncertain attribution:
- 12 6.65 ? Utrecht.
 - 13 3.32 Evelpidis, *SNG* 433.
 - 14 3.25 Agrigento (2292), *SNG* 227.
 - 15 2.82 7 Stockholm, *SNG* 388.
- 998** O5 AK/PA: eagle r.; small fish turned upwards. Die of 998–1001.
R7 Die of 997–998.
1. 3.65 7 Munich, *SNG* 148.
 2. 3.52 *Paris, de Luynes 867; Mirone, *Numismatik*, I.5–6, p. 90, pl. II.36.
 3. 3.38 2 Cambridge, *McClellan* 2087, pl. 66.14.
- Similar but uncertain attribution:
- 4 3.43 Agrigento (875), *SNG* 223. Worn.
- 999** O5 AK/PA; eagle r. Die of 998–1001.
R8 Fish l; pellet above.
1. 4.10 Sambon-Canessa 27.6.1927, 678
 2. 3.67 7 Paris (FG 125).
 3. 3.35 Auctiones 8, 1978, 62 (ex.Virzi 622); Malter 1, 1973, 40.
 4. 3.20 10 Berlin 304/1877.
 5. 3.21 Oxford (exchange 1974).
 6. 3.15 7 *Leu 6, 1973, 68 (ex.Virzi 621)
 7. 3.12 *G. Hirsch 188, 1995, 57. Enl.
 8. 2.95 4 Budapest (Dess. III.687), *SNG* I.3, 54.
- Similar but uncertain attribution:
- 9 3.66 Agrigento (2290), *SNG* 222. Much worn.

- 1000** O5 Die of 998–1001.
R9 Fish r.; pellet above.
1. 4.61 CNG 39, 1996, 262(a).
 2. 3.72 5 Private collection, Messina, Consolo Langher 14, pl. II–III.
 3. 3.69 5 Berlin (Imhoof-Blumer).
 4. 3.57 Private collection, Calciati I, 81 (*obv.* has no fly as stated there).
 5. 3.46 Palermo (H67.729), Himera excavations, *Himera II*. 235, pl. 117.16.
 6. 3.29 *Class. Num. Review* vol. 16.1, 1991, 26.
 7. 3.26 7 Munich, *SNG* 147.
 8. 3.23 Miksche collection, Huddinge; Freeman & Sear, MB 4, 1998, 47.
 9. 3.21 10 Private collection, Calciati, *Koinon*, 63. Corrosion (?) in r. field misinterpreted as a leaf.
 10. 3.20 3 Cambridge, *McClellan* 2088.
 11. 3.12 *MMAG in stock 1976.
 12. 2.65 Private collection, Calciati I, 82.

- 1001** O5 Die of 998–1001.
R10 Fish r.; pellet above.
1. 3.53 7 *Formerly Virzi (625).
 2. 3.41 11 Berlin (unknown provenance).
 3. 3.35 1 New York (1944.100.8242, Newell), *SNG ANS* 1059.
 4. 3.25 Paris, Delepierre.
 5. 3.22 Private collection, Calciati I, 82 mv 1. *Rev.* Pellet and claws double struck.
 6. 3.12 10 Cambridge (384.1936, Young); Sotheby 1896 (Bunbury), 301.
 7. 3.10 London (1947.6.6.967, Cameron).
 8. 3.03 1 Göttingen AS 95–14.
 9. 2.35 Agrigento (876), *SNG* 225.
 10. – *Formerly Moretti. (Ill. enl. x 1.5).
- Rev.* Thin crack between pellet and crab's shell: 1, 2, 6, 7, 10.

- 1002** O6 AK/PA; eagle I. Die of 1002–1003.
R11 Small crab; below fish r.; pellet below on r. side.
1. 4.11 Paris, Delepierre.
 2. 4.03 CNG 39, 1996, 262(b).
 3. 4.06 12 Berlin (Imhoof-Blumer 1900).

4. 4.00 11 Palermo (9559), Gàbrici 90, pl.1.37; Vassallo, pl. 3.3.
5. 3.99 9 Berlin (Löbbecke).
6. 3.99 Oxford (Baillol), *SNG* –.
7. 3.90 *MMAG 76, 1991, 124 (=Lafaille 1982.38); Auctiones 11, 1980, 31.
8. 3.82 London, *BMC* 114.
9. 3.82 Private collection, Calciati I, 83 mv 1.

Rev. Heavy die break on crab's shell and upper part of fish: 2, 6.

1003 O6
R12

Die of 1002–1003.

Small crab; below fat fish r.; pellet below fish.

1. 4.14 *London, *BMC* 113.
2. 3.97 12 New York (1941.131.397, Clapp), *SNG ANS* 1060.
3. 3.95 9 Berlin (Rauch).
4. 3.39 5 Copenhagen, *SNG* 84.

1004 O7
R13

AK/PA; eagle l. Die of 1004–1005.

Small square crab; claws close to crab's body; below large fish r.; pellet below fish. Die of 1004, 1006.

1. 4.12 10 Cambridge, *McClellan* 2086.
2. 4.12 12 Oslo.
3. 4.01 Cambridge (382.1936, Young).
4. 3.69 Formerly Moretti; Weber 1203 (acq, Rome 1883).
5. 3.65 1 *Hamburg, Kunsthalle (1922/27), Postel 32, pl. 3.
6. 2.73 12 Munich, *SNG* 151.

Rev. Flaw at bottom of crab's shell extending towards the fish: all.

1005 O7
R14

Die of 1004–1005.

Large fish l., pellet above.

1. 3.72 *Stockholm (101963, from Oslo Mynhandel 1991), *SNG* –.
2. 3.49 Astarte 11, 2002, 161. *Obv.* Tooled.
3. 3.39 12 Pennisi.

1006 O8
R13

AK/PA; eagle r.

Die of 1004, 1006. Same flaw.

1. – *Formerly Moretti. *Rev.* Poorly preserved.

Gold Coinage

First series. Gold tetradrachms

Obv. dies 4; *rev.* dies 6.

- 1007** O1 AKP above; eagle with closed wings and lowered head standing l. on a pile of rock striking at a coiling snake; below dolphin l.; linear border. Die of 1007–1012.
- R1 Crab with thin outstretched legs and small pincers; below dolphin l.
1. 1.35 1 Paris, Luynes 845.
 2. 1.32 *Boston (04.429), Baldwin Brett 236; Warren 197.
 3. 1.31 11 MMAG 68, 1986, 100: Hess-Leu 28, 1965, 52; Naville I Pozzi 1921, 386.
 4. 1.31 *CNG/NAC 40, 1996, 729; formerly Moretti and de Ciccio; Boehringer, *Essays Thompson*, pl. 38A.
- 1008** O1 Die of 1007–1012.
- R2 Similar crab with eyes in deep recesses; dotted legs; below larger dolphin l. Die of 1008–1010.
1. 1.39 7 Pennisi; Rizzo pl. 3.9.
 2. 1.32 8 *London (1907.341); Sangiorgi 15.4.1907, 1288; Jenkins, *AGC*, fig. 340 (*obv.*). Enl. x 2 (*obv.*).
- 1009** O1¹ Same die but two large pellets added below eagle. Die of 1007–1012.
- R2 Die of 1008–1010.
1. 1.36 Feuardent 26.5.1914, 100; Sotheby 13.6.1911, 17.
 2. 1.33 1 *London, Lloyd *SNG* 816; Naville I Pozzi, 1921, 387: Sambon 31.5.1881, 727.
- 1010** O1¹ Die of 1007–1012.
- R2¹ Same die with two pellets added below dolphin. Die of 1008–1010.
1. 1.35 11 *Paris, Luynes 843.
 2. 1.35 12 *Leu 48, 1989, 36; formerly Pennisi. Enl. x 2.
- Rev.* Thin die breaks below crab: 2.

- 1011** O1¹
R3 Die of 1007–1012.
Crab's shell has curved upper outline and broad bottom; short claws; legs pointing downwards; below ΣΙΑΛΑΝΟΣ in two lines; double linear border (not always visible).
1. 1.36 11 Oxford (Oman 1947), *SNG* –.
 2. 1.36 Sotheby 4.5.1908, 106; do. 15.3.1897, 41.
 3. 1.35 Copenhagen, *SNG* 52 (acq. Rollin & Feuardenet 1877).
 4. 1.35 6 Berlin 309/1875. Somewhat reddish.
 5. 1.35 9 *Stockholm, *SNG* 378.
 6. 1.35 12 Harvard, Dewing 570 (acq. 1948).
 7. 1.34 5 London, Lloyd *SNG* 815 (ex. Evans); Weber 1195; Jenkins, *AGC*, fig. 341 (*rev*); Rutter, *Italy and Sicily*, fig. 164.
 8. 1.34 6 *Harvard, Dewing 571 (acq. Spink's 1954).
 9. 1.34 G. Hirsch 196, 1997, 6 (1.38); Hirsch in stock 1950s (ex. de Ciccio); Schulman 231, 1958, 3614; *Ars Classica* 17, 1934, 124; Boehringer, *Essays Thompson*, pl. 38.B.
 10. 1.34 Cambridge, *McClellan* 2039, pl. 65.9.
 11. 1.34 Merzbacher 2.11.1909, 2432.
 12. 1.33 6 Budapest (Inv.Dess.III.665), *SNG* I:3, 25; Hirsch 20, 1907, 105; do. 14, 1905, 157.
 13. 1.33 Schulman 30.3.1936, 27; Merzbacher 15.11.1910, 192.
 14. 1.33 MMAG list 500, 1987, 2; Hess 257, 1986, 47.
 15. 1.33 NFA, Fall MB 1990, 470; Hess-Leu 31, 1966, 96; Santamaria 6.4.1908, 136.
 16. 1.33 Vinchon 24.11.1994, 12.
 17. 1.32 Boston (00.94), Baldwin Brett 237.
 18. 1.32 Glendining 24.11.1950, 1487; Ratto 4.4.1927, 325; Naville 5, 1923, 826 (ex. Payne-Knight).
 19. 1.32 Paris, Luynes 844 (ex. Dupré).
 20. 1.32 St. Petersburg (3877.16e).
 21. 1.32 2 Tübingen, *SNG* 562.
 22. 1.32 MMAG 25, 1962, 402.
 23. 1.32 11 G. Hirsch 171, 1991, 70; de Nicola list Dec. 1950, 109.
 24. 1.32 CNG 26, 1993, 21; NFA 2, 1976, 35.
 25. 1.31 *NFA 29, 1992, 18; MMAG 75, 1989, 123; Spink 40, 1984, 203; do. 15.5.1981, 19; Hess 249, 1979, 59; Leu 13, 1975, 39. Enl. x 2.
 26. 1.29 CNG 39, 1996, 264; *Ars Classica* 15, 1930, 270; Egger 40, 1912, 308; Cahn stock cat. 24, 1912, 241.
 27. 1.26 London, *BMC* 2.
 28. 1.24 CN Auctions 16, 1991, 37.

- 1012** O1¹ Same die with thin fracture between eagle and snake. Die of 1007–1012.
- R4 Similar crab; below ΣΙΑΛΑΝΟΣ; linear border.
1. 1.33 5 *Paris (FG 78), *RN* 1907, p. 522, no. 116, pl. 17.
- 1013** O2 AKPA; similar eagle; snake placed lower; smaller pellets; linear border.
- R5 Similar crab; below same name; linear border.
1. 1.37 *NAC 18, 2000, 66.
2. 1.36 MMAG 37, 1968, 69.
3. 1.35 5 Lisbon, *Gulbenkian* 171; Sambon 14.3.1923, 240.
4. 1.35 6 New York (1944.100.8216, Newell), *SNG ANS* 998; Chapman June 25, 1912, 1.
5. 1.35 10 NAC 27, 2004, 68; do. 8, 1995, 117; formerly New York, Metropolitan Museum, Ward 138; Sotheby 4.4.1973, 113; do. 15.6.1896, 259.
6. 1.34 Morcom, *SNG* – (acq. Baldwin 1969).
7. 1.34 2 Brussels, Du Chastel 24.
8. 1.34 6 *Ars Classica* 17, 1934, 123; Sotheby 21.6.1990, 221.
9. 1.33 Vinchon 30.6.1978, 21; do. 27.2.1961, 53; *Ars Classica* 14, 1929, 83.
10. 1.33 Dresden.
11. 1.33 Glasgow, *Hunter* 24, pl. 11.14.
12. 1.33 Burgan 23.12.1991, 4; Sotheby 9.6.1983, 24; Naville I Pozzi 1921, 385, Gisecke, *SN*, pl. 6.7.
13. 1.32 1 Pennisi.
14. 1.32 Ciani-Vinchon 6.2.1956, 169; Feuardent 11.6.1913. 52.
15. 1.32 Bourgey 18.11.1957, 18.
16. 1.32 4 Budapest (15A, 1918.9), *SNG* I.3, 26; Hirsch 20, 1907, 104.
17. 1.31 6 *Oxford, *SNG* 1675; Lockett, *SNG* 714; Glendining 25.10.1955, 595; Naville 5, 1923, 825; Kraay, *ACGC*, pl. 46.796.
18. 1.31 New York (1997.062, Leggett); Spink 65, 1988, 11; Hirsch 33, 1913, 297.
19. 1.30 4 Berlin (Löbbecke 1906).
20. 1.30 4 Milan, Arslan 39.
21. 1.29 4 Hess-Leu 27.3.1956, 69.

- 1014 O3** AKPA above; similar eagle; snake strongly curved and appearing from below; two pellets on the pile of stone. Linear border.
- R6** Similar crab; below same name. Die of 1014–1015.
1. 1.45(sic!) Münzhandlung Basel 10, 1938, 87.
 2. 1.40 *NFA 16, 1985, 37. Enl. x *c.*3½ (*obv.*)
 3. 1.40 Ciani 20.2.1935, 60.
 4. 1.35 6 New York (1957.172.516, H. Miller), *SNG ANS* 999; Bourgey 7.6.1909, 121; Sambon-Canessa 24.3.1902, 391 (pl. 4.8).
 5. 1.35 Private collection X; Baranowski stock cat. 1934:3, 4609.
 6. 1.35 Sambon-Canessa 27.6.1927, 631.
 7. 1.35 *NFA 10, 1981, 30; Platt 26.3.1922, 200. Enl. x 2.
 8. 1.35 MMAG 66, 1984, 23; Santamaria stock cat. 7, 1934, 73.
 9. 1.35 Peus 250, 1954, 118; Hess 236, 1939, 219; Hamburger 27.5.1929, 113.
 10. 1.35 Santamaria 12.10.1949, 276; Rosenberg 72, 1932, 161; Hamburger 11, 1909, 295; Hirsch 21, 1908, 538.
 11. 1.35 1 Stack's 10.6. 1997, 3; NAC 9, 1996, 137; Santamaria 24.1. 1938, 78; formerly Moretti; Boehringer, *RBN*, pl. 6.B2.
 12. 1.35 3 Vienna; Salinas 202, pl. 8.21.
 13. 1.34 5 Berlin (Fox 1873, ex. Pembroke 489).
 14. 1.34 12 Harvard, Dewing 569 (acq. Catania 1930).
 15. 1.34 NAC-O, 2004, 1488; Elsen 36, 1994, 71; do. 30, 1993, 24; do. list 111, 1988, 14; do. list 90, 1986, 137; Vinchon 14.4.1984, 24.
 16. 1.34 3 Coburg.
 17. 1.34 Hirsch stock cat. 1930, 35; Hess 194, 1929, 121; do. 155, 1917, 285.
 18. 1.34 9 *Sotheby 7.5.1975, 39; MMAG 7, 1948, 391; Jameson 507.
 19. 1.34 MMAG 79, 1994, 98
 20. 1.34 Private collection X; Ratto 26.4.1909, 1096.
 21. 1.33 Syracuse, Gagliardi (1132).
 22. 1.33 Glendining 27.5.1936, 10; Cahn 84, 1933, 112.
 23. 1.32 Glendining 10.12.1986, 62; *Ars Classica* 16, 1933, 431, Hirsch 15, 1906, 908; Sotheby 8.5.1916, 119.
 24. 1.32 5 Triton 5, 2002, 1162; Leu 36, 1985, 38; Bourgey 5.12.1932, 63.
 25. 1.32 6 Leu 72, 1998, 61; Hess 253, 1982, 65; Platt 13.12.1931, 163; Feuardent 8.7.1919, 134; Merzbacher 15.11.1910, 220.

26. 1.32 G. Hirsch 196, 1997, 5; do.79, 1972, 17; MMAG 10, 1951, 190.
 27. 1.32 12 Munich, *SNG* 88.
 28. 1.32 2 *Leu 76,1999,25 (ex. Gillet); MMAG 64, 1984, 24; Hess 7.3.1935, 2; Münzhandlung Basel 4, 1935, 418; *Ars Classica* 16, 1933, 430; Naville 6, 1923, 342; Manganaro, *SNR*, pl. 1.6.
 29. 1.32 Triton 6, 2003, 94.
 30. 1.31 *Ars Classica* 17, 1934, 125.
 31. 1.31 MMAG 54, 1978, 83.
 32. 1.31 6 Utrecht.
 33. 1.30 Lanz 34, 1985, 66; SKA 3, 1985, 96.

Obv. Flaw at eagle's tail: all.

Rev. Flaw at the edge, l. side: 8, 9, 11, 12, 28, 33.

1015 O4

AKPA above; eagle standing r. on smaller pile of rocks; snake forms a long curved line over the rocks, ending below eagle's tail, its head coiling up very close to eagle's head; two pellets on rocks.

R6

Die of 1013–1014.

1. 1.35 Hirsch 26, 1910, 57.
 2. 1.34 6 Cambridge, *SNG* IV, 916; Leake, *NH*, Sicily, p. 48.1.
 3. 1.34 2 Cambridge, *McClean* 2040, pl. 65.10
 4. 1.34 6 Peus 355, 1998, 639; NAC 10, 1997, 96; formerly Moretti and Pennisi; Rizzo, pl. 3.8.
 5. 1.33 3 Berlin (Imhoof-Blumer 1900).
 6. 1.33 SKA list 38, 1982, 39; Canessa 28.6.1923, 7.
 7. 1.33 (?) *Leu 86, 2003, 266; do.15, 1976, 54; MMAG list 529, 1990, 2; Vinchon Oct. 1989, 2; Nanteuil 260; Hirsch 29, 1910, 69; Sotheby 20.7.1914,6. The weight recorded for this piece ranges from 1.39 to 1.29. Enl. x 2.
 8. 1.32 7 London (ex. Seltman); *BM Guide*, no. 24, pl. 14.
 9. 1.32 12 Syracuse (14523, acq. from Sortino in 1894); Manganaro, *L'or perse*, pl. 4.9.
 10. 1.31 Hess-Leu 4.6.1963, 18.
 11. 1.31 Pierpont Morgan, p. 6. no. 10; Sambon 19.12.1907, 76.
 12. 1.30 4 Budapest, *SNG* I.3, 27; Hirsch 20, 1907, 106; do. 14, 1905, 158.
 13. 1.30 Syracuse, Gagliardi (1131).
 14. 1.30 NAC 8, 1995, 118 (ex. Gillet).
 15. 1.30 1 Syracuse (4929, acq. from Sortino in 1885); Stazio, *Sikanie*, fig. 70.

Obv. Several thin cracks all over the surface, especially nos. 4, 5, 8, 15.
Rev. There is no flaw at the edge, l. side, on any of these pieces. Thus R6 must have been used simultaneously with the two obverses, O3 and O4.

Second series. Gold 1½ tetradrachms

Obv. dies 2; *rev.* die 1

- 1016** O5 AKΡΑΓΑΝΤΙΝΟΝ around edge; eagle r. with open wings holding hare, turned r., resting on a pile of stones; hare's forelegs wide apart, pointing upwards.
 R7 Crab with stiff legs, pointing downwards; small claws; below fat fish (perch) l. Die of 1016–1017.
 1. 1.74 5 *London (1956), Sicily 1956 hoard; Hess-Leu 27.3.1956, 66; *NC* 1959, p. 25, pl. 5.4; Jenkins, *AGC*, figs. 338–339; Boehringer, *Essays Thompson*, pl. 38.C; Boehringer, *RBN*, pl. 7.E14; Manganaro, *L'or perse*, pl. 4.12. Enl. x 2.
- 1017** O6 AKΡΑΓΑΣ; eagle r. on hare as last.
 R7 Die of 1016–1017.
 1. 1.75 7 *Paris, Luynes 846.

DIE PLANS

Period I

Didrachms

Group I. Die plan

Hoards: G=Gela; Co=Comiso; MB=Monte Bubbonia; Casulla

Co	(1) O1	R1
	(2) O2	R1
	(3) O2 ¹	R1
Co	(4) O3	R1
G	(5) O3	R2
	(6) O3	R3
MB	(7) O3	R4
MB	(8) O3	R5
G (2)	(9) O4	R5
	(10) O5	R6
G	(11) O6	R6
G (2)	(12) O7	R6
	(13) O7 ¹	R7
G, Co, MB	(14) O8	R8
	(15) O9	R8
G	(16) O9	R9
	(17) O9	R6
G	(18) O9	R10
G (3), Co, MB	(19) O10	R10
G (3), MB	(20) O10	R11
G	(21) O10	R uncertain
G (2)	(22) O11	R12
	(23) O11 ¹	R10
	(24) O12	R12 ¹
	(25) O12 ¹	R13
	(26) O12 ¹	R14
	(27) O12 ¹	R15

G	(28) O13	R13
G	(29) O14	R13
	(30) O14	R16
G, MB (2)	(31) O15	R16
	(32) O16	R15
G (2)	(33) O16	R17
G (2), MB	(34) O17	R18
G (3)	(35) O18	R18
	(36) O18	R19
G, MB	(37) O18	R16
	(38) O19	R19
	(39) O20	R19
G (3), Co (2 ex.), MB	(40) O20	R18
G (2)	(41) O20	R20
G (2)	(42) O21	R21
G (2), MB	(43) O21	R20
G	(44) O22	R21
Co	(45) O22	R20
G (2), MB	(46) O23	R22
	(47) O24	R22
	(48) O24	R23
	(49) O25	R23
G	(50) O25	R24
G	(51) O25	R25
Co	(52) O25	R26
Co	(53) O25	R27
G, MB	(54) O26	R27
G	(55) O26	R28
G	(56) O26	R29
Co (2)	(57) O27	R30
G	(58) O27	R25
G	(59) O27	R31
	(60) O27	R32
MB	(61) O27	R33
	(62) O28	R33
	(63) O28	R34
G (2)	(64) O28	R35
G (2)	(65) O28	R36
	(66) O28	R32

G, Co	(67) O29	R37
G	(68) O29	R35
G	(69) O29	R36
G	(70) O29	R38
	(71) O29	R39
G	(72) O29	R40
	(73) O30	R40
	(74) O31	R41
	(75) O31	R42
G (3)	(76) O32	R43
G, MB	(77) O32	R44
G (2)	(78) O33	R45
G	(79) O33	R46
MB	(80) O33	R47
G	(81) O33	R43
	(82) O34	R46
G (2), MB (2)	(83) O35	R48
G	(84) O36	R49
G (2)	(85) O36	R49 ¹
G	(86) O36	R50
G, MB	(87) O36	R51
G (4), MB	(88) O37	R52
G (3), Co	(89) O37	R53

Group I. Die plan arranged to show linkage of dies

(1) O1-----R1-----	O2 (2-3)-----	O3 (4)
(5) O3-----R2		
(6) O3-----R3		
(7) O3-----R4		
(8) O3-----R5-----	O4 (9)	
(10) O5 -----R6-----	O6 (11) -----	O7 (12)-----
	R7-----	O7 (13)
(14) O8-----R8-----	----- O9 (15)	
	R9-----	O9 (16)
(19) O10-----R10 -----	O11 (23)-----	O9 (18)
(20) O10-----R11		
(21) O10-----R uncertain		
	R12 -----	O11 (22)-----
		O12 (24)

- (28) O13-----R13 ----- O14 (29)-----O12¹ (25)
 R14 -----O12¹ (26)
 R15 -----O12¹ (27)----- O16 (32)
 R16 ----- O14 (30)-----O15 (31) ----- O18 (37)
- (33) O16-----R17
- (34) O17-----R18 ----- O20 (40)-----O18 (35)
- (38) O19-----R19 ----- O20 (39)-----O18 (36)
- (45) O22-----R20 ----- O20 (41)-----O21 (43)
- (44) O22-----R21 -----O21 (42)
-
- (46) O23-----R22 ----- O24 (47)
- (49) O25-----R23 ----- O24 (48)
- (50) O25-----R24
- (51) O25-----R25 ----- O27 (58)
- (52) O25-----R26
- (53) O25-----R27 ----- O26 (54)
 R28 ----- O26 (55)
 R29 ----- O26 (56)
 R30 ----- O27 (57)
 R31 ----- O27 (59)
- (66) O28-----R32 ----- O27 (60)
- (62) O28-----R33 ----- O27 (61)
- (63) O28-----R34
- (64) O28-----R35 ----- O29 (68)
- (65) O28-----R36 ----- O29 (69)
 R37 ----- O29 (67)
 R38 ----- O29 (70)
 R39 ----- O29 (71)
- (73) O30-----R40 ----- O29 (72)
-
- (74) O31-----R41
- (75) O31-----R42
-
- (76) O32-----R43 ----- O33 (81)
- (77) O32-----R44
- (78) O32-----R45
- (82) O34-----R46 ----- O33 (79)
 R47 ----- O33 (80)

(83) O35-----R48

(84) O36-----R49

(85) O36-----R49¹

(86) O36-----R50

(87) O36-----R51

(88) O37-----R52

(89) O37-----R53

Group II. Die plan

Hoards: G=Gela; Co=Comiso; MB=Monte Bubbonia; Casulla

Co	(90) O38	R54
G	(91) O39	R55
G, Co	(92) O39	R56
G	(93) O40	R56
Co	(94) O40	R57
	(95) O40	R58
	(96) O40	R59
Co	(97) O40	R60
	(98) O41	R60
G, MB	(99) O41	R61
G, Casulla	(100) O42	P59
G	(101) O42	R62
	(102) O43	R63
MB	(103) O43	R64
	(104) O44	R64
	(105) O44	R65
	(106) O45	R64
MB	(107) O45	R65
G	(108) O45	R66
G (2), MB	(109) O46	R66
MB (2)	(110) O46	R67
G (3)	(111) O46	R68

	(112) O47	R69
	(113) O47	R70
G	(114) O48	R70
G, Co	(115) O48	R71
	(116) O48	R72
G, Casulla	(117) O49	R73
G, Co	(118) O49	R74
G	(119) O50	R74
G (3)	(120) O50	R75
	(121) O50	R76
G	(122) O51	R76
G (5)	(123) O51	R77
G	(124) O51	R78
	(125) O51	R79
MB	(126) O52	R79
	(127) O52	R77
G (5), MB	(128) O52	R80
G (4)	(129) O52	R81
G (2)	(130) O53	R82
G (2)	(131) O54	R83
G (2), Co	(132) O54	R84
G (2), Co, BM, Casulla	(133) O54	R85
	(134) O55	R83
Co	(135) O55	R86
	(136) O56	R87
G	(137) O56	R88
MB (2)	(138) O56	R89
	(139) O56	R86
G (2)	(140) O56	R90
	(141) O57	R87
G (4)	(142) O57	R91
	(143) O57	R92
G, BM	(144) O58	R93
	(145) O58	R94
	(146) O58	R95

G, Co	(147) O59	R95
G (2)	(148) O59	R96
	(149) O60	R97
G	(150) O61	R98
	(151) O62	R99
	(152) O63	R99
G	(153) O64	R100

Group II. Die plan arranged to show linkage of dies

(90) O38-----R54

(91) O39-----R55

(92) O39-----R56 ----- O40 (93)

R57 ----- O40 (94)

R58 ----- O40 (95)

R59 ----- O40 (96)-----O42 (100)

(98) O41-----R60 ----- O40 (97)

(99) O41-----R61

R62 -----O42 (101)

(102) O43 -----R63

(103) O43 -----R64 ----- O44 (104) -----O45 (106)

R65 ----- O44 (105) -----O45 (107)

R66 ----- O46 (109) -----O45 (108)

R67 ----- O46 (110)

R68 ----- O46 (111)

(112) O47 -----R69

(113) O47 -----R70 ----- O48 (114)

R71 ----- O48 (115)

R72 ----- O48 (116)

- (117) O49 ----- R73
(118) O49 ----- R74 ----- O50 (119)
 R75 ----- O50 (120)
(122) O51 ----- R76 ----- O50 (121)
(123) O51 ----- R77 ----- O52 (127)
(124) O51 ----- R78
(125) O51 ----- R79 ----- O52 (126)
 R80 ----- O52 (128)
 R81 ----- O52 (129)
- (130) O53 ----- R82
- (131) O54 ----- R83 ----- O55 (134)
(132) O54 ----- R84
(133) O54 ----- R85
(139) O56 ----- R86 ----- O55 (135)
(136) O56 ----- R87 ----- O57 (141)
(137) O56 ----- R88
(138) O56 ----- R89
(140) O56 ----- R90
 R91 ----- O57 (142)
 R92 ----- O57 (143)
- (144) O58 ----- R93
(145) O58 ----- R94
(146) O58 ----- R95 ----- O59 (147)
 R96 ----- O59 (148)
- (149) O60 ----- R97
- (150) O61 ----- R98
- (151) O62 ----- R99 ----- O63 (152)
- (153) O64 ----- R100

Group III. Die plan

Hoards: G=Gela; Co=Comiso; MB=Monte Bubbonia; Casulla

MB	(154) O65	R101	
	(155) O65	R102	
	(156) O65	R103	
G	(157) O66	R104	
	(158) O66	R105	
G (2), MB	(159) O67	R106	
G (3), Co	(160) O67	R107	
	(161) O67	R108	
G (2)	(162) O67	R109	
G (2), Co	(163) O67	R110	
G (6), MB	(164) O68	R111	
Co	(165) O68	R110	
G (6), MB	(166) O68	R112	
G (6)	(167) O68	R113	
	(168) O68	R114	
	(169) O69A	R115	
	(170) O69	R113	
G (5), Co	(171) O69	R114	
G (2), Co, MB	(172) O69	R116	
G (2)	(173) O69	R117	
G (2)	(174) O69	R118	
G (2), Co (2), MB	(175) O69	R119	
	(176) O69	R120	
G	(177) O69	R121	
G (5), Co	(178) O69	R122	
G(2), MB(2)	(179) O70	R122	
G	(180) O70	R123	
G (4)	(181) O70	R124	
G (6), MB	(182) O70	R125	
G (8), Co	(183) O70	R126	
G (2), Co	(184) O70	R127	
	(185) O70	R128	<i>Corn grain</i>
G	(186) O71	R127	
G (24)	(187) O71	R129	
G (22), MB	(188) O71	R130	<i>Bird</i>

G (8)	(189) O71	R128	<i>Corn grain</i>
G	(190) O71	R131	
	(191) O72	R127	
Co	(192) O72	R130	<i>Bird</i>
G (6), MB	(193) O72	R128	<i>Corn grain</i>
	(194) O72	R131	
G	(195) O72	R132	
G (11), Co	(196) O72	R133	
G	(197) O73	R123	
G (4), Co (3)	(198) O73	R124	
G (5)	(199) O73	R134	
G (4), Co, MB (4)	(200) O73	R135	<i>Helmet l.</i>
G (3)	(201) O73	R136	<i>Helmet l.</i>
G	(202) O74	R136	<i>Helmet l.</i>
Casulla	(203) O74	R137	<i>Helmet l.</i>
G (4), MB	(204) O74	R138	
G (6), MB	(205) O75	R131	
G (4)	(206) O75	R135	<i>Helmet l.</i>
G	(207) O75	R140	
G (4)	(208) O75	R141	
G (5)	(209) O75	R142	
G	(210) O75	R143	
Casulla	(211) O75	R138	
G (16), MB	(212) O75	R144	
	(213) O76	R137	<i>Helmet l.</i>
G, MB	(214) O76	R138	
G (7), Co (3), Casulla	(215) O76	R140	
G (4), Co	(216) O76	R141	
G (4), Co (2)	(217) O76	R143	
G (3), Co	(218) O76	R142	
G (2), MB	(219) O77	R145	
G (34), Co	(220) O77	R146	
G (2)	(221) O77	R147	<i>End of Gela hoard</i>
	(222) O77	R148	
Co, MB	(223) O78	R148	
Co (2)	(224) O78	R149	<i>Helmet r.</i>
Co, MB	(225) O78	R150	
	(226) O78	R151	

Co	(227) O79	R152
Co, Casulla	(228) O79	R153
Co, Casulla	(229) O79	R154
	(230) O79	R155
	(231) O80	R155
	(232) O80	R156
Co	(233) O80	R157
MB (2)	(234) O81	R158
MB	(235) O82	R158
Co	(236) O82	R159
MB	(237) O82	R160

Group III. Die plan arranged to show linkage of dies

(154) O65 -----	R101
(155) O65 -----	R102
(156) O65 -----	R103
(157) O66 -----	R104
(158) O66 -----	R105
(159) O67 -----	R106
(160) O67 -----	R107
(161) O67 -----	R108
(162) O67 -----	R109
(163) O67 -----	R110----- O68 (165)
	R111----- O68 (164)
	R112----- O68 (166)
(170) O69 -----	R113----- O68 (167)
(171) O69-----	R114----- O68 (168)
	R115----- O69A (169)
(172) O69 -----	R116
(173) O69 -----	R117
(174) O69 -----	R118
(175) O69 -----	R119
(176) O69 -----	R120
(177) O69 -----	R121

(178) O69 -----R122----- O70 (179)
 R123----- O70 (180) -----O73 (197)
 R124----- O70 (181) -----O73 (198)
 R125----- O70 (182)
 R126----- O70 (183)
 (186) O71 -----R127----- O70 (184) -----O72 (191)
 (189) O71 -----R128----- O70 (185) -----O72 (193)
 (187) O71 -----R129
 (188) O71 -----R130-----O72 (192)
 (190) O71 -----R131----- O75 (205) -----O72 (194)
 R132-----O72 (195)
 R133-----O72 (196)
 R134-----O73 (199)
 R135----- O75 (206) -----O73 (200)
 R136-----O73 (201)-----O74 (202)
 (213) O76 R137-----O74 (203)
 (214) O76 R138----- O75 (211) -----O74 (204)
 R139 does not exist!
 (215) O76 -----R140----- O75 (207)
 (216) O76 -----R141----- O75 (208)
 (218) O76 -----R142----- O75 (209)
 (217) O76 -----R143----- O75 (210)
 R144----- O75 (212)

 (219) O77 -----R145
 (220) O77 -----R146
 (221) O77 -----R147
 (222) O77 -----R148----- O78 (223)
 R149----- O78 (224)
 R150----- O78 (225)
 R151----- O78 (226)

 (227) O79 -----R152
 (228) O79 -----R153
 (229) O79 -----R154
 (230) O79 -----R155----- O80 (231)
 R156----- O80 (232)
 R157----- O80 (233)

 (234) O81 -----R158----- O82 (235)
 R159----- O82 (236)
 R160----- O82 (237)

Group IV. Die plan

Hoards: Co=Comiso; MB=Monte Bubbonia; Casulla; PdiP=Passo di Piazza

MB (2), Co (2) Casulla, PdiP	(238) O83	R161	<i>Letter A</i>
Co, MB, PdiP	(239) O83	R162	<i>Letter A</i>
Co (2)	(240) O83	R160	
	(241) O83	R163	
Casulla	(242) O83	R164	
MB	(243) O84	R160	
Co	(244) O84	R165	
Co	(245) O84	R166	
MB (2), Co (2), PdiP	(246) O84	R167	<i>End of PdiP hoard</i>
	(247) O84	R168	
MB	(248) O84	R169	
Co, MB, Casulla	(249) O84 ¹	R170	
	(250) O85	R171	
Casulla	(251) O86	R172	
	(252) O86	R173	
Co (3), MB	(253) O86	R174	
MB	(254) O86	R175	
Co (2), MB	(255) O86	R176	
Co	(256) O86	R177	
	(257) O87	R175	
	(258) O87	R177	
MB, Casulla	(259) O87	R178	<i>Head r.</i>
	(260) O87	R179	<i>Head r.</i>
	(261) O87	R180	<i>Corn grain</i>
Co, MB, Casulla (2)	(262) O87 ¹	R181	<i>Corn grain</i>
	(263) O88	R180	<i>Corn grain</i>
	(264) O88	R182	<i>Corn grain</i>
Casulla	(265) O88	R183	
	(266) O88	R181	<i>Corn grain</i>
Co	(267) O88	R184	
	(268) O88	R185	

Co	(269) O89	R182	<i>Corn grain</i>
	(270) O89	R181	<i>Corn grain</i>
	(271) O89	R185	
	(272) O89	R186	<i>Corn grain</i>
Co	(273) O89	R187	<i>Head r.</i>
	(274) O89	R188	<i>Corn grain</i>
Co(2)	(275) O90	R189	<i>Head r.</i>
	(276) O90	R184	
	(277) O90	R190	
	(278) O90	R191	
MB	(279) O90	R192	<i>End of MB hoard</i>
Co	(280) O90	R193	
Co	(281) O90	R194	
Casulla	(282) O90	R195	
Casulla (2)	(283) O91	R187	<i>Head</i>
Co	(284) O91	R191	
	(285) O91	R184	
	(286) O91	R192	
	(287) O91	R193	
Co	(288) O92	R193	<i>End of Comiso hoard</i>
	(289) O92	R194	
	(290) O92	R195	
Casulla	(291) O92	R196	
Casulla	(292) O93	R194	<i>End of Casulla hoard</i>
	(293) O93	R197	
	(294) O93	R198	<i>Head</i>
	(295) O93 ¹	R199	
	(296) O94	R200	

Group IV. Die plan arranged to show linkage of dies

(238) O83 -----R161
 (239) O83 -----R162
 (240) O83 -----R160----- O84 (243)
 (241) O83 -----R163
 (242) O83 -----R164
 R165----- O84 (244)
 R166----- O84 (245)
 R167----- O84 (246)
 R168----- O84 (247)
 R169----- O84 (248)
 R170----- O84¹ (249)

(250) O85 -----R171

(251) O86 -----R172
 (252) O86 -----R173
 (253) O86 -----R174
 (254) O86 -----R175----- O87 (257)
 (255) O86 -----R176
 (256) O86 -----R177----- O87 (258)
 R178----- O87 (259)
 R179----- O87 (260)

(263) O88 -----R180----- O87 (261)
 (266) O88 -----R181----- O87¹ (262)-----O89 (270)
 (264) O88 -----R182-----O89 (269)
 (265) O88 -----R183

(267) O88 -----R184----- O90 (276) ----- O91 (285)
 (268) O88 -----R185-----O89 (271)
 R186-----O89 (272)
 R187-----O89 (273)----- O91 (283)
 R188-----O89 (274)
 R189----- O90 (275)
 R190----- O90 (277)
 R191----- O90 (278) ----- O91 (284)
 R192----- O90 (279) ----- O91 (286)

(288) O92 -----R193----- O90 (280) ----- O91 (287)
 (289) O92 -----R194----- O90 (281) -----O93 (292)

(290) O92 -----R195----- O90 (282)
 (291) O92 -----R196
 R197-----O93 (293)
 R198-----O93 (294)
 R199-----O93' (295)
 R200----- O94 (296)

No. 297 non est.

Period II. Die plans arranged to show linkage of dies

Tetradrachms Eagle/crab

Group I

(298) O1 --- R1 -----O2 (310)
 (313) O3----- (299) O1 --- R2
 (300) O1 --- R3
 (314) O3----- (301) O1 --- R4 -----O2 (311)
 (302) O1 --- R5
 (303) O1 --- R6 -----O2 (312)
 (315) O3----- (304) O1 --- R7 -----O2 (309)
 (316) O3----- (305) O1 --- R8
 (306) O1 --- R9
 (307) O1 --- R10-----O2 (308)
 R11-----O4 (317)
 R12-----O4 (318) ----- O6 (330)
 R13-----O4 (319)
 R14-----O4 (320) ----- O6 (329)
 R15-----O4 (321)
 R16-----O4 (322)
 (323) O5 --- R17
 (324) O5 --- R18
 (325) O5 --- R19
 (326) O5 --- R20
 R21-----O6 (327)

Group II

(346) O9-----	(331) O7 --- R22-----	O6 (328)
	(332) O7 --- R23	
(344) O9-----	(333) O7 --- R24	
	(334) O7 --- R25	
	(335) O7 --- R26-----	O8 (341)
	(336) O7 --- R27-----	O8 (337) ----- O10 (350)
	R28-----	O8 (338)
	R29-----	O8 (339)
	R30-----	O8 (340) ----- O10 (354)
(342) O9-----	R31	
(343) O9-----	R32	
(345) O9-----	R33-----	O10 (347)
	R34-----	O10 (348)
	(357) O11 -- R35-----	O10 (349)
	R36-----	O10 (351)
	R37-----	O10 (352)
	R38-----	O10 (353)
	(358) O11 -- R39-----	O10 (355)-----O12 (370)
	(359) O11 -- R40-----	O10 (356)
	(360) O11 -- R41	
	(361) O11 -- R42-----	O12 (371)
	(362) O11 -- R43-----	O12 (368)
	(363) O11 -- R44-----	O12 (373)
	(364) O11 -- R45-----	O12 (375)
	(365) O11 -- R46	
	(366) O11 -- R47	
(383) O13 -----	(367) O11 -- R48-----	O12 (381)
-----	R49-----	O12 (369)
-----	R50-----	O12 (372)
-----	R51-----	O12 (374)
-----	R52-----	O12 (376)
-----	R53-----	O12 (377)
-----	R54-----	O12 (378)
-----	R55-----	O12 (379)
-----	R56-----	O12 (380)

Group III

(382) O13	----- R57	----- O14 (394)	
(384) O13	----- R58	-----	<i>Dolphin</i>
(385) O13	----- R59	----- O14 (395)	<i>Spiral</i>
(386) O13	----- R60		
(387) O13	----- R61	----- O14 ¹ (406)	<i>Corn grain</i>
(388) O13	----- R62	-----	<i>Bird</i>
(389) O13	----- R63	----- O14 ¹ (403) ----- O15 (408)	
(390) O13	----- R64	-----	<i>Dolphin</i>
(391) O13	----- R65	----- O14 ¹ (404)	<i>Rose bud</i>
	R66	----- O14 (392)	
	R67	----- O14 (393)	<i>Dolphin</i>
	R68	----- O14 (396)	
	R69	----- O14 (397)	
	R70	----- O14 (398)	
	R71	----- O14 ¹ (399)	<i>Rose+spiral</i>
	R72	----- O14 ¹ (400) ----- O15 (413)	<i>Rose+spiral</i>
	R73	----- O14 ¹ (401)	<i>Rose+spiral</i>
	R74	----- O14 ¹ (402)	<i>Rose+spiral</i>
	R75	----- O14 ¹ (405) ----- O15 (411)	<i>Rose+spiral</i>
	R76	----- O14 ¹ (407) ----- O15 (412)	<i>Rose+spiral</i>
	R77	----- O15 (409)	<i>Rose+spiral</i>
	R78	----- O15 (410)	<i>Rose+spiral</i>
(419) O17	----- R79	----- O15 (414)	<i>Spiral</i>
	(416) O16 R80	----- O15 (415)	<i>Spiral</i>
	(417) O16 R81	-----	<i>Rose</i>
	(418) O16 R82		
(420) O17	----- R83	----- O18 (427)	<i>Spiral</i>
(421) O17	----- R84	----- O18 (426)	<i>Spiral</i>
(422) O17	----- R85	----- O18 (430)	<i>Nike</i>
(423) O17	----- R86		
(424) O17	----- R87	----- O18 (433)	
(425) O17	----- R88	----- O19 (434)	
	R89	----- O18 (428)	<i>Spiral</i>
	R90	----- O18 (429)	<i>Spiral</i>
	R91	----- O18 (431)	<i>Nike</i>
	R92	----- O18 (432)	
	(437) O20-- R93	----- O19 (435)	
(439) O20	R94	----- O19 (436)	<i>Rose (bud)</i>
(438) O20	R95	-----	<i>Nike</i>
(440) O20	R96	-----	<i>Star</i>

Smaller denominations

Didrachms Eagle/crab

(441) O1-----R1

(442) O1-----R2

(443) O1-----R3

Pentalitra

(444) O1-----R1

(445) O1-----R2----- O2 (446)

R2¹----- O2 (447)

Litrai

Series A

(448) O1-----R1----- O2 (451)-----O3 (452)

(449) O1-----R2----- O2 (450)

(453) O4-----R3

Series B.1 with AI

(454) O5-----R4

(455) O6-----R5

(456) O7-----R6

(457) O8-----R7

(458) O8-----R8----- O9 (460)----- O11 (463)

(459) O8-----R9----- O10 (462)----- O11 (464)

R10 ----- O9 (461)

R11 ----- O11 (465)

(467) O12 -----R12 ----- O11 (466)

(468) O12 -----R13 ----- O13 (469)

(470) O14 -----R14 ----- O15 (472)

(471) O14 -----R15 ----- O15 (473)

(474) O16 -----R16

(475) O17 -----R17
 (476) O18 -----R18
 (477) O19 -----R19
 (478) O20 -----R20 ----- O21 (480) -----O22 (481)----- O23 (482)
 (479) O20 -----R21 ----- O24 (483) -----O26 (487)
 R22 ----- O24 (484)
 (485) O25 -----R23
 (486) O25 -----R24
 R25 ----- O27 (489) -----O26 (488)
 R26 ----- O28 (490) -----O29 (491)
 (493) O31 -----R27 ----- O30 (493) -----O32 (495)----- O29 (492)
 (496) O33 -----R28
 (497) O34 -----R29
 (498) O35 -----R30
 (499) O36 -----R31
 (500) O37 -----R32
 (501) O38 R33
 (502) O39 R34
 (503) O40 -----R35
 R36 ----- O41 (504)

Series B.2 with IA

R37 ----- O41 (505)
 R38 -----O42 (506)----- O43 (507)-----O45 (509)
 R39 ----- O44 (508)
 R40 -----O46 (510)
 R41 -----O46 (511)
 R42 ----- O47 (512) ----- O48 (513)

Period III. Die plans arranged to show linkage of dies

Tetradrachms Eagle/Large Fish

(529) O1-R1

(530) O1-R2

Tetradrachms Eagle pair/Skylla

(531) O1-R1

(532) O1¹-R1¹

(533) O1¹-R1²

(534) O1¹-R2

(535) O1¹-R3

Hemidrachms

Series 1

(536) O1-----R1

(539) O3-----R2----- O2 (537)

R3----- O2 (538)-----O4 (541) ----- O5 (542)

(540) O3-----R4

(544) O6-----R5----- O5 (543)

(545) O6-----R6

(546) O7-----R7----- O8 (550)

(547) O7-----R8----- O8 (551)

(548) O7-----R9----- O8 (552)-----O9 (554)

(549) O7-----R10 ----- O8 (553)

R11 -----O9 (555)

(556) O10 -----R12

(557) O11 -----R13

(558) O11 -----R14

(559) O11 -----R15 ----- O12 (562)

(560) O11 -----R16
 (561) O11 -----R17 ----- O12 (563) -----O13 (567)
 (570) O15 R18 ----- O12 (564)
 R19 -----O13 (568)
 (571) O15 R20 ----- O12 (565) -----O14 (569)----- O16 (574)
 (572) O15 -----R21 ----- O12 (566)
 (573) O15 -----R22 ----- O17 (575)

Series 2

(576) O18 -----R23 ----- O19 (577)
 (579) O20 -----R24 ----- O19 (578)
 R25 ----- O21 (580)
 (581) O22 -----R26
 (582) O22 -----R27

Tetradrachms Quadriga/Eagle pair

Series 1

(583) O1-----R1
 (584) O1-----R2
 R3----- O2 (585)
 (586) O3-----R4
 R5----- O4 (587)
 (588) O5-----R6

Series 2

(589) O6-----R7
 (590) O6-----R8
 (591) O6-----R9----- O7 (592)
 R10 ----- O7 (593)
 R10¹ ----- O7 (594)
 R11 ----- O7 (595)
 R12 ----- O7 (596)

Dekadrachms

(597) O1-----R1
 (598) O1¹-----R2----- O2 (600)
 R3----- O2 (599)

Smaller denominations

Didrachms

(601) O1-----R1----- O2 (603)
 (602) O1¹-----R1

Litrai

(605) O1-----R1----- O2 (606)
 (607) O3-----R2
 (608) O3-----R3----- O4 (609)

Struck bronze coinage

Hemilitra

Series 1. Triton

(612) 1.O1 ---- 1.R1
 (613) 1.O2 ---- 1.R2
 (614) 1.O3 ---- 1.R2
 (615) 1.O4 ---- 1.R2
 (616) 1.O5 ---- 1.R3
 (617) 1.O6 ---- 1.R4
 (618) 1.O6 ---- 1.R5
 (619) 1.O7 ---- 1.R5

Series 2. Octopus

(620) 1.O2 ---- 2.R1
 (621) 1.O3 ---- 2.R2
 (622) 1.O3 ---- 2.R3
 (623) 1.O3 ---- 2.R4
 (624) 1.O4 ---- 2.R5
 (625) 1.O4 ---- 2.R6
 (626) 2.O1 ---- 2.R6
 (627) 2.O1 ---- 2.R7
 (628) 2.O1 ---- 1.R8
 (629) 2.O2 ---- 2.R7
 (630) 2.O3 ---- 2.R9
 (631) 2.O4 ---- 2.R10
 (632) 2.O5 ---- 2.R11
 (633) 2.O5 ---- 2.R12
 (634) 2.O6 ---- 2.R13
 (635) 2.O6 ---- 2.R14
 (636) 2.O7 ---- 2.R15
 (637) 2.O7 ---- 2.R16
 (638) 2.O8 ---- 2.R16
 (639) 2.O9 ---- 2.R17
 (640) 2.O10---- 2.R18
 (641) 2.O10---- 2.R19
 (642) 2.O11---- 2.R20
 (643) 2.O12---- 2.R21
 (644) 2.O13---- 2.R21
 (645) 2.O14---- 2.R22
 (646) 2.O15---- 2.R23
 (647) 2.O16---- 2.R23
 (648) 2.O16---- 2.R24
 (649) 2.O17---- 2.R25
 (650) 2.O17---- 2.R26
 (651) 2.O18---- 2.R25
 (652) 2.O18---- 2.R27
 (653) 2.O18---- 2.R28
 (654) 2.O18---- 2.R29
 (655) 2.O19---- 2.R30
 (656) 2.O20---- 2.R31
 (657) 2.O20---- 2.R32

(658) 2.O21 ---- 2.R32
 (659) 2.O22 ---- 2.R33
 (660) 2.O23 ---- 2.R33
 (661) 2.O23 ---- 2.R34
 (662) 2.O24 ---- 2.R34
 (663) 2.O25 ---- 2.R35
 (664) 2.O26 ---- 2.R35
 (665) 2.O27 ---- 2.R36
 (666) 2.O28 ---- 2.R37

Series 3. Leaf

(667) 3.O1 ---- 3.R1
 (668) 3.O1¹ ---- 3.R2
 (669) 3.O2 ---- 3.R3
 (670) 3.O2 ---- 3.R1
 (671) 3.O3 ---- 3.R4
 (672) 3.O3 ---- 3.R5
 (673) 3.O4 ---- 3.R4
 (674) 3.O5 ---- 3.R6
 (675) 3.O5 ---- 3.R7
 (676) 3.O6 ---- 3.R7
 (677) 3.O7 ---- 3.R8
 (678) 3.O8 ---- 3.R9
 (679) 3.O9 ---- 3.R10
 (680) 3.O10 ---- 3.R10
 (681) 3.O11 ---- 3.R11
 (682) 3.O11¹ --- 3.R12
 (683) 3.O12 ---- 3.R13
 (684) 3.O13 ---- 3.R14
 (685) 3.O14 ---- 3.R15
 (686) 3.O15 ---- 3.R16
 (687) 3.O16 ---- 3.R17
 (688) 3.O17 ---- 3.R17
 (689) 3.O17? --- 3.R18
 (690) 3.O18 ---- 3.R19
 (691) 3.O18 ---- 3.R20
 (692) 3.O19 ---- 3.R21
 (693) 3.O20 ---- 3.R21

(694) 3.O21 ---- 3.R21
 (695) 3.O21 ---- 3.R22
 (696) 3.O22 ---- 3.R23
 (697) 3.O23 ---- 3.R23
 (698) 3.O24 ---- 3.R23
 (699) 3.O25 ---- 3.R24
 (700) 2.O23 ---- 3.R25

Series 4. Shrimp

(701) 4.O1 ---- 4.R1
 (702) 4.O2 ---- 4.R2
 (703) 4.O3 ---- 4.R3
 (704) 4.O4 ---- 4.R4
 (705) 4.O4 ---- 4.R5
 (706) 4.O5 ---- 4.R6
 (707) 4.O5 ---- 4.R7
 (708) 4.O5 ---- 4.R8
 (709) 4.O5 ---- 4.R9
 (710) 3.O5 ---- 4.R10
 (711) 4.O6 ---- 4.R11
 (712) 4.O7 ---- 4.R12
 (713) 4.O8 ---- 4.R13
 (714) 4.O9 ---- 4.R14
 (715) 4.O9 ---- 4.R15
 (716) 4.O10 ---- 4.R15
 (717) 4.O11 ---- 4.R16
 (718) 4.O11 ---- 4.R17
 (719) 3.O11¹ --- 4.R18
 (720) 4.O12 ---- 4.R19
 (721) 4.O12 ---- 4.R20
 (722) 4.O12 ---- 4.R21
 (723) 4.O13 ---- 4.R21
 (724) 4.O13 ---- 4.R22
 (725) 4.O14 ---- 4.R20
 (726) 4.O14 ---- 4.R23
 (727) 4.O15 ---- 4.R23
 (728) 4.O16 ---- 4.R24
 (729) 4.O17 ---- 4.R24

(730) 4.O17----4.R25
 (731) 4.O18----4.R25
 (732) 2.O21----4.R26
 (733) 3.O15----4.R27
 (734) 3.O15----4.R28
 (735) 4.O19----4.R27
 (736) 4.O19----4.R28
 (737) 3.O16----4.R29
 (738) 2.O14----4.R30
 (739) 4.O20----4.R30
 (740) 4.O21----4.R31
 (741) 4.O22----4.R31
 (742) 4.O23----4.R32
 (743) 4.O24----4.R33
 (744) 4.O25----4.R33
 (745) 4.O25----4.R34
 (746) 4.O26----4.R34
 (747) 2.O20----4.R34
 (748) 2.O20----4.R35
 (749) 4.O27----4.R35
 (750) 4.O28----4.R36
 (751) 4.O29----4.R36
 (752) 4.O30----4.R37
 (753) 4.O30----4.R38
 (754) 2.O24----4.R39
 (755) 4.O31----4.R39
 (756) 4.O31----4.R40
 (757) 4.O32----4.R40
 (758) 4.O32----4.R41
 (759) 4.O33----4.R41
 (760) 4.O33----4.R42
 (761) 3.O22----4.R43
 (762) 3.O22----4.R44
 (763) 3.O22----4.R45.
 (764) 4.O34----4.R44
 (765) 4.O34----4.R46
 (766) 4.O34----4.R47
 (767) 4.O35----4.R47
 (768) 4.O36----4.R47

(769) 3.O23----4.R44
 (770) 3.O23----4.R47
 (771) 4.O37----4.R48
 (772) 4.O37----4.R49
 (773) 2.O25?---4.R50

Series 5. Hippocamp

(774) 2.O13----5.R1
 (775) 2.O13----5.R2
 (776) 2.O13----5.R3
 (777) 2.O13----5.R4
 (778) 5.O1----5.R5
 (779) 4.O3----5.R4
 (780) 4.O3----5.R6
 (781) 4.O3----5.R7
 (782) 5.O2----5.R7
 (783) 5.O2----5.R8
 (784) 5.O2----5.R9
 (785) 5.O3----5.R9
 (786) 5.O4----5.R10
 (787) 5.O5----5.R11
 (788) 4.O18----5.R12
 (789) 4.O17----5.R12
 (790) 5.O6----5.R13
 (791) 3.O25----5.R13
 (792) 5.O7----5.R14
 (793) 2.O21----5.R15
 (794) 2.O21----5.R16
 (795) 2.O21----5.R17
 (796) 2.O21----5.R18
 (797) 4.O24----5.R18
 (798) 4.O39----5.R19
 (799) 2.O24----5.R19
 (800) 2.O23----5.R19
 (801) 4.O34----5.R19

Tetrantes

(828) O16 ----- R26

(829) O16 ----- R27

(830) O16 ----- R28

Series A. *Obv.* Screaming eagle

(831) O16 ----- R29

(802) O1----- R1

(832) O16 ----- R30

(803) O1----- R2

(833) O17 ----- R30

(804) O1----- R3

(834) O18 ----- R31

(805) O1----- R4

(835) O18 ----- R32

(836) O19 ----- R31

(837) O19 ----- R33

Series B. *Obv.* Eagle grasping
snake

(838) O20 ----- R34

(806) O2----- R5

(807) O2----- R6

Series D. *Obv.* As last. *Rev.*

Shrimp

(839) O21 ----- R35

Series C. *Obv.* Eagle on hare. *Rev.*

(840) O22 ----- R36

Var. symbols

(841) O23 ----- R37

(808) O3----- R7

(842) O23 ----- R38

(809) O4----- R7

(843) O23 ----- R39

(810) O4----- R8

(844) O24 ----- R39

(811) O4----- R9

(845) O25 ----- R37

(812) O5----- R10

(846) O25 ----- R40

(813) O5----- R11

(847) O26 ----- R40

(814) O6----- R12

(848) O27 ----- R41

(815) O6----- R13

(849) O27 ----- R42

(816) O6----- R14

(850) O29 ----- R43

(817) O7----- R15

(851) O29 ----- R43A

(818) O8----- R16

(852) O30 ----- R43A

(819) O9----- R17

(853) O30 ----- R44

(820) O10 ----- R18

(854) O30 ----- R45

(821) O11 ----- R19

(855) O31 ----- R45

(822) O11 ----- R20

(856) O32 ----- R46

(823) O12 ----- R21

(857) O33 ----- R47

(824) O13 ----- R22

(858) O33?----- R48

(825) O14 ----- R23

(859) O33 ----- R49

(826) O15 ----- R24

(860) O34 ----- R50

(827) O16 ----- R25

(861) O35 ----- R51

(862) O36 ----- R52

(863) O37 -----R53
 (864) O37 -----R54
 (865) O38 -----R55
 (866) O38 -----R56
 (867) O38 -----R57
 (868) O38 -----R58
 (869) O38 -----R59
 (870) O38 -----R60
 (871) O38 -----R61
 (872) O39 -----R60
 (873) O39 -----R62
 (874) O40 -----R58
 (875) O40 -----R59
 (876) O40 -----R63
 (877) O40 -----R64
 (878) O40 -----R65
 (879) O41 -----R66
 (880) O41 -----R67
 (881) O42 -----R68
 (882) O43 -----R69
 (883) O44 -----R70
 (884) O45 -----R71
 (885) O45 -----R72
 (886) O45 -----R73
 (887) O45 -----R74
 (888) O45 -----R75
 (889) O45 -----R76
 (890) O45 -----R77
 (891) O46 -----R71
 (892) O46 -----R72
 (893) O46 -----R73
 (894) O46 -----R74
 (895) O46 -----R77
 (896) O46 -----R76
 (897) O47 -----R72
 (898) O47 -----R78
 (899) O47 -----R79
 (900) O47 -----R80
 (901) O47¹ -----R81

(902) O48 -----R72
 (903) O48 -----R79
 (904) O48 -----R82
 (905) O49 -----R80
 (906) O49 -----R83
 (907) O49 -----R81
 (908) O49 -----R84
 (909) O49 -----R85
 (910) O49 -----R86
 (911) O49 -----R87
 (912) O49 -----R88
 (913) O50 -----R89

Series E. *Obv.* Eagle on hare

(914) 4.O34----R89 (hemilitron die)
 (915) O51 -----R90
 (916) O51 -----R91
 (917) O52 -----R92

Hexantes

Series Hare

(918) HO1 -----HR1
 (919) HO2 -----HR2
 (920) HO3 -----HR3
 (921) HO3 -----HR4
 (922) HO4 -----HR5
 (923) HO5 -----HR5

Series Bird

(924) BO1-----BR1
 (925) BO1-----BR2
 (926) BO1-----BR3
 (927) BO2-----BR4
 (928) BO3-----BR5

(929) BO4-----BR6
 (930) BO5-----BR7
 (931) BO5-----BR8
 (932) BO5-----BR9
 (933) BO6-----BR9
 (934) BO7-----BR10

Series Pig

(935) PO1 -----PR1
 (936) PO1 -----PR2
 (937) PO1 -----PR3
 (938) PO2 -----PR4
 (939) PO3 -----PR5
 (940) PO3 -----PR6
 (941) PO3 -----BR3 (from Series Bird)
 (942) PO3 -----PR7
 (943) PO4 -----PR8
 (944) PO4 -----PR9

Series Fish a with *rev.* two fish

(945) FO1 -----FR1
 (946) FO1 -----FR2
 (947) FO2 -----FR2
 (948) FO2 -----FR3
 (949) FO3 -----FR2
 (950) FO4 -----FR4
 (951) FO5 -----FR5
 (952) FO6 -----FR6
 (953) FO6 -----FR7
 (954) FO7 -----FR8
 (955) FO8 -----FR9
 (956) FO9 -----FR10
 (957) FO10 ----FR11
 (958) FO11-----FR11
 (959) FO11-----FR12
 (960) FO12 ----FR13
 (961) FO12 ----FR14

(962) FO13 ----FR14
 (963) FO14 ----FR15
 (964) FO15 ----FR16
 (965) FO15 ----FR17
 (966) FO16 ----FR18
 (967) FO16 ----FR19
 (968) FO17 ----FR20
 (969) FO18 ----FR20?
 (970) FO19 ----FR21
 (971) FO20 ----FR22
 (972) FO21 ----FR23

Series Fish b with *rev.* fat fish

(973) FO22 ----FR24
 (974) FO23 ----FR25
 (975) FO24 ----FR26
 (976) FO25 ----FR27
 (977) FO25 ----FR28
 (978) FO25 ----FR29
 (979) FO26 ----FR28
 (980) FO27 ----FR30
 (981) FO28 ----FR31
 (982) FO29 ----FR31
 (983) FO29 ----FR32
 (984) FO30 ----FR32

Series Snake

(985) SO1 -----FR24 (from Series Fish b)
 (986) SO1 -----FR29 (from Series Fish b)
 (987) SO1 -----SR1
 (988) SO1¹ ----SR2
 (989) SO1¹ ----SR3

Onkiai

(990) O1-----R1
 (991) O2-----R2
 (992) O2-----R3
 (993) O2-----R4
 (994) O3-----R4
 (995) O3-----R5
 (996) O4-----R6
 (997) O4-----R7
 (998) O5-----R7
 (999) O5-----R8
 (1000) O5 -----R9
 (1001) O5 -----R10
 (1002) O6 -----R11
 (1003) O6 -----R12
 (1004) O7 -----R13
 (1005) O7 -----R14
 (1006) O8 -----R13

Gold Coinage

First series

(1007) O1 -----R1
 (1008) O1 -----R2
 (1009) O1¹ -----R2
 (1010) O1¹ -----R2¹
 (1011) O1¹ -----R3
 (1012) O1¹ -----R4
 R5 -----O2 (1013)
 (1014) O3 -----R6----- O4 (1015)

Second series

(1016) O5 -----R7----- O6 (1017)

WEIGHT TABLES

Period I.

Didrachms

	Group I 3(to 9.35)	Group II 9 (to 11.96)	Group III 1 (to 9.30)	Group IV
Above				
9.11-9.20	3	4	3	
9.01-9.10	6	11	9	
8.91-9.00	19	22	21	4
8.81-8.90	43	28	91	17
8.71-8.80	70	33	207	54
8.61-8.70	76	40	146	105
8.51-8.60	50	39	98	112
8.41-8.50	54	37	85	108
8.31-8.40	35	26	44	92
8.21-8.30	21	11	27	65
8.11-8.20	10	13	14	47
8.01-8.10	6	12	10	19
7.91-8.00	3	9	9	13
7.81-7.90		6	1	5
Below	3	11	7	14
Total	402	311	773	655

Period II.

Tetradrachms Eagle/crab

	Group I	Group II	Group III
Above		3	
17.71-17.80	-	1	-
17.61-17.70	1	11	4
17.51-17.60	1	15	4
17.41-17.50	3	46	17
17.31-17.40	15	35	36
17.21-17.30	26	63	47
17.11-17.20	12	55	24
17.01-17.10	13	30	38
16.91-17.00	10	21	26
16.81-16.90	7	21	9
16.71-16.80	3	9	5
16.61-16.70	12	14	10
16.51-16.60	1	9	5
16.41-16.50	5	9	1
16.31-16.40	-	9	4
Below	3	12	4
Total	112	363	234

Smaller denominations

Didrachms

8.81-8.90	1
8.71-8.80	0
8.61-8.70	3
8.51-8.60	4
8.41-8.50	5
8.31-8.40	2
8.21-8.30	1
8.11-8.20	1
Below	1
Total	18

Series B.1 with Λ I

0.86-0.90	1
0.81-0.85	0
0.76-0.80	4
0.71-0.75	6
0.66-0.70	20
0.61-0.65	39
0.56-0.60	39
0.51-0.55	18
0.46-0.50	5
0.41-0.45	5
0.36-0.40	1

Series B.2 with Λ A

Pentalitra

4.31-4.35	1
4.26-4.30	3
4.21-4.25	3
4.16-4.20	1
4.11-4.15	4
4.06-4.10	4
4.01-4.05	0
3.96-4.00	4
3.91-3.95	1
Below	3 (3.90, 3.88, 3.50)

0.86-0.90	1
0.81-0.85	0
0.76-0.80	0
0.71-0.75	3
0.66-0.70	1
0.61-0.65	5
0.56-0.60	8
0.51-0.55	4
0.46-0.50	2

Litrai

Series A

0.96-1.00	1
0.91-0.95	0
0.86-0.90	17
0.81-0.85	24
0.76-0.80	14
0.71-0.75	8
0.66-0.70	7

Pentonkia

0.31-0.35	1
0.26-0.30	6
0.21-0.25	10
0.16-0.20	10
0.11-0.15	3

Dionkia

0.11	1
0.08	2
0.07	5
0.06	1

Cast bronzes (Selection)

Series A (Round coins)

10.50-10.01	1
10.00-9.51	1
9.50-9.01	5
9.00-8.51	4
8.50-8.01	2
8.00-7.51	0
7.50-7.01	1

Series B

Triantes

above 21.00:	21.62; 21.65; 21.89
21.00-20.51	1
21.50-21.01	1
20.00-19.51	0
19.50-19.01	1
19.00-18.51	0
18.50-18.01	0
18.00-17.51	3
17.50-17.01	4
17.00-16.51	6
16.50-16.01	10
16.00-15.51	11
15.50-15.01	9
15.00-14.51	12
14.50-14.01	5
14.00-13.51	5
13.50-13.01	2
13.00-12.51	4
12.50-12.01	3
12.00-11.51	1

Tetrantes

15.00-14.51	1
14.50-14.01	0
14.00-13.51	1
13.50-13.01	1
13.00-12.51	8
12.50-12.01	8
12.00-11.51	12
11.50-11.01	5
11.00-10.51	5
10.50-10.01	1
Below: 9.03, 9.00, 8.32	

Hexantes

9.00-8.51	1
8.50-8.01	1
8.00-7.51	3
7.50-7.01	15
7.00-6.51	11
6.50-6.01	4
6.00-5.51	0
5.50-5.01	2

Onkiaia

5.50-5.01	3
5.00-4.51	35
4.50-4.01	13
4.00-3.51	1
3.50-3.01	1

Series 2

17.69-17.60	0
17.59-17.50	1
17.49-17.40	10
17.39-17.30	5
17.29-17.20	6
17.19-17.10	4
17.09-17.00	4
16.99-16.90	2
16.89-16.80	6
16.79-16.70	4
16.69-16.60	6
16.59-16.50	2
16.49-16.40	2
16.39-16.30	2
16.29-16.20	3
16.19-16.10	2
16.09-16.00	0
15.99-15.90	1
15.89-15.80	0
15.79-15.70	1
15.69-15.60	3
Below 15.50	2

Hemidrachms

2.20-2.16	1
2.15-2.11	9
2.10-2.06	15
2.05-2.01	31
2.00-1.96	26
1.95-1.91	15
1.90-1.86	15
1.85-1.81	9
1.80-1.76	1
1.75-1.71	2
Below	1

Dekadrachms

43.58; 43.50; 43.31; 43.15; 43.04; 43.22;
42.95; 42.42; 42.58

Smaller denominations

Didrachms

8.71-8.80	0
8.61-8.70	4
8.51-8.60	3
8.41-8.50	1
8.31-8.40	0
8.21-8.30	1
Below	2

Drachms

4.15-4.11	3
4.10-4.06	5
4.05-4.01	1
4.00-3.96	1
3.95-3.91	2
Below	1

Litrai

0.91-0.95	1
0.86-0.90	2
0.81-0.85	6
0.76-0.80	6
0.71-0.75	13
0.66-0.70	2
0.61-0.65	1
0.56-0.60	2

Struck bronze series	17.50-17.01	7	
	17.00-16.51	3	
	16.50-16.01	2	
Hemilitra	16.00-15.51	10	
	15.50-15.01	2	
	15.00-14.51	4	
Series 1: Triton	14.50-14.01	4	
24.00-23.51	14.00-13.51	2	
23.50-23.01	13.50-13.01	3	
23.00-22.51	13.00-12.51	0	
22.50-22.01	12.50-12.01	2	
22.00-21.51	12.00-11.51	2	
21.50-21.01	11.50-11.01	0	
21.00-20.51	11.00-10.51	1	
20.50-20.01			
20.00-19.51			
19.50-19.01			
19.00-18.51			
18.50-18.01			
18.00-17.51			
	Series 3. Leaf		
	25.00 to 31.26 overstruck	7	
	25.00 to 28.98 not overstruck	3	
	25.50-25.01	1	
	25.00-24.51	0	
	24.50-24.01	2	
	24.00-23.51	3	
	23.00-22.51	4	
	22.50-22.01	4	
	22.00-21.51	1	
	21.50-21.01	3	
	21.00-20.51	4	
	20.50-20.01	3	
	20.00-19.51	8	
	19.50-19.01	5	
	19.00-18.51	0	
	18.50-18.01	2	
	18.00-17.51	0	
	17.50-17.01	4	
	17.00-16.51	5	
	16.50-16.01	0	
	16.00-15.51	6	
Series 2: Octopus			
above		1	
25.00-24.51		2	
24.50-24.01		2	
24.00-23.51		4	
23.50-23.01		11	
23.00-22.51		9	
22.50-22.01		13	
22.00-21.51		14	
21.50-21.01		18	
21.00-20.51		27	
20.50-20.01		15	
20.00-19.51		11	
19.50-19.01		8	
19.00-18.51		4	
18.50-18.01		4	
18.00-17.51		4	

15.50-15.01	5
15.00-14.51	2
14.50-14.01	4
14.00-13.51	4
13.50-13.01	6
13.00-12.51	0
12.50-12.01	5
12.00-11.51	0
11.50-10.51	0
10.50-10.01	3

Series 4. Shrimp

Above 1	
24.50-24.01	1
24.00-23.51	1
23.50-23.01	1
23.00-22.51	3
22.50-22.01	3
22.00-21.51	4
21.50-21.01	4
21.00-20.51	6
20.50-20.01	6
20.00-19.51	3
19.50-19.01	7
19.00-18.51	5
18.50-18.01	10
18.00-17.51	6
17.50-17.01	11
17.00-16.51	8
16.50-16.01	5
16.00-15.51	13
15.50-15.01	11
15.00-14.51	7
14.50-14.01	9
14.00-13.51	7
13.50-13.01	8
13.00-12.51	4
12.50-12.01	6

12.00-11.51	5
11.50-11.01	3

Series 5. Hippocamp

Above 1	
24.00-23.51	1
23.50-23.01	1
23.00-22.51	0
22.50-22.01	3
22.00-21.51	2
21.50-21.01	7
21.00-20.51	3
20.50-20.01	5
20.00-19.51	4
19.50-19.01	5
19.00-18.51	6
18.50-18.01	4
18.00-17.51	4
17.50-17.01	6
17.00-16.51	0
16.50-16.01	3
16.00-15.51	1
15.50-15.01	8
15.00-14.51	4
14.40-14.01	5
14.00-13.51	7
13.50-13.01	5
13.00-12.51	4
12.50-12.01	8
12.00-11.51	7
11.50-11.01	1

Tetrantes

A. Screaming eagle

12.00-11.51	3
11.50-11.01	1
11.00-10.51	3
10.50-10.01	1
10.00-9.51	5
9.50-9.01	2
9.00-8.51	1

B. Eagle grasping snake

12.00-11.51	1
11.50-11.01	1
11.00-10.51	2
10.50-10.01	6
10.00-9.51	3
9.50-9.01	3

C. Eagle on hare, additional symbols

14.00-13.51	1
13.50-13.01	13
13.00-12.51	1
12.50-12.01	3
12.00-11.51	3
11.50-11.01	9
11.00-10.51	16
10.50-10.01	14
10.00-9.51	12
9.00-8.51	6
8.50-8.00	7
8.00-7.51	4
7.50-7.01	4
7.00-6.51	1

D. Eagle on hare

Nos. 839-880

13.00-12.51	2
12.50-12.01	0
12.00-11.51	3
11.50-11.01	7
11.00-10.51	14
10.50-10.01	15
10.00-9.51	15
9.50-9.01	10
9.00-8.51	6
8.50-8.01	13
8.00-7.51	4
7.50-7.01	6
7.00-6.51	5
6.50-6.01	2

No

Nos. 881-917

12.50-12.01	1
11.00-10.51	2
10.50-10.01	4
10.00-9.51	5
9.50-9.01	6
9.00-8.51	12
8.50-8.01	10
8.00-7.51	8
7.50-7.01	15
7.00-6.51	6
6.50-6.01	14
6.00-5.51	6
5.50-5.01	8
5.00-4.51	2
4.50-4.01	1
below	1

Hexantes

Series Hare

above	
9.00-8.51	0
8.50-8.01	1
8.00-7.51	4
7.50-7.01	5
7.00-6.51	4
6.50-6.01	3
6.00-5.51	4
5.50-5.01	0
5.00-4.51	1

Series Eagle on bird

above	1
9.00-8.51	2
8.50-8.01	8
8.00-7.51	5
7.50-7.01	25
7.00-6.51	0
6.50-6.01	5
6.00-5.51	0
5.50-5.01	0
5.00-4.51	0

Series Eagle on pig

8.50-8.01	1
8.00-7.51	4
7.50-7.01	9
7.00-6.51	8
6.50-6.01	4
6.00-5.51	2
5.50-5.01	0
5.00-4.51	0
4.50-4.01	0

Series Two Fish

8.50-8.01	3
8.00-7.51	17
7.50-7.01	26
7.00-6.51	31
6.50-6.01	21
6.00-5.51	4
5.50-5.01	2
5.00-4.51	1
4.50-4.01	1

Series Fat Fish

8.00-7.51	1
7.50-7.01	6
7.00-6.51	9
6.50-6.01	6
6.00-5.51	4
5.50-5.01	5
5.00-4.51	2
4.50-4.01	1
Below	2

Series Eagle on snake

8.00-7.51	1
7.50-7.01	1
7.00-6.51	5
6.50-6.01	7
6.00-5.51	3
5.50-5.01	2
5.00-4.51	1
4.50-4.01	2

Onkiai

5.00-4.51	1
4.50-4.01	8
4.00-3.51	42
3.50-3.01	43
3.00-2.51	7

Gold coinage

First series: Gold tetradrachms

1.41-1.45	1
1.36-1.40	8
1.31-1.35	88
1.26-1.30	10
1.21-1.25	1

Second series: Gold 1 ½ tetradrachms

1.75; 1.74 (only two coins)

STATISTICS

Period I

Didrachms	<i>Obv.</i>	<i>Rev.</i>	<i>Combinations</i>	<i>Specimens</i>	<i>Rel. obv./rev.</i>
Group I	37	53	89		1.4
Group II	27	47	64		1.8
Group III	19	59	84		3.2
Group IV	12	41	59		3.1

Period II

Tetradrachms	20	96			4.8
Late didr.	1	3	3	19	3
Pentalitra	1	2	4	25	2
Litrae series A	4	3	6	70	0.75
Litrae series B	44+	40			c.1

Period III

Tetradr. Fish	1	2	2		2
Tetradr. Skylla	1	3	5		3
Tetradr. Quadriga					
Series 1	5	6	6		1.2
Series 2	2	6	7		3
Hemidrachms					
Series 1	17	22	40		1.3
Series 2	5	5	7		1
Dekadrachms	2	3			1.5
Gold	4	6			1.5

INDEX OF SPECIMENS (SILVER AND GOLD COINS)

Public Collections

Aarhus, University

SNG Denmark, The Fabricius Collection (1987)

179=33.4; 180=228.9; 181=267.3; 182=340.9; 183=500.1; 184=544.2

Aberdeen, Marischal College

SNG England I, part 2. The Newnham Davis Coins in the Wilson Collection (1936)

45=431.2

Agrigento, Museo Archeologico Regionale

See also Hoard S. Caterina Villarmosa

SNG Italia, Agrigento, Museo Archeologico Regionale (1999)

76=32.1; 77=80.4; 78=180.12; 79=247.1; 80=28.1; 81=210.2; 82=140.5; 83=162.3;
84=253.19; 85=271.16; 86=255.18; 87=262.17; 88=262.19; 93=337.16; 94=380.3;
95=448.19; 96=476; 243=575.1; 244=563.12; 245=563.13

Other acquisitions: 468.1; 514.4

Athens, National Numismatic Museum

12.5; 28.5; 16.5; 40.1; 58.1; 107.8; 128.3; 142.5; 160.7; 175.11; 187.20; 188.8; 202.6;
238.22; 245.4; 254.6; 259.43; 268.1; 272.6; 293.4; 326.3; 337.9; 371.5; 399.5; 438.3

Basel, Antikenmuseum

See Private collections, Moretti

Basel, Historisches Museum

198.10; 291.8; 364.5; 449.10; 558.6; 576.28

Berlin, Staatliche Museen zu Berlin, Münzkabinett

F-S = Friedländer & Sallet²

19.12 (B4840); 91.5 (B28693); 110.8 (6223/1955); 112.2 (no proveniens); 213.1
(Sperling); 231.1 (124/1961); 261.4 (B11390); 282.3 (B1167); 283.10 (B18109); 292.5
(B6795); 350.1 (gift 1955); 361.3 (28630/3); 399.6 (28825=F-S 553); 435.1 (4823 =
F-S 554); 441.3 (170/1885); 473.1 (6632); 529.6; 536.14 (18108); 558.8; 569.3; 579.2

(366/1872); 585.7 = (28723, F-S 583); 588.16 (11/1878); 595.2 (F-S 582); 1011.4 (309/1875)

Collection H. Dannenberg (1863): 273.11; 279.8

Collection C. R. Fox (1873): 91.10; 107.4; 134.2; 201.19; 327.1; 395.4; 536.8; 570.5; 584.3; 602.4; 1014.13

Collection J. Friedländer (1861): 193.8; 200.17; 432.4; 573.8

Collection H. von Gansauge (1873): 349.41; 570.9

Collection F. Imhoof-Blumer (1900): 2.1; 37.5; 40.5; 86.4; 148.5; 160.9; 164.3; 180.2; 205.12; 216.5; 238.8; 238.32; 246.12; 255.6; 264.8; 300.2; 316.1; 323.1; 333.6; 340.1; 352.5; 372.3; 387.4; 388.3; 402.1; 411.6; 448.15; 454.1; 468.4; 471.1; 497.1; 516.2; 520.1; 540.4; 545.1; 579.17; 589.2; 595.5; 605.9; 609.6; 1015.5

Collection A. Löbbecke (1906): 6.3; 14.6; 34.18; 43.12; 46.7; 73.1; 95.6; 142.10; 148.8; 198.20; 203.14; 259.16; 271.1; 275.21; 293.6; 325.1; 349.6; 349.32; 391.1; 434.1; 436.6; 440.3; 478.6; 554.4; 570.4; 576.4; 577.1; 602.5; 604.9; 605.12; 1013.19

Collection O. Prokesch von Osten (1875): 254.12; 556.3

Collection A. von Rauch (1853): 171.20; 252.2; 256.11; 265.13; 294.3; 582.7

Blackburn, Blackburn Museum

SNG England VIII, The Hart Collection (1989)

136=174.7; 137=290.5; 138=288.5; 139=376.8; 140=398.1; 141=531.13; 142=544.4

Bologna, Museo Civico

F. Panvini Rosati, *Arte e civiltà nella moneta greca* (1963), Nos. 54–55, 70–74, pls 3–4. 43.11; 86.3 (No. 54); 128.2 (No. 55); 184.7; 219.9; 246.14 (No. 74); 259.40; 343.4 (No. 73); 556.4; 579.24

Bonn, Akademisches Kunstmuseum

106.1; 575.4

Boston, Museum of Fine Arts

Agnes Baldwin Brett, *Catalogue of Greek Coins* (1955)

221=342.1; 222=372.1; 224=387.3; 225=414.3; 228=203.10; 229=283.1; 230=448.1; 231=586.2; 232=588.7; 233=589.9; 234=532.1; 236=1007.2

Formerly Boston: 223=423.2

Braunschweig, Herzog Anton Ulrich-Museum

66.1

Brussels, Bibliothèque Royale Albert Ier, Cabinet des Médailles

General collection: 55.1; 245.9; 259.39; 262.5; 275.13; 436.2; 462.2; 498.6; 548.4

Naster, *Collection de Hirsch*

282=259.24; 286=534.2; 287=585.5; 288=588.10; 289=593.1; 290=589.10; 291=536.2

François de Callataÿ and Johan van Heesch, *Greek and Roman Coins from the Du Chastel collection* (1999)

23=201.18; 24=1013.7; 25=594.3

Bryn Mawr College see Private collection E. Washburn King

Budapest, Magyar Nemzeti Múzeum

SNG Hungary, Vol. I, part 3, Sicily

11=115.3; 12=200.7; 13=173.3; 14=172.13; 15=257.4; 16=246.13; 17=261.17;

18=304.1; 19=366.2; 20=381.1; 21=352.11; 22=317.11; 23=475.1; 24=478.4;

25=1011.12; 26=1013.16; 28=588.18; 29=557.4; 30=572.9; 31=579.10; 32=576.43

Cambridge, Fitzwilliam Museum

SNG England IV, *Leake and General collections* (1940)

888=42.4; 889=30.5; 891=333.3; 892=369.3; 893=337.22; 894=393.2; 895=409.4;

896=420.1; 897=253.11; 898=267.5; 899=264.1; 900=138.4; 901=109.1; 902=215.13;

903=215.12; 904=212.24; 905=182.3; 906=183.13; 907=200.12; 908=271.14;

909=269.9; 910=273.5; 911=273.9; 912=259.26; 913=446.12; 914=493.2; 915=517.1;

916=1015.2; 917=595.8; 918=570.2; 919=573.11; 920=572.6; 921=543.2; 922=550.5;

923=576.6; 924=576.3; 925=581.15

S. W. Grose, *Catalogue of the McClean Collection of Greek Coins*. Vol. 1 (1923).

2014=75.2; 2015=89.7; 2016=418.1; 2017=364.15; 2018=340.8; 2019=322.10;

2020=352.3; 2021=336.3; 2022=436.8; 2023=414.2; 2024=B28.1; 2025=244.7;

2026=160.10; 2027=364.15; 2028=41.3; 2029=201.3; 2030=224.4; 2031=188.32;

2032=91.4; 2033=239.3; 2034=283.8; 2035=450.8; 2036=469.3; 2037=477.3;

2038=516.15; 2039=1011.10; 2040=1015.3; 2041=596.11; 2042=585.13; 2043=531.5;

2044=530.4; 2045=576.33; 2046=578.1; 2047=582.12; 2048=550.4

SNG England VI, *The Lewis Collection in Corpus Christi College*, part 1 (1972)

288=200.24; 289=396.1

Collection Andrew S. F. Gow (1978), 26.8; 40.20; 219.11; 558.10

Other acquisitions

217.10 (1947); 523.3

Cambridge MA, Harvard University Art Museums

Mildenberg & Hurter: 548=11.13; 549=34.10; 550=111.8; 551=124.2; 552=199.6; 553=279.3; 555=303.2; 556=441.9; 557=496.1; 559=531.8; 560=584.4; 561=588.17; 562=600.2; 563=590.5; 564=589.8; 565=596.8; 566=579.20; 569=1014.14; 570=1011.6; 571=1011.8;

Formerly Dewing: 180.6; 322.3

R. Ross Holloway, *The Frederick M. Watkins collection. The Ancient Coins*. Fogg Art Museum (1973): 20=338.7; 21=589.14

Catania, Castel Ursino

68.2; 238.18; 550.16; 580.13

Catanzaro, Museo Provinciale

193.13; 235.6; 340.10; 494.4; 563.6

Cefalù, Museo Mandralisco

5.2; 57.1; 189.21; 201.21; 224.11; 248.8; 275.24; 299.1; 324.4; 351.10; 474.4; 550.3; 566.1

Coburg (formerly Gotha), Herzogliche Sammlung

13.15; 18.2; 73.4; 102.3; 201.10; 246.19; 258.11; 324.2; 448.18; 469.6; 541.6; 545.10; 561.1; 562.1; 576.21; 1014.16

Formerly Gotha: 531.14

Copenhagen, Nationalmuseet, Royal Coin Cabinet

SNG The Royal Collection of Coins and Medals. Danish National Museum Copenhagen, Sicily, part 1 (1942)

20=54.2; 21=60.3; 22=34.7; 23=40.15; 24=117.6; 25=135.6; 26=212.9; 27=160.2; 28=164.13; 29=251.11; 30=253.16; 32=238.11; 33=254.17; 34=216.20; 35=107.7; 36=91.2; 37=283.4; 38=200.20; 39=189.11; 40=266.4; 42=313.1; 43=429.4; 44=413.1; 46=446.1; 48=469.5; 49=509.1; 50=494.6; 51=448.2; 52=1011.3; 53=585.3; 54=588.23; 55=582.9; 56=576.7; 57=542.6; 58=543.1; 59=567.2; 60=570.6

SNG Suppl. Acquisitions 1942–1996 (2002)

61=220.41

Dresden, Staatliche Kunstsammlungen

160.5 (463); 204.10 (462); 259.48 (468); 265.7(465); 265.19 (464); 282.9 (469); 283.22 (467); 329.1 (471); 353.1 (470); 365.2 (472); 366.4 (473); 373.22(474); 445.6 (489); 498.3 (477); 531.19 (481); 557.6 (479); 572.2 (476); 581.16; 1013.10

Formerly Dresden: 265.20

Duisburg, Kultur- und Stadthistorisches Museum*Sammlung Köhler-Osbahr (2003)*

155=373.16; 158=761.2; 160=622.7; 161=652.1

Düsseldorf, University

198.16; 293.9

Edinburgh, Royal Scottish MuseumRutter, *Scottish Museum*

24=34.12

Enna, Museo Civico

119.2; 201.14; 264.13; 275.14; 554.11; 556.2; 573.18; 581.8

Florence, Museo Archeologico

188.40; 265.17; 275.26; 318.7; 353.6; 375.1; 531.10; 580.15

Frankfurt am Main, Historisches Museum

Förschner

377.378=133.10; 379=318.3; 380=325.2; 381=560.2; 382=536.9;

Glasgow, Hunterian MuseumG. MacDonald, *Catalogue of Greek Coins in the Hunterian Collection*, vol. I (1899)*Hunter* 1=246.2; 2=156.1; 3=216.1; 4=111.4; 5=189.12; 7=253.21; 8=287.3; 9=258.12; 10=239.6; 11=269.2; 12=283.2; 13=283.17; 14=76.2; 15=411.3; 16=436.1; 17=337.3; 18=301.6; 19=36.1; 20=19.2; 21=452.1; 22=474.2; 24=1013.11; 25=592.4; 26=576.2; 27=581.6; 28=552.2; 29=539.2; 30=536.13; 31=517.1**Göttingen, Archäologisches Institut der Universität**

82.1; 133.3; 261.27; 514.7; 541.7; 573.29

Graz, Steiermärkisches Landesmuseum Joanneum

345.7; 448.32

Hamburg, KunsthalleR. Postel, *Katalog der antiken Münzen in der Hamburger Kunsthalle* (1976)

31=582.1

Hannover, Kestner-Museum

S. Grunauer-von Hoerschelmann, *Griechische Münzen. Kestner-Museum* (1988)
163=181.3; 164=548.8

Karlsruhe, Badisches Landesmuseum

54.1; 121.1; 235.3; 245.10

Klagenfurt, Landesmuseum für Kärnten

SNG Deutschland, *Sammlung Dreer im Landesmuseum für Kärnten*, part 1 (1967).
399=11.7; 400=28.4; 401=187.41; 402=246.17; 403=503.1; 404=451.3

Krefeld-Linn, Landschaftsmuseum des Niederrhein

P. R. Franke & Ilse Paar, *Die antiken Münzen der Sammlung Heynen* (1976)
14=104.1; 15=283.14; 16=343.7

Leipzig, Universitätsbibliothek

SNG Deutschland, *Sammlung der Universitätsbibliothek Leipzig*. Vol. 1 (1993)
357=92.3; 358=253.24; 359=254.11

Lisbon, Museum Gulbenkian

Gulbenkian I

155=115.5; 156=128.8; 157=431.1; 158=337.23; 159=340.5; 160=321.2; 161=349.16;
162=373.10; 163=530.5; 164=530.2; 165=602.2; 166=531.17; 167=585.1; 168=598.1;
169=590.2; 170=595.4; 171=1013.3

Livorno

374.2

Locarno, Museo civico e archeologico

Vismara, *Koinon 5*

118=285.2; 119=333.7; 120=582.13

London, British Museum, Department of Coins and Medals

BMC, Sicily, R. C. Poole, *A Catalogue of the Greek Coins in the British Museum*, I (1876)
2=1011.27; 3=32.2; 4=34.11; 5=29.1; 6=43.15; 7=26.9; 8=19.11; 9=88.1; 11=136.6;
12=142.9; 13=187.25; 14=114.1; 15=109.3; 16=111.3; 17=245.2; 18=265.15; 19=271.8;
20=251.6; 21= 95.2; 22=219.8; 23=154.4; 24=159.5; 25=91.1; 26=193.11; 27=261.15;
28=188.43; 29=275.4; 31=200.23; 32=238.6; 33=279.5; 34=254.14; 35=286.1;
36=259.23; 37=317.10; 38=372.2; 39=361.2; 40=387.1; 41=384.1; 42=400.1; 43=411.2;

44=418.2; 45=439.1; 46=420.2; 47=447.1; 48=449.4; 49=448.3; 50=469.1; 51=483.6; 52=504.1; 53=583.3; 55=596.4; 57=588.1; 58=589.4; 59=530.3; 61=534.1; 62=604.6; 63=580.11; 64=581.6; 66=536.20; 67=538.1; 68=559.2; 69=554.7; 70=565.3; 71=573.6; 72=609.5; 74=605.7

SNG England II, The Lloyd Collection, parts III–IV (1934)

785=50.2; 786=14.8; 787=22.1; 788=30.3; 789=115.11; 790=117.10; 791=133.8; 792=109.2; 793=110.7; 794=92.5; 795=91.7; 796=259.49; 797=275.1; 798=203.2; 799=443.1; 800=337.32; 801=386.8; 802=298.5; 803=332.3; 804=349.12; 805=431.7; 806=436.4; 807=421.1; 808=421.5; 810=388.10; 811=446.3; 812=505.1; 813=448.16; 814=517.6; 815=1011.7; 816=1009.2; 817=600.1; 818=588.22; 819=587.4; 820=584.5; 821=531.12; 822=530.6; 823=603.1; 824=604.7; 825=576.31; 826=542.1; 827=557.7; 828=548.6; 830=606.2; 831=607.5

Formerly Lloyd: 809=384.2; 822=530.6; 829=605.10

Other acquisitions: 6.4 (1949); 10.2 (1947); 16.4 (Goo 94); 84.4 (Goo 95); 98.1 (1896); 123.6 (1918); 164.16 (1905); 189.3 (1959); 198.12 (1949); 223.3 (1947); 224.8 (1904); 245.3 (1922); 258.15 (1918); 262.4 (1946); 279.7 (1949); 283.9 (1947); 291.3; 298.2 (1918); 339.4(1904); 430.2 (1905); 435.3 (1964); 440.4 (Villabate hd); 441.10 (1905); 444.1; 445.1 (Bank); 486.1 (1927); 514.3 (1928); 514.6 (1904); 517.4 (1896); 552.1; 565.6 (1949); 576.1 (1927); 579.22 (1896).; 1008.2 (1907)

Formerly London: 349.22; 542.14 (=BMC 65); 584.1 (BMC 54); 605.10 (=BMC 73)

Malibu, Getty Museum

298.8

Manchester, University Museum

SNG England VII, Manchester University Museum (1986)

366=133.13; 368=292.8; 369=285.1; 370=331.3; 371=542.20; 372=573.26; 373=537.5; 374=531.14

Milan, Civiche Raccolte Numismatiche

E. A. Arslan, *La moneta della Sicilia antica (Catalogo delle Civiche Raccolte Numismatiche di Milano. 1976)*

16=12.3; 17=26.7; 18=31.11; 19=269.7; 20=238.33; 21=283.21; 22=275.27; 23=130.8; 24=228.8; 25=240.4; 26=253.22; 34=305.4; 35=353.11; 36=438.4; 39=1013.20; 40=572.7; 42=538.4; 43=551.4; 44=540.5; 45=552.5

Munich, Staatliche Münzsammlung*SNG Deutschland, Staatliche Münzsammlung München, part 5 (1977)*

35=13.4; 36=20.7; 37=37.2; 38=57.3; 39=43.10; 40=137.2; 41=115.6; 42=135.5;
 43=166.2; 44=156.2; 45=203.19; 46=201.22; 47=189.19; 48=214.4; 49=234.5;
 50=179.5; 51=276.7; 52=244.1; 53=255.9; 54=255.10; 55=261.9; 56=264.10; 57=272.7;
 58=238.20; 59=294.1; 60=273.12; 61=259.19; 62= 259.53; 63=256.5; 64=279.9;
 65=307.1; 66=302.2; 67=333.10; 68=351.9; 70=364.4; 72=417.2; 73=426.2; 74=431.5;
 75=446.10; 76=488.4; 77=458.1; 78=462.8; 79=604.11; 80=576.19; 81=576.29;
 82=581.4; 83=581.5; 84=554.10; 85=559.8; 86=542.17; 87=541.3; 88=1014.27;
 89=599.1; 90=596.9

Münster, Westfälisches Landesmuseum

37.8; 253.23; 276.11; 552.5; 559.8; 578.2

Naples, Museo Archeologico NazionaleF=G. Fiorelli, *Catalogo del Museo Nazionale di Napoli, Medagliere*S=G. Fiorelli, *Catalogo del Museo Nazionale di Napoli, Collezione Santangelo*

F3909=358.4; F3911=337.24; F3912=16.7; F3913=379.8; F3914=431.3;
 F3915=422.4; F3918=37.3; F3919=62.1; F3920=14.12; F3921=42.7; F3922=45.1;
 F3923=166.1; F3924=160.4; F3925=248.12; F3926=275.16; F3927=275.23;
 F3928=134.3; 3929=184.6; F3930=174.3; F3931=235.5; F3932=144.3; F3933=143.1;
 F3934=134.4; F3935=203.16; F3936=206.9; F3937=201.20; F3938=188.37;
 F3939=103.3; F3940=252.9; F3941=255.17; F3942=293.8; F3943=256.12;
 F3944=271.2; F3945=271.3; F3947=259.36; F3948=285.4; F3950=590.1;
 F3952=601.2; F3954=444.2; F3962=558.11; F3963=558.5; F3964=543.3;
 F3965=542.18; F3966=538.5; F3967=539.1; F3968=536.22; F3969=573.9;
 F3970=573.24; F3971=563.3; F3972=569.1; F3973=570.3; F3974=581.7;
 F3975=576.45; F3976=579.6; F3981=449.7; F3982=448.9; F3983=450.10;
 F3984=450.1; F3985=449.8; F3986=448.4; F3987=514.1; F3988=451.1;
 F3989=478.3; F3990=486.4; F3992=493.3; F3993=467.1; F3994=507.4;
 F3995=519.7; F3996=519.6; F3997=517.5; F4062=514.12

Formerly Naples: F3953=602.2

S7319=530.18; S7320=353.2; S7321=325.7; S7322=311.1; S7324=62.1; S7325=82.2;
 S7326=163.4; S7327=80.5; S7328=43.17; S7329=166.12; S7330=43.14;
 S7332=236.9; S7333=146.1; S7334=183.18; S7335=71.2; S7337=187.28;
 S7338=65.6; S7339=244.10; S7340=71.2; S7341=231.5; S7342=188.39;
 S7343=201.25; S7345=251.12; S7346=239.10; S7347=264.2; S7348=266.2;
 S7349=445.8; S7350=581.3; S7351=579.26; S7352=576.30; S7353=573.20;
 S7354=565.4; S7355=548.18; S7356=550.9; S7357=544.7; S7358=538.2;
 S7361=514.19; S7362=478.7

New York, The American Numismatic Society

SNG ANS, part 3, Bruttium-Sicily I (1975).

905=23.2; 906=11.3; 907=13.9; 908=46.6; 909=20.12; 910=3.1; 911=31.10; 912=9.3; 913=40.10; 914=39.1; 915=43.16; 916=56.1; 917=74.1; 918=89.10; 919=92.7; 920=90.1; 921=109.7; 922=103.6; 923=130.4; 924=126.3; 925=132.5; 926=142.8; 927=133.12; 928=134.5; 929=131.4; 930=166.13; 931=236.1; 932=228.6; 933=220.40; 934=234.3; 935=231.2; 936=225.3; 937=163.1; 938=182.12; 939=177.2; 940=176.2; 941=214.1; 942=196.15; 943=184.9; 944=205.15; 945=198.3; 946=200.4; 947=203.5; 948=193.10; 949=216.26; 950=248.4; 951=291.7; 952=249.9; 953=282.11; 954=293.1; 955=292.2; 956=272.3; 957=274.1; 958=273.7; 959=259.46; 960=258.5; 961=279.1; 962=238.17; 963=239.1; 964=332.1; 965=331.7; 966=328.3; 967=329.2; 968=298.7; 969=300.1; 970=338.2; 971=340.6; 972=348.1; 973=349.31; 974=355.2; 975=425.1; 976=373.13; 977=376.1; 978=360.1; 979=392.3; 980=397.1; 981=401.1; 982=414.1; 982=414.1; 983=411.1; 984=436.7; 985=384.3; 986=450.6; 987=449.5; 988=448.24; 989=457.1; 990=481.1; 991=501.1; 992=494.1; 993=477.2; 994=494.1; 995=489.2; 996=516.12; 997=519.3; 998=1013.4; 999=1014.4; 1000=595.12; 1001=601.3; 1002=536.18; 1003=546.5; 1004=551.1; 1005=554.3; 1006=545.12; 1007=558.3; 1008=559.3; 1009=542.2; 1010=563.9; 1011=569.2; 1012=579.8; 1013=576.11; 1014=581.2; 1060=1003.2

SNG ANS, part 5, Sicily III (1988), Appendix 2 (Donation Moretti)

1296=588.8

Other acquisitions:

J. and D. Francis, 115.8; 229.4

John D. Leggett (1997), 34.1; 204.1; 337.27; 531.1; 576.22; 1013.18

A. A. Rosen, 513.3; 605.13

Jonathan P. Rosen, 123.8; 132.4; 178.8; 201.16; 240.6; 253.27; 260.1; 271.10; 275.33; 293.6

Mark Salton, 223.6

R. Trenholme, 554.9; 573.27; 573.30

Fecht, 435.4

Formerly ANS, 238.26; 259.41; 292.6; 293.10; 349.27; 466.3; 579.12; 581.13; 559.5; 576.38

Oslo, University, Kulturhistorisk museum, Myntkabinettet

128.4; 283.19; 293.7; 353.9; 380.1; 467.7; 546.1

Oxford, Ashmolean Museum, Heberden Coin Room

SNG England V, Oxford, part II (1969).

1651=15.3; 1652=89.6; 1653=67.3; 1654=12.13; 1655=184.1; 1656=138.6; 1657=186.1; 1658=205.3; 1659=110.6; 1660=215.14; 1661=276.4; 1662=164.1; 1663=286.3; 1664=203.3; 1665=201.8; 1666=2001; 1667=259.2; 1669=331.6; 1670=337.17; 1671=404.1; 1672=445.3; 1673=460.2; 1675=1013.17; 1676=596.10; 1677=589.16; 1678=576.13; 1679=542.4; 1680=569.7; 1681=571.1

Other acquisitions: 79.1; 216.10; 294.7; 323.5 (1947); 1002.6; 1011.1 (1947)

Formerly Oxford: 576.13

Padova, Museo Bottacin

287.2; 322.6; 545.13

Palermo, Museo Archeologico Regionale

See also Hoards Contessa 1888, Termine Himerese and Archaeological finds A4, Himera 34.9; 59.3; 83.7; 90.3; 117.9; 118.3; 127.1; 150.3; 171.3; 188.42; 206.7; 212.22; 236.4; 242.2; 259.56; 261.24; 269.10; 284.5; 286.4; 290.4; 307.3; 328.1; 333.9; 342.4; 342.5; 347.2; 349.38; 364.2; 373.2; 373.7; 373.12; 379.9; 386.2; 404.2; 405.1; 412.2; 421.4; 437.1; 437.2; 438.1; 442.3; 446.2; 448.25; 448.26; 457.2; 468.2; 474.3; 490.1; 506.3; 514.5; 514.8; 514.11; 515.2; 516.9; 516.10; 519.1; 522.4; 522.5; 523.2; 542.10; 542.11; 550.12; 565.7; 570.7; 579.18; 580.12; 582.2; 582.3; 585.1; 592.4; 604.4; 605.3

Paris, Bibliothèque Nationale, Cabinet des Médailles

Jean de Foville, *Choix de monnaies et médailles du Cabinet de France*, RN 1907, pp. 521–522, nos. 111–116, pl. 17 (=206?; 415.1; 113? 589.15; 604.10; 1012.1 below)

Fonds général (FG): 25=116.1; 29=337.18; 30=356.1; 31=369.2; 32=352.8; 36=440.1; 37=314.2; 38=331.2; 39=415.1; 44=11.16; 46=4.2; 46a=20.10; 47=234.8; 48=253.6; 49=279.13; 50=275.30; 51=283.11; 52=291.9; 53=226.1; 54=206.3; 61=446.8; 63=475.2; 66=449.6; 67=461.2; 71=516.1; 72=516.16; 78=1012.1; 81=589.15; 85=588.14; 88A=529.5; uncertain no.=533.1; 93=548.3; 94=538.3; 95=544.5; 96=573.5; 97=572.8; 98=565.5; 100=576.39; 101=579.3; 102=581.10; 103=597.3; 104=608.1; 105=607.8;

Collection de Luynes: J. Babelon, *Catalogue de la Collection de Luynes*, vol. I (1924)

L843=1010.1; L844=1011.19; L845=1007.1; L846=1017.1; L847=390.1; L848=94.2; L849=446.9; L850=498.2; L851=B29.8; L852=10.1; L853=F5.6; L854=428.1; L855=422.3; L856=117.13; L857=450.2; L858=592.1; L859=588.6; L862=604.5; L863=545.4; L864=605.6;

Collection Delepierre: H. Nicolet; *SNG France, Collection Jean et Marie Delepierre* (1983)

515=19.3; 516=20.13; 518=43.19; 519=80.3; 520=141.5; 521=116*add*; 522=216.25; 523=245.5; 524=255.3; 525=240.2; 526=389.5; 527=352.16; 528=352.7; 531=580.7; 532=582.17

Collection Valton: Foville, *RN 1909*, pp. 1–35: 128=148.1

Formerly Paris: 334.5; 594.1; 530.11; 530.13; 604.10

Parma, Palazzo della Pilotta

1264=325.6

Prag, Narodní Muzeum

253.17; 273.3; 376.4; 416.2; 558.12

Formerly Prag: 261.28

Princeton, University, Firestone Library

Collection Dan Fellow Platt: 166.16; 216.13; 229.5; 319.2

Providence, Brown University

J. D. Bishop & R. Ross Holloway, *Wheaton College Collection of Greek and Roman coins*, ACNAC (3, 1981)

29=372.21

General collection: 588.3

Reggio di Calabria, Museo Nazionale

See Hoard 34, Vito Superiore

Rome, Museo Nazionale Romano, Palazzo Massimo alle Terme

26.4; 58.2; 166.4; 364.21; 555.3

Rovereto, Museo Civico, Orsi collection

Gorini, *La collezione di monete greche di Paolo Orsi*

71=341.1; 72=11.14; 73=71.1; 74=191.1; 75=579.23

Salisbury, University College of Rhodesia

Pollard, *Courtauld Collection*: 17=376.5; 18=533.2

St. Petersburg, Ermitage

11.15; 13.5; 20.11; 20.14; 84.1; 95.7; 120.7; 124.6; 163.13; 172.16; 245.14; 246.1; 264.14; 266.3; 275.20; 279.10; 283.15; 287.4; 292.10; 358.5; 364.6; 388.7; 453.4; 464.6; 465.1; 478.8; 531.15; 536.15; 540.6; 542.12; 567.4; 579.1; 581.17; 594.1; 1011.20

Stockholm, Royal Coin Cabinet

W. Schwabacher, *Grekiska mynt ur Konung Gustaf VI Adolfs samling* (1962, German ed. *Griechische Münzkunst* 1974), 21= SNG 21

SNG Sweden I, *The Collection of His Majesty King Gustaf VI Adolf – The Fred Forbat Collection* (1974)

GVIA21=205.7; GVIA22=184.3; GVIA23=399.3; GVIA24=506.2; F93=44.3; F94=164.7; F95=213.2; F96=377.3

Smith, nos. 23–28, pl. 1.27 (= SNG 369, 373, 370, 372, 374, 375)

SNG Sweden II, *The Collection of the Royal Coin Cabinet. National Museum of Monetary History*, part 1 (1976)

367=1.2; 368=22.7; 369=115.4; 370=206.6; 371=255.15; 372=291.11; 373=283.3; 374=376.10; 375=337.34; 376=448.22; 377=558.1; 378=1011.5

Other acquisitions: 91.9; 234.7; 254.20 (1984); 276.7(1997); 516.7 (1982)

Stuttgart, Württembergisches Landesmuseum

95.4; 239.7; 248.10; 276.2; 283.18; 563.5; 573.7

Syracuse, Museo Archeologico Regionale P. Orsi

For hoards from Augusta, Carancino, Casulla, Leonforte, Leontini, Monforte Giorgio, Monte Bubbonia, Monteraci, Passo di Piazza, Pachino and Paternò see Hoard section.

General collection (inv. nos.): 6.6 (22429); 12.4 (23570); 24.2 (181.84); 31.7(25265); 31.12 (55465); 42.1(25361); 78.2 (22655); 110.10 (24764); 118.4 (9342); 135.4 (20054); 140.1 (5435); 148.2 (5433); 192.8 (22239); 203.20 (17625); 206.8 (17710); 212.23 (5434); 220.39 (4935); 224.3 (29354); 228.11 (13963); 237.3 (5437); 246.10 (20050); 252.8 (23765); 253.28 (20051); 255.11 (4934); 259.38 (14581); 259.51 (26243); 259.52 (5444); 262.22 (24775); 262.23 (34231); 264.12 (13992); 265.12; 270.1 (22689); 270.2 (27273); 284.7 (24.765); 294.5 (4933); 301.1 (22158); 318.4 (5430); 335.1 (24391); 345.6 (6504); 351.1 (4932); 353.12 (24442); 362.1 (13961); 366.1 (24708); 379.4 (32952); 395.2 (5431); 395.3 (5432); 396.6 (12310); 401.3 (22379); 412.5 (24885); 414.7 (19497); 431.8 (23599); 441.12 (22708); 448.28 (30653); 450.9 (5439); 464.2 (5440); 494.5(25275); 498.7(4937); 507.1(6926); 508.2(5446); 510.2(6925); 511.4(26506); 515.3 (.5445); 519.5 (24277); 522.3 (13973); 523.1(13973); 530.8 (54904); 531.20 (17081); 536.10 (26891); 542.16 (5443); 549.1(23607); 550.10 (12273); 551.5 (39360); 556.1 (21835); 558.7 (23605); 565.1 (30638); 570.14 (5430); 575.5 (14875); 576.12 (5442); 576.16 (23606); 577.8 (26890); 579.19 (22289); 589.1(54490)

Collection Enrico Gagliardi (1966): G229=198.9; G380=317.1; G412=359.1; G414=269.6; G542=311.2; G564=338.1; G680=536.1; G693=259.21; G980=349.13; G981=576.20; G982=460.1; G991=349.15; G1055=334.3; G1132=1014.21; G1178=570.10; G1217=452.2

Torino, Museo Civico

Inv. nos. 1340–1347: 46.1 (1340); 63.3 (1342); 133.7 (1341); 196.14 (1343); 255.13 (1344); 259.22 (1345); 431.9 (inv.?); 448.21 (1347); 449.9 (1346)

Toronto, Royal Ontario Museum

255.14; 271.9

Tübingen, Universität

SNG Deutschland, Münzsammlung der Universität Tübingen, part 1(1981)

556=214.6; 557=249.5; 558=244.3; 559=373.3; 560=514.2; 561=514.9

Udine, Civici Musei di Udine, Gabinetto Numismatico

Collezione de Brandis, Monete della Sicilia Antica (1998)

1=5.6; 2=34.19; 3=257.1; 5=245.10; 6=376.6; 7=572.6

Utrecht, Koninklijk Penningkabinet

12.8; 40.19; 124.5; 234.6; 241.2; 259.35; 262.13; 265.14; 364.8; 364.12; 453.3; 550.14; 570.12; 580.9; 1014.32

Formerly Amsterdam Akademie: 259.58; 448.38

Vatican, Biblioteca Apostolica, Medagliere.

Museum catalogue nos.: 7=251.7; 8=255.16; 9=246.9; 10=280.3; 11=292.4; 13=111.9; 14=172.15; 15=212.20; 16=174.6; 17=187.40; 18=222.1; 19=494.2; 24=345.1; 25=364.13; 26=376.7; 29=11.10; 33=569.5; 34=563.11; 35=576.18; 36=555.1; 37=546.6

Vienna, Kunsthistorisches Museum

280.2; 281.1; 283.6; 295.1; 363.1; 364.19; 373.6; 426.3; 448.34; 464.1; 513.2; 536.23; 551.3; 573.22; 580.12; 1014.12

Washington, University

John Max Wulfinf Collection, ACNAC (1979)

89=580.5

Winterthur, Coin Cabinet

Bloesch, *Griechische Münzen in Winterthur*, vol. I (1987)

562=26.11; 563=40.17; 564=337.26; 565=305.1; 566=365.1; 567=115.7; 569=276.8;
571=258.7; 572=259.54; 573=203.10; 574=450.4; 575=488.5; 576=517.3; 577=530.7;
578=573.21; 579=576.25; 580=606.3

Zurich, Zentralbibliothek

5.5; 117.7; 142.6; 171.11; 251.13; 353.3; 565.10; 579.5

Private Collections**Frank Sherman Benson, Great Neck, N.Y.**

12.9; 40.18; 112.3; 200.18; 215.15; 351.5; 485.4

See also Sotheby sale 3.2.1909

Collection Cesare Canessa

Strauss

37=291.2a; 38=530.6; 40=585.6

Formerly G. de Ciccio, Naples

De Ciccio, Note ed appunti, pp. 3–13, figs 1–5, 7–8, 10–12, 14. Fig. 1=48.3; 2=28.2;
3=26.1; 4=30.1; 5=31.9; 7=76.1; 8=112.1; 10=116.5; 11=144.1; 12=102.2; 14=F1

Other coins: 34.1; 50.3; 95.8; 166.10; 172.8; 188.30; 201.5; 254.2; 269.11; 284.11;
337.27; 343.11; 349.2; 358.1; 433.1; 445.2; 480.1; 516.17; 529.1; 542.13; 554.1; 585.6;
602.1; 605.15; 607.3; 1007.4; 1011.9; F1

Arthur Stone Dewing, see Public Collections, Cambridge MA, Harvard

Eike Druckrey, Kelchheim

415.2; 547.1

Fred Forbat, Stockholm, see Public Collections, Stockholm

Formerly private collections, Germany

26.2; 30.2; 63.2; 65.2; 171.5; 184.5; 188.23; 246.4; 262.16; 272.2; 272.12; 276.13;
284.3; 294.4; 322.7; 337.30; 353.10; 364.22; 366.6; 406.1; 427.2; 550.7; 573.25; 582.15

See also Private collection South Germany

Charles Gillet, Lyon

Leu-MMAG 28.5.1974, *Griechische Münzen aus der Sammlung eines Kunstfreundes*,
77= 349.10; 78=530.6; 79=580.1; 80=583.2.

Other specimens: 1014.28

Calouste Gulbenkian, see Public Collections, Lisbon**Peter Hammerich, Copenhagen**

75.1; 103.5; 231.3; 153.15; 282.10; 379.1

Hanberry

26.3

Max Hirmer, Munich

30.2; 171.5; 349.26; 358.1; 530.13; 558.2; 590.7

Formerly private collections, Italy and Sicily

219.10; 255.5; 282.8; 329.7; 342.6; 485.2; 515.1; 516.18; 521.1; 522.6–7; 530.17;
548.17; 604.8

Robert Jameson, Paris

R. Jameson, *Monnaies grecques antiques*, vols. I, III–IV (1913–1932).

498=179.4; 499=203.8; 500=259.14; 501=35.3; 502=431.4; 503=421.6; 504=387.6;
505=402.2; 506=469.4; 507=1014.18; 508=530.16; 509=531.7; 510=585.1;
511=589.14; 512=602.6; 513=573.14; 514=581.1; 515=545.5; 516=605.2; 1886=115.5;
1889=588.12; 2413=340.5; 2414=349.3; 2415=591.1; 2416=602.2

Robert Käppeli, Basel

E. Berger, ed., *Kunstwerke der Antike*, Luzern 1963, part F. Münzen (H. A. Cahn):
F19=12.1; F51=530.11; F52=531.2; F53=602.3; F54=588.2

Ernst Langlotz, Bonn

154.6; 187.21; 349.3

Georg de Laval, Stockholm

See Glendining 18.4.1955

Other coins: 458.3; 573.16

Godfrey Locker Lampson

Robinson: 58; 59=530.2; 60=531.13

Richard Cyril Lockett, London

SNG England III, *The Lockett collection*, part II (Sicily-Thrace, 1939). See also Glendining 25.10.1955, lots 571–600

SNG 687=34.5; 688=19.4; 689=49.1; 690=318.1; 691=351.3; 692=230.1; 693=387.2; 694=390.2; 695=417.1; 696=421.3; 697=440.4; 698=230.1; 699=255.8; 700=288.3; 701=145.1; 702=95.1; 703=164.15; 704=193.3; 705=203.13; 706=188.5; 707=259.31; 708=110.9; 709=448.27; 710=474.1; 711=496.1; 712=506.2; 713=517.3; 714=1013.17; 715=529.7; 716=570.1; 717=563.8; 718=546.3; 719=605.11

G. Manganaro, S. Agata

515.1; 521.1

Gerhard Miksche, Huddinge (Sweden)

259.47; 275.11

John Morcom, Kew, Richmond (Surrey)

1015.6

Athos Moretti, Bellinzona

Collection partly exhibited in Antikenmuseum Basel: H. A. Cahn et al., *Griechische Münzen aus Grossgriechenland und Sizilien* (1988). Later sold NAC 13, 1998.

11.4; 34.3; 35.5; 76.1; 94.5; 100.6; 110.5; 132.1; 133.4; 145.2; 164.17; 172.17; 178.10; 188.1; 189.2; 196.9; 199.12; 201.27; 203.21; 214.3; 216.2; 223.2; 234.4; 254.15; 258.2; 259.18; 283.23; 352.9; 377.1; 387.2; 390.3; 402.2; 441.1; 445.2; 449.14; 480.1; 481.2; 498.9; 510.1; 516.8; 516.13; 530.14; 531.11; 545.7; 583.1; 585.8; 587.2; 589.11; 595.7; 602.1; 605.11; 606.1; 607.3; 607.11; 1007.4; 1014.11; 1015.4

Henri de Nanteuil, Paris

Henri de Nanteuil, *Collection de monnaies grecques* (1925)

252=31.6; 253=19.6; 254=137.3; 255=120.4; 256=154.1; 257=164.19; 258=269.3; 259=392.5; 260=1015.7; 261=532.3

Private collection, New York

171.7; 180.9; 349.29; 398.3

Louis Nägeli, Zurich

16.6; 42.5; 127.2; 181.5; 187.9; 189.17; 198.23; 217.8; 218.9; 319.1; 324.3; 386.5

Collection Pennisi di Floristella, formerly at Acireale, since 1988 in Syracuse, Museo Archeologico Regionale Paolo Orsi.

The Akragantine coins in the catalogue follow the documentation (casts and photos) made by K.-L. Grabow in the 1950s.

5.1; 5.3; 11.18; 37.9; 41.4; 42.3; 51.3; 78.4; 85.4; 91.6; 92.9; 95.3; 99.2; 108.1; 110.2; 111.1; 124.4; 128.9; 133.11; 149.1; 150.2; 157.3; 166.14; 167.7; 171.10; 172.10; 189.18; 192.7; 203.12; 216.21; 220.19; 224.1; 229.2; 237.2; 238.7; 238.12; 246.15; 249.4; 251.4; 252.7.7; 253.13; 254.4; 254.10; 256.2; 258.13; 259.3; 259.13; 259.45; 261.6; 261.10; 261.12; 262.11; 262.20; 264.3; 264.15; 265.3; 271.4; 273.4; 275.12; 275.19; 282.2; 282.4; 283.20; 290.3; 293.4; 300.6; 364.1; 367.4; 368.1; 379.2; 384.5; 385.1; 387.5; 388.4; 398.6; 399.9; 409.1; 411.9; 416.6; 430.1; 432.2; 435.2; 440.5; 441.6; 449.11; 451.4; 456.2; 462.1; 472.1; 475.3; 484.1; 491.1; 506.1; 531.16; 542.7; 543.4; 547.2; 547.3; 560.1; 565.8; 572.3; 572.4; 576.14; 580.4; 582.16; 584.2; 597.1; 529.2; 604.10; 605.8; 607.4; 609.4; 1008.1

Formerly Pennisi: 42.5; 118.2; 141.1; 152.1; 175.2; 224.15; 228.10; 277.1; 279.2; 294.9; 342.9; 414.4; 429.3; 589.5; 595.9; 600.2; 601.1; 1010.2; 1015.4

J. Pierpont Morgan, New York

W. Raymond, *The J. Pierpont Morgan Collection* (New York 1953):

107=399.4; 108=434.4; 108a=588.17

Walter Niggeler

See Leu-MMAG 4.12.1965

Samuel Pozzi, Paris?

Naville I Pozzi, 1921, nos 365–392 (+AE 393) and Boutin, nos. 896–932. Coins not in Pozzi sale but in Boutin: B923=577.3; B924=579.25; B927=607.10 plus bronze coins B928=652.3; B929=650.2; B930=974.9; B931=928.9; B932=996.5

Paul Proschowsky, Copenhagen

103.5; 201.7; 272.7

See also Bruun Rasmussen 245, 10.3.1970

Joanathan P. Rosen, New York

Waggoner, *Rosen*.

28=37.6

Hans A. Römer, Zurich

Schwarz & Mildenberg

3=530.13; 4=591.1

Private collection, South Germany

13.6; 215.17; 259.22; 282.1; 410.1; 605.1

Private collections, Sweden

11.8; 43.19; 151.1; 187.43; 235.2; 317.4; 364.10; 325.8; 563.10

Private collection, Switzerland

531.11

W. Stöcklin, Amriswil

164.5; 258.5; 337.29

Private collections, USA

349.29; 398.3; 531.6; 542.8

John Ward, New York

Formerly in New York, Metropolitan Museum, sold Sotheby (Zürich) 4.4.1973

G.F. Hill in Ward, *Greek Coins*131=14.10; 132=134.1; 134=371.1; 135=388.1; 135A=393.5; 136=410.2; 137=485.3;
138=1013.5; 139=588.4; 140=530.9; 142=577.5**E.P. Warren, Lewes**Regling, *Sammlung Warren*188=342.2; 189=372.1; 190=384.2; 194=203.10; 195=283.1; 196=448.11; 200=586.2;
201=530.12**Elisabeth Washburn King**Vermeule, *NC*.

28=531.7

Herman Weber, London

Forrer, Weber collection

1180=120.4; 1181=109.2; 1182=373.10; 1183=384.4; 1184=411.10; 1185=440.5;
1186=259.33; 1187=154.5; 1188=448.7; 1189=474.1; 1190=467.2; 1192=517.2;
1195=1011.7; 1196=584.5; 1197=603.1; 1198=573.17; 1200=580.5

W. H. Woodward, LondonRobinson, *Woodward*

49=531.13

Private Collection X

40.16; 42.2; 45.3; 65.3; 84.2; 117.12; 129.3; 131.5; 144.2; 170.1; 174.1; 200.13; 201.6;
 208.3; 216.9; 217.7; 220.2; 224.11; 236.7; 238.30; 239.4; 239.8; 253.25; 254.8; 255.7;
 255.12; 256.1; 257.8; 258.10; 261.1; 264.5; 265.5; 269.4; 275.22; 275.34; 284.9; 282.7;
 286.2; 291.2; 307.2; 317.6; 337.33; 349.35; 349.39; 352.15; 358.2; 361.6; 361.7; 371.8;
 388.6; 417.4; 427.4; 429.6; 434.2; 495.1; 537.1; 541.2; 559.4; 565.9; 574.1; 580.8;
 580.18; 582.11; 584.8

Sale Catalogues and Dealers' Stock

Aes Rude, Chiasso

1, 1977, 50=589.6

5.4.1978, 49=269.8

6.4.1979, 73=176.1; 74=262.8

Ahlström, B., Mynthandel AB, Stockholm

14, 16.4.1977, 649=377.5

19, 31.3.1979, 906=285.5

27, 16.4.1983, 2015=253.2

36, 7.11.1987, 930=416.1

38, 12.11, 1988, 2198=40.21

39, 15.4.1989, 1639=40.21; 1640=166.15

41, 28.4.1990, 1542=364.10

list 51, Oct. 1975, 2180

list 52, Dec. 1975–Jan. 1976, 6=377.5

Aretusa Numismatica, Lugano

2, 13.5.1994, 90=429.2; 91=349.5; 93=573.28

3, 25.11, 1994, 15=163.16; 16=198.22;

Argenor Numismatique, Paris

23.4.1999, 22= 609.3

14.4.2000, 6=275.28

list Oct. 2001, 239=164.21

Ariadne Galleries, New York

9.12.1981, 19=37.6

Arsantiqva, London

4, 11.10.2003, 68=186.4; 69=291.4; 70=251.15

Ars Classica, Geneva (continuation of Naville)

12, 18.10.1926 (Bissen, Wertheim, Evans, Petrowicz), 659=13.2; 660=22.5; 661=47.1; 662=43.6; 663=442.2; 664=131.3; 665=92.1; 667=298.6; 668=435.4; 669=328.3; 670=434.2; 671=353.7; 672=448.27; 673=496.1; 674=593.4

13, 27.6.1928, 191=294.2; 192=259.8; 193=383.1; 194=333.2; 195=342.7; 196=364.14; 197=367.9; 198=580.2; 200=530.5; 201=529.7; 202=548.10

14, 2.7.1929 (Spencer-Churchill), 71=184.3; 72=135.2; 73=139.1; 74=136.1; 75=238.19; 76=254.7; 78=340.5; 80=349.22; 81=358.1; 82=338.3; 83=1013.9; 84=591.2; 85=548.15

15, 2.7.1930 (W. H. Woodward), 264=124.2; 265=265.9; 266=244.5; 267=349.2; 268=349.29; 269=330.2; 270=1011.26

16, 3.7.1933 (St. Marceaux, Carr), 408=135.2; 410=353.8; 411=333.2; 412=371.6; 413=332.2; 414=338.4; 416=301.2; 417=410.4; 418=416.6; 419=171.12; 420=205.9; 421=177.6; 423=189.15; 424=259.12; 425=449.11; 427=516.3; 430=1014.28; 431=1014.23; 432=595.1; 433=588.13; 434=530.21; 435=576.35; 436=540.1; 438=565.2

17, 3.10.1934 (R. Burrage, Arthur Evans), 119=349.34; 120=441.1; 123=1013.8; 124=1011.9; 125=1014.30; 126=591.2; 127=589.8; 128=605.11

Astarte Monete e Medaglie, Lugano

MB 2, 1999, 55=477.1

MB 5, 28.10.1999, 219=114.3; 221=B6; 223=242.1

MB 6, 2000, 95=516.13

MB 9, 15.5.2002, 28=467.5; 29=486.2; 30=483.1; 31=462.4; 32=485.6; 147=563.1

MB 11, 12.12.2002, 160=283.12; 161=507.3

MB 12, 2003, 44=238.15; 45=373.18; 46=497.2

Athena Münzen der Antike, Munich

1, 8.10.1987, 28=198.22

2, 4.10.1988, 33=373.17; 34=568.1

3, 1990, 34=380.2; 35=276.3

List 15, 1986, 122=6.2

List 20, 1995, 9=187.31

Auctiones, Basel

3, 3.12.1973, 110=174.8
 5, 2.12.1975, 36=37.6
 7, 7.6.1977, 69=223.1
 8, 27.6.1978, 60=448.37; 61=516.6
 10, 12.6.1979, 51=579.15
 12, 29.9.1981, 34= 212.1
 13, 23.6.1983, 72=40.13; 73=421.3
 16, 1.10.1986, 25=B25.3
 17, 7.6.1988, 30=550.2
 18, 21.9.1989, 527=95.5; 528=283.1
 20, 8.9.1990, 1256=219.1
 22, 16.6.1992, 66=40.11; 58=576.41
 23, 17.6.1993, 212=187.21; 213=349.3
 24, 23.6.1994, 40=250.1; 41=414.5; 42=B26.4
 25, 19.6.1995, 58=33.5; 59=11.11; 61=26.10; 62=139.2; 63=220.35; 64=163.7;
 67=200.21;
 68=224.10; 69=293.2; 70=261.7; 71=263.1; 72=392.4; 73=328.4; 74=323.4; 75=412.2;
 76=469.2; 77=604.2; 78=563.4
 26, 16.6.1996, 41=349.32; 42=387.6
 29, 12.6.2003, 51=323.4

Aufhäuser H., Bankhaus, Munich

21.10.1985, 12=376.2
 3, 7.10.1986, 6=187.3
 6, 5.10.1989, 28= 187.3
 8, 9.10.1991, 15=142.11; 16=497.2; 17=577.2 18=550.8
 9, 1992, 18=557.2
 18, 2004, 29=271.7

Baldwin, A. H., and Sons, London

in stock 1952= 264.7; 279.11; 289.2; 298.6; 300.4; 329.5; 364.18; 453.1
 See also New York Sale

Ball, Robert, Nachf., Berlin

Stock cat. 46, Jan. 1938, 48787=536.4

Banque populaire du Nord, Marcq-en-Barceul

List 34, March 1985, 12=227.1

List 35, May 1985, 11=24.1; 12=585.12

See also Nomisma, Paris

Baranowsky, Michele, Milan & Rome

(Rome) in stock 1951=21.2; 170.18; 178.8; 224.7; 292.9; 328.2; 342.2; 411.4

(Rome) stock cat. 1929, 1529a=343.9; 1530a=273.14; 5030b=279.15

(Milan) 4, 24.2.1931(V. Traverso, J. Martini), 286=26.6; 287=173.1; 290=342.7; 291=256.6; 298=559.6

(Rome) stock cat. 1934, part 3, 4609=1014.5; 4610= 4611a=337.36; 4611b=337.35; 4612=399.8; 4613=343.9; 4614a=233.4; 4614b=169.1; 4615=275.34

Beckenbaur, Egon, Münzenhandlung, Munich

2, 9.3.1962, 16 =212.18

list 1, 1972, 3=7.4; 4=220.8

list 3, 1972, 4=7.4; 5=220.8

Berk, Harlan J., Ltd., Chicago, Ill.

MB 88, 28.11.1995, 93=582.18

MB 89, 14.2.1996, 95=135.2

MB 95, 25.3.1997, 88=529.3; 89=576.42

MB 98, 7.10.1997, 62=105.2; 63=588.15

MB 102, 27.5.1998, 149=20.4

MB 110, 8.9.1999, 108=280.1

MB 113, 14.3.2000, 101=259.37

MB 115, 2.8.2000, 192=300.3

MB 118, 17.1.2001, 101=576.44

MB 119, 15.3.2001, 146=283.7

Birkler, L. & Waddell, E. J., Washington

2, 11.12.1980, 29=49.1; 30=175.1; 31=379.5

3, 10.12.1981, 32=36.3; 33=147.3; 36=526.30

4, 9.12.1982, 32=262.14

MB 5, 19.11.1982, 13

Blancon, Gilles, Münzenhandlung, Hannover

- list 4, 1987, 11=287.1
list 8, 1990, 109=287.1
list 9, 1991, 86=287.1
list 10, 1991, 42=249.10

Blaser-Frey see Frey

Bonhams, London

- 4, 4.12.1980, 25=6.5; 26=45.6; 27=110.11; 28=348.4; 29
6, 15.9.1981, 66=244.9
7, 29.3.1982, 62=394.2

Bonhams and Vecchi

8. 11.1982, 279=349.28

Bourgey, Emile, Sabine, Paris

- 18.11.1957, 18=1013.15
List 6, 1958, 36=B26.4
17.6.1959 (Chandon de Briailles et al.), 98=22.5; 99=43.7; 100=196.16; 101=137.4;
102=258.4; 103=259.33; 104=373.8
2.7.1964, 24=43.7; 25=258.4
28.10.1974, 25=174.10; 26=410.2
4.11.1975, 14=253.9
9.11.1976, 33=542.19
25.3.1977, 12=544.12
13.6.1977, 16=376.11
5.12.1977, 24=329.6
24.2.1983, 17=102.4; 18=B28.5; 19=596.5
11.3.1985, 5=530.22
13.6.1986, 12=219.5
1.12.1999, 20=332.5; 21=163.15

Bourgey, Etienne, Paris

- 7.6.1909, 121=1014.4
14.4.1910, 37=319.3
14.12.1911, 36=254.21; 37=546.5
14.5.1914, 30=334.7
14.6.1932, 14=308.1; 15= 255.3
5.12.1932, 63=1014.24; 64=B.24.2
14.12.1934, 38=333.2; 39=177.6

Burgan, Claude, Paris

24.5.1986, 280=159.1
19, 15.6.1989, 295=33.3; 296=188.18
24.3.1990, 110=181.7
23.12.1991, 4=1013.12

Button, Elisabeth, Frankfurter Münzhandlung, Frankfurt

101, 28.10.1959, 27=180.1
103, 7.12.1960, 8=401.2
105, 18.9.1961, 1984=367.8
119, 24.1.1972, 1057=441.13

Cahn, Adolph E., Frankfurt

27.5.4.911, 85=317.7
60, 2.7.1928 (Nury-Bey), 172=34.13; 173=19.8; 174=138.7; 175=294.4; 177=349.24
61, 3.12.1928, 35=243.3; 36=372.5; 37=352.14
65, 15.10.1929, 61=11.2; 62=165.1; 63=238.14; 64=379.3; 65=411.10; 65a=548.1
66, 6.5.1930, 93=16.3; 94=262.6; 95=275.25; 96=283.15; 97=337.6; 98=331.1;
99=399.7; 100=575.2
68, 26.11.1930 (Simon), 1057=13.1; 1058=11.2; 1060=137.3; 1061=182.10;
1062=238.16; 1063=351.7
71, 14.10.1931, 130=12.1; 131=44.3; 132=117.4; 133=183.1; 134=238.27; 135=259.10;
136=365.4; 137=349.32; 137a=595.9
75, 30.5.1932, 145=37.1; 146=133.1; 147=148.5; 148=349.22; 149=284.1
80, 27.2.1933, 76=128.9; 77=44.3; 78=317.5;
84, 29.11.1933, 106=372.5; 107=154.2; 108=163.6; 109=267.4; 110=205.9;
112=1014.22; 113=548.1
Stock cat. 24, 1912, 249; 355.1

Canessa, C. & E., Naples, Paris, New York

2, 22.5.1922 (Feruccio Brandis), 166=373.11; 167 =39.1; 168=117.5; 169=261.1;
170=239.12; 171=203.2; 172=209.3; 173=557.7
28.6.1923, 7=1015.6
5, 12.6.1928 (Polese), 469=34.20; 471=20.3; 474=337.35; 475=337.37; 476=349.42;
477=337.5; 478=84.5; 480=188.30; 481=192.1; 482=91.6; 486=133.1; 487=283.23;
488=259.9; 489=262.6; 497=580.15

Canessa, Naples – L. de Nicola, Rome

list Nov. 1948, 47=35.4, 48=57.4; 49=389.1; 50=332.4

list Dec. 1950, 105=35.5; 106 =31.8; 109=1011.23

list Sept. 1966, 175= 84.7

list Dec. 1977, 45= 46.7

See also **Sambon-Canessa**

Ceresio-Asta Ceresio, Lugano (Leu-Spink & Son, Zürich)

(1), 26.9.1987, 30 =187.7; 31=516.13

2, 26.9.1988, 16=111.6; 17=366.5; 18=585.9

CGF-Comptoir Général Financier, Paris

MB XI, 21.1.2002, 17=427.2

MB 16, 31.12.2002, 8=259.55

MB 18, 19.6.2003, 20= B24.2

MB 23, 27.11.2004, 19=B24.2

Chapman, S.H. & H., Philadelphia, PA

25.6.1912, 87=362.2

Christiansen, H., New York

20.12.1991, 3=100.3

Christie's, London, New York

New York 7.10.1986.92=530.16

New York 3.10.1988, 950=349.32

26.4.1988, 445=236.8

London 25.4.1989, 508=317.3

London 8.10.1991, 27=367.1

New York 11.12.1992 (Elisabeth Washburn King), 628=531.7

Ciani, Louis, Paris

20.2.1935 (Grandsprey), 59=138.8; 60=1014.3

14.5.1936, 11=343.10

Ciani, P.-Vinchon, J. & Cie, Paris

6.2.1956 (Y. E. Hindamian), 169=1013.14; 170=361.5; 171=298.3; 172=216.14;

173=590.6

CNAuctions-Classical Numismatic Auctions, Quarryville, PA (continued as CNG)

13, 4.12.1990, 291=163.8

16, 16.8.1991, 37=1011.28

17, 5.10.1991, 127=246.5

18, 3.12.1991, 29=377.2

CNG-Classical Numismatic Group, Lancaster PA, London

MB 22, 1992, 18 =196.2

MB 23, 13.10.1992, 81=171.12

MB 24, 9.12.1992, 175=188.4; 177=576.41; 178=607.1

MB 26, 11.6.1993 (Stevenson), 21=1011.24; 204=229.3

MB 27, 29.9.1993, 389=171.16

MB 33, 15.3.1995, 108=398.3; 109= 318.1

MB 34, 6.5., 1995, 95=275.11

MB 36, 5.12.1995 (Jay P. Dawley and others), 1748=110.9; 1751=589.12

MB 37, 20.3.1996, 90=542.13

MB 38, 6.6.1996, 115=261.17

MB 39, 18.9.1996, 258=245.13; 259=294.6; 260=348.4; 264=1011.26

MB 41, 19.3.1997, 160=352.4; 161=337.28; 163=455.1; 164=516.5; 165=576.36

MB 42, 29.5.1997, 100=361.4; 101=530.1; 102=546.2; 103=588.24

MB 43, 24.9.1997, 113=429.1; 114=336.2

MB 45, 18.3.1998, 74=467.3

MB 51, 15.9.1999, 135=272.4; 136=353.4

MB 53, 15.3.2000, 92=34, 15; 93=329.4; 95=604.3

MB 54, 14.6.2000, 257=35.2; 258=253.14; 259=239.9; 260=257.7

MB 60, 22.5.2002, 129=46.5; 130=42.8; 131=43.13; 132=164.20; 133=161.1; 134=224.

12; 135=197.14; 137=252.6; 138=246.11; 139=238.34;

internet 28.8.1998=189.1; 4.10.1999=367.2; internet 1.2.2001=215.4

CNG-NAC, Zürich

MB 40, 4.12.1996, 724=291.1; 725=387.2; 726=326.1; 727=529.3; 728; 729=1007.4

Classical Numismatic Review, Quarryville and Lancaster PA, with Seaby Coin & Medal Bulletin, London

Vol. 18.4, 1993, 17=182.13

Vol. 19.2, 1994, 40=215.16; vol. 19.4, 16=20.1

Vol. 20.2, 1995, p. 12 and do. suppl. p. 2=531.6

Vol. 22.1, 1997, 1=370.1

Clerici, Carlo, Cesare, Milan

1.3.1913, 290=314.1

Coins and Antiquities, San Antonio, Texas

5.6.1986, 5=351.12

Coin Galleries, New York (The Foreign Department of Stack's)

MB 29.11.1958, 796=378.3

MB 20.4.1961, 71=298.6

MB 19.4.1962, 869=371.7; 895=411.7

MB 20.11.1975, 2025=364.20

MB 17.7.1991, 94=347.3

MB 7.11.1990, 132=275.11

MB 13.11.1991, 219=259.27; 345=449.1

MB 12.2.1992, 139=200.19

MB 17.7.1996, 1341=273.1

FPL 20, 1959, A614=339.3

See also *The Numismatic Review*, New York

Delmonte, Brussels

24.4.1933, 26=305.3

18.11.1933, 30=365.4

de Falco, Guiseppe, Naples

in stock in the 1950s=200.17; 234.4; 445,7; 457.3

list 43, Dec. 1958, 104=185.1

list 57, June 1962, 177=185.1; 178=188.46

Dorotheum, Wien

26.3.1957, 3429=B28.3

26.4.1961 (K. Hollschek XIII, Greek I), 889=40.9; 890=335.2; 891=305.2; 892=388.5;

893=386.4; 894=138.5; 895=116.6; 897=12.11; 898=265.11; 899=278.1; 900=188.38;

901=279.12; 902=273.13; 903=261.25; 904=240.1; 905=293.10; 906=250.1;

907=275.29; 909=482.7; 911=542.23

269, 1.9.1964, 230=271.11

290, 13.12.1966, 106=128.7

412, 1.12.1981, 15=245.8; 16=541.4

415, 29.3.1982, 7=187.24; 8=199.10

416, 1982, 2=289.4; 3=251.10

419, 4.10.1982, 8=261.25

422, 7.3.1983, 3=261.25

Sonderauktion 12.11.1982, 45=262.3; 46=530.15; 47=576.41

2 Sonderauktion 15.4.1983, 43=540.3

3 Sonderauktion 14.10.1983, 22=184.2; 23=588.24; 24=540.3

P. J. Downie, Melbourne

List 8, 1984, 598=573.10

Egger, Brüder, Wien

10.12.1906, 46=11.9; 48=259.8; 49=187.38; 50=343.3; 52=448.17

7.1.1908, 23=213.3; 24=585.1

26.11.1909, 94=325.4; 95=366.2; 96=115.3; 97=171.10; 101=275.29; 102=202.7;

104=216.6; 106=582.8; 107=573.1

39, 15.1.1912, 65=172.3

12.11.1913, 225=273.13; 237=515.4

40, 2.5.1912 (Theodor Prowe), 308=1011.26; 317=317.11; 318=386.4; 319=448.17;
320=498.8:

41, 18.11.1912 (Feuerly Bey), 96=179.6; 97=228.12; 98=588.18; 99=529.7; 100=558.3

45, 12.11.1913 (Telese), 223=96.1; 227=333.4; 230=323.2; 231=407.1; 232=171.10;
234=595.1

46, 11.5.1914 (Theodor Prowe), 52=373.14; 53=460.2

Elsen, Jean et fils, Brussels

6, 4.11.1986, 27=275.32

8, 19.10.1987, 26=275.32

10, 27.6.1988, 25=275.32

13, 10.6.1989, 16=275.32

17, 17.11, 1990, 21=464.4

18, 22.4.1991, 62=143.3

26, 12.9.1992, 96=253.5

28, 20.2.1993, 44=393.5

30, 12.6.1993, 24=1014.15

33, 19.2, 1994, 3=253.18

35, 2.7.1994, 49=184.8

36, 17.9.1994, 71=1014.15

46, 21.9.1996, 227=417.6

47, 14.12.1996, 73=129.6; 74=541.6

57, 6.3.1999, 1267=124.1

59, 18.9.1999, 36=550.11

60, 11.12.1999, 123=469.7

67, 15.9.2001, 107=536.5; 108=548.12; 109=582.5

76, 13.9.2003, 39=144.1

list 49, Nov. 1982, 11=198.18

list 55, 1983, 21=379.5

list 62, Dec. 1983, 20=198.18
list 63, 1984, 12=379.5
list 90, 1986, 137=1014.15
list 111, Oct.–Nov. 1988, 14=1014.15; 15=187.7
list 183, 1996, 17=607.1
list 211, Aug.–Sept. 2000, 12=144.1
list 221, May–Aug. 2002, 10=144.1

Emporium, Hamburg

4, 11.4.1985, 9=246.20
5, 31.10.1985, 480=262.18
7, 23.10.1986, 12=262.18
11, 18.12.1987, 41=262.18; 42=246.20
37, 22.5.1997=246.20

Feuardent, Frères, Paris

9.6.1913 (Paul Mathey), 83=319.3
11.6.1913 (Gustave Burel), 52=1013.14; 53=435.3
26.5.1914, 100=1009.1; 101=1014.25; 102=351.8
8.7.1919 (W. Talbot Ready), 134=1014.25
17.12.1919 (Maxime Collignon), 74=371.5; 75=298.3; 76=142.11; 77=590.6
19.12.1921 (Paul Mathey), 36=184.12; 37=258.7
16.11.1937, 32=B24.2

Florange, Jules-Ciani, Louis, Paris

18.12.1924 (Barachin), 163=141.5

Frey, Helga P. R, from 1960 Blaser-Frey, Freiburg im Breisgau

[2], 15.4.1955, 990=112.3, 991=315.1
[7], 17.12.1960, 50=187.17
12, 18.1.1964, 1119=159.2
15, 14.1.1966, 1480=92.2
16, 7.10.1966, 1377=6.1

Gadoury, Victor, Monte Carlo

13.10.1980, 52=204.5; 55=410.5

R. Gaettens, Heidelberg

In stock 1953=211.3

Galerie des Monnaies of Geneva, Geneva etc.

In stock 1978=100.3; 147.2; 249.10; 394.2; 410.5; 576.24; 579.14

(New York) 25.6.1976, 680=2.2; 681=198.5; 682=420.3

(New York) 6.11.1976, 4=420.3

(Los Angeles) 9.6.1978, 1248=109.10; 1250=573.23

(St. Louis) 1.8.1979, 2358=11.17; 2359=394.2

21 (Düsseldorf) 9.11.1978, 11=442.1; 12=420.3; 13=536.19

(New Orleans) 25.7.1981, 1004=131.3; 1005=324.1

See also Spink/Galerie des Monnaies

Gans, E., Berkeley, Calif.

In stock 1954=13.9; 322.1; 325.5; 343.1; 367.5; 1958=445.7

MB 16, 19.4.1960, 113=337.13; 114=334.1; 115=249.8; 116=89.7; 117=259.18; 118=269.3; 119=584.9; 120=576.5

Glendining & Co., London

10.4.1918, 35=348.1

9.3.1931 (E. Nordheim, A. J. Evans), 886=15.3; 887=85.4; 888=54.2; 889=337.25; 891=417.4; 892=184.3; 893=183.1; 894=117.11; 895=133.1; 896=259.10; 898=461.1; 899=557.2

27.5.1936, 10=1014.22

25.5.1938, 288=331.3

25.10.1938 (R. J. Marston et al.), 46=67.3; 48=435.3; 49=446.11; 52=607.13

7.7.1939, 58=349.7

24.11.1950 (V. J. E. Ryan), 1487=1011.18

31.1.1951 (W. Cunningham), 56=37.1

25.11.1953, 35=429.3

29.4.1954, 18=57.4

18.4.1955 (A. Nobleman (G. de Laval)), 153=67.3; 154=43.6; 155=133.4; 156=224.9; 157=261.23; 158=349.32; 159=364.10

25.10.1955 (R.C. Lockett), 571=34.5; 572=19.4; 573=49.1; 574=318.1; 575=351.3; 576=349.29; 577=387.2; 578=390.2; 579=417.1; 580=421.3; 581=440.4; 582=230.1; 583=255.8; 584=288.3; 585=145.1; 586=95.1; 587=164.15; 588=193.3; 589=203.13; 590=188.5; 591=259.31; 592=110.9; 595=1013.17; 596=529.7; 597=570.1; 598=563.8; 599=546.3; 600=605.11

27.11.1958, 244=220.43

27.9.1962 (W. H. Woodward), 37=337.6; 38=95.1

13.12.1963, 104=36.2; 105=332.4

7.7.1971, 29=95.1; 31=261.31; 32=482.4

27.10.1971 (G. R. Drewry), 23=373.15

21.6.1972, 67=111.7; 68=448.12; 69=548.11
 10, 21.6.1972, 67=111.8
 8.12.1981, 10=596.5
 9.6.1982, 54=365.4
 10.12.1986 (H. Knoepke), 60=180.4; 61=433.1; 62=1014.23
 9.10.1989, 18=337.7
 12.10.1992, 100=253.4
 28.1.1998, 18=349.43

Glendining-Seaby, London

1.12.1927 (G. M. Moss), 558=13.3; 559=12.9; 560=351.7; 561=59.8; 562=102.1;
 563=155.1; 564=259.17
 2, 15.7.1929, 175=13.3; 176=332.6; 177=351.7; 178=291.13; 179=216.13; 180=229.3;
 181=238.27; 182=259.17

Glendining-Spink, London

23, 11.12.1975, 20=102.1

Gorny-Giessener Münzhandlung Dieter Gorny, Munich

28, 2.2.1984, 3198=464.3
 46, 30.10.1989, 24=171.12
 56, 7.10.1991, 33=427.2
 62, 20.4.1993, 17=427.2
 102, 24.5.2000, 50=589.3

Grabow, Ludwig, Rostock

in stock 1954 ff.= 187.9; 189.17; 202.15; 217.8; 218.9; 233.3; 241.4; 248.6; 262.15;
 275.18; 319.1; 324.3; 386.5; 442.2; 544.7; 581.18
 9.7.1930, 176=372.4; 177=236.1; 178=154.2; 180=545.4; 182=461.1
 14, 27.7.1939, 122=34.8; 123=103.1; 124=456.125=536.4
 list 2, 1953, 38=261.13

Hamburger, Leo, Frankfurt

2.4.1894 (Guerrli), 135=583.2
 Oct. 1899, 142=202.7
 17.6.1908, 291=590.5
 27.5.1929 (R. von Kaufmann), 94=379.3; 95=324.3; 96=387.5; 97=107.8; 111=128.3;
 113=1014.9
 12.6.1930, 601=359.2
 96, 25.10.1932, 35=34.4; 35a=322.3; 36=409.3; 37=596.3

98, 3.4.1933, 110=35.5; 111=22.6; 113=332.4; 114=389.3; 115=337.33; 116=349.17; 117=349.32; 118=337.5; 119=337.25; 120=384.5; 121=417.4; 122=399.8; 123=133.4; 124=117.11; 125=117.4; 126=140.4; 127=150.2; 128=174.2; 129=265.3; 130=245.11; 131=271.4; 132=251.4; 133=157.3; 135=192.6; 136=224.1; 137=224.13; 138=238.7; 139=279.2; 140=256.2; 141=259.13; 142=488.3; 143=595.9; 144=576.37; 145=557.3

Hanberry, New York

26.3

Hecht, R. E., Rome

List 1, 1954, 75=245.11; 76=558.2

Heinz, Karl, Düsseldorf

list 3, 1975, 4=198.16; 5=293.9

Helbing, Otto, Nachfolger, Munich

22.3.1926, 28=334.1; 29=284.1

12.4.1927, 1593=337.21; 1594=378.1; 1595=334.1; 1596=331.1; 1597=579.21

24.10.1927 (Hofrat Herrmann), 2624=11.12; 2625=246.7; 2626=284.1; 2627=261.18; 2629=305.3; 2630=337.21; 2631=411.10

20.3.1928 (Norddeutscher Sammler), 65=44.3; 66=590.5; 67=558.4

8.11.1928, 3493=44.3; 3494=37.1; 3495=26.5; 3496=43.5; 3499=92.11; 3500=188.5; 3501=294.6

3502=201.12; 3503=352.2; 3504=302.3; 3505=355.1; 3506=337.14; 3510=448.33; 3512=478.1; 3515=563.1

31.1.1930, 99=11.12; 100=44.3; 101=394.4 102=349.26; 103=107.9

70, 9.12.1932, 491=127.9; 492=44.3; 494=394.4

80, 16.9.1940, 811=186.37

83, 19.8.1941, 131=364.14; 132=271.12; 134=584.7

Stock cat. 17, 1934, 112=127.9; 115=394.4; 116=329.5

Henzen, G., Munthandel, Amerongen

List 116, 2000, 22=85.2

list 122, 2001, 23=85.2

Hesperia Art Bulletin, Philadelphia

In stock 1951=588.27

40/41 (no year), 15=147.7; 16=99.4

list 1, Spring 1951, 71=195.2

Hess, Adolph, Nachf., Frankfurt am Main, Lucerne

In stock 1952=325.5; 343.1; 1961=359.3; 1969=406.1
 89, 27.10.1902, 479=426.2; 482=595.10
 7.10.1907 (Doubles of the Berlin Cabinet), 1690=200.1
 155, 30.4.1917 (J.Horsky), 285=1014.17.
 157, 18.3.1918, 165=131.3; 167=590.5
 6.1.1926 (Löbbecke), 95=163.2
 194, 25.3.1929 (Vogel), 118=337.8; 121=1014.17; 122=573.3
 202, 28.10.1930, 2256=11.12; 2257=133.4; 2258=183.2; 2259=259.9; 2261=349.32;
 2263=411.10
 207, 1.12.1931 (H. Otto), 122=203.7; 123=174.5; 125=356.2; 126=345.4; 127=49.2;
 128=244.6; 129=576.44
 208, 14.12.1931 (Aus dem Besitz eines ausländischen Museums), 95=259.29; 96=358.5;
 97=448.8
 15.2.1934 (H. C. Hoskier), 128=349.22; 129=516.3; 130=596.3; 131=558.4; 132=557.3
 7.3.1935, 248=95.5
 219, 17.10.1933, 32=276.10; 33=337.8
 7.3.1935, 2=1014.28
 224, 18.11.1936, 324=259.57; 325=548.16
 236, 3.4.1939 (Nitsch), 211=11.12; 212=182.9; 213=188.34; 214=294.4; 215=337.19;
 217=107.6; 219=1014.9
 247, 24.6.1978, 36=377.1; 37=109.8; 38=217.5
 249, 13.11.1979, 59=1011.26
 257, 12.11, part 1, 1986, 45=192.45; 46=337.21; 47=1011.14
 list February 1974, 9=109.8
 list April 1976, 2=188.20

Hess-Leu – A. Hess Nachf., Lucerne – Bank Leu, Zürich

4.4.1954=349.3
 27.3.1956, 60=349.2; 61=384.4; 62=445.4; 63=542.13; 64=530.10; 65=602.3;
 66=1016.1; 67=531.1; 68=588.20; 69=1013.21
 16.4.1957, 64=337.12; 65=585.8
 2.4.1958, 47=358.1
 24.3.1959, 51=349.1; 52=340.2; 53=584.1; 54=554.1
 7.4.1960, 65=344.1; 66=596.3
 12.4.1962, 47=14.3; 48=259.18; 49=433.1; 50=591.1
 4.6.1963, 18=1015.10
 24, 16.4.1964, 42=349.22; 43=579.16
 28, 5.5.1965, 49=26.1; 50=202.4; 51=436.3; 52=1007.3

31, 7.12. 1966, 91=272.1; 92=349.19; 96=1011.15
36, 17.4.1968, 54=392.5; 55=531.3
45, 12.5.1970, 36=12.1
49, 28.4.1971 (Jules Desneux), 36=271.5; 37=342.7

Hirsch, G – Münzenhandlung Gerhard Hirsch Nachfolger, Munich

in stock 1953=398.2; 545.11; 545.11; in stock 1964=366.7

17.11.1955, 482=398.2; 483=273.10; 484=559.7

11, 26.6.1956, 95=349.32; 96=163.3

14, 19.9.1957, 547=217.13; 548=170.17;

16, 16.4.1958, 49=160.8

17, 12.6.1958, 5=202.2

19, 25.11.1958, 44=13.9; 45=261.19

20.2.4.1959, 763=339.3

22, 2.12.1959, 127=36.2

25, 28.9.1960, 1738=255.1

26, 11.1.1961, 1744=203.17

31, 28.5.1962, 42=220.44; 43=409.2

35, 25.6.1963, 282=414.6

41, 9.12.1964, 19=428.3

45, 9.12.1965, 1542=241.5

49, 24.10.1966, 527=224.6

53, 26.6.1967, 3038=6.1; 3040=216.24

60, 2.12.1968, 53=201.23

63.1.7. 1969, 2234=366.7

84, 27.6.1973, 10=403.2

97, 22.3.1976, 27=214.7

94, 21.10.1975, 37=216.17

123, 20.1.1981, 2026=333.11

137, 29.6.1983, 10=246.19; 11=287.1

143, 26.9.1984, 26=373.20

145, 27.2.1985, 21=289.4

150.7.5.1986, 35=427.1

152, 26.11.1986, 106=569.4

153, 18.2.1987, 31=573.10

154, 13.5.1987, 52=300.5

156, 25.11.1987, 40=137.5; 41=451.5; 42=569.4

157, 24.2.1988, 28=241.3

158, 4.5.1988, 20=577.6

159, 21.9.1988, 74=318.6; 81=555.2; 82=537.2
160, 23.11.1988, 36=257.5
162, 8.5.1989, 57=228.14
163, 27.9.1989, 60=552.4
164, 29.11.1989, 66=196.3; 67=449.13
167, 26.9.1990, 147=167.8
169, 20.2.1991, 93=139.4; 94=262.21; 95=428.5
170, 22.5.1991, 155=19.7; 157=214.8; 158=349.33
171, 25.9.1991, 70=1011.23
173, 19.2.1992, 69=19.7
174, 13.5.1992, 43=488.20
177, 10.2.1993, 80=188.17; 81=259.28; 82=337.31; 88=579.7
179, 21.9.1993, 98=83.6; 99=285.3; 100=448.6; 102=579.7
180, 24.11.1993, 80=259.28; 81=188.17
182, 4.5.1994, 34=83.6
183, 20.9.1994, 101=530.20
184, 23.11.1994, 70=285.3; 71=83.6; 72=545.2
187, 19.9.1995, 150=285.3; 151=83.6; 152=545.2
188, 22.11.1995, 53=224.10
190, 8.5.1996, 77=83.6; 80=365.3
191, 24.9.1996, 130=285.3; 131=224.10; 132=545.2
194, 19.2.1997, 76=414.8
196, 24.9.1997, 5=1014.26; 6=1011.9; 127=83.6
199, 6.5.1998, 34=249.11; 35=466.2; 36=582.4
201, 24.9.1998, 67=349.20
203, 24.2.1999, 91=376.11
205, 23.9.1999, 79=591.2
208, 17.2.2000, 1538=591.2
210, 20.9.2000, 1230=591.2
211, 21.9.2000, 1229=141.2
212, 22.11.2000, 34=108.2
215, 2.5.2001, 60=591.2
218, 28.11.2001, 65=292.7; 66=591.2
220, 21.2.2002, 1142=284.6
224, 20.11.2002, 31=488.1; 32=466.1
227, 8.5.2003, 37=278.6
229, 17.9.2003, 1564=202.5; 1565=466.1; 1566=577.3
234, 5.5.2004, 56=278.1

Hirsch – Jacob Hirsch, Munich

In stock 1953=269.5; 272.5

8, 18.5.1903, 565=203.5

11, 4.5.1911, 84=1013.13

13, 15.5.1905 (A. Rhusopoulos), 267=259.50; 271=344.1; 273=388.2

14, 27.11.1905 (F. Merkens), 157=1011.12; 158=1015.12;

15, 28.5.1906, 908=1014.23; 917=440.4

16, 6.12.1906, 204=204.4; 206=298.3; 207=410.4; 208=429.4; 210=595.8

17, 2.1907, 392=595.8

18, 27.5.1907, 2224=590.5; 2225=530.16; 2226=532.1

19, 11.11.1907 (Virzi), 98=11.12; 100=294.1; 101=257.4; 106=416.6; 107=438.2;

108=584.4; 109=595.13; 110=589.14; 111=530.14; 112=531.4

20, 13.11.1907 (Virzi), 104=1013.16; 105=1011.12; 106=1015.12; 108=590.5;

109=576.32

21, 16.11.1908 (E. F. Weber), 534=387.6; 535=417.3; 538=1014.10; +539=588.17;
541=536.22

23, 1913, 294=417.3

26, 23.5.1910 (Dubletten Berlin), 56=434.6; 57=1015.1; 59=529.7

29, 9.11.1910 (Lambros, Herzfelder), 69=1015.7

30, 11.5.1911 (Percy Barron), 325=542.5; 326=557.1; 327=573.4

31, 6.5.1912 (Gutekunst), 131=355.1

32, 15.11.1912, 21=34.5; 22=215.5; 2; 24=284.3; 27=438.3

33, 17.11.1913 (F. von Schennis), 297=1013.18; 298=585.4

34, 5.5.1914, 116=161.2; 117=279.3; 118=366.3; 119=588.12

Stock cat. 19.2.1907, 392=595.8; do.1930, 35=1014.17; 36=573.3; 45=337.9

Hirsch, J., New York

In stock in the 1950s=34.1; 48.2; 50.3; 95.8; 116.5; 166.11; 172.8; 188.30; 201.5; 254.2;
269.11; 284.11; 337.27; 349.2; 358.1; 433.1; 445.2; 480.1; 516.17; 529.1; 542.13; 554.1;
585.6; 605.15; 607.3; 607.12; 1011.9 (all de Ciccio collection)

Höfer, Peter, Numismatica Classica, Feldkirch

list 7 (undated), 832=97.1

list 9 (undated), 133=16.2; 134=373.16

list 10 (undated), 332=9.5; 333=193.7

list 12 (undated), 9=215.4

(all lists c. 1980)

Hofmann, Jean Henri, Paris

24.4.1867 (Prosper Dupré), 98=86.4; 101=595.5

Kastner, Gitta, Munich

8, 25.11.1975, 12=80.1; 13=192.9

12, 30.11.1976, 12=162.4

Knopek, H. J., Cologne-Poll

7.4.1978, 35=596.2; 37=609.2

11.5.1979, 48=364.11

Kress, Karl, Münchner Mützhandlung, München

90, 11.6.1951, 79=73.2; 80=26.12

91, 26.11.1951, 17=216.11; 18=B28.1

93, 17.11.1952, 43=249.12

94, 4.4.1953, 29=115.1; 30=224.5

109, 24.10.1958, 30=212.21; 32=337.21; 33=406.1

118, 22.6.1961, 293=336.2

119, 6.9.1961, 116=239.11; 117=542.15

120, 30.11.1961, 119=164.7; 119a=48.1; 120=189.14; 120a=333.12; 120b=13.7

121, 4.12.1961, 137=386.5

123, 4.10.1962, 84=20.2; 85=333.12; 86=36.4; 86a=336.2

124, 29.11.1962, 200=13.7

127, 23.10.1963, 313=204.10; 314=83.4

130, 30.6.1964, 126=89.11; 127=22.9

149, 10.11.1969, 66=200.25

155, 3.10.1972, 304=20.3; 305=333.12

159, 3.4.1974, 356=187.46

163, 8.7.1975, 433=B27

165, 1.4.1976, 312=343.9

168, 15.3.1977, 622=343.9

170, 8.11.1977, 472=B27; 473=145.3

178, 13.11.1980, 416=B27; 417=53.1

182, 23.3.1982, 681=228.5

184, 9.11.1982, 400=53.1

186, 25.10.1983, 424=52.1

191, 2.5.1986, 160=B27

Kricheldorf, Hans Helmuth and Volker, Stuttgart

28.5.1956, 937=351.6; 939=201.24; 940=536.4
5, 20.10.1958, 29=15.1; 30=171.5; 31=403.1; 32=442.2
8, 2.11.1960, 38=180.1; 39=394.1
9, 12.6.1961, 160=386.5; 161=192.1
10, 11.10.1962, 41=416.1
11, 11.10.1962, 44=441.2; 45=187.44
13, 23.9.1963, 34=192.1
21, 6.4.1970, 24=203.17
27, 12.11.1973, 51=166.18
28, 18.6.1974, 34=79.1
29, 3.3.1975, 54=28.2
31, 31.1.1977, 33=377.1
36, 4.12.1982, 20=100.1
41, 25.9.1988, 49=235.4
43, 11.3.1992, 180=155.2
45, 25.7.1996, 33=554.5
46, 17.7.1998, 13=178.4
list 16, 1957, 6=442.2
list 46, June 1960, 48=216.17
list 66, Dec. 1962, 15=545.5
list 72, Nov. 1963, 10=441.2

Kunst und Münzen AG, Lugano

20.6.1977, 46=235.7; 47=376.3; 49=550.6
15.3.1979, 56=377.1
23, 4.2.1982, 54=576.46
24, 29.11.1984, 51=176.1
26, 13.5.1988, 20=13.11; 22=446.6; 24=576.26
list 23, Febr. 1982, 51=34.14; 53=318.5
list 50, 1982, 40=224.15
list 53, Jan. 1984, 114=34.14
list 60, May 1987, 143=376.3
list 62, 1988, 51=224.15
list 63, Jan. 1990, 117=6.5
list 67, Nov. 1992, 3 litra 4 AE

Künker, Fritz Rudolf, Osnabrück

26, 9.3.1994, 41=100.1; 42=B28
34, 8.10.1996, 21=345.5; 22=573.10
46, 9.3.1999, 29=26.6
124, 16.3.2007, 7847=231.17a
136, 10.3.2008, 453=219.1
List 77, 1987, 307=300.5

Kurpfälzische Münzhandlung, Mannheim

9, 11.12.1975, 20, 131.2; 21=376.3
25, 2.12.1983, 52=356.3; 53=208.2
32, 1.6.1987, 49=233.5
33, 16.12.1987, 30=233.5
40, 5.6.1991, 25=223.7; 26=558.8

Kölner Münzkabinett, Cologne

14, 9.4.1974, 7=420.4; 8=238.13; 9=540.2
22, 7.11.1977, 22=166.9
24, 16.10.1978, 33=166.9
25, 9.4.1979, 10=380.2
27, 9.5.1980, 16=550.13
31, 2.11.1981, 17=120.8
32, 4.5.1982, 47=163.12
41, 7.4.1986, 36=187.3
42, 10.11.1986, 11=192.4
46, 21.4.1988, 2032=279.11; 2033=536.17
51, 12.11.1990, 63=483.3; 54=167.2
53, 19.3.1991, 303=569.6
59, 18.11.1993, 6=276.5
73, 7.11.2000, 11=240.1

Lanz, Hermann, Graz

10, 3.12.1977, 51=322.4; 52=317.7; 53=117.14

Lanz, Hubert – Numismatik Lanz, Munich

16, 24.4.1979, 38=276.3
18, 13.5.1980, 27=216.15
20, 13.4.1981, 51=198.1; 52=448.30
22, 10.5.1982, 69=253.10; 70=273.2; 72=545.6; 73=576.41

24, 25.4.1983, 47=228.10; 48=369.1; 50=434.5
 26, 5.12.1983, 60=13.12; 61=123.2
 28, 7.5.1984, 104=20.3
 32, 29.4.1985, 60=238.2; 61=394.2; 62=530.19; 64=588.24
 34, 25.11.1985, 65=475.4; 66=1014.33
 36, 21.4.1986, 54=293.5; 55=230.2; 56=238.2; 57=399.2; 58=588.24
 38, 24.11.1986, 88=337.20; 89=507.2
 40, 25.5.1987, 78=23.1; 79=222.2; 80=176.1
 42, 23.11.1987, 69=272.2
 44, 16.5.1988, 56=399.2
 46, 28.11.1988, 44=344.2; 45=596.2
 48, 22.5.1989, 65=595.3
 52, 14.5.1990, 72=337.7
 60, 11.6.1992, 53=367.10
 66, 22.11.1993, 52=176.1
 68, 6.6.1994, 43=254.5; 44=345.5
 72, 29.5.1995, 110=154.7; 111=218.15
 76, 18.5.1996, 117=337.20; 118=345.5
 78, 25.11.1996, 107=154.7
 92, 4.6.1999, 137=178.4; 138=349.30
 102, 28.5.2001, 64=196.3
 117, 24.11.2003, 100=337.7

Lepczyk, Joseph, East Lansing, Michigan

25.2.1981, 5=266.5
 49, 29.10.1982, 30=74.2
 50, 26.11.1982, 870=507.5
 52, 22.4.1983, 11=359.5
 55, 25.11.1983, 6=201.26
 56, 14.3.1984, 576=196.5; 578=450.11

Leu – Bank Leu, Zürich, from 1996 Leu Numismatik, from 2006 LHS Numismatik

In stock 1951=462.6
 in stock 1954 (Nachlass J. Hirsch) =144.1; 172.8; 188.30; 201.5; 248.2; 251.5; 264.6;
 309.1; 323.3; 344.2; 349.17; 351.8; 358.1; 387.6; 409.2; 411.5; 441.1
 in stock 1960=180.1; 401.2
 in stock 1984=93.2
 2, 25.4.1972, 65=251.3; 66=516.3; 67=417.1; 68=530.21; 69=585.2
 7, 9.5.1973, 46=199.3; 47=349.17; 48=596.3
 13, 29.4.1975, 38=585.6; 39=1011.25

15, 4.5.1976, 47=30.1; 48=254.2; 49=337.6; 50=409.3; 51=529.7; 53=588.20
18, 5.5.1977, 46=251.1; 47=428.4; 48=582.14
20, 25.4.1978, 20=531.6
22, 8.5.1979, 13=605.2
25, 23.4.1980, 46=352.9
28, 5.5.1981, 19=199.8; 20=272.1; 21=414.4; 22=604.12
30, 28.4.1982, 20=19.6; 21=171.9; 22=338.8; 23=601.1
33, 3.5.1983, 215=19.9; 216=198.14; 217=595.9
36, 7.5.1985, 38=1014.24
38, 13.5.1986, 18=570.1; 19=588.11
42, 12.5.1987, 76=11.5; 77=349.10; 78=448.5; 79=595.1
45, 26.5.1988, 28=31.6; 29=579.16; 30=588.12
48, 10.5.1989, 35=585.2; 36=1010.2
50, 29.4.1990, 41=349.5; 42=426.1; 43=548.5
52, 15.5.1991 (Distinguished American Collection), 10=583.1
53, 21.10.1991, 23=585.14; 24=588.21
54, 28.4.1992, 20=393.5
57, 25.5.1993, 17=338.5; 18=448.5
59, 17.5.1994, 51=188.6; 52=349.19; 53=568.1
61, 17.5.1995, 52=421.3
71, 24.10.1997, 45=431.4
72, 12.5.1998, 58=172.3; 59=257.2; 60=349.4; 61=1014.25
74, 19.10.1998, 65=351.3
76, 27.10.1999 (Robert Käppeli), 22=530.11; 23=531.2; 24=588.2; 25=1014.28
77, 11.5.2000, 73=187.19; 74=345.2; 75=590.3
79, 31.10.2000, 325=188.36; 327=259.50; 328=349.12; 329=450.7; 330=529.7;
331=576.44; 336=589.5
81, 16.5.2001, 41=19.9; 42=130.5; 43=399.1; 44=449.3; 45=529.2; 46=536.6; 47=531.4
83, 6.5.2002, 50=125.1; 51=180.8
86, 5.5.2003, 265=337.10; 266=1015.7
91, 10.5.2004, 61=212.11; 62=272.1
102, 29.4.2008=55=215.4; 56=337.2; 57=605.8
List 'Sicilia' 1962, 2=13.10; 3=120.2; 4=179.4; 5=201.2; 6=254.2; 7=259.14; 8=333.8;
9=334.1; 10=339.5; 11=411.5; 12=545.5
list 19, 1984, 1=142.2; 2=449.13
list Autumn 1998, 15=325.5

Leu-MMAG – Leu, Zurich / MMAG, Basel

3.12.1965 (W. Niggeler I), 89=14.11; 90=421.4

28.5.1974 (Aus der Sammlung eines Kunstfreundes (Ch. Gillet) = Kunstfreund),
77=349.10; 78=530.6; 79=580.1; 80=583.2

Malter, Joel L., & Co., Encino, Calif.

42, part 1, 1989, 306=187.16

Martin, C. J., London

list Febr. 1992, G10=255.19

Merzbacher, Eugen, Nachf., Munich

2.11.1909, 2421=131.3; 2428=330.4; 2432=1011.11; 2434=576.31

15.11.1910 (A. S. van Muyden), 187=397.1; 188=95.5; 190=453.1; 191=498.1;
193=576.35

**Mid-American Rare Coin Auctions, The Capitol City Sale, New Carrollton, MD;
G.N.A. sale, Atlanta, GA**

15.2.1985, 554=110.1; 555=259.30; 556=233.1; 557=157.1; 558=329.4; 559=298.1;
560=352.10; 561=530.1; 562=535.1

24.5.1985, 960=367.6; 961=422.1

MMAG – Münzen & Medaillen AG, Basel

In stock 1947=530.6; 530.13

in stock 1953=11.12; 273.10; 349.40; 349.41

in stock 1954=113.1; 228.7; 567.3

in stock 1960=7.1; 180.1; 180.10; 188.3; 188.13; 212.18; 259.15; 291.5; 607.9

in stock 1976=14.3; 141.2; 579.4

8, 8.12.1949, 740=338.5; 741=441.7; 742=445.4

7, 3.12.1948, 391=1014.18

10, 22.6.1951, 188=384.2; 189=531.14; 190=1014.26

13, 17.6.1954, 1015=63.1; 1017=379.6

25, 17.11.1962, 402=1011.22

28, 19.6.1964, 33=331.5; 34=259.5; 35=449.2; 36=576.8

32, 20.10.1966, 28=259.1; 29=254.19; 30=318.2

37, 5.12.1968, 67=258.3; 68=591.1; 69=1013.2

41, 18.6.1970, 25=272.1

47, 30.11.1972, 413=288.1

52, 19.6.1975, 61=79.1; 62=279.2; 63=218.6; 64=530.15

54, 26.10.1978, 81=138.1; 82=450.3; 83=1014.31
61, 7.10.1982, 34=585.10
62, 9.10.1986, 97=340.2
64, 30.1.1984, 23=393.1; 24=1014.28
66, 30.1.1984, 22=19.4; 23=1014.26
68, 15.4.1986, 95=14.11; 96=172.2; 99=582.14; 100=1007.3
72, 6.10.1987 (J. Rosen and other owners), 446=86.1; 503=585.14
75, 4.12.1989, 117=34.6; 118=164.4; 119=187.6; 120=219.1; 122=511.3; 123=1011.25.
76, 19.9.1991(M. Laffaille), 670=338.4
77, 18.9.1992, 17=349.33; 18=453.2
79, 28.2.1994, 95=349.3396=141.4; 97=576.32; 98=1014.19
86, 3.6.1998, 98=448.29
88, 17.5.1999, 58=383.1; 59=478.3; 60=513.1; 62=592.3
89, 14.6. 2000 (Peter M. Suter), 25=187.6; 26=164.4; 27=349.3; 28=393.3; 29=426.1
95, 4.10.2004, 8=93.1
List 7, 1942, 2=244.6
list 24, 1943, 32=364.23
list 35, 1944, 7=15.4
list 113, 1952, 4=35.3
list 118, 1952, 1=321.1
list 143, 1955, 3=567.3
list 152, 1955, 5=442.2
list 178, 1958, 5=259.31
list 183, 1958, 3=567.5
list 208, 1961, 2=44.3
list 214, 1961, 3=134.6
list 218, 1962, 1=310.1
list 238, 1963, 3=27.1
list 253, 1965, 1=16.3
list 260, 1966, 1=54.5; 2=333.1
list 279, 1967, 1=335.4
list 288, 1968, 1=216.19; 2=576.10
list 314, 1970, 3=11.1
list 319, 1971, 5=450.3
list 320, 1971, 1=367.7
list 334, 1972, 2=253.20
list 339, 1972, 4=543.5
list 355, 1974, 2=253.5
list 369, 1975, 13=248.1

list 373, 1975, 10=576.44
list 377, 1976, 3=277.1
list 392, 1977, 6=160.6
list 395, 1977, 2=485.1
list 396, 1978, 2=441.5
list 405, 1978, 2=387.6
list 406, 1978, 15=451; 216=482.2
list 410; 1979, 1=223.1
list 424, 1980, 22=485.5
list 431, 1981, 7=470.1; 8=554.8
list 439, 1981, 7=358.3
list 457, 1983, 2=198.14
list 458, 1983, 6=139.5
list 463, 1984, 1=198.14
list 472, 1984, 15=449.12
list 476, 1985, 5=349.23
list 483, 1985, 6=253.20
list 484, 1986, 4=607.6; 5=610.1; 6=576.41
list 494, 1986, 6=513.1
list 500, 1987, 2=1011.14
list 512, 1988, 3=264.16
list 527, 1984, 4=483.2
list 529, 1990, 2=1015.7
list 532, 1990, 2 =142.11
list 538, 1990, 6=511.1
list 542, 1991, 8=185.1
list 560, 1992, 4=483.5
list 563, 1993, 22=483.5
list 570, 1993, 35=511.1
list 582, 1995, 7=298.4
list 584, 1995, 15=93.1
list 589, 1995, 6=163.7; 7=392.4
list 590, 1995, 28=349.32
list 596, 1996, 3=251.1
list 607, 2001, 27=478.3; 28=488.2

MMGmbH, Weil am Rhein

30, 28.5.2009, 34=B35

MMDeutschland – Münzen & Medaillen Deutschland, Lörrach, and (from 2002)**Nomos AG, Kriens**

- 1, 16.9.1997, 41=116.3; 42=412.2
- 4, 19.3.1999, 22=11.11
- 5, 21.10.1999, 31=201.15; 32=569.4
- 6, 23.3.2000, 17=575.5
- 8, 10.5.2001, 29=180.5
- 9, 4.10.2001, 89=1013.13
- 10, 22.3.2002, 150=366.8
- 11, 7.11.2002
- 12, 11.4.2003, 15=199.9
- 13, 9.10.2003, 544=261.7

Monetarium see SKA-Schweizerische Kreditanstalt**Myers, Robert J., New York**

- 1, 18.11.1971, 45=340.12; 46=342.8; 47=241.6
- 2, 11.5.1972, 31=126.2
- 3, 12.10.1972, 33=238.13; 34=548.20
- 6, 6.12.1973, 45=217.4; 46=604.13
- 9, 5.12.1974, 30=253.3; 31=493.1; 32=576.9
- 12, 4.12.1975, 69=198.15; 70=563.7; 71=576.38
- 13, 9.12.1976, 57=298.8; 58=576.38
- list 15.11.1971, 17=164.19
- list Sept.1972, 10=548.9
- list *A Numismatic Bestiary* 1973, 15=424.1; 16=259.61
- list Febr 1976, 5=576.9
- list Nov. 1977, 19=545.8
- list Jan. 1982, 16=456.1; 17=499.1

Müller, Heinz-W., Münzenhandlung, Solingen

- 16, 2.1.1976, 10=293.10
- 18, 23.9.1976, 12=293.10
- 29, 6.6.1980, 43=142.7
- 30, 11.9.1980, 37=11.17; 38=147.2
- 31, 4.2.1981, 14=283.13; 16=249.10
- 36, 12.2.1982, 16=65.5
- 41, 18.3.1983, 8=217.14
- 46, 22.6.1984, 36=257.3
- 48, 1985, 21=261.14
- 51, 14.2.1986, 16=261.14; 17=241.3

53, 26.9.1986, 22= 373.16; 23=441.13
 59, 23.9.1988, 78=115.10
 64, 9.2.1990, 15= 548.2
 71, 26.6.1992, 54=486.3

Myntuset, Stockholm

List 5, 1984, 8=573.23

Münzhandlung Basel

In stock 1951=351.5; 570.13; 576.32

4, 1.10.1935 (Prince W (aldeck, Arolsen)), 410=291.5; 411=276.1; 412=164.16;
 413=203.15; 414=337.8; 415=373.4; 416=386.5; 417=401.1; 418=1014.28; 419=576.8
 8, 22.3.1937, 102=25.1; 103=371.4; 104=398.4; 105=589.16
 10, 14.3.1938, 83=12.1; 84=49.2; 85=244.6; 86=238.25; 87=1014.1; 88=576.44;
 89=581.11

MünzZentrum W. Albrecht, Cologne (continuation of H. Pilartz)

47, 10.11.1982, 12=379.5; 13=91.8
 53, 13.11.1984, 1465=288.9
 54, 26.3.1985, 47=292.3; 48=256.10
 56, 6.11.1985, 72=167.10
 65, 9.11.1988, 63=189.10
 66, 26.4.1989, 89=192.4; 90=376.3; 92=483.7; 93=570.11
 68, 25.4.1990, 70=245.15; 71=376.3
 71, 3.6.1991, 59=245.15; 60=22.8; 61=576.24
 72, 2.12.1991, 158=367.10; 160=224.16
 76, 10.11.1993, 27=60.4

NAC – Numismatica Ars Classica, Zürich

5, 25.2.1992, 48=349.5; 50=589.3
 7, 1.3.1994, 182=408.1; 183=536.12
 8, 3.4.1995, 114=349.22; 115=530.9; 116=531.6; 117=1013.5; 118=1015.14
 9, 16.4.1996 (Athos Moretti and others), 128=11.5; 129=188.1; 130=216.3; 131=273.2;
 132=349.18; 133=604.1; 134=588.19; 135=597.2; 136=593.2; 137=1014.11
 10, 9.4.1997 (Athos Moretti), 92=383.2; 93=585.8; 94=580.6; 96=1015.4
 13, 8.10.1998 (Antikenmuseum Basel, Athos Moretti), 253=259.18; 254=416.3;
 257=530.14; 259=581.1; 261=589.11; 262=602.1; 263=605.11
 18, 29.3.2000, 62=31.6; 63=144.1; 64=585.11; 65=605.4; 66=1013.1; 67=610.1
 21, 17.5. 2001, 42=606.1
 23, 19.3. 2002, 1076=216.2; 1077=593.2; 1078=609.4

25, 25.6.2003, 50=223.2; 52=585.8; 53=605.11; 54=607.3
 26, 26.10.1995, 97=291.2
 27, 12.5.2004, 67=604.1; 68=1013.5
 29, 11.3.2005, 68=445.2
 33, 5.4.2006, 61=529.4
 39, 16.5.2007 (Barry Feirstein, part 1), 8=531.2
 46, 2.4.2008, 179=605.11
 A, 27.2.1991, 1165=173.4; 1166=261.16; 1167=393.1
 B, 25.2.1992, 1105=553.1
 C, 11.3.1993, 1179=445.5; 1181=576.46
 D, 2.3.1994, 1213=92.6; 1214=248.9; 1215=265.4; 1216=252.1; 1217=329.5
 E, 4.4.1994, 2148=349.38; 2149=373.19; 2150=588.25
 G, 10.4.1997, 1070=334.2
 H, 30.4.1998, 1131=256.8; 1132=216.22; 1133=415.3; 1134=448.23; 1136=611.1;
 1137=546.4
 L, 18.5.2001, 1134=264.16; 1135=320.1
 M, 20.3.2002, 2137=349.8; 2138=440.2
 N, 26.6.2003, 1104=542.9
 O, 13.5.2004, 1254=244.4; 1255=261.5; 1259=577.4; 1260=545.7; 1483=33.2;
 1484=243.3; 1485=259.12; 1486=105.1; 1488=1014.15
 P, 12.5.2005, 1137=441.1
 Q, 6.4.2006, 1158=B32

Naville & Cie, Lucien, Lucerne

1, 14.3.1921(pr. 1920, Pozzi, new print Zurich 1966), 365=255.8;366=193.3; 367=188.8;
 368=283.13; 369=203.13; 370=224.5;371=238.22; 373=258.8; 374=259.43; 375=128.8;
 376=358.1; 377=348.3; 378=364.18; 379=417.1; 380=440.4; 381=390.2; 382=438.3;
 383=450.5; 385=1013.12; 386=1007.3; 387=1009.2; 388=588.22; 389=533.1;
 390=530.7; 391=536.11; 392=564.1
 4, 17.6.1922 (Michailowitsch, Evans), 198=36.6; 199=40.6; 200=14.9; 201=115.4;
 203=259.33; 204=440.5; 205=442.2; 206=588.13; 207=580.2
 5, 18.6.1923 (Doubles of the British Museum, Bertier de la Garde), 802=12.6; 803=40.7;
 804=19.4; 805=88.6; 806=110.9; 807=243.2; 808=291.6; 809=162.1; 811=192.5;
 812=275.8;813=275.7;814=283.14;815=238.14;816=259.31;817=305.3;818=352.13;
 819=421.3; 821=448.16; 822=448.10; 824=505.1; 825=1013.17; 826=1011.18;
 827=530.21; 828=576.5; 829=576.26; 830=581.12; 831=573.13; 831=605.10
 6, 28.1.1924 (Bement), 333=34.5; 334=349.36; 335=322.3; 336=387.2; 338=171.8;
 339=275.17; 340=216.8; 341=453.1; 342=1014.28; 343=595.4; 344=531.17;
 345=529.7; 346=558.4; 347=546.3
 10, 5.6.1925 (Petrovicz, Rogers), 171=128.8; 172=115.4; 1770564.1; 174=349.44;
 175=376.10; 176=417.1

New York Sale – Baldwin’s, I. Vecchi, London, M&M Numismatics, Washington, D. Markov, New York

- 1, 3.12.1998, 22=187.38; 23=331.4; 24=446.4; 25=547.1; 26=550.15
 3, 7.12.2000, 84=215.4; 85=592.3
 4, 17.1.2002, 44=548.14

NFA – Numismatic Fine Arts, Beverly Hills, Calif.

- 2, 25.3.1976, 35=1011.24
 4, 24.3.1977, 55=467.6
 5, 23.2.1978, 27=198.13
 6, 27.2.1979, 42=272.1
 7, 6.12.1979, 43=276.10; 44=605.14
 8, 6.6.1980 (Museum of Fine Art, Boston and others), 16=423.2
 9, 10.12.1980, 41=113.1; 42=155.1; 45=382.1; 46=432.1
 10, 17.9.1981, 30=1014.7
 11, 8.12.1982, 20=508.1
 14, 29.11.1984, 31=175.4
 16, 2.12.1985, 36=423.2; 37=1014.2
 18, 31.3.1987, 28=423.2
 19, 18.12.1987, 75=37.6
 20, 9.3.1988, 620=587.1
 22, 1.6.1989, 184=382.1
 29, 13.8.1992, 18=1011.25
 MB 51.1.1982, 47=361.1; 48=163.10; 49=545.9
 MB 27.6.1986, 84=215.2; 85=302.3; 86=494.3; 87=579.13
 MB 14.12.1989, 356=378.1
 MB 18.10.1990 (George G. Tucker), 59=467.6; 60=508.1; 469=564.2; 470=1011.15
 MB 26.10.1995, “Autumn Sale 95”, 94=530.20; 95=547.4
 Publ. 5, March 1978, 8=545.9
 Publ. 10, Sept.–Oct. 1978, 143=228.15; 143a=276.10
 Publ. 2, March 1986, 4=448.35; 5=557.5
 Publ. 41, June 1992, 58=398.5

NFA – Bank Leu

- 29.3.1985 (Garrett collection, part III), 118=157.2

de Nicola, Luigi, Rome

in stock 1951=31.8; 402.4

list June 1961, 207=380.4

list Sept. 1961, 176=337.36

list Dec. 1961, 192=380.4

list Dec. 1962, 177=188.45

list June 1963, 223=188.45

list March 1966, 148=167.12; 149=111.11; 150=175.36; 151=172.18; 152=276.15;
153=261.29; 155=548.13

list June 1966, 156=188.45

list Sept. 1966, 176=163.19

list Sept. 1966, 174=B29.1; 175= 84.7

list Dec. 1977, 45=46.7

See also Canessa/de Nicola

Nomisma, Paris-Banque Populaire du Nord, Marcq-en-Barcoeur

list "Numismatique" March 1985, 12=227.1; 13=92.8

Nomos, Kriens

in stock 1979=139.3; 492.2; 573.12

Nomos Numismatists, Zurich

1, 6.5.2009, 15=30.1; 16=216.2; 17=530.11A; 18=592.1

2, 18.5.2010, 17=232.2

Nordlinds Mynthandel, Stockholm

in stock 1989=485.5

Num.Class. – Numismatica Classica SA, Schaan, Liechtenstein

list 4 (no year), 221=272.2

list 5 (no year), 522=244.2

list 7 (no year), 832=97.1; 833=267.1

Numismatica, Wien

4, 22.4.1974, 46=265.1; 47=379.5; 48=391.2

5, 13.2.1975, 3=371.9

7, 10.10.1975, 29=352.14

8, 22.5.1975, 20=265.1

13, 9.11.1976, 55= 265.1; 56=275.29

The Numismatic Review and Coin Galleries, New York

vol. 3, no. 4, 1962, D23= 371.7
vol. 5, no. 3, 1964, C37=241.7; C38=377.4
vol. 13, no. 2, 1972, B22=293.10
vol. ? no. 1, 1977, A63=301.3

H. G. Oldenburg, Kiel

26, 1.11.1991, 37=255.1
list 14, Oct.1985, 26=441.13

Oslo Mynthandel, Oslo

7, 10.10.1981, 219=257.6
30, 6.11.1992, 1424=377.5
34, 7.10.1994, 897=377.5
35, 1.4.1995, 1310=377.5
36, 6.10.1995, 1072=271.13
38, 4.10.1996, 767
41, 25.4.1998, 1005=12.6
42, 24.10.1998, 903=204.11

Pegasi Coins, Ann Arbor, Mi.

MB 20, 21.4.2009, 51=9.4; 52=289.3
list 100, 17.2.1997, 51=301.5
list 105, 19.1.1998, 39=301.5
list 106, 16.3.1998, 41=596.5
list 122, 26.3.2001, 45=288.8
list 127, 1.7.2002, 49=288.8
list 129, 8.7.2003, 52=289.3
list 133, 2.8. 2005, 27=B6

Peus – Dr.Busso Peus Nachf., Frankfurt

250, 15.3.1954 (Lejeune), 113=182.9; 114=34.4; 115= B16; 116=348.2; 117=456.1;
118=1014.9
256, 14.6.1957, 14=352.14; 15=160.8
261, 20.6.1960, 765=352.14
264, 1.10.1963, 2681=228.13
267, 12.10.1967, 9=236.9
274, 29.10.1970, 1525=18.1
277, 25.10.1971, 22=228.1; 23=402.4

280, 30.10.1972 (Schwede), 49=117.2
282, 30.10.1973, 36=248.7; 37=571.3
284, 9.12.1974, 95=376.3; 96=92.2
288, 30.9.1975, 77=367.5
291, 30.3.1977, 135=364.3; 136=172.6
292, 25.10.1977, 5022=569.4
294, 15.3.1978, 139=154.1; 241.1
296, 31.10.1978, 39=216.18
297, 3.4.1979, 29=343.2
298, 23.10.1979, 22=550.17
299, 6.5.1980, 69=373.16
300, 28.10.1980, 52=135.1; 53=287.1; 54=254.15; 55=483.8
301, 25.5.1981, 144=162.4; 145=203.13; 146=238.3; 147=489.1; 148=105.3
308, 19.10.1983, 69=376.3; 71=135.1
316, 5.11.1986, 88=147.4; 89=253.5
323, 1.11.1988, 706=163.12
324, 5.4.1989, 48=241.1
329, 31.10.1990, 79=264.11; 80=259.42
332, 23.10.1991(A Distinguished American Collection), 44=218.3; 45=595.10
333, 6.5.1992, 174=265.18
334, 4.11.1992, 103=187.12; 104=216.17; 105=244.9; 106=196.5
337, 3.11.1993, 43=416.3
340, 2.11.1994, 100=136.1; 101=325.5; 102=429.3; 103=498.4; 104=607.11
343, 26.4.1995, 29=607.7
345, 1.11.1995, 34=467.4; 35=607.11
348, 2.5.1996, 28=244.9; 29=196.5; 30=498.5
349, 2.5.1996, 29=238.10; 30=374.1; 31=588.19; 32=589.3
351, 23.4.1997, 44=330.1; 45=343.6
353, 29.10.1997, 49=117.2; 50=343.6; 51=415.2
355, 27.4.1998 (Hammerich et al.), 48=103.5; 49=379.1
361, 3.11.1999, 10=265.18
366, 25.10.2000, 26=187.19; 27=605.5; 28=589.6
368, 25.4.2001, 30=216.17; 31=421.3; 32=605.5
371, 24.4.2002, 22=605.5
372, 3.10.2002, 83=475.4
374, 23.4.2003, 31=605.5
376, 29.10.2003, 146=487.1
380, 3.11.2004, 153=276.1; 154=256.3
list 11, 1969, 21=200.28

Pilartz, H., Cologne continued as MünzZentrum

4, 16.5.1961, 4=95.8
11, 24.3.1966, 97=187.32
List 28, 1967, 66=215.18
List 31, 1967, 2=215.18

Platt, Clément, Paris

in stock 1953=201.13; 271.17; 364.16
19.5.1921, 29=329.6; 30=542.21
27.3.1922, 200=1014.7; 201=364.24; 203=542.22
13.12.1931, 163=1014.25
3.4.1933, 35=337.12; 36=138.7
15.12.1933, 12=47.1

Poindessault, Bernhard, Paris

18.6.1980, 34=171.6

Poindessault and Védrines, Paris

15.11.1991 (Pierre Carlo Vian), 66=171.6

Rasmussen, Arne Bruun, from 1985 Jesper Bruun, Copenhagen

142, 9.4.1962, 170=17.1; 171=340.11
245, 10.3.1970 (Proschowsky), 337=11.1; 338=43.5; 341=367.9; 342=402.3
349, 16.6.1976, 74=317.4
367, 6.10.1977, 32=373.1
464, 11.9.1984, 5=289.1
498, 17.9.1987, 3015=234.7; 3016=279.14

Ratto, Rodolfo, Geneva, Lugano, Milan

in stock 1957=120.2; 141.6; 211.2; 283.7; 340.2; 390.2; 545.14
26.4.1909 (Numismatico straniero), 1096=1014.20; 1101=302.3; 1105=595.8
Stock cat. 1926, 6=13.8; 14=301.4; 15=310.1; 18=427.3
(Lugano) 4.4.1927, 325=1011.18; 326=19.1; 328=49.1; 329=182.7; 330=115.7;
334=352.6; 335=311.2; 339=559.6
(Lugano) 24.6.1929 (E.Rogers), 54=13.10; 55=26.6; 56=42.2; 57=166.11; 58=182.9;
59=276.1; 60=255.1; 61=269.8; 62=228.2; 63=220.2; 64=261.2; 65=269.3; 66=283.15;
67=256.6; 68=435.3; 69=332.5; 70=310.1; 71=337.27; 72=559.6
(Paris) 4.6.1931, 36=349.9; 37=337.15
11.3.1933, 44=342.7

(Lugano) 9.10.1934 (Benassy-Philippe et al.), 46=294.8; 47=259.10; 48=305.3
(Milan) stock cat. XI, 1934, 977=13.10; 980=37.4; 981=26.6; 983=178.5; 990=282.7;
997=255.1; 1000=220.2; 1001=228.2; 1002=262.1; 1005=257.8; 1006=256.6;
1007=286.2; 1008=303.1; 1010=332.5; 1011=354.1; 1013=434.2; 1014=427.3;
1015=42.2; 1016=269.8; 1017=559.6; 1019=573.32

Rauch, Hans Dieter, Wien

4.6.1970, 216=419.1
32, 16.1.1984, 55=118.1; 57=540.3
33, 21.5.1984, 63=367.3; 64=577.7
36, 20.1.1986, 20=570.8
37, 20.10.1986, 42=386.6; 43=19.7; 45=265.16
39, 5.10.1987, 46=265.16.
41, 6.6.1988, 23=573.31; 24=537.3
42, 16.1.1989, 2873=555.2; 2874=338.6
44, 12.2.1990, 89=378.2
57, 11.4.1996, 34=330.1
69, 13.5.2002, 41=302.4
See also Tkalec & Rauch

Riechmann, A. & Co., Halle

30, 11.12.1924, 202=231.1; 203=205.7; 204=239.9; 205=259.25; 206=333.11;
207=462.3; 208=582.1; 209=548.8;
list 1, May 1921, 144=63.1; 145=266.1; 146=206.6; 147=283.3; 149=379.6

Rist, F.J., Nailstone, Nuneaton, Warks.

list Autumn 1994, G6=255.19
list Febr. 1993, G6=255.19
list Summer 1994, G7=255.19

Rollin et Feuardent, Paris

22.5.1908, 110=418.3; 112=585.13
9.5.1910, 120=595.1

Rosenberg, Sally, Frankfurt

55, 8.9.1924, 77=576.26
64, 19.6.1928, 1390=303.1
72, 11.7.1932, 157=60.8; 158=283.15; 159=348.2; 161=1014.10; 162=558.4
79, 6.6.1934, 877=283.15
81, 21.2.1935, 1231=352.14

Salton, Mark M., New York

In stock 1952=259.50; 312.1

2.2.1954, 5=312.1

Sambon, A., Paris, Rome

31.5.1881, 727=1009.2; 729=530.12

9.5.1903 (Maddalena), 586=531.7

19.12.1907 (G. de Ciccio), 76=1015.10; 77=397.1; 79=434.4; 81=109.7; 82=128.8; 83=95.5; 84=265.6; 85=238.19; 86=481.1; 87=428.4; 88=399.4; 90=531.7; 91=604.7; 92=576.17; 93=577.9; 94=605.8

14.3.1923 (G.Picard), 240=1013.3; 241=38.1; 243= 137.6; 246=421.1

26.5.1925, 147=39.1

Sambon, A., Paris – Canessa, C. & E., Naples

24.3.1902, 391=1014.4; 393=371.5

19.2.1907, 89=450.6

18.11.1907 (F. Martinetti & G. Nervegna), 655(a)=12.5; 655(b)=68.4; 659=576.5

22.6.1906, 155=418.3; 156=590.6

27.6.1927, 631=1014.6; 632=26.6; 633=57.4; 634=43.1; 635=39.1; 636=22.6; 637=20.3; 638=13.3; 639=13.10; 640=332.6; 641=328.3; 642=365.4; 643=334.4; 644=B26.4; 645=337.11; 646=337.33; 647=317.8; 648=235.2; 649=133.1; 650=117.4; 651=155.1; 652=91.6; 653=192.6; 654=201.1; 655=198.17; 656=233.4; 657=209.3; 658=216.13; 659=238.27; 660=238.16; 661=259.17; 662=261.1; 663=459.1; 664=463.1; 666=580.14; 668=544.3

Sangiorgi, G., Galleria, Naples

15.4.1907 (Carlo Strozzi), 1288=1008.2

Santamaria, Piero & Paulo, Rome

in stock 1951=158.1; 261.3; 482.1; 516.11; 537.4

6.4.1908, 136=1011.15; 138=339.2; 142=478.1

7.3.1910 (Hartwig), 541=315.1

27.3.1928 (Banca Italia di Sconto, distinto collezionista), 81=364.17; 82=261.3; A83=259.11; A84=142.4; 85=188.5

21.11.1932, A51=259.11; 52=261.3

24.1.1938, A76=288.4; 77=349.16; 78=1014.11; A79=541.1

12.10.1949 (A. Magnaguti I), 269=11.1; 270=352.2; 271=218.4; 272=187.42; 276=1014.10

25.10.1951 (Signorelli), 288=148.4; 289=172.4; 290=205.5; 291=441.8

SBV – Schweizerischer Bankverein, Zurich

2, 27.10.1977, 36=576.22; 37=597.2; 38=585.10
 5, 16.10.1979, 57=373.16; 58=172.3; 60=585.10
 6, 19.4.1980, 24=215.9
 21, 24.1.1989, 12=259.7; 13=453.2; 14=558.4; 15=605.10
 28, 17.9.1991, 33=273.10
 29, 28.1.1992, 25=326.2; 26=386.3; 27=163.6
 33, 20.9.1993, 84=B28; 85=377.1; 86=421.7; 87=349.20; 88=207.1
 35, 13.9.1994, 13=377.1
 38, 12.9.1995, 46=589.7
 43, 15.9.1997, 47=588.20; 48=349.20
 list Autumn 1976, 10=175.9; 11=217.12
 list Summer 1990, 3=287.6

SKA – Schweizerische Kreditanstalt, Berne (CS-Crédit Suisse)

2, 27.4.1984, 81=196.3
 3, 19.4.1985, 96=1014.33
 4, 3.12.1985, 22=176.1
 5, 18.4.1986, 83=180.3; 84=394.2
 7, 27.4.1987, 90=212.18; 91=349.40; 92=446.5
 list 38, 1982, 36=352.12; 37=349.20; 39=1015.6
 list 41, 1983, 28=394.2
 list Monetarium 49, spring 1988, 8=386.7
 list Monetarium 52, autumn 1989, 24=366.5
 list Monetarium 53, spring 1990, 24=238.21; 25=338.9
 list Monetarium 54, autumn 1990, 21=441.4
 list Monetarium 55, spring 1991, 12=199.8; 13=333.5
 list Monetarium 57, spring 1992, 12=212.4
 list Monetarium 59, spring 1993, 16=188.4; 17=254.7
 list Monetarium 60, autumn 1993, 15=187.12; 20=203.17
 list Monetarium 61, spring 1994, 4=351.2; 5=548.7
 list Monetarium 62, autumn 1994, 31=282.5; 32=187.36
 list Monetarium 63, spring 1995, 25=187.36; 26=373.5

Schlessinger, Felix, Berlin

26.2.1934 (Ermitage), 35=203.8; 36=200.22; 38=20.6; 39=14.2
 13, 4.2.1935 (Ermitage), 217=43.9; 218=187.27; 219=137.5; 220=167.9; 221=259.7;
 222=386.1; 223=352.1; 225=584.7; 226=531.15; 227=449.3

Schulman, Jacques, Amsterdam

in stock 1951=139.6; 423.1

21.10.1912, 11=429.4

17.6.1924, 301=259.5

16.12.1926, 93=349.36; 94=171.8; 96=273.8; 97=259.5; 98=261.19; 99=216.8;
100=558.4; 101=551.7

8.6.1931, 45=19.8; 46=349.27; 47=423.1; 48=312.1; 49=261.19

30.3.1936, 27=1011.13; 29=103.5

7.6.1937 (Moricand), 85=259.50; 86=261.19; 87=409.2; 88=312.1; 89=423.1;
90=349.27

31.5.1938, 67=253.7; 68=232.1; 69=133.4; 71=224.9; 73=446.11

225, 14.2.1955, 1209=349.40

231, 6.3.1958, 3613=359.4; 3614=1011.9; 3615=116.3

232, 9.3.1959, 1288=175.8; 1289=128.12; 1290=367.8

233, 28.3.1960, 1037=367.8

243, 8.6.1966 (Richard J. Graham), 1080=148.6; 1081=379.3

245, 6.6.1967, 1305=428.3

248, 19.11.1968, 31=203.17

256, 28.5.1973, 1129=339.1

262, 1972, 1022=468.3; 1023=540.7

264, 26.4.1976, 5032=187.13

265, 28.9.1976, 48=40.8; 49=252.4

274, 23.3.1982, 4009=34.3

List Febr.–March 1973 (New York), 566=548.22

list 208, 1976, 13=196.9

list 211, 1977, 11=269.3

list 223, 1982, 105=171.9

list 225, 1983, 111=171.9

Schulten & Co., Münzhandlung, Cologne

21.10.1986, 3=451.5

1.4.1987, 29=582.10

20.10.1987, 75=35.1

20.10.1988, 48=35.1; 49=236.2; 50=192.4

18.10.1989, 24=241.3

list Dec. 1986, 3=582.10

list Jan. 1988, 2=582.10

Seaby Coin & Medal Bulletin, London

466, March 1957, AG113=164.8
 499, Dec. 1959, A1110=329.5
 Jan. 1975, A3=236.8
 690, Febr. 1976, A113=171.8;
 June 1976, A502=102.1
 701, Sept. 1977, C699=265.10
 720, May 1978, C439=264.9; Aug. 1978, C772=317.9
 732, Aug. 1979, C772=317.9
 739, Dec. 1979, C1281=254.16
 Aug. 1988, B142=236.8
 761, Jan. 1982, B9=B11
 838, March 1989, B4=334.6

Sotheby – Sotheby-Wilkinson-Hodge, from 1925 Sotheby & Co., London, Zürich, New York

19.7.1841 (J. R. Stewart), 212=576.6
 8.7.1844, 251=393.2
 31.7.1848 (Pembroke), 489=1014.13
 21.1.1874, 337=290.2
 6.5.1895 (Earl of Ashburnham), 30=532.1; 31=530.4
 23.3.1896 (H. Montagy I), 88=530.2
 15.6.1896 (Edward Bunbury), 259=1013.5; 264=531.13; 265=530.2; 266=595.4;
 269=333.3271=384.4
 15.3.1897 (Montagy II), 40=603.1; 41=1011.2; 42=588.8
 20.1.1898 (Archaeologist and Traveller (A. Evans)), 38=410.3; 40=594.1; 41=531.5;
 42=530.9; 43=588.4
 7.7.1898, 25=388.1; 36=393.5
 28.5.1900 (Late collector), 83=583.2
 24.4.1907 (A. Delbeke), 41=342.7; 42=311.2
 4.5.1908 (H. Osborne =O'Hagen), 106=1011.2; 113=590.4
 3.2.1909 (Frank Sherman Benson), 170=392.1; 171=348.2; 173=238.10; 176=595.4;
 177=531.13; 178=530.2
 20.4.1909 (American collector), 11=548.6
 5.7.1910, 9=421.3; 10=446.3
 13.6.1911 (J. G. Sandeman), 17=1009.1; 19=431.6; 20=436.4; 22=443.1
 20.7.1914 (L. G. Schlesinger, Y. Guzman), 6=1015.7; 7=298.6
 8.5.1916 (Arthur C. Headlam), 9=11.12; 11=43.15; 91=340.4; 92=398.3; 95=311.2;
 97=388.2; 100=446.3

20.12.1920, 38=311.2
 6.7.1921 (Well-known collector (E. J. Seltman)), 197=259.57; 198=399.3
 15.11.1927, 22=382.1
 21.2.1929, 14=392.1
 9.3.1936, 6=298.6
 4.4.1973, 107=134.1; 113=1013.5
 (Zurich) 4.4.1973 (Metropolitan Museum, John Ward collection), 107=134.1;
 109=388.1; 110=393.5; 111=410.3; 114=588.4; 115=530.9; 116=577.5
 (Zurich) 7.5.1975, 37=187.27; 39=1014.18
 8.10.1975, 8=323.6
 1.2.1976, 818=265.21
 11.1.1978, 47=290.5
 3.12.1981, 13=329.8
 12.5.1983 (J. A. Spranger), 92=137.3; 93=259.10; 94=303.1; 96=573.10
 (Zurich) 9.6.1983 (Vigil M. Brand, part 3), 22=585.4; 23=536.11; 24=1013.12
 7.10.1986, 93=584.6
 (New York) 19.6.1990 (Nelson Bunker Hunt), 76=583.2; 77=600.3
 (New York) 21.6.1990 (Nelson Bunker Hunt), 219=188.36; 220=349.25; 221=1013.8;
 222=580.1
 5.10.1990, 13=229.3; 19=394.3
 (Geneva) 12.11.1990, 2=596.2
 (New York) 19.6.1991 (Nelson Bunker Hunt, William Herbert Hunt), 54=398.5;
 55=585.10; 56=588.20.
 4.12.1990, 22=602.3
 5.10.1990, 14=253.1; 20=588.4
 8.10.1992, 1019=322.8
 27.10.1993, 191=351.2

Spink & Sons, London, Zurich

In stock 1952=57.4; 187.42; 198.19; 218.7; 251.9; 337.2; 272.4; 337.4
 In stock 1956=37.1
 15.5.1981, 19=1011.25
 40, 6.12.1984, 203=1011.25
 (Zurich) 20, 6.10.1986, 62=218.3; 63=188.4; 64=428.4; 65=576.10
 65, 5.10.1988, 11=1013.18
 71, 11.10.1989 (Christopher Blunt), 14=138.3
 NCirc 69 May 1961, 5006=36.2
 NCirc 77 Dec. 1969, 9771 (ill. no. 15)=342.8
 NCirc 78 Sept.–Oct. 1970, 8089=40.8

NCirc 79 Jan. 1971, 7=126.2
 NCirc 79 March 1971, 2646=45.4
 NCirc 79 Dec.1971, 11274=604.13
 NCirc 80 Oct. 1972, 9009=252.4
 NCirc 82 Oct.1974, 8092=141.3
 NCirc 82 Nov.1974, 8906=275.31
 NCirc 83 Oct. 1975, 8522=180.11
 NCirc 84 Nov. 1976, 8987=236.6; 8988=163.11; 8989=536.14
 NCirc 85 Jan. 1977, 5=231.5
 NCirc 85 Febr. 1977, 938=141.3
 NCirc 85 Oct. 1977, 9673=168.1
 NCirc 86 March 1978, 3163=217.4
 NCirc 86 July–Aug. 1978, 3163=217.4; 9385=141.3
 NCirc 87 March 1979, 2481=271.7
 NCirc 87 Dec. 1979, 11148=288.7
 NCirc 89 Febr. 1981, 743=143.2; 744=405.2
 NCirc 94 Jan. 1986, 30=349.40
 NCirc 94 Febr. 1986, 853=259.17
 NCirc 94 May 1986, 3842a=26.3
 NCirc 95 March 1987, 1245=559.1
 NCirc 95 July 1987, 4219=446.5
 NCirc 95 Nov. 1987, 6265=559.1
 NCirc 98 Sept. 1990, 1543=34.6
 NCirc 99 Sept. 1991, 5410=573.17
 NCirc 106 Sept. 1998, 5411=48.2
 NCirc 110 May 2002, GKO625=51.1

Spink – Galerie des Monnaies, Geneva

10.10.1977; 64=44.2

Stack's, New York

24.10.1941, 924=11.13
 6.1.1965, A2=544.3
 10.6.1970 (F. S. Knobloch), 115=31.1; 118=399.1; 119=432.3
 5.3.1971 (part 1), 95=322.10
 4.12.1976, 26=302.1; 27=261.11
 17.9.1980, 40=349.32
 9.12.1991, 113=333.1; 114=585.10
 10.6.1997, 3=1014.11
 list 5.2.1964, B25=180.9
 list 10, 1970, D12=542.11

Sternberg, Frank, Zürich

in stock 1957=172.2; 187.9; 275.18; 276.5

10, 25.11.1980, 17=178.4; 18=240.5; 19=244.2

12, 18.11.1982, 58=152.1; 59=142.3; 60=502.1

16, 15.11.1985, 50=259.11

20, 20.4.1988, 173=185.2; 174=188.6; 175=318.6; 176=393.3; 177=421.7; 178=448.13;

179=510.1; 183=604.1; 184=550.1; 185=609.1; 186=607.2; 174=188.6

24, 19.11.1990, 13=254.3

31, 27.10.1996, 400=175.2; 404=516.5; 405=544.5; 406=605.5

35, 28.10.2000, 194=411.10

Strandberg Mynthandel, Stockholm

in stock 1976= 325.3

Superior Galleries Stamp and Coin, Beverly Hill

3.10.1977, 904=333.8

Tellman, Afint, Vaduz

45, 1.7.1961, 34

Tkalec, A., Zurich

28.10.1994, 35=125.1

29.2.2000, 23=439.2

19.2.2001, 21=142.1; 22=187.7; 23=482.2

Tkalec & Rauch

16.11.1987, 39=212.11

25.4.1989, 17=349.21

24.10.2003, 25=531.16

Toderi, Giuseppe, Numismatica, Florence

list (no year), 130= 84.7

list April 1970, 115=272.9

list 1, Febr. 1971, 114=215.19

list 2 (undated but =1975), 76=238.35; 99=20.16

list 3 (undated but =1975), 97=246.6

Triton, New York, Classical Numismatic Group, Inc./Freeman & Sear/Numismatica Ars Classica.

I, 2.12.1997 (A Prominent European Collection), 188=26.6; 189=110.5; 190=199.1; 191=180.8; 192=189.2; 193; 194; 195=384.2; 196=393.5; 197=530.10; 198=576.40
 II, 1.12.1998 (Orme Lewis Sr.; A Prominent European Collection), 145=11.4; 146=258.2; 147=431.6; 148=399.8; 150=597.2; 151=589.12
 III, 30.11.1999, 149=200.14; 150=259.18
 IV, 5.12.2000, 80=76.1; 81=101.2; 82=142.2; 83=588.26
 V, 15.1.2002 (R. Schonwalter), 1156=203.18; 1157=187.16; 1158=180.7; 1159=371.2; 1160=349.21; 1161=589.3; 1163=595.6
 VI, 14.1.2003, 90=187.6; 91=171.14; 193=431.4; 94=1014.29
 VIII, 11.1.2005, 54=215.4

UBS Numismatik, Zürich

15.9.1998, 111=43.6; 112=412.1; 114=580.15
 49, 2000, 25=386.5; 26=7.1; 27=212.21; 28=545.5
 16.9.2002, 1696=34.14
 53, 2002, 20=288.6

Waddell, Edward J., Gaithersburg, Washington DC area

2, 12.9.1987, 56=7.3; 57=59.5; 58=188.4; 59=259.8; 60=253.26; 61A=412.3
 5, 1997, 88=393.5
 6, 1997, 166=448.20; 168=483.4
 list Oct.–Nov. 1981, 12=219.4
 list 2.2.1982, 75=512.1; 76=588.3
 list July 1985, 22=576.15
 Internet (Ancient Coins) 13.5.1998, 27116=11.5

Vecchi, Italo, London

1.2.1996, 165=254.9
 5, 5.3.1997, 86=322.2; 87=336.2; 89=571.2
 6, 9.6.1997, 164=171.19; 165=259.32
 7, 6.10.1997, 150=479.2
 10.24.3.1998, 101=259.47; 102=284.8
 16, 9.10.1999, 59=171.14
 list 25, 1981, 10=584.23
 list July 1985, 2107.3

Vecchi, V. C. & Sons, London

10.10.1983, 59=318.5; 60=205.14; 61=196.15; 62=261.8
8.10.1984, 41=258.14; 44=394.2

Védrines, Josiane, Paris

MB 30.12.1981, 2=141.2
MB 22.6.1982, 8=187.39
MB 29.12.1982, 15=217.11
MB 8.7.1983, 7=364.9
MB 29.12.1983, 5=349.11
MB 7.7.1984, 11=349.20
MB 8.1.1986, 17=141.2
MB 30.3.1989, 8=216.16
MB 27.3.1990, 11=225.2; 12=301.2

See also Poindessault-Védrines

Vinchon, Jean, Paris

20.5.1959, 374=410.4
25.4.1960, 170=544.9
27.2.1961, 50=14.9; 51=373.15; 52=182.7; 53=1013.9
24.11.1969, 89=349.45
6.5.1971, 25=167.11
3.3.1975, 7=359.4
22.4.1977, 5=416.5
30.6.1978, 21=1013.9
25.2.1980, 8=200.26
14.4.1984 (Comtesse de Béhague), 23=395.1; 24=1014.15; 25=530.14
13.4.1985 (Amateur (R. P. Pflieger)), 64=469.4; 65=337.1; 66=139.1; 67=531.18;
68=530.16; 69=551.2; 70=580.2; 71=584.6
11.1986, 54=373.11; 55=371.6; 56=349.45
11.4.1988, 231=259.9; 232=120.4; 233=373.9; 234=172.11; 235=265.9; 236=244.5;
237=461.1; 238=512.2; 239=580.3
14.3.1989, 60=245.12; 61=394.5
4.10.1989, 2=1015.7
23.4.1990, 570=172.11
13.4.1991, 10=142.2
18.5.1994 (Manuel Canova), 1=338.5
24.11.1994 (Velkov and D. Féret), 12=1011.16; 195=93.1
26.4.1999, 43=217.6; 44=31.2; 45=323.6

Winkel, Wolfgang, Bielefeld

22.7.1977, 2509=292.8

Wruck, Waldemar, Berlin

in stock 1951=349.46; 1952=172.14; 202.7; 325.8

