

Byzantine monetary affairs during the 8<sup>th</sup>, 9<sup>th</sup>, 10<sup>th</sup> and 11<sup>th</sup> centuries

Volume 2

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APPENDIX I: Copper coinage of Michael II.



**Class 1a.**

- \*1. BMC 6 (Pl. xlviii, 3) = *HBN* 2; W=5.98g.; D=22mm.  
Flan smaller than dies. Crowns, Theophilus' *loros* and outlines in dotted style.
- \*2. Berlin ex Röhle von Lilienstern = *HBN* 8; W=8.38g.; D=28mm.
- \*3. Cardiff = *HBN* 7; W=8.10g.; D=28mm.
- \*4. Schlumberger 2992 = *HBN* 24; W=7.45g.; D=28mm.
- \*5. BMC 8 (Pl. xlviii, 4) = *HBN* 23; W=7.54g.; D=28mm.  
6. Munich = *HBN* 22; W=7.89g.; D=30mm.  
Crowns more conical than on previous specimens.
- \*7. DOC 9.8; W=7.02g.; D=31mm.
- 8. Athens, Numismatic Museum (AE 140 H' .7); W=6.70g.; D=30mm.
- 9. DOC 9.5; W=7.02g.; D=31mm.
- \*10. Weller (May 1974); W=7.66g.; D=28mm.
- 11. Weller (Oct. 1972); W=7.94g.; D=29mm.
- 12. DOC 9.2; W=8.19g.; D=29mm.
- \*13. Athens, Numismatic Museum (Postolakas 12338); W=8.45g.; D=30mm.
- \*14. Birmingham 1624; W=?; D=28mm.
- \*15. Schlumberger 2988 = *HBN* 12; W=7.43g.; D=29mm.
- \*16. Berlin ex de Bose = *HBN* 9; W=6.64g.; D=28mm.
- \*17. Paris 820 = *HBN* 10 = BNPCp/AE/05; W=8.10g.; D=28mm.  
Die-duplicate of no. 16.
- 18. Weller (May 1967); W=7.56g.; D=30mm.
- \*19. DOC 9.6; W=7.51g.; D=30mm.
- \*20. DOC 9.10; W=6.05g.; D=29mm.
- \*21. DOC 9.1; W=8.35g.; D=30mm.
- 22. Athenian Agora excavations = *HBN* 11; W=?; D=32mm.

23. ~~Sherborne~~ = *HBN* 21; W=7.64g.; D=30mm.

24. *DOC* 9.9; W=6.79g.; D=29mm.

\*25. *DOC* 9.4; W=7.79g.; D=30mm.

\*26. ~~Corinth~~ = *HBN* 3; W=?; D=29mm. (clipped).

### Summary of details:

#### Obverse:

#### Drapery of Michael's chlamys.

Type I: nos. 1-5, 8, 9, 15.      Type II: all the other specimens.



#### Number of pellets in top row of Theophilus' loros.

Four: nos. 1.

Five: nos. 2, 3, 6, 20, 21, 24, 26.

Six : nos. 4, 5, 7, 8, 10, 13-19, 25.

Seven: nos. 9, 12.

Obscure: nos. 11, 22, 23.

#### Necklines of Michael's chlamys and Theophilus' loros.

Semicircular: nos. 1, 6, 9, 12, 15-21, 24-26.

Rectangular: nos. 3, 10, 13, 14.

Rectangular neckline on chlamys and semicircular on *loros*:  
nos. 2, 4, 5, 7, 8.

Obscure: nos. 11, 22, 23.

#### Portraiture.

Theophilus' face is shorter than normal on nos. 13-21 while nos. 22-25 are characterized by a "miniature" style with narrower and slightly taller busts than normal.

#### Inscriptions.

The lettering on nos. 1, 3, 7, 10, 11 is larger than elsewhere; that on nos. 18, 20 and 22 much smaller.

On the obverse inscription of nos. 4, 9-12, 21, 22, 24, 25 there is an  $\blacktriangle$  instead of the normal  $\blacktriangle$ .

**Reverse:**

The size of the M suggests the following groups:

- a) nos. 3-14,18,22-24,26: Broad M.
- b) nos. 2,15-17,19-21,25: Short and narrow M.
- c) no. 1: Lop-sided M.

The style of the  $\Theta$  reveals other, smaller groups: on nos. 12,13,15-17,19 it is quite large and lemon-shaped, while on nos. 7-11,14,18,20 though roughly similar in size, it is of very regular shape without lop-sidedness. On the other specimens it is smaller. Coins no.1 and 2 seem to be "experimental" since on no.1 the  $\Theta$  is extremely large, while on no.2 it is very small and there is no intermediate specimen since the two coins are strongly interconnected by obverse die-similarities.

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**Class 1b.**

\*27. The Hague 13721= *HBN* 1; W=7.5g.; D=28mm.

Die smaller than flan: blank band c.2mm wide round edge of coin.

\*28. Weller (July 1970); W=7.38g.; D=27mm.

\*29. DOC 9.7; W=7.25g.; D=28mm.

\*30. Selfe; W=6.83g.; D=27mm.

\*31. BMC, 7= *HBN* 6; W=7.24g.; D=27mm.

32. New York= *HBN* 4; W=7.32g.; D=29mm.

33. Weller (July 1971); W=7.04g.; D=29mm.

\*34. Cambridge= *HBN* 5; W=7.14g.; D=29mm.

\*35. DOC 9.3; W=7.85g.; D=29mm.

36. Weller; W=7.87g.; D=29mm.

\*37. Schlumberger 2987= *HBN* 17; W=6.18g.; D=28mm.

\*38. Schlumberger 2990= *HBN* 15; W=7.79g.; D=28mm.

39. Kress Sale 135/951= *HBN* 16; W=?; D=29mm.

\*40. Weller (May 1967); W=7.79g.; D=28mm.

\*41. **Bryer**: W=8.14g.; D=30mm.

\*42. **Gardiff**= *HBN* 19; W=7.73g.; D=30mm.

Theophilus' portraiture very different from all specimens described above. Both busts are slightly taller. 4 pellets on *loros*. Some details of chlamys drapery, neckline and fibula with prominent loop like no.41. Michael's portraiture very similar to nos.37-39.

### Summary of details:

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#### **Obverse:**

##### Drapery.

Type I: nos.30,31,34,35,41-42.

Type II:nos.32,33,37-40.

##### Number of pellets in top row of Theophilus' *loros*.

Four:nos.28,29,42.

Five:nos.27,30,31,32,33,35,38.

Six :nos.34,37,39,40,41.

Obscure:no.36.

##### Necklines of Michael's chlamys and Theophilus' *loros*.

Semicircular:nos.27-29,31-33,40,41.

Rectangular: nos.37-39.

Rectangular but very shallow:nos.34,35.

Obscure:no.36.

On some specimens Michael's right sleeve carries a rosette which varies in style: elaborate: no.30; schematic: no.37,38; obscure:no.27.

##### Portraiture.

Nos.27-29 have rather short busts and short triangular faces but gradually the faces become longer and the busts slightly taller.

##### Inscriptions.

Michael's name bears either  $\blacktriangle$  (nos.29,35,37-41), or  $\blacktriangle$  (nos.27,30,31,33,42) or  $\blacktriangle$  (nos.32,34).

**Reverse:**

Broad M: nos. 27-30, 38.

Tall and narrow M: nos. 36, 40, 41, 42.

The rest of the specimens show intermediate sizes of the letter M.

Lop-sided M: 27-33, 38.

On some specimens the vertical strokes of the M project from the junction with the lateral ones: nos. 32, 33, 40-42.

The letters NNN of the small dies (nos. 27-30) are very narrow.

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**Reverse die-similarities between class 1a and 1b:**

- | <b>1a</b>   | <b>1b</b>       |
|-------------|-----------------|
| no. 1-----  | nos. 27-29, 31. |
| no. 21----- | no. 35, 20.     |
| no. 16----- | no. 37.         |

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**Class 2:**

\*43. BMC 10= *HBN* 14; W=7.62g.; D=28mm.

Inscription divided: MIXA HL SØE OFILOS.

\*44. Weller (July 1969); W=6.33g.; D=31mm.

Very similar to no. 43 but inscription regularly arranged.

45. DOC 10.4; W=7.81g.; D=29mm.

\*46. DOC 10.2; W=8.16g.; D=29mm.

\*47. Berlin ex von Gansauge= *HBN* 20; W=7.44g.; D=27mm.

48. DOC 10.9; W=7.56g.; D=32mm.

\*49. Birmingham 3654; W=?; D=29mm.

Crowns, *loros*, strings of Michael's fibula and elaborate rosette on right sleeve all in dotted style. Carefully executed but more stylised than nos. 43-48. Theophilus' bust in full frontal pose while on nos. 44-48 the different treatment of each shoulder suggests imperceptible movement to right.

- \*50. New York= *HBN* 44; W=6.89g.; D=29mm.
- \*51. Thessaloniki (Rotunda n.128); W=6.30g.; D=28mm.
- \*52. Hasluck 1920= *HBN* 50; W=7.78g.; D=31mm.
- \*53. Elsen Sale 55/181=58/192=63/211; W=8.88g.; D=30mm.
- \*54. Elsen Sale 37/139; W=7.64g.; D=30mm.
- \*55. Sherborn 13= *HBN* 42; W=5.25g.; D=29mm.
- \*56. The Hague 13720= *HBN* 48; W=7.9g.; D=30mm.
- \*57. Weller (May 1967); W=8.17g.; D=31mm.
- \*58. DOC 10.5; W=7.81g.; D=29mm.
- \*59. DOC 10.7; W=7.65g.; D=30mm.
- \*60. Weller (April 1968); W=7.63g.; D=29mm.
- \*61. Paris 819= *HBN* 46; W=8.62g.; D=31mm.
- 62. New York= *HBN* 43; W=7.36g.; D=30mm.
- 63. Vienna= *HBN* 45; W=8.52g.; D=31mm.
- \*64. Weller (July 1970); W=7.28g.; D=30mm.

### Summary of details:

#### Obverse:

#### Drapery.

Drapery on all specimens but no.49 is of type II.

#### Number of pellets in top row of Theophilus' *loros*.

Four: nos.43,47,49,52,53.

Five: nos.44-46,48,51,54,55,59-62,64.

Six: nos.50,57,58.

Obscure:nos.56,63.

#### Necklines of Michael's chlamys and Theophilus' *loros*.

Rectangular neckline on chlamys and semicircular on *loros*: nos.43,44,45,49,50,52-54,57,59,60,62. The semicircular neckline of *loros* is usually lop-sided.

Semicircular: nos.46,58,61.

Rectangular: no. 47.

Obscure: nos. 48, 51, 55, 56, 63, 64.

Inscriptions.

Michael's name bears either an  $\wedge$  (nos. 43-45, 51, 56-60, 64), or an  $\blacktriangle$  (nos. 46, 47, 49, 50, 52, 53, 63), or an A (nos. 55, 61, 62).

The lettering is smaller on nos. 43-48 than on nos. 50-65, while on no. 49 it is of an intermediate size.

On nos. 57, 60-64 it is fatter than on the rest of the specimens with large lettering.

**Reverse:**

M with deep V: nos. 43, 49; no. 43 bears a broader M than no. 49.

Short broad M: nos. 44, 45, 46-48, 53-56, 58, 64.

Short narrow M: nos. 51, 52, 59-61, 63.

Tall broad M: 57, 64.

Tall narrow M: nos. 50, 62; on both specimens the M is strongly lop-sided.

The letter  $\Theta$  is of very regular shape; its shape reveals the following small groups: very large: nos. 43, 45, 48, 49; small and narrow: nos. 50-52; small egg-shaped: 60, 61; the rest of the specimens represent intermediate sizes.

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**Reverse die-similarities between class 1 and 2:**

1a	1b	2
no. 5-----		no. 43.
nos. 5, 32, 38-----		no. 44.
no. 38-----		no. 49.
no. 22-----		no. 46.
no.	33-----	no. 47.
no.	31-----	no. 51.
nos. 7, 12-----		no. 54.
nos.	31, 34-----	no. 56.
no. 6-----		no. 57.
nos. 4, 22, 16, 23, 24-----		no. 58.
no. 7-----		no. 60.

**Class 3:**

\*65. Athens, Numismatic Museum (AE 141 H' 7); W=6.50g.; D=30mm.

The obverse appears to have been struck with a repaired die of class 2. Theophilus' bust clearly has two heads, superimposed. The one head belongs to a bust considerably shorter than that of Michael on the left. Careful inspection reveals the cross of this bust's crown at the same height as Michael's eyes and shows also traces of alteration in Michael's bust. Pierced.

66. Kress sale 132/965; W=?; D=31mm.

\*67. Wien = *HBN* 26; W=7.75g.; D=32mm.

\*68. Wien = *HBN* 27; W= 8.27g.; D=30mm.

\*69. Wien = *HBN* 28; W= 8.15g.; D=30mm.

\*70. The Hague = *HBN* 29; W=8.30g.; D=31mm.

71. Weller (July 1970); W=6.41g. ; D=31mm.

**Summary of details:**

**Obverse:**

Drapery of Michael's chlamys : type I.

Number of pellets in top row of Theophilus' loros.

Four: nos. 65-68.

Five: nos. 69, 70.

Obscure: no. 71.

Necklines of Michael's chlamys and Theophilus' loros.

Semicircular: nos. 65-69.

Rectangular neckline on chlamys and semicircular on *loros*: no. 70.

Obscure: no. 71.

Portraiture.

On specimen no. 70, the portraiture of both co-rulers is different from that on nos. 66-69: their busts are shorter, while Theophilus' locks of hair are less bushy.

Inscriptions.

All the specimens appear to bear an  $\mathcal{M}$  on Michael's name.

**Reverse:**

All the specimens bear a tall broad **M**. On nos. 70, 71 it is slightly narrower.

The letter  $\Theta$ , is small and egg-shaped; on nos. 67, 70 it is taller and lop-sided.



**Reverse die-similarities between class 2 and 3.**

<b>2</b>	<b>3</b>
no. 57. -----	no. 67.
no. 58-----	no. 70.
nos. 60, 61-----	no. 71.



**Class 4a.**

- \*72. Berne= *HBN* 49; W=7.47g.; D=28mm.
- \*73. Birmingham 3379.
- 74. DOC 10.3; W=7.84g.; D=31mm.
- 75. Schlumberger 2989= *HBN* 37; W=7.94g.; D=31mm.
- 76. DOC 10.6; W=7.76g.; D=30mm.
- \*77. DOC 10.8; W=7.58g.; D=31mm.
- \*78. Weller (Sept. 1969); W=6.21g.; D=30mm.
- \*79. Athens, Numismatic Museum (1891-2  $\Theta$ ' 79); W=6.84g.; D=29mm.
- \*80. Athens, Numismatic Museum (1891-2  $\Theta$ ' 77); W=6.84g.; D=29mm.
- \*81. Athens, Numismatic Museum (1902-1903  $K\Delta$ ' 54); W=5.27g.; D=30mm.
- \*82. Selfe; W=6.66g.; D=27mm.
- 83. Weller (May 1974); W=5.99g.; D=30mm.
- 84. Berlin 157/1909= *HBN* 40; W=7.46g.; D=30mm.
- 85. Kress Sale 132/966= *HBN* 47; W=?; D=29mm.

\*86. **Birmingham 3379**; W=?; D=30mm.

\*87. **Peus Sale 279/444**; W=7.67g.; D=30mm.

\*88. **Cambridge CM 3396-1950, ex Burn 3810= HBN 41**; W=7.02g.; D=31mm.

89. **Athens, Numismatic Museum (1891-2 Θ' 78)**; W=7.32g.; D=28mm.

### Summary of details.

#### Obverse:

Drapery of Michael's chlamys: entirely of type 2.

Number of pellets in top row of Theophilus' loros.

Four: nos. 76, 78, 85.

Five: nos. 72-75, 77, 79-84, 86-89.

Necklines of Michael's chlamys and Theophilus' loros.

Narrow rectangular on chlamys and semicircular lop-sided on loros:  
nos. 72-74, 76, 77, 81, 82, 84-88.

Semicircular: nos. 75, 78-80, 83, 89.

#### Inscriptions.

On specimens nos. 77, 78, 80 & 86 the lettering is small and very much reminiscent of classes 1a & 1b.

Michael's name bears either an  $\Lambda$  (nos. 74, 76, 78, 79, 82-87, 89) or an A (nos. 73, 77, 80, 81, 88) or an  $\Delta$  (75, 77).

#### Reverse:

Narrow tall lop-sided M: nos. 72-81, 85.

Broad shorter lop-sided M: nos. 77-80, 82-84, 86, 87, 89.

Broad regular M: no. 88.

The letter  $\Theta$  is generally small, regular and egg-shaped.

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### Class 4b.

\*90. **Weller (Sept. 1969)**; W=7.04g.; D=30mm.

Crowns and *loros* in dotted style.

- \*91. Schlumberger 2986= *HBN* 32; W=7.57g.; D=30mm.
- \*92. Berne, ex Bennet, 128= *HBN* 33; W=7.64g.; D=30mm.
- 93. Elsen Sale 74/302; W=3.05g.; D=23mm.
- \*94. Schlumberger 2991= *HBN* 35; W=7.05g.; D=29mm.
- \*95. DOC 10.11; W=7.11g.; D=30mm.
- \*96. Birmingham 5051; W=?; D=32mm.
- \*97. Weller (April 1968); W=6.04g.; D=29mm.
- 98. Weller (July 1970); W=6.41g.; D=30mm.
- 99. Weller (July 1970); W=6.96g.; D=31mm.
- 100. Weller; W=7.75g.; D=30mm.
- 101. Corinth excavations = *HBN* 34; W=?; D=29mm.
- 102. Birmingham 3276; W=?; D=31mm.
- 103. DOC 10.10; W=7.17g.; D=32mm.
- 104. DOC 10.12; W=7.08g.; D=30mm.

Summary of details:

**Obverse:**

Drapery of Michael's chlamys: type 2.

Number of pellets in top row of Theophilus' loros.

All the specimens except no.98 bear four pellets; no.98 bears five.

Necklines of Michael's chlamys nad Theophilus' loros.

Narrow rectangular on chlamys and semicircular on loros:  
nos. 90-93, 95, 96, 104.

Semicircular: nos. 94, 99, 100, 102, 103.

Obscure: nos. 97, 98, 101.

Inscriptions.

Large lettering: nos. 90-97.

Small lettering: nos. 98-103.

On the second run the emperor's busts are shorter and smaller with even higher crosses on their crowns than on the first run.

Michael's name bears either an  $\Lambda$  (nos. 90, 94, 97, 99, 100-104), or an  $\Lambda$  (nos. 91, 92) or an  $\Lambda$  (no. 95).

Obscure: nos. 93, 96, 98.

**Reverse:**

Tall narrow and lop-sided M: no. 90.

Tall broad M: nos. 96, 99, 104.

Short M : a: nos. 91, 100, 101; b: broader M than previous run: nos. 94, 99, 102; c: very similar to previous run but thinner limbs and wider V: nos. 95, 98; d: narrower M: no. 97.

Very small M: nos. 92, 103.

The letter  $\Theta$  is generally small either egg-shaped or lemon shaped. On no. 90 it is rather large and a duplicate of no. 74 of the previous class.

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**Class 4c:**

\*105. BMC 9= *HBN* 30; W=7.26g.; D=31mm.

\*106. DOC 11; W=7.56g.; D=30mm.

**Summary of details:**

**Obverse:**

Four pellets in top row of Theophilus' *loros*.

semicircular necklines .

Michael's name with  $\Lambda$ .

**Reverse:**

Tall broad M and large XXX and NNN; very heavily seriffed type: no. 105.

Tall broad M very reminiscent of class 4b: no. 106.



**Reverse die similarities among class 4a, 4b and 4c.**

<b>4a</b>	<b>4b</b>	<b>4c</b>
nos. 74, 77, 79, 84-----	no. 90.	
no . 83-----	no. 97.	
no . 86-----	no. 96.	
no . 88-----	no. 94.	
	no. 104-----	no. 106

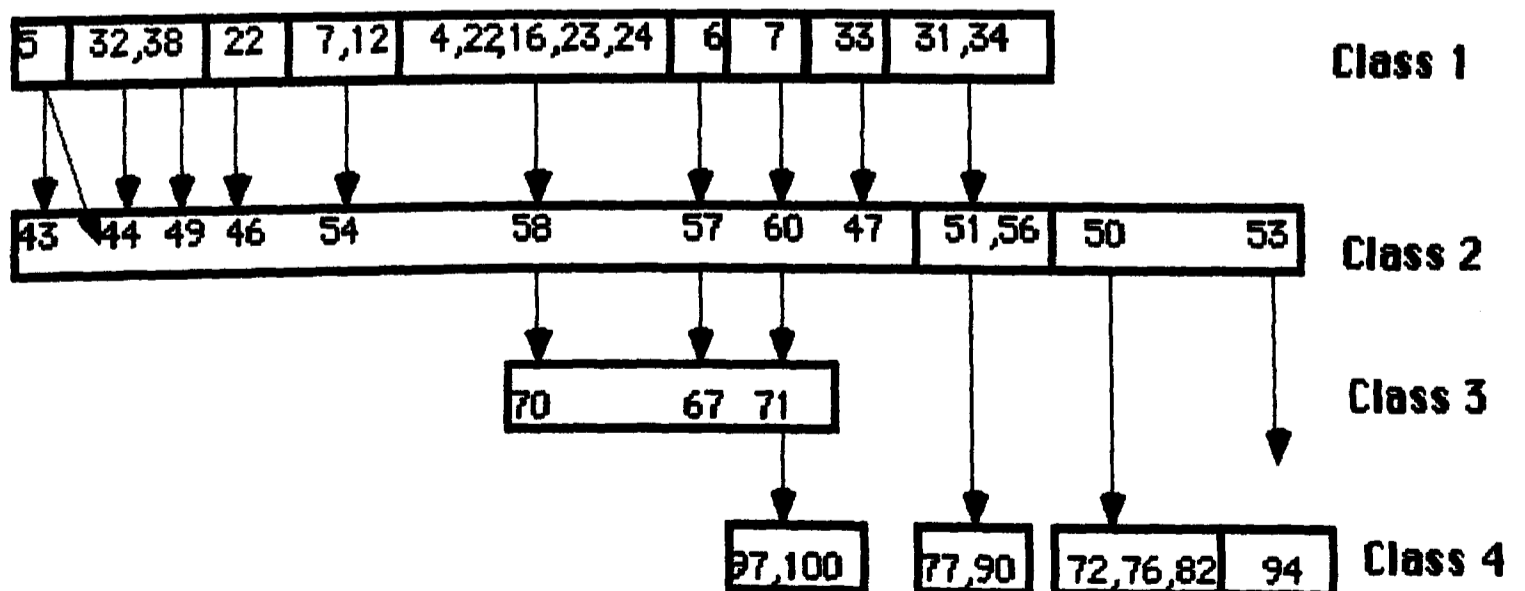


**Reverse die similarities between class 2 and 4.**

<b>2</b>	<b>4a</b>	<b>4b</b>
no. 51-----	no. 77	
no. 50-----	nos. 72, 76, 82.	
no. 61-----	no. 83.	
no. 51-----		no. 90.
no. 60-----		nos. 97 & 100.
no. 53-----		no. 94.



**Reverse die-similarities among the different classes of Michael's copper coinage:**



## APPENDIX II: Pre-reformed copper coinage of Theophilus

### Class 1a

- \*1. Schlumberger 3010= *HBN* 52; W=7.57g.; D=30mm.
2. DOC 13.6; W=6.98g.; D=32mm.
- \*3. DOC 13.5; W=7.45g.; D=29mm.
4. Berlin ex von Gansauge (1873)= *HBN* 56; W=6.51g.; D=29mm.
5. *ANS*= *HBN* 57; W=?; D=29mm.
6. Weller (Oct. 1972); W=7.85g.; D=30mm.
7. Birmingham 1608; W=?; D=30mm.
8. Paris 822= *HBN* 65; W=7.46g.; D=32mm. Worn.
9. DOC 13.4; W=7.55g.; D=32mm.
- \*10. Selfe; W=7.05g.; D=27mm.
11. DOC 13.10; W=5.44g.; D=28mm.
- \*12. Vienna= *HBN* 68; W=7.05g.; D=29mm.
13. BMC 15= *HBN* 58; W=6.8g.; D=28mm.
- \*14. Thessalonici, Rotunda n.129; W=7.50g.; D=30mm.
15. DOC 13.3; W=7.76g.; D=30mm.
16. Sardis 1109; W=8.80g.-8.00g.; D=34mm.
17. Kress Sale 132/968=*HBN* 53; W=?; D=30mm.
18. Schlumberger 3019; W=8.48g.; D=31mm. Worn.
19. Weller (July 1970); W=6.80g.; D=30mm.
20. DOC 13.7; W=6.86g.; D=29mm.
21. Birmingham 1607; W=?; D=30mm.
- \*22. Bryer; W=7.16g.; D=34mm.
23. Weller (July 1971); W=7.39g.; D=28mm.

**Summary of details:**

- no.1: elaborate style; restruck on *follis* of Michael II ( most probably on class 4a).
- no.2: obverse near-duplicate of no.1.
- nos.3-5: similar but emperor's face longer and more triangular; large obverse lettering.
- no.6: similar but four-fold drapery instead of three.
- no.7:similar but drapery arranged in eight dense folds; cross without staff.
- no.9: similar but cross with staff; drapery in six dense folds; more space between fibula strings which form triangle.
- no.10: very similar to no. 7 but fibula strings bolder; drapery in five oblique folds.
- nos.11-13: very similar.
- no.14: very similar to no.1-2. but drapery in seven very dense folds; face more rounded and slightly broader; even smaller lettering.
- no.15: very similar. but drapery in five oblique folds.
- nos.16-17: similar but cross without staff.
- no.19,21: emperor's face similar to no.14 but slightly more triangular; fibula strings form triangle; six-fold drapery; very small lettering.
- no.20: similar to nos.14-18 but crown's cross taller.
- nos.22-23: very long face; eyebrows angular; very large lettering.

The size of M on the reverse is generally small either broad (nos. :7,8,10,20) or narrow (nos.22,23) although there are intermediate examples.

On nos.14,15,18 it is tall and very much reminiscent of Michael's class 1a (i.e nos.5 and 9).

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**Class 1b**

24. Weller (Sept.1969); W=6.28g.; D=28mm.

\*25. Spinks from Turkey (now in Ashmolean); W=6.68g.; D=31mm.

- \*26. **Brussels=** *HBN* 62; W=?; D=28mm.
- 27. **Weller** (Aug. 1969); W=6.08g.; D=28mm.
- \*28. **Vienna=** *HBN* 61; W=8.0g.; D=28mm.
- 29. **Kress Sale** 132/967=*HBN* 60; W=?; D=28mm.
- 30. **Weller** (March 1969); W=5.25g.; D=27mm.
- 31. **Weller** (July 1969); W=6.80g.; D=27mm.
- \*32. **Weller** (July 1971); W=5.83g.; D=27mm.
- 33. **Birmingham 6119**; W=?; D=26mm.
- 34. **Weller** (May 1967); W=7.67g.; D=30mm.
- 35. **DOC 13.1**; W=8.29g.; D=28mm.
- 36. **DOC 13.2**; W=8.00g.; D=28mm.
- 37. **DOC 13.9**; W=5.52g.; D=27mm.
- 38. **Weller** (July 1971); W=5.40g.; D=27mm.
- 39. **Weller** (May 1974); W=6.32g.; D=28mm.
- 40. **ANS=** *HBN* 63; W=?; D=28mm. Worn.
- 41. **Spinks from Turkey**; W=6.95g.; D=29mm.
- 42. **DOC 13.8**; W=6.57g.; D=30mm.
- \*43. **Spinks from Turkey**; W=5.67g.; D=28mm.

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- \*44. **Ex Goodacre Collection**; W=?; D=28mm. (see text)
  - \*45. **Selfe**; W=7.05g.; D=30mm. (see text).
- 

**Summary of details:**

**nos. 24, 25:** broad face with bulbous nose; body reduced in size; la fibula strings form triangle; drapery in four oblique folds.

**no. 26:** similar, but short cross on crown; drapery in two layers. Cross without staff.

**no. 27:** very similar but drapery similar to no. 24.

**nos. 28-32:** similar but spade-shaped face.

**nos. 33-39:** similar but emperor's face as on no. 7.

**nos. 41, 42:** similar but very large lettering.

**no. 43:** quite different from other class 2b coins; crude style and very bushy locks of hair.

The M on the reverse is generally similar to nos. 22 and 23 of the previous class but there are examples (i.e no. 25) showing an intermediate sized broad M similar to no. 2. Some specimens (nos. 26-28) bear a narrow, tall and lop-sided M, which is very much reminiscent of some *folles* of Michael II's class 2, though of smaller size.

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**Class 2.**

46. **DOC 14;** W=7.58g. ; D=31mm.

47. **Birmingham;** W=?; D=31mm.

\*48. **Berlin 194/1918= HBN 70;** W=6.90g. ; D=29mm.

49. **BMC 17= HBN 71;** W=7.52g. ; D=30mm.

**Summary of details:**

**nos. 1-2:** Constantine's *loros* with six pellets.

**nos. 3-4:** Constantine's *loros* with five pellets

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### Appendix III: The reformed folles of Theophyllus: Class 3.

#### Group A.

##### A/1:

##### Run a:

- \*1. ~~BNP~~ 1: W=0.03g.; D=27mm.
- \*2. ~~BNP~~ 52: W=8.24g.; D=28mm.
- \*3. Weller(April 1968); W= 7.66g.; D=28mm.

The obverses of these three specimens are **die-duplicates**. The emperor's face is broad with a slightly pointed jaw and bulbous nose. The curly locks of hair at the side of his head are depicted as waves with shading lines running parallel to the curve of the jaw and starting at the level of the nostrils. The specimens bear all the main features of subgroup A/1. The lettering on the reverse is small and rather neat.

##### Run b:

- \*4. ~~BNP~~ ~~AE~~/07; W=7.22g.; D=27mm.
- \*5. ~~DOC~~ 15a.7; W=7.83g.; D=29mm.
- 6. Weller; W=6.85g.; D=29mm.

The emperor's face is broad with a rounded jaw, a slightly round-tipped nose and deep, arched eyebrows. The style of the hair is very similar to that on the previous run of coins.

Obv: Nos. 4 and 5: 6 1/2 pairs of dots on transverse panel of *loros* and 5 pairs of dots on skirt panel (a deviation that does not figure in Metcalf's classification); neckline almost semi-circular; undotted rectangular free end of *loros*; drapery

in elaborate style but only a single shading line over the emperor's right arm.

**Rev:** no. 4: very similar to nos. 1-3 but even neater.

**nos. 5 and 6:** larger and less neat lettering, especially in first line.

Run c:

\*7. **DOC 15a5**; W=8.04g.; D=28mm.

\*8. **Weller** (April 1968); W=8.36g.; D=27mm.

The emperor's face is narrower and longer than in the previous run, while the hair is similar in style but bushier at the sides. The depiction of the free end of the *loros* is very close to that on run b.

**Oby:** no. 7: 6 1/2 pairs of dots on transverse panel of *loros* and 4 in skirt panel; *tufa* similar to nos. 1-6.

**no. 8:** 7 1/2 and 5 pairs of dots on transverse panel of *loros* and on skirt respectively; scallop-shaped six-dotted *tufa*.

**Rev:** no. 8: unequal sized letters and a characteristic T with a dropping bar: rough workmanship.

Run d:

\*9. **Berlin 2**; W=8.61g.; D=30mm.

\*10. **MW 2**; W=7.28g.; D=27mm.

\*11. **MW 13**; W=8.29g.; D=29mm.

\*12. **Weller** (Sep. 1969); W=7.23g.; D=28mm.

\*13. **MW 12**; W=7.70g.; D=28mm.

\*14. **Weller** (Aug. 1969); W=7.66g.; D=27mm.

15. **Thessaloniki** (Rotunda 180); W=6.70g.; D=27mm.

\*16. **Hesperia 25**; W= ?; D=26mm.

The emperor's face is similar in shape to that of run c, but noticeably shorter, while the locks of hair on both sides of the jaw are fuller than on the previous runs.

Each of the eight specimens of this run, however, has slightly different characteristics from the others, as regards the number of dots on the transverse and skirt panels as well as the style of the drapery of the emperor's *divitision*:

**no.9:** 7 1/2 and 5 pairs of dots on transverse and skirt panels of *loros* respectively; *divitision* with elaborate drapery; normal fan-shaped six-dotted *tufa*.

**no.10:** 6 1/2 and 4 pairs of dots respectively.

**no.11:** very similar to no.10 but style of drapery less elaborate.

**nos.12 & 13:** extremely similar to each other: 6 pairs of large dots on transverse panel of *loros* and 4 on skirt; six-dotted *tufas* as on table 1.

**nos.14 & 15:** drapery of *divitision* still elaborate; lop-sided, five-dotted *tufa*; 6 1/2 pairs of large dots on transverse panel of *loros* and 3 on skirt; rectangular banner of *labarum* larger than before with bold dots at corners; lop-sided and fat-limbed cross on *globus*; free end of *loros* inclines to the triangular; dot at emperor's throat.

**no.16:** same type of *tufa* as no.14, but six-dotted; emperor's face slightly more triangular, with a rather squat nose.

**Rev. no.15:** faulty inscription: ASUOUSTE instead of AVGOVSTE.

Run e:

\*17. Weller (July 1971); W=7.50g.; D=28mm.

\*18. Weller (June 1968); W=5.30g.; D=27mm.

The general expression of the emperor's face and the treatment of the hair is very similar to run d, though the head is longer.

The most remarkable difference from the previous runs is that the obverse inscriptions have a small regular s, instead of a straight or wavy ligature attached to the end of Theophilus' name (ΘEOFILS).

Obv: nos.17 & 18: 6 1/2 pairs of dots on transverse panel of *loros* and 5 on skirt; six-dotted scallop-shaped *tufa*; dot at emperor's throat.

Rev: no.17: small crude lettering with two mistakes: instead of S in SY and an E instead of C in NICAS.

Run f:

\*19. ~~BNP~~ 53; W=8.17g.; D=27mm.

\*20. Weller (April 1968); W=6.97g.; D=28mm.

21. BNP AE/06; W=8.22g.; D.=25mm.

The emperor's portrait is very similar to that on the previous run, but wider. The three specimens resemble each other closely: they bear 6 1/2 pairs of large dots on the transverse panel of the *loros* and 3 on the skirt, a stylized drapery similar to nos.17 & 18, and a boat-shaped neckline.

Some differences in secondary details suggest the following sequence for the three specimens:

**a: no.19:** two shading lines over emperor's right arm; large rectangular banner on labarum; similar to nos.13,17,18; dotted intersections on free end of *loros*; fan-shaped six-dotted *tufa* as on table 1.

**b: no.20:** no shading lines over emperor's right arm ; free end of *loros* triangular; a very regular six-dotted *tufa*; small rectangular labarum.

**c: no. 21:** almost a die-duplicate of previous coin with an off-centre cross on *globus*.

**\*22. Elsen Sale 63/212= 55/182=49/217; W=6.39g.; D=26mm.**

Obv. Very different from previous specimens: attribution to subgroup A/1 not certain. 6 pairs of dots on slightly curved transverse panel of *loros* and 3 1/2 on skirt-panel. Drapery of *divitision* quite schematic. Rectangular undotted free end of the *loros* typical of subgroup A/1. Small rectangular banner to labarum. Scallop-shaped *tufa* similar to no. 8 but slightly taller with 7 dots (Table I).

Rev. Error in inscription: S instead of  $\text{Ϛ}$  in second line. T with dropped bar and C in NICAS very opened.

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## **A/2.**

23. **Weller** (June 1968); W=8.45g.; D=27mm.

\*24. **MM 10**; W=9.10g.; D=29mm.

25. **AMS 8**; W=7.98g.; D=29mm.

\*26. **Weller** (July 1970); W=5.90g.; D=25mm.

27. **Giannena** (Archaeological Museum); W=7.40g.; D=28mm.

\*28. **MM 6**; W=7.57g.; D=27mm.

\*29. **MM 3**; W=8.03g.; D=27mm.

\*30. **Oxford 2**; W=7.08g.; D=27mm.

\*31. **MM 14**; W=6.84g.; D=29mm.

32. **Weller** (June 1968); W=8.31g.; D=27mm.

Details as regards the number of dots on the panels of the *loros* and the type of the *tufa* may be summarized as follows:

**no. 23:** 6 1/2 pairs of dots on transverse panel of *loros* and 3 on skirt; lop-sided six-dotted *tufa*; triangular free end of *loros*.

**no. 24:** 5 pairs of dots on transverse panel and 4 on skirt;

lop-sided four-dotted *tufa*.

**nos. 27, 29:** similar but six-dotted elongated *tufa* like a fully opened fan, similar to most examples of subgroup A/1.

**nos. 30, 31:** similar but four-dotted *tufa*.

**nos. 25, 26, 28:** 5 1/2 pairs of dots on transverse panel; six-dotted *tufa* less decisively cut than previous specimens.

**no. 32:** canopy-shaped *tufa*.

The reverses may be divided into three groups:

**nos. 23, 25, 26, 29, 32:** small sparse lettering with inconsistently shaped  $\zeta$  and S .

**nos. 27, 28 and 31:** small rather neat lettering densely packed; similar type of  $\zeta$ .

**no. 24:** large, heavily seriffed lettering reminiscent of no. 17 (group A/1), but narrower and slightly taller.

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### A/3

#### Run a.

\*33. *Hesperia* 34; W= ?; D=29mm.

\*34. **Wien 2;** W=8.67g.; D=29mm.

35. **Athens, Numismatic Museum (12340a);** W= 7.41g.; D=29mm.

The emperor is depicted with a very long face and linear hair style. The three specimens vary considerably in detail:

**no. 33:** elongated transverse panel of *loros* with 6 1/2 pairs of dots; six-dotted *tufa* with two lower sides slightly curved.

**no. 34:** more linear style than previous specimen; slightly lop-sided four-dotted *tufa*.

**no. 35:** quite similar to no. 34, but with a different labarum and a slightly curved transverse panel of *loros*.

Run b.

- \*36. ~~MM~~ 7; W=7.08g.; D=26mm.
- \*37. **Wien** 4; W=6.62g.; D=26mm.
- \*38. **Weller** (July 1971); W=8.38g.; D=30mm.
- 39. **Elsen Sale** 43/100; W=?; D= 29mm.

The emperor has a short, rather rounded, face.

no.36: tall, rather wide, nine-dotted *tufa* (Table 1).

nos.37-39: near duplicates; large transverse panel of *loros* wider at top than at bottom; two vertical pendants on labarum; small scallop-shaped *tufa* decorated with four dots.

Run c.

- \*40. **Hesperia** 31, W=?; D=29mm.
- \*41. ~~MM~~ 8; W=7.89g.; D=29mm.

The emperor's face is broad and rounded at the jaw. His hair at the side is thicker than on any specimen of the previous runs. The general expression of the emperor's face is dominated by his rather fleshy lips. Both specimens bear a nine-dotted *tufa*, as does no.36, but the arrangement is different (see Table 1). The distinctive portraiture of nos.40-41, suggest that their die-sinker was not the one responsible for no.36.

Run d.

- \*42. **DOC** 15a.6; W=7.86g.; D=28mm.
- \*43. **Weller** (April 1969); W=6.05g.; D=27mm.
- 44. **Weller** (July 1961); W=7.06g.; D=26mm. Very worn.
- \*45. **Elsen Sale** 24/80; W=6.95g.; D=27mm.

The emperor's face is long and egg-shaped, like the face of rub a, but the style of execution resembles painting and the hair is thicker, with fuller locks.

**nos. 42 and 43:** 6 1/2 pairs of dots on transverse panel of *loros* and 4 on skirt; very naturalistic six-dotted *tufa* closely reminiscent of the A/1a run.

**no. 45:** similar; half-moon nine-dotted *tufa* (Table 1).

=====

**A/4**

Run a.

\*46. ~~ZNF~~ 9; W=8.33g.; D=28mm.

\*47. Weller (July 1970); W=5.34g.; D=28mm.

\*48. ~~ZNF~~ 4; W=8.00g.; D=26mm.

49. DOC 15a; W=8.14g.; D=29mm.

On these specimens the emperor's face is very broad with an intense expression.

**nos. 46 and 47:** near duplicate obverses; transverse panel of *loros* slightly curved with 5 1/2 pairs of dots on transverse panel of *loros* and 2 1/2 on skirt.

**nos. 48 and 49:** exhibit several deviations from the original design and their chronological position in the run is very difficult to determine:

**no. 48:** Linear style; 6 1/2 pairs of dots on transverse panel of *loros*; hasty execution has led to omission of pendants of labarum; the staff is in front of the emperor's arm, an innovation which probably appeared when the issue of A/4 was well under production.

**no. 49:** emperor's individual features more vividly depicted than on nos. 46 and 47; transverse panel of *loros* elongated with 6 1/2 pairs of dots; narrow six-dotted *tufa*; free end of *loros* wide and rather triangular with a dot at each corner as a fringe.

Run b.

- 50. **Weller** (August 1969); W=7.66g.; D=29mm.
- 51. **Oxford 5**; W=6.81g.; D=24mm.
- \*52. **Weller** (July 1971); W=6.78g.; D=28mm.
- \*53. **AN 11**; W=6.71g.; D=27mm.\*
- \*54. **BHC 20**; W=8.39g.; D=28mm.
- 55. **Weller** (August 1969); W=7.38g.; D=28mm.
- 56. **Weller** (July 1971); W=6.09g.; D=28mm.
- 57. **Weller** (April 1969); W=6.12g.; D=28mm.
- \*58. **Athens, Numismatic Museum** (1891/2 Θ' 75); W=7.27g.; D=26mm.
- 59. **Athens, Numismatic Museum** (1891/2 Θ' 74); W=7.73g.; D=25mm.
- 60. **Weller** (July 1970); W=5.30g.; D=27mm.

The emperor's face is slightly narrower and less rounded than on the previous run.

**nos. 50 and 51:** duplicate obverses; six-dotted *tufa* and 5 1/2 pairs of dots on transverse panel of *loros* and 2 1/2 on skirt.  
**nos. 52, 54-57:** 6 1/2 pairs of dots on *loros* and 3 1/2 on skirt.  
**no. 53:** 7 1/2 and 3 1/2 dots while **nos. 58 and 60** 4 1/2 dots on transverse panel of *loros*.

Run c.

- \*61. **Hesperia 36**; W=?; D=27mm.
- 62. **Stavrides Collection**; W=8.83g.; D=28mm.
- 63. **AN 5**; W= 7.91g.; D=25mm.
- \*64. **Weller**(April 1968); W=6.63g.; D=26mm.
- \*65. **Weller**(September 1969); W=6.74g.; D=26mm.

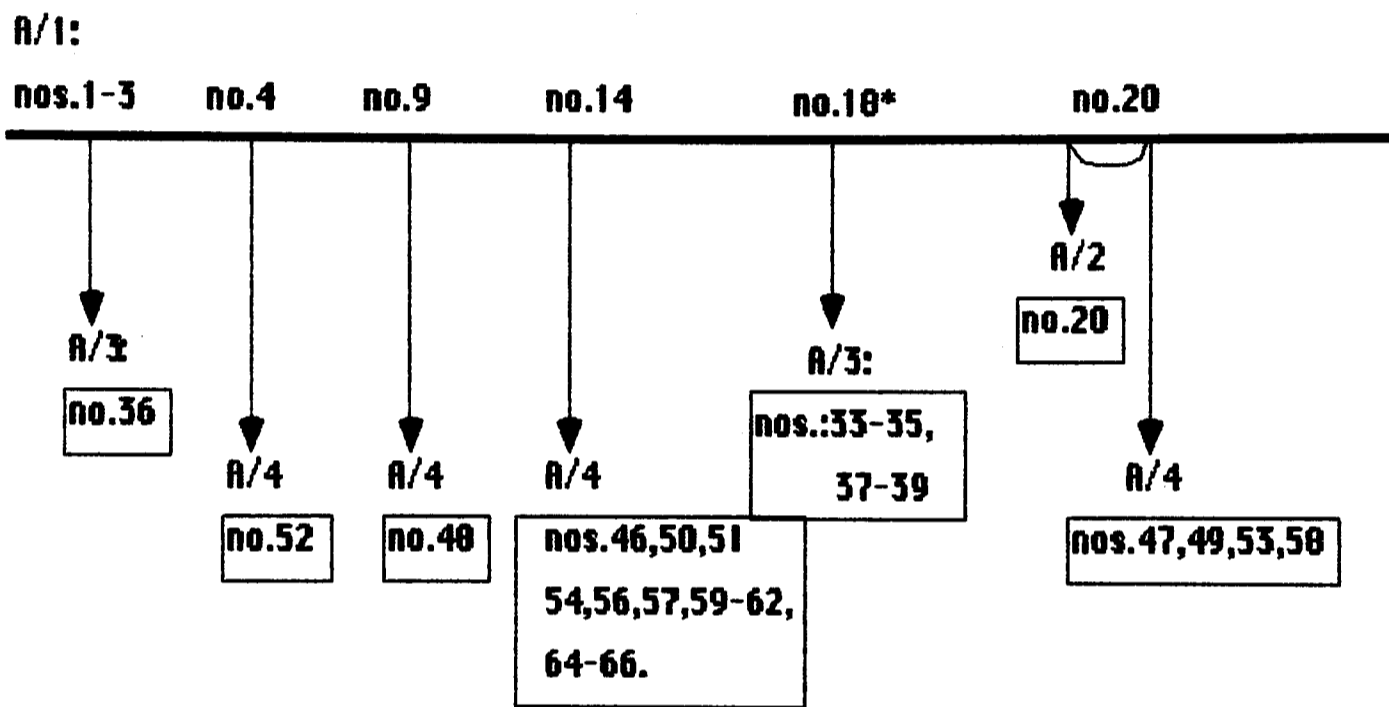
The emperor's face has now become triangular.

no.65: extremely linear style; the emperor is depicted with very rough traits and the banner of labarum has no pendants.

nos.64 and 65: 6 pairs of dots on transverse panel of *loros*, while the rest 4 1/2.

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**Reverse die-similarities among the Group A specimens:**



\* No.18 and nos.33-35,37-39 share the same nervous seriffed style with a narrow C in NICAS and a characteristic in the second line..

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**B/1:**

\*66. **MM 54**; W=8.17g; W=27mm

\*67. **Weller**; W=6.95g.; D=27mm.

68. **Weller** (April 1968); W=6.19g.; D=28mm.

\*69. **MM 55**; W=6.66g.; D=29mm.

\*70. **MM 24**; W=8.00g.; D=28mm.

71. **Weller** (July 1971); W=6.89g.; D=29mm.
72. **Kress sale**; W= ?; D=28mm.
73. **Weller** (July 1970); W=8.62g.; D=28mm.
74. **Elsen Sale 74/304**; W=7.01g.; D=27mm.
75. **Berlin 6**; W=7.58g.; D=28mm.
76. **HMC 25**; W=8.26g.; D=29mm.
- \*77. **Berlin 7**; W=5.99g.; D=30mm.
- \*78. **HMC 26**; W=8.73; D=29mm.
79. **Weller** (April 1968); W=8.85g.; D=30mm.
- \*80. **Philippi** (Excavation of Octagonon); W=6.50g.; D=28mm. Very worn.
- \*81. **MM 25**; W=8.43g.; D=28mm.
82. **Stavrides' Collection**; W=7.35g.; D= ?.
83. **Weller** (Oct.1972); W=6.28g.; D=28mm.
84. **Athens, Numismatic Museum** (AE 142 H' 17); W=7.23g.; D=26mm.
85. **Weller** (July 1970); W=6.77g.; D=29mm.
- \*86. **DOC 15a.3**; W=8.58g. (pierced); D=28mm (pierced).
87. **Weller**; W=8.40g.; D=27mm.
- \*88. **Weller** (Oct.1972); W=6.58g.; D=27mm.
89. **Kress Sale 135/953**; W=?; D=27mm.
- \*90. **MM 26**; W=7.30g.; D=29mm.
- \*91. **DOC 15a.12**; W=6.48g. D=27mm.
92. **Hendy**; W=7.51g.; D=29mm.
93. **Weller** (Aug.1969); W=7.79g.; D=28mm.
- 
- \*94. **Thessalonika** (Rotunda 951a); W=7.95g.; D=28mm.
- \*95. **Weller** (Aug.1969); W=6.39g. D=28mm.
- \*96. **Campbell**; W=7.43g.; D=29mm.
-

- nos.66-67: obverse and reverse die-duplicates: 5 1/2 pairs of dots on transverse panel of *loros*; other details obscure.
- no.68:obverse near-duplicate to previous specimens.
- no.69: 6 pairs of dots on *loros* and 3 1/2 on skirt; skirt panel rectangular; three parallel lines as free end of *loros* ending in five-dotted fringe; elongated six-dotted *tufa*; square labarum with dots at corners of banner and dotted cross.
- no.70: very similar to no.69 but 5 1/2 pairs of dots on *loros*.
- nos.71-74:very similar to nos.69 and 70.
- no.75: 6 1/2 pairs of dots on *loros*; free end with four-dotted fringe.
- no.76: seven dotted *tufa* (Table 2);long free end of *loros* without fringe.
- no.77: emperor's face slightly smaller. 5 1/2 pairs of dots on *loros*; lop-sided six-dotted *tufa*;fringe at free end of *loros*.
- no.78: similar but only 2 1/2 pairs of dots on skirt.
- no.79: similar but 6 1/2 pairs of dots on *loros*; free end of *loros* parallel to *divitision* and not oblique as previous specimens; normal-shaped *tufa*.
- nos.81,82,83: similar to no.77 but 5 pairs of dots on *loros*. No.82 obverse die-duplicate to no.81.
- no.84: similar but 2 1/2 pairs of dots on skirt.
- no.85: similar but 6 1/2 pairs of dots on *loros* and 4 on skirt.
- no.86: similar but ten-dotted *tufa* (table 2).
- nos.87,88,89: similar to no.85 but 5 1/2 pairs of dots.
- no.90: emperor's face longer and more triangular.
- nos.91,92,93: similar.
- no.94: Different style of portraiture (see text); 6 1/2 pairs of dots on *loros* and 3 1/2 on skirt; no fringe.
- nos.95-96: see text.

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**B/2**

\*97. *IM* 17; W=6.96g.; D=28mm.

\*98. *IM* 18; W=7.85g.; D=28mm.

99. *IM* 20; W=8.15g.; D=29mm.

\*100. **Philippi** (Excavation of Octagonon); W=8g.; D=29mm.

- 101. ~~ZNF~~ 21: W=6.24g. ; D=22mm.
- \*102. ~~ZNF~~ 19: W=8.49g. ; D=30mm.
- \*103. **Weller** (July 1981): W=6.61g. ; D=28mm.
- 104. **Weller** (April 1969): W=7.75g. ; D=28mm.
- 105. **Weller** (June 1968 from Izmir): W=6.96g. ; D=28mm.
- \*106. **Vienna 3**: W=5.55g. ; D=27mm.
- 107. ~~ZNF~~ 23: W=8.20g. ; D=29mm.
- \*108. **Weller** (April 1968): W=7.60g. ; D=28mm.
- 109. **Oxford 1**: W=?; D=28mm.
- \*110. ~~ZNF~~ 22: W=8.82g. ; D=28mm.
- 111. **Weller** (Oct.1972): W=8.06g. ; D=28mm.
- 112. **Munich 3**: W=6.71g. ; D=28mm.
- \*113. **DOC 15c.2**: W=7.97g. ; D=29mm.
- \*114. **DOC 15c.3**: W=5.70g. ; D=29mm.

no.97: 5 1/2 pairs of dots on transverse panel of *loros*, 4 on skirt; free end of *loros* as in B/1; inscription reads:ΘEOFIL bASILE;four-dotted *tufa*.

nos.98,99,102:similar; three-dotted *tufa*.

no.100: similar; inscription reads: bASIL.

no.101:similar; six-dotted *tufa* (Table 2).

no.103:similar; free end of *loros* with three-dotted fringe.

nos.106,107,108:similar; no.107 with four-dotted *tufa*.

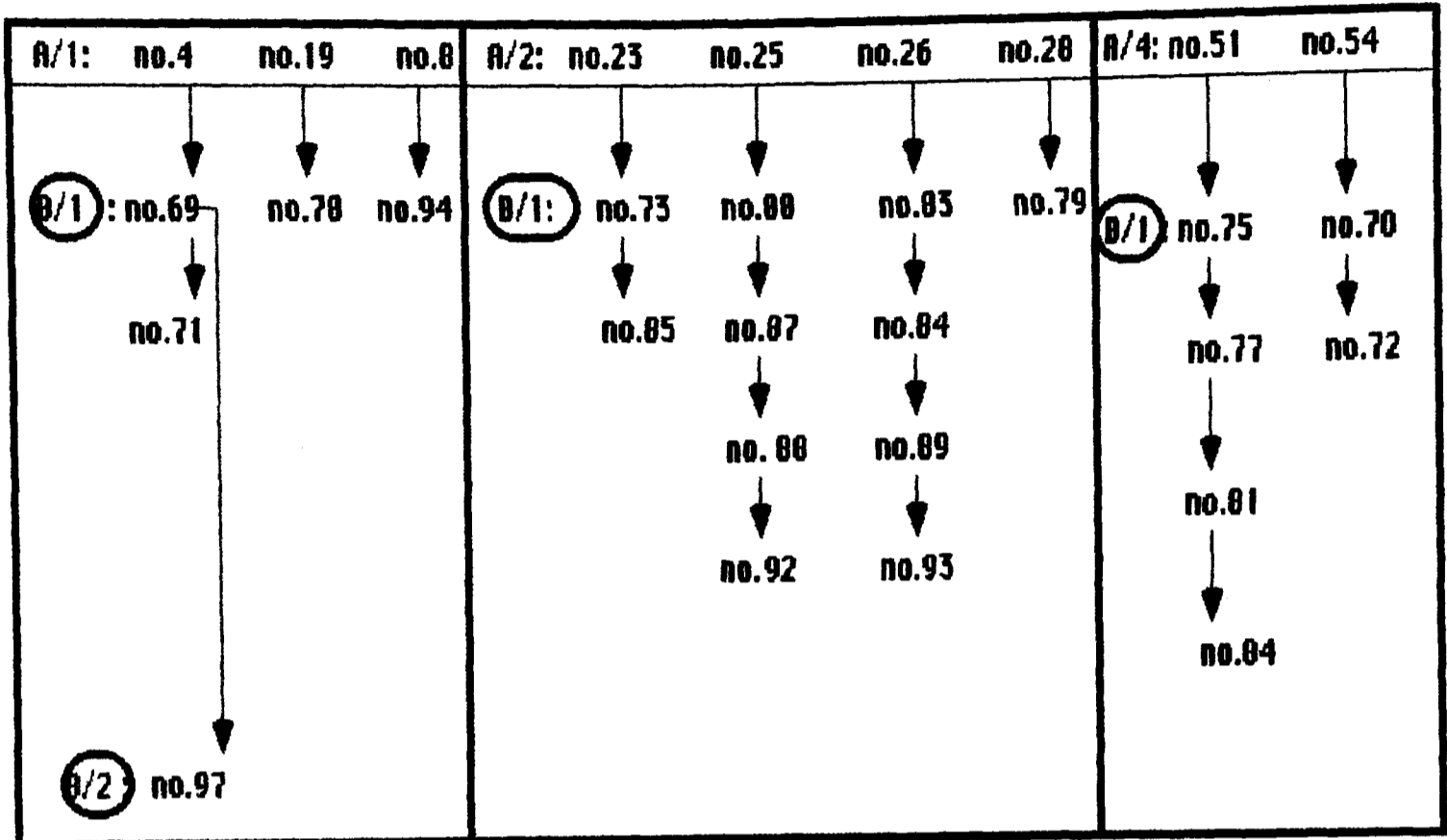
no.110: similar, but without free end of *loros* at all, and without pendants on labarum.

no.111: similar, but labarum with two tiny pendants.

no.112,113,114: quite worn and details obscure; five-dotted *tufa*; erratic workmanship: dots of skirt panel of *loros* outside their squares; incomplete *loros*.

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**Reverse die-similarities between group A and B:**



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**Group Γ**

- \*115. *Hesperia* 54; W=?; D=26mm.
- 116. **Weller** (July 1971); W=6.69g.; D=30mm.
- \*117. *ΔW* 56; W=7.40g.; D=27mm.
- 118. *Hesperia* 57; W=?; D=26mm.
- 119. **Athens, Numismatic Museum** (12340b); W=8.53g.; D=30mm.
- \*120. **Bendall** (ex Thessalonika); W=7.93g.; D=31mm.
- \*121. **Thessaloniki** (Rotunda 508a); W=3g.; D=27mm.
- \*122. *ΔW* 57; W=8.98g.; D=31mm.
- 123. **Stavrides Collection**; W=626g.; D= -.
- 124. *Hesperia* 56; W=?; D=26mm.
- 125. *Hesperia* 55; W=?; D=28mm.
- \*126. *ΔW* 15; W=8.60g.; D=30mm.
- \*127. *ΔW* 59; W=6.72g.; D=27mm.
- 128. *ΔW* 58; W=5.98g.; D=28mm.
- 129. **Stavrides Collection**; W=7.85g.; D= -.
- 130. **Giannena** (Archaeological Museum); W=6.45g.; D=26mm.
- 131. **Weller** (July 1971); W=7.75g. D=28mm.
- \*132. *ΔW* 16; W=7.03g.; D=27mm.
- \*133. **Weller** (July 1970); W=4.72g.; D=28mm.
- 134. **Weller** (April 1968); W=6.23g.; D=30mm.

no.115: 4 1/2 pairs of dots on transverse panel of *loros* and 4 on skirt. Row of dots along outer edge of free end of *loros*.

no.116: uncertain numbers of dots on transverse panel of *loros*, 4 pairs of dots on skirt; long, rectangular free end of *loros* with 5 pairs of dotted squares; row of dots along outer edge of free end ; no contraction mark after Theophilus' name.

**nos. 117, 118, 120, 122, 123:** 5 1/2 pairs of dots on transverse panel of *loros* and 3 on skirt; free end of *loros* shorter than on nos. 115-116.

**no. 119:** similar with 4 dots on fringe of free end of *loros*; shorter free end of *loros* than on no. 117.

**no. 121:** die-duplicate of no. 120.

**nos. 124, 125:** very similar to no. 121.

**no. 126:** similar but 4 1/2 pairs of dots on transverse panel of *loros*; crown, elongated six-dotted *tufa*, *loros*, shaft of labarum, neckline in dotted style.

**no. 127:** similar but emperor's face slightly more rounded.

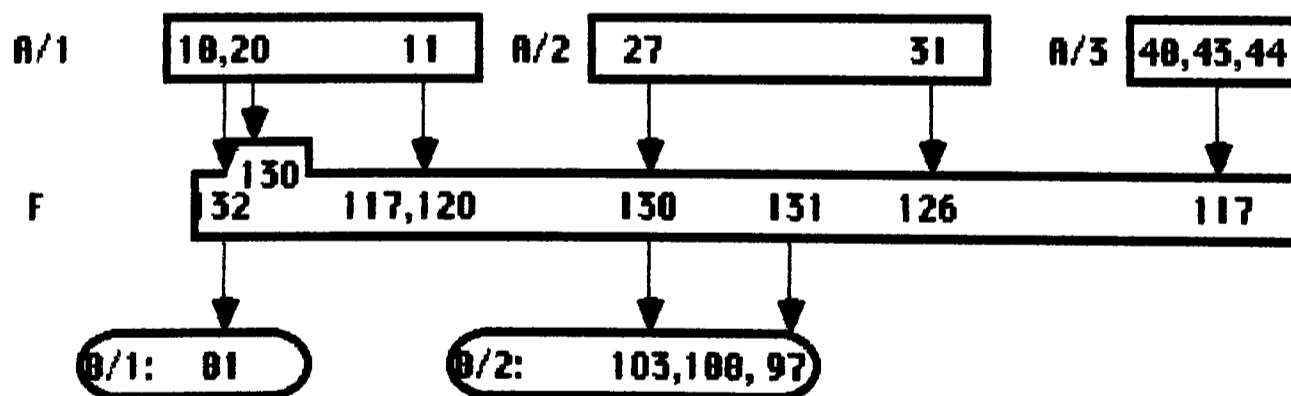
**no. 128:** die-duplicate of no. 127.

**nos. 129, 130, 131, 132, 133:** similar but emperor's face slightly smaller.

**no. 134:** similar but in cruder style.

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**Reverse die-similarities between Group Γ and A or B:**



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**Group Δ**

Δa

\*135. **Fitzwilliam 5;** W=?; D=24mm.

136. **Stavrides Collection;** W=3.86g.; D= -.

- \*137. **MM 60**; W=4.29g.; D=24mm.
- \*138. **Weller** (July 1970); W=3.96g.; D=24mm.
- \*139. **DOC 16a.1**; W=5.13g.; D=24mm.
- \*140. **MM 28**; W=5.04g.; D=25mm.
- 141. **MM 29**; W=4.50g.; D=24mm. Worn
- 142. **Athens, Numismatic Museum** (1901/2 KB' 60); W=3.56g.; D=25mm.
- 143. **Rauch Sale 35/6074**; W=?; D=24mm.
- 144. **Weller** (Oct.1972); W=2.81; D=24mm.
- 145. **Elsen Sale 53/101**; W=4.02g.; D=24mm.
- 146. **DOC 16a.2**; W=4.87g.; D=25mm.
- 147. **Weller** (Oct.1972); W=4.06g.; D=25mm.
- \*148. **MM 64**; W=4.90g.; D=24mm.
- 149. **Zurich 49**; W=4g.; D=25mm.
- 150. **Weller** (June 1968); W=4.65g.; D=24mm.
- 151. **AMS 4**; W=4.24g.; D=24mm.
- 152. **Weller** (Aug.1967); W=5.02g.; D=24mm.
- 153. **MM 65**; W=5.38g.; D=26mm.
- 154. **PDW 2**; W=4.7g.; D=26mm.
- \*155. **MM 27**; W=4.63g.; D=24mm.
- 156. **DOC 16a.3**; W=3.61g.; D=26mm.
- 157. **Ratto 1826**; W=?; D=25mm.
- \*158. **MM 67**; W=2.95g.; D=23mm.
- \*159. **MM 62**; W=4.22g.; D=25mm.
- \*160. **Weller** (July 1970); W=2.78g.; D=23mm.
- 161. **Schlumberger 3033**; W=3.15g.; D=23mm.
- \*162. **Stockholm**; W=4.68g.; D=25mm.
- \*163. **Berlin 8**; W=3.85g.; D=25mm.

164. **Weller** (July 1971); W=2.64g. ; D=22mm.  
165. **Weller** (July 1970); W=2.82g. ; D=22mm.  
166. **Schlumberger 3032**; W=?; D=22mm.  
167. **Weller?**; W=2.70g. ; D=25mm.  
168. **Fitzwilliam**; W=4.43g. ; D=25mm.  
169. **DM 70**; W=3.74g. ; D=24mm.  
\*170. **DM 71**; W=3.54g. ; D=22mm.  
\*171. **Weller** (July 1971); W=3.77g. ; D=24mm.  
\*172. **Weller** (April 1968); W=5.83g. ; D=24mm.  
\*173. **DOC 16.b8**; W=1.97g. ; D=18mm. Clipped  
174. **Weller** (Oct.1972); W=3.38g. ; D=22mm.  
175. **Weller** (April 1968); W=3.90g. ; D=23mm.

**nos.135,136**: 5 1/2 pairs of dots on transverse panel of *loros* and 2 1/2 on skirt; *tufa* obscure; triangular free end of *loros* with four-dotted fringe at the end.

**nos.137,138**: very similar but 4 pairs of dots on transverse panel of *loros*; three-dotted *tufa*; no fringe at free end of *loros*.

**no.139**: 2 1/2 pairs of dots on skirt panel; four-dotted *tufa*; free end of *loros* divided into 5 pairs of squares.

**nos.140,142,143**: emperor's face more rounded; 3 pairs of dots on skirt panel of *loros*.

**nos.144,145**: similar.

**no.146**: 5 pairs of dots on transverse panel of *loros*.

**no.147**: worn but emperor's face triangular.

**no.148**: similar to previous specimens but in a cruder style; 4 pairs of dots on transverse panel of *loros*.

**no.149**: emperor's portrait very similar to nos.135-137 but the drapery over emperor's left hip is reduced to a couple of shading lines; banner of labarum without pendants; inscription reads:  $\Theta\text{E}\text{O}\text{F}\text{L}/$ .

- no.150: similar; banner of labarum with pendants.  
no.151,155: emperor's face smaller than on previous specimens; small scallop-shaped *tufa*; 4 pairs of dots on transverse panel of *loros* and 3 on skirt.  
no.152: near-duplicate of no.151; large orb.  
no.153: similar; emperor's *tufa* stands on stalk and *globus* highest at level of emperor's shoulder.  
nos.154,156-158,161-165: similar but very small orb; quite linear style.  
no.159: generally similar to no.158; very dense drapery over emperor's left hip.  
no.160: very crude style; beard and crown in dotted style; 5 1/2 pairs of dots on transverse panel of *loros* and 3 on vertical.  
nos.166,167,168,169: style even more irregular; undotted skirt panel of *loros*; *tufa* as isosceles triangle.  
no.170,171: very linear style; four-dotted *tufa*; dotted free end of *loros* treated as on group B.  
nos.172,174,175: same linear style; different portrait of emperor.  
no.173: very similar to *folles* of group E.

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Ab

- \*176. *AN* 61; W=4.60g.; D=23mm.  
\*177. *AN* 30; W=4.41g.; D=26mm.  
178. Athens, Numismatic Museum (12340e); W=3.54g.; D=23mm.  
179. PDW 1; W=3.45g.; D=23mm.  
180. Weller (July 1971); W=3.77g.; D=21mm.  
181. Athens, Numismatic Museum (12340z); W=2.45g.; D=20mm.  
182. Weller (Sept.1969); W=4.48g.; D=22mm.  
183. Weller (July 1970); W=2.60g.; D=20mm.  
184. Athens, Numismatic Museum (1902/3 KD' 55); W=4.43g.; D=23mm.  
185. *AN* 66; W=3.64g.; D=23mm.  
186. Weller (July 1971); W=3.87g.; D=23mm.

187. **Weller** (May 1974); W=4.28g. ; D=25mm.

no.176: very similar to nos.135-138 but drapery over emperor's left hip mirror image of A/2; 4 1/2 pairs of dots on transverse panel of *loros* and 3 on skirt; very neat workmanship.

no.177: very similar but emperor's face slightly shorter; four-dotted *tufa*; 4 pairs of dots on skirt panel of *loros*.

no.178: similar but emperor's face longer; 5 pairs of dots on transverse panel of *loros* and 2 1/2 on skirt.

no.179: 3 1/2 pairs of dots on skirt panel of *loros*.

no.180: very similar to n.178 but 4 1/2 pairs of dots on transverse panel of *loros* and 4 on skirt; three-dotted *tufa*.

no.181: similar to no.176.

nos.182-186: similar to no.181.

no.187: similar but in a linear style.

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ΔC

\*188. **Schlumberger 3035**; W=4.32g. ; D=25mm.

\*189. **DOC 16b.7**; W=2.95g. ; D=22mm.

190. **Weller** (July 1971); W=2.50g. ; D=22mm.

191. **Vienna 5**; W=5.40g. ; D=22mm.

\*192. **MM 33**; W=4.86g. ; D=23mm.

193. **Weller** (July 1970); W=5.1g. ; D=22mm.

194. **Weller** (April 1968); W=3.30g. ; D=22mm.

195. **Vienna 6**; W=3.05g. ; D=22mm.

196. **Sofia**; W=3.12g. ; D=21mm.

\*197. **DOC 16.b3**; W=4.34g. ; D=23mm.

\*198. **Weller** (April 1969); W=4.16g. ; D=22mm.

199. **Stavrides' Collection**; W=4.96g. ; D= -.

\*200. **Schlumberger 3031**; W=4.64g. ; D=23mm.

201. **Ratto 1827**; W=?; D=22mm.

- \*202. **Weller** (Aug. 1969); W=2.36g.; D=24mm.
- 203. **Weller** (July 1970); W=3.35g.; D=23mm.
- \*204. **ZNF 34**; W=3.12g.; D=21mm.
- 205. **Weller** (Oct. 1972); W=2.44g.; D=20mm.
- 206. **Kress Sale 135/954**; W=?; D=20mm.
- 207. **DOC 16b.4**; W=3.35g.; D=22mm.
- \*208. **DOC 16b.6**; W=3.01g.; D=21mm.
- 209. **Weller** (July 1971); W=4.57g.; D=23mm.
- \*210. **ZNF 68**; W=3.41g.; D=23mm.
- 211. **DOC 16b.2**; W=5.05g.; D=24mm.
- \*212. **Weller** (Oct. 1972); W=3.62g.; D=23mm.
- 213. **Weller** (July 1971); W=4.29g.; D=24mm.
- \*214. **ZNF 31**; W=4.05g.; D=21mm.
- \*215. **DOC 16c**; W=3.59g.; D=26mm.
- 216. **Elsen Sale 37/140**; W=4.38g.; D=23mm.
- 217. **ZNF 32**; W=4.18g.; D=23mm.
- 218. **Weller** (Sept. 1969); W=3.11g.; D=21mm.
- 219. **Weller** (May 1974); W=2.45g.; D=21mm.

no.188: emperor's portrait quite similar to no.142 but emperor has reversed *loros*; three-dotted *tufa*.

no.189: near-duplicate of no.188; 5 1/2 pairs of dots on transverse panel of *loros* and 3 on skirt.

no.190: extremely similar to no.189.

no.191: emperor's portrait very similar to no.162.

no.192: similar to no.191.

nos.193-206: similar.

nos.207,208: extremely similar to no.206; inscription reads ΘEOF.

no.209: very similar to n.208; inscription duplicate of n.195.

nos. 210, 211, 213: emperor's face very long; very small orb.  
 no. 212: similar but three-dotted *tufa*.  
 no. 214: emperor's face broad and long; cross in field.  
 no. 215: similar; inscription reads ΘEOFΛ/.  
 no. 216: similar but four-dotted *tufa*; inscription reads as on  
 no. 215.  
 no. 217: extremely similar to n. 209; cross in field.  
 no. 218: extremely similar to no. 204; cross in field. ΘEOF/.  
 no. 219: similar; inscription reads normally.

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**Reverses:**

- Δa : nos. 135-140:
- Δb : nos. 176, 177, 179:
- Δc : no. 191, 212

small neat lettering with narrow V's and broad E's: very much  
 reminiscent of some Δ/3 reverses----- nos. 43-45.

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- Δa : nos. 141-158, 160-166:
- Δb : nos. 170, 180-187:

very similar to previous run but even smaller lettering.

\*\*\*\*\*

- Δa: no. 159, 173:
- Δc: no. 192:

lettering very much reminiscent of group B-----i.e  
 nos. 68, 71, 79, 92, 106, 107.

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- Δa: nos. 167-172:
- nos. 167-169 very similar to nos. 95 and 96 (Δ/3).
- Δb nos. 170-172:
- Δc: nos. 188, 189, 191-211, 213-219:

very similar to some Δ/3 reverses-----nos. 33, 34, 37.

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**Group E**

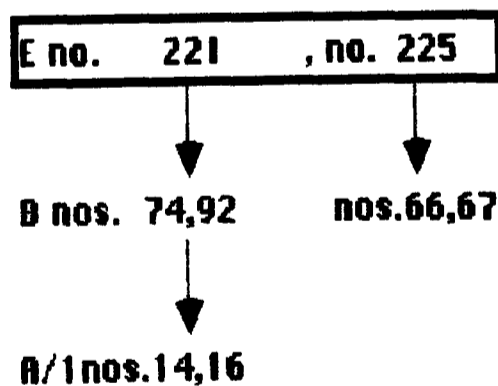
- \*220. **Hesperia 63**; W=?; D=24mm.
- \*221. **DOC 15a.11**; W=7.26g.; D=27mm.
- \*222. **DOC 15a.16**; W=5.87g.; D=29mm.
- \*223. **Stockholm**; W=5.13g.; D=24mm.
- \*224. **BN 37**; W=7.59g.; D=27mm.
- \*225. **DOC 15b**; W=6.61g.; D=27mm.
- 226. **Athens, Numismatic Museum (12340 g')**; W=7.57g.; D=26mm.
- 227. **BMP AE/11**; W=6.72g.; D=23mm.

no.220,221,222.: four-dotted *tufa* extremely similar to no.174.

no.223: very similar but emperor's face more rounded; 5 pairs of dots on transverse panel of *loros* and 2 on skirt instead of 6 1/2 & 3 1/2; no pendants on labarum?

nos.224,225,226,227: similar but 6 1/2 pairs of dots on transverse panel of *loros* and 3 on skirt.

**Reverse die-similarities among groups E, B and A.**



**Group S**

**S/1a**

- \*228. **BN 38**; W=4.01g.; D=27mm.
- 229. **Hesperia 65**; W=?; D=28mm.
- 230. **Weller (June 1968 from Izmir)**; W=7.18g.; D=27mm.

231. **Weller** (July 1970); W=4.31g.; D=27mm.
- \*232. **BN 39**; W=6.59g.; D=30mm.
- \*233. **Weller** (Sept. 1969); W=7.81g.; D=30mm.
- \*234. **Weller** (Aug. 1969); W=5.92g.; D=28mm.
235. **Stavrides Collection**; W=8.07g.; D=?.
236. **Weller** (April 1968 from Antalya); W=7.89g.; D=30mm.
- \*237. **Paris 825**; W=5.31g.; D=29mm.
- \*238. **Weller** (July 1970); W=5.71g.; D=29mm.
- \*239. **Weller** (Sept. 1969); W=4.35g.; D=27mm.
240. **Weller** (Aug. 1969); W=4.10g.; D=27mm.
241. **Weller** (Sept. 1969); W=3.77g.; D=25mm.
242. **Hesperia 74**; W=?; D=27mm.
243. **Hesperia 69**; W=?; D=30mm.
244. **Hesperia 75**; W=?; D=27mm.
- \*245. **Berlin 1**; W=6.41g.; D=28mm.
- \*246. **Kavala** (Archaeological Museum); W=7.45mm.; D=27mm.
- \*247. **PDW 5**; W=6.02g.; D=27mm.
248. **Weller** (Oct. 1972); W=5.98g.; D=25mm.
249. **Sherborn**; W=7.96g.; D=28mm.
250. **BN 72**; W=5.27g.; D=29mm.
251. **Hesperia 73**; W=?; D=27mm.
252. **Weller** (Oct. 1972); W=7.87g.; D=29mm. ("mule" S/1 and Z)
253. **Weller** (Sept. 1969); W=6.83g.; D=29mm. ("mule" S/1 and Z)
- \*254. **Hesperia 119**; W=?; D=29mm. ("mule" S/1 and Z)
255. **Stavrides' Collection**; W=4.92g.; D=?
256. **Bryer**; W=5.25g.; D=27mm. ("mule" S/1 and Z)
- \*257. **Weller** (1971); W=4.63g.; D=26mm. ("mule" S/1 and Z)

On these coins the *tufa* is decorated with four dots, while the banner of the labarum has no pendants.

The emperor's face is normally long, but there are examples on which it is shorter and has more intense features and on a group of six specimens (nos. 236-241), of which four are near duplicates, it is rather broad.

The hair is depicted by a wavy line at each side of the head terminating in an extremely bushy lock.

Some specimens lack the abbreviation mark after Theophilus' name (nos. 242, 247, 248).

The lettering of the reverse type is normally small. Nos. 252-257, however bear a quite different type of lettering, which is larger and in an even cruder style, with a dropped T; these are apparently S/Z "mules".

no. 228: 4 1/2 pairs of dots on transverse panel of *loros* and 2 on skirt; triangular free end of *loros* with dotted intersections. Long face; *globus cruciger* contiguous with emperor's shoulder; dotted style.

no. 229: extremely similar but with 10 dots on transverse panel of *loros* (4 pairs, 2 single dots on lower row).

nos. 230, 231: 5 pairs of dots on transverse panel of *loros*.

nos. 232, 233: similar but emperor's face rounded at jaw and skirt panel of *loros* with 3 pairs of dots.

nos. 234, 235: similar but emperor's face smaller.

no. 236: emperor's face more triangular than on previous coins; 10 dots on transverse panel of *loros* as on no. 229.

no. 237: very similar but 4 1/2 pairs of dots on transverse panel of *loros*, 2 on skirt.

no. 238: Obverse die-duplicate of no. 237.

nos. 239-244: similar.

- no.245: extremely similar to no.244 but free end of *loros* with dotted intersections.
- no.246: extremely similar to no.245; the coin shows traces of repaired die: above the lock of hair to right of emperor's face there is the trace of a second tassel-like one.
- no.247,248: very similar to nos.245-246 but free end of *loros* shorter and wider without intersections.
- no.249: 3 pairs of dots on transverse panel of *loros*.
- no.250: 4 pairs of dots.
- no.251: die-duplicate(?) of no.249.
- no.252: similar to no.249.
- no.253: quite similar to n.251; dotted intersections at free end of *loros*.
- no.254: obverse die-duplicate of no.252.
- nos.255,256,257:very similar to no.254.

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**S/1b**

- \*258. **Weller** (1969); W=7.32g.; D=29mm. ("mule" S/1 and Z)
- 259. **Munich 1**; W=?; D=29mm. ("mule" S/1 and Z)
- \*260. **Elsen Sale 41/55**; W=6.12g.; D=27mm. ("mule" S/1 and Z)

The only major difference between these coins and those of the previous run is that the banner of the labarum has pendants. In addition, the free end of the *loros* is depicted without dotted intersections, is shorter, and ends in a three-dotted fringe that is most clearly apparent on no.258.

The reverses of all those specimens are also made by dies of group Z.

- no.258: very similar to no.229 but 5 1/2 pairs of dots on transverse panel of *loros*. 3 on skirt; short rectangular free end

of *loros* divided into 3 undotted pairs of squares; three-dotted fringe; inscription reads: ΘΕΟΦΙ.

no.259,260: very similar but 4 1/2 pairs of dots on transverse panel of *loros*, 2 on skirt; lop-sided *tufa*.

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**S/1c**

\*261. *Hesperia* 77; W=?; D=27mm.

\*262. DOC 15a.14; W=6.22g.; D=29mm.

\*263. Weller (Aug.1967); W=7.61g.; D=27mm.

\*264. DOC 15a.9; W=7.55g.; D=28mm. (S/A3 "mule").

On this run the emperor's face is smaller with less intense features and the locks of hair which flank it, while similar to these on the other runs, are much more schematised.

On nos.261 and 262, which are near-duplicate and on no.264 the six-dotted *tufa* is elongated, while on no.263 it is slightly shorter and raised, and the dots are disposed in a rather slovenly fashion:

The free end of the *loros* is narrow on nos.261 and 262, but wide on no.263 while that on no.264 has dots at the intersections.

The lettering of the obverse inscription is invariably small though on no.263 it is slightly larger. No.264 is actually an S/A3 "mule".

no.261,262,263: 5 1/2 pairs of dots on transverse panel of *loros*, 3 on skirt; emperor's portrait smaller than on previous run; six-dotted *tufa*.

nos.264: generally similar to nos.261-263 but emperor's face longer.

=====

**S/1 d**

- 265. **Weller** (July 1967); W=6.88g. ; D=30mm.
- \*266. **Weller** (July 1971); W=6.51g. ; D=30mm.

This run of coins resemble the previous one quite closely in terms of its general workmanship, the imperial portrait and its use of the six-dotted *tufa*, but the banner of its labarum carries no pendants.

The obverse inscription has no abbreviation mark reading simply ΘEOFΙ ΒΑΣΙΙ.

Both specimens have extremely similar reverse lettering. The most striking feature of this lettering is the very small T in the third line of the inscription .

nos.265,266: very similar to no.260 but labarum without pendants; inscription reads: ΘEOFΙ ΒΑΣΙΙ; traces of overstriking.

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**Group S/2**

**S/2a**

- \*267. **Hesperia 87**; W=?; D=30mm.
- 268. **M 73**; W=6.67g. ; D=29mm.
- 269. **DOC 15d.2**; W=7.89g. ; D=30mm.
- 270. **Stavrides' Collection**; W= 5.93g. ; D= ?.
- 271. **DOC 15d.3**; W=7.39g. ; D=29mm.
- \*272. **Hesperia 92**; W=?; D=29mm.
- 273. **M 40**; W=7.48g. ; D=30mm.
- \*274. **Hesperia 80**; W=?; D=29mm.
- \*275. **M 43**; W=7.92g. ; D=28mm.
- 276. **M 44**; W=7.63g. ; D=29mm.
- 277. **Stavrides' Collection**; W=5.49g. ; D=?.
- 278. **Weller** (July 1971); W=5.68g. ; D=29mm.

- 279. **Weller** (April 1968); W=7.29g.; D=28mm.
- \*280. **Weller** (June 1968); W=6.85g.; D=30mm.
- 281. **Weller** (Sept. 1969); W=7.92g.; D=29mm.
- \*282. **Stavrides' Collection**; W=6.27g.; D=?.
- 283. **Weller** (July 1971); W=6.05g.; D=28mm.
- 284. **Weller** (Oct. 1972); W=3.44g.; D=28mm.
- \*285. **Weller** (Oct. 1972); W=6.87g.; D=28mm.
- 286. **DOC 15d.5**; W=6.79g.; D=27mm.
- 287. *Hesperia* 95; W=?; D=27mm.
- \*288. *Hesperia* 93; W=?; D=27mm.

In this run the *tufa* is elongated and bears six dots, while the banner of the labarum is without pendants.

The emperor's face is normally long and the head is usually reminiscent of that of coins of S/1a, having similarly shaped locks of hair, though here they are denoted by shading lines which are absolutely horizontal.

The obverse inscription is executed in a rather slovenly way and may be abbreviated to ΘEOFI BASI to ΘEOFI BAST<sup>i</sup> (nos. 268, 287, 288), or to ΘEOF BASI (no. 278).

The form of the reverse lettering is quite consistent throughout the run and very similar to that on regular reverses of group S/1a.

**nos. 267-288:** 5 1/2 pairs of dots on transverse panel of *loros* and 3 1/2 on skirt.

**no. 273:** emperor's face slightly shorter.

**no. 275:** emperor's face rounded.

**no. 283:** emperor's face slightly longer.

**no. 288:** three-dotted *tufa*.

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**S/2b**

289. **Weller** (July 1971); W=5.80g.; D=26mm.
- \*290. **Weller** (Aug. 1969); W=4.89g.; D=26mm.
- \*291. **Sherborn**; W=8.17g.; D=29mm.
292. **MF 41**; W=5.61g.; D=27mm.
293. **Stavrides' Collection**; W= 8.13g.; D=?.
294. **Weller** (April 1968); W=6.26g.; D=29mm.
295. **Weller** (Aug. 1969); W=7.67g.; D=26mm.
296. **Athens, Numismatic Museum** (12340 8'); W=6.97g.; D=26mm.
- \*297. **Hesperia 99**; W=?; D=27mm.
298. **MF 42**; W=6.87.; D=26mm.
299. **Weller** (May 1967); W=9.16g.; D=27mm.
- \*300. **Weller** (April 1969); W=6.39g.; D=31mm.
- \*301. **Schlumberger 3024**; W=7.11g.; D=31mm.
302. **Weller** (July 1970); W=5.77g.; D=26mm.
303. **Athens, Numismatic Museum** (1905/6 H' 340); W=6.61g.; D=27mm.
- \*304. **Giannena** (from Naupaktos); W=6.25g.; D=26mm.

The coins of this run have a six-dotted *tau*, and pendants on the banner of the labarum.

The emperor's portrait and the workmanship in general is very much reminiscent of S/1c and S/1d.

The obverse carries the normal inscription ΘΕΟΦΙΛ ΒΑΣΙΛ in a rather small lettering.

Most of the reverse dies are very much alike, though the treatment of the T in the third line allows us to distinguish two styles of lettering. For example, on some specimens this has a rather long vertical bar with disproportionately short horizontal

ones ( nos.289,296). In general the reverse dies of S/2b show close affinities with those of S/1c and also with A3 reverses (see text).

**no.291:** similar to the previous specimens but emperor's face smaller and more triangular.

**no.292:** obverse **die-duplicate** of no.291.

**no.294:** obverse near-duplicate of nos.291-292.

**no.298:** generally similar to previous specimens but emperor's face slightly rounded; very similar to n.290.

**no.301:** similar to previous specimens but emperor's portrait in slightly linear style.

**no.302:** very similar but in an even linear style.

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## **Group Z**

### **Z/1a**

305. **BM 49**; W=6.36g. ; D=27mm.

306. **Schlumberger 3028**; W=5.50g. ; D=29mm.

307. **Weller** (Sept.1969); W=6.31g. ; D=28mm.

308. **Comotine**; W=?; D=30mm.

309. **Weller** (July 1971); W=3.33g. ; D=29mm.

\*310. **Weller** (Sept.1969); W=3.97g. ; D=27mm.

311. **BM 48**; W=8.94g. ; D=30mm.

312. **Bendal** (from Psophis)=Elsen Sale 61/144; W=6.68g. ; D=28mm.

**no.305:** worn, so number of dots on *loros* uncertain; emperor's face long and shading lines for locks of hair at sides not quite parallel to curve of jaw.

**no.306:** 5 1/2 pairs of dots on transverse panel of *loros*, 3 on skirt; emperor's jaw rounded.

**no.310:** similar to previous specimens but in even cruder style.

**no.311:** emperor's face slightly shorter.

Z/1b.

- \*313. **DOC 17.1**; W=8.20g.; D=28mm.
- 314. **MF 46**; W=5.78g.; D=28mm.
- \*315. **Stockholm 1**; W=6.66g.; D=29mm.
- \*316. **Hesperia 125**; W=?; D=30mm. (Z/S1a "mule")
- 317. **Hesperia 131**; W=?; D=27mm. (Z/S1d "mule").
- 318. **Weller** (Sept.1969); W=6.38g.; D=27mm.
- 319. **Weller** (Sept.1969); W=4.23g.; D=27mm.
- 320. **Hesperia 122**; W=?; D=27mm.
- 321. **Weller** (Aug.1967); W=5.92g.; D=26mm. (Z/1a "mule").
- 322. **Weller** (Oct.1972); W=5.24g.; D=27mm. ( " ).
- 323. **Weller** (Oct.1972); W=4.82g.; D=25mm.
- \*324. **Weller** (Sept.1969); W=3.87g.; D=24mm. (Z/1a "mule")

- no.313: 4 1/2 pairs of dots on transverse panel of *loros*.
- no.314: 4 pairs of dots on transverse panel of *loros*, 3 on skirt.
- no.315: 5 pairs of dots on transverse panel of *loros*.
- no.316: 4 1/2 pairs of dots on transverse panel of *loros*.
- no.318: hair more bouffant.
- no.319: 4 pairs of dots on transverse panel of *loros* and 2 on skirt.
- no.320: even crude style; 3 pairs of dots on transverse panel of *loros*, 2 on skirt; emperor's face wide.
- no.323: emperor's face very small.



Z/2

- 325. **Weller** (July 1967); W=8.27g.; D=29mm.
- 326. **Weller** (Oct.1972); W=5.72g.; D=28mm.
- 327. **Weller** (June 1968); W=5.75g.; D=27mm. (Z/S1a "mule")

328. **Weller** (July 1971); W=6.51g.; D=27mm. **(Z/A "mule")**
329. **Weller** (May 1974); W=4.19g.; D=24mm.
330. **PDV 6**; W=6.47g.; D=28mm.
331. **Weller** (Oct. 1972); W=8.20g.; D=30mm.
332. **DOC 17.2**; W=7.05g.; D=29mm.
333. **DOC 17.3**; W=6.64g.; D=27mm. **(Z/A "mule")**
334. **DOC 17.4**; W=6.17g.; D=27mm.
335. **Weller** (July 1971); W=5.61g.; D=30mm.
- \*336. **Weller** (Oct. 1972); W=4.13g.; D=27mm.
337. **DN 47**; W=9.90g.; D=31mm. **(Z/S "mule")**
338. **Stavrides' Collection**; W=?; D=?.
339. **Weller** (April 1969); W=5.76g.; D=30mm.
340. **DN 45**; W=5.73g.; D=28mm.
341. **DOC 17.5**; W=6.17g.; D=27mm. **(Z/S "mule")**
342. **Weller** (April 1968); W=3.76g.; D=27mm.
- \*343. **Weller** (Aug. 1967); W=6.39g.; D=26mm.
344. **DN 75**; W=5.75g.; D=27mm. **(Z/S2b "mule")**
345. **Weller** (July 1970); W= .85g.; D=27mm.
346. **Weller** (April 1968); W=6.10g.; D=28mm.
347. **DN 50**; W=6.22g.; D=30mm.
348. **Athens, Numismatic Museum** (AE 143 H' 7); W=6.17g.; D=26mm.
349. **Weller** (Sept. 1969); W=6.65g.; D=28mm.
350. **Weller** (July 1971); W=5.38g.; D=27mm.
351. **Weller** (1969); W=5.68g.; D=28mm.
352. **DN 51**; W=?; D=27mm.
353. **Hesperia 144**; W=?; D=24mm.
354. **Hesperia 147**; W=?; D=24mm.

355. *Hesperia* 133; W=?; D=25mm.

356. **Elsen Sale 58/193**; W=5.70g.; D=27mm.

\*357. *MM* 76; W=4.93g.; D=25mm. (Z/S2b "mule")

no.325: similar to 306. Rev.: Very irregular, struck over previous type and inscription very confused.

no.327: dots on *tufa* disposed as on table 4.

no.328: very bouffant hair; small, rather neat lettering.

no.332: very crude style.

no.333: very similar to no.331 but emperor's jaw pointed.

no.343: in neater style and emperor's bust in three-quarter view.

no.346: shading lines of left lock of emperor's hair run outwards.

no.347: five-dotted *tufa*.

no.355: hIAS instead of NICAS, on the reverse inscription.

no.357: Quite different portrait of emperor.

=====

**Group H**

358. *MM* 35; W=7.14g.; D=28mm.

359. *Hesperia* 163; W=?; D=28mm.

\*360. **Comotine** (Archaeological Museum n.2276); W=?; D=27mm.

361. **DOC 15a.2**; W=8.58g.; D=26mm.

362. **Weller** (May 1974); W=6.88g.; D=29mm.

363. *Hesperia* 164; W=?; D=28mm.

\*364. **Rauch Sale 35/6074**; W=?; D=28mm.

365. **Weller** (Oct.1972); W=6.37g.; D=27mm.

366. **Weller** (July 1971); W=5.95g.; D=29mm.

367. **Weller** (Aug.1967); W=7.95g.; D=29mm.

368. **The Hague** (13727); W=5.35g.; D=30mm.

\*369. *Hesperia* 165; W=?; D=29mm.

370. **DOC 15a.13**; W=6.48g.; D=29mm.

- \*371. *Hesperia* 166; W=?; D=29mm.  
372. DOC 15a.17; W=4.46g.; D=26mm.  
373. Berlin 4; W=6.00g.; D=27mm.  
\*374. Naupaktos (Archaeological Museum-Gianenna); W=6.25g.; D=25mm.  
375. *BN* 77; W=6.79g.; D=28mm.  
\*376. Comotina (Museum n.1245); W= -.; D=27mm.  
377. *BN* 78; W=7.85g.; D=28mm.  
378. DOC 15a.1; W=9.04g.; D=28mm.  
379. Weller (1969); W=5.603g.; D=28mm.

no.358: 4 1/2 pairs of dots on transverse panel of *loros*, 2 on skirt; three-dotted tufa...; inscription reads: ΘEOFL/ bASIL/; reverse reminiscent of group S specimens (i.e. no.268=S/2a; no.291=S/2b).

no.359: very similar but in a cruder style and 4 pairs of dots on transverse panel of *loros*; reverse very similar to no.299 (S/2a).

nos.360-368: similar; on no.365 inscription reads ΘEOFL/ bASIL/; on no.367 reads:ΘEOFL bASIL; the reverse of no.361 similar to specimens S/2a.

no.369: generally similar to previous coins but probably in a neater style; very prominent tufa; small regular lettering.

nos.370-371: similar.

nos.372-373: similar; inscription reads:ΘEOFL bASIL.

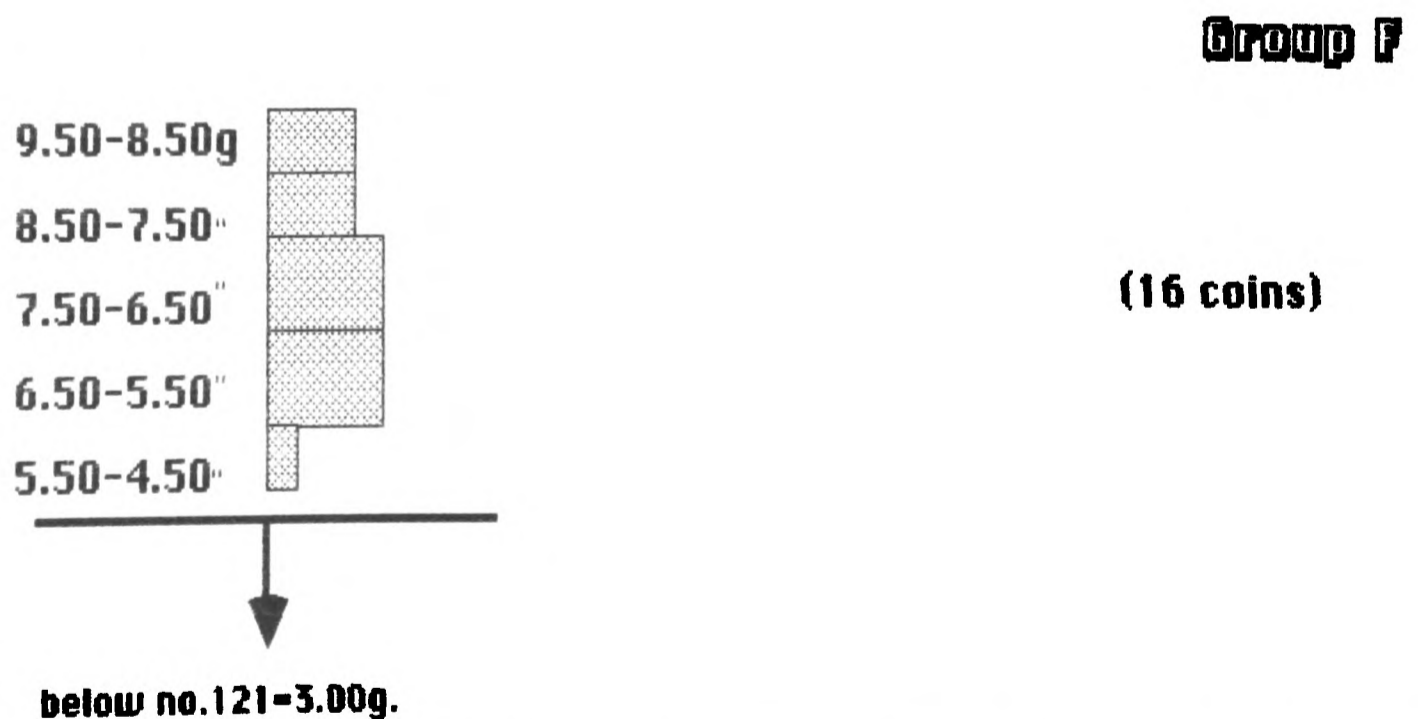
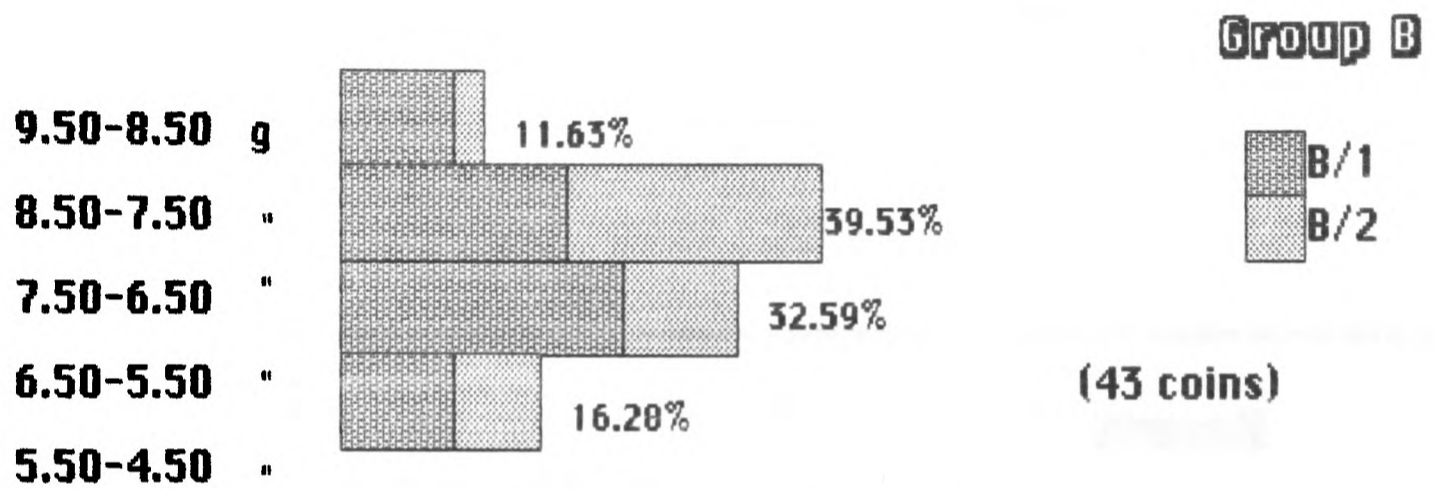
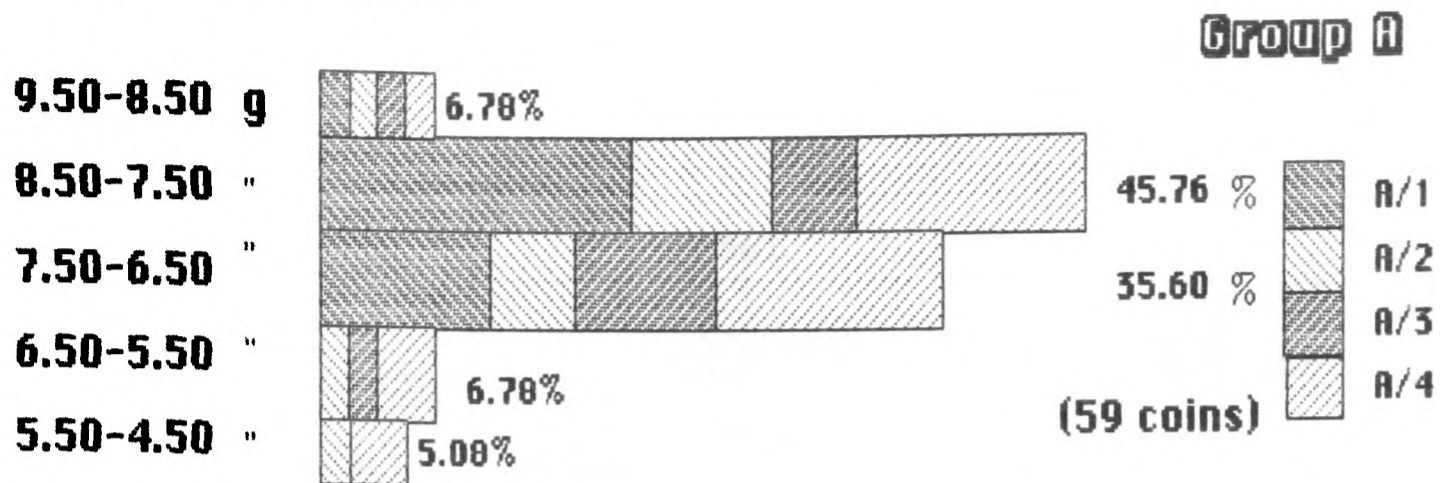
nos.374-376: similar; inscription reads:ΘEOFL bASL.

nos.377-378: similar; inscription reads:ΘEOFL bASI.

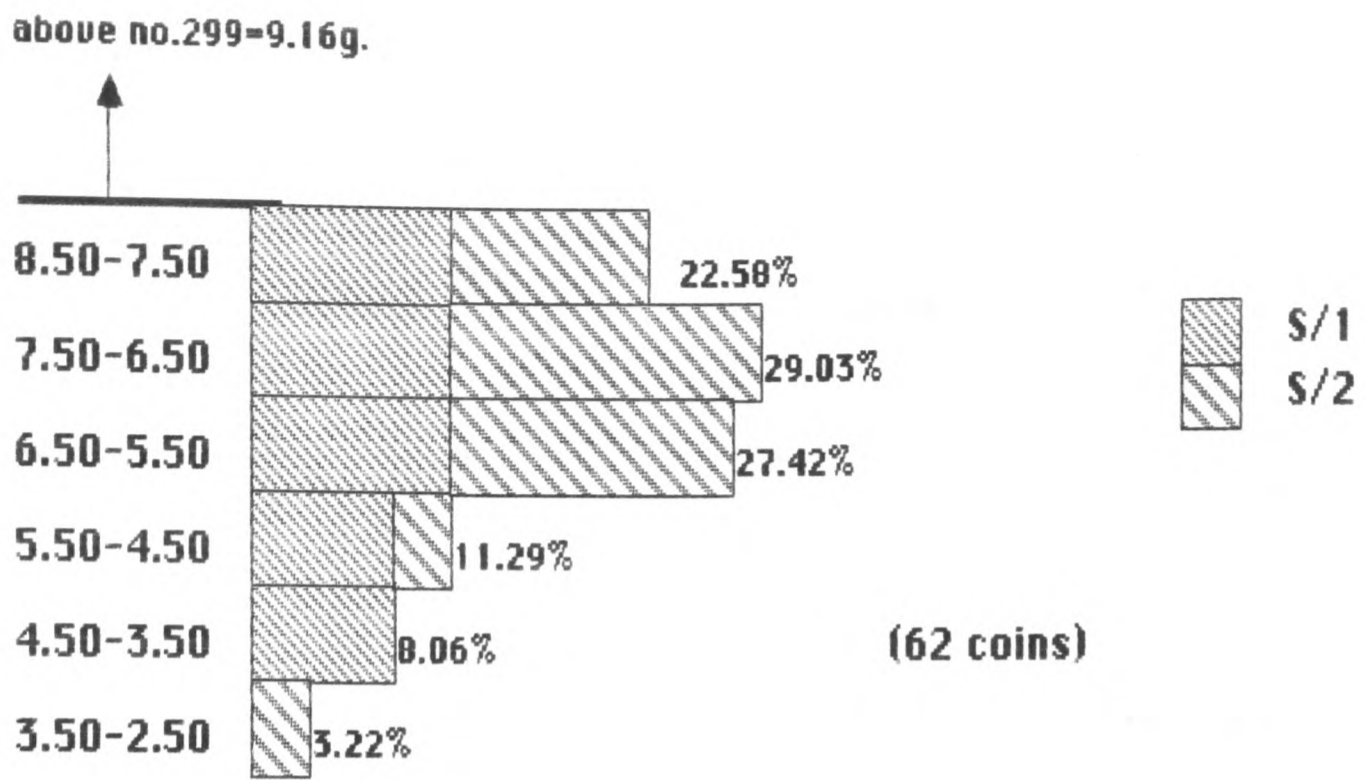
no.379: labarum without pendants; inscription reads:ΘEOFI bASI.

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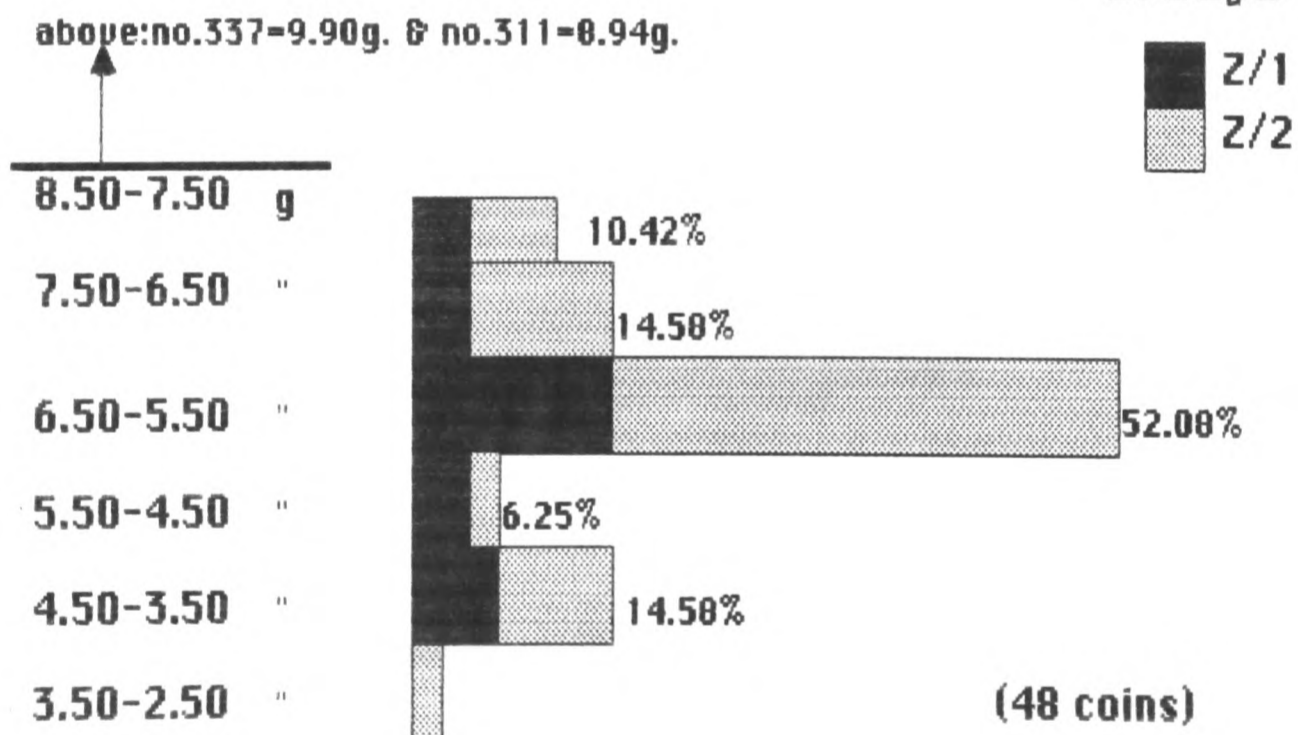
**Histograms of weights :**



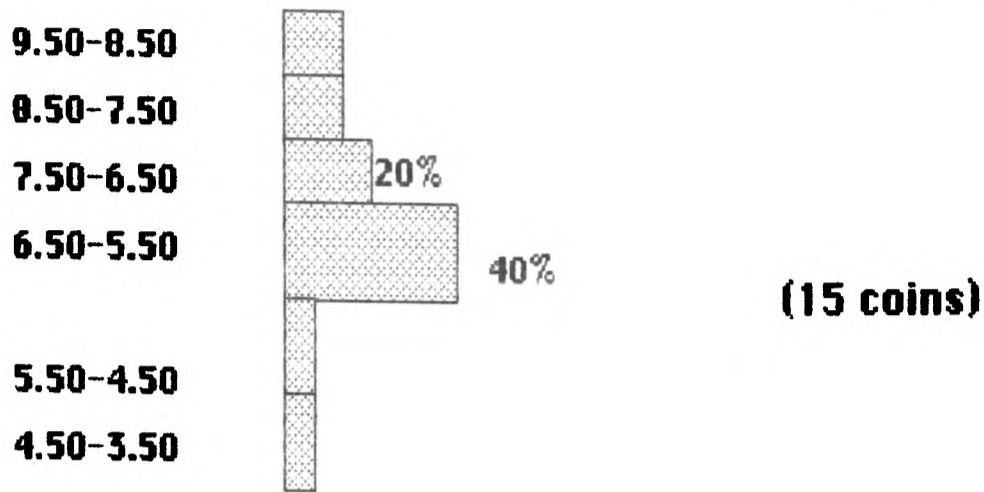
**Group 1**



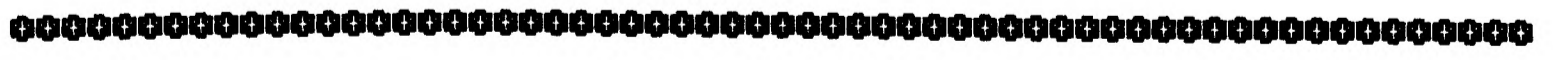
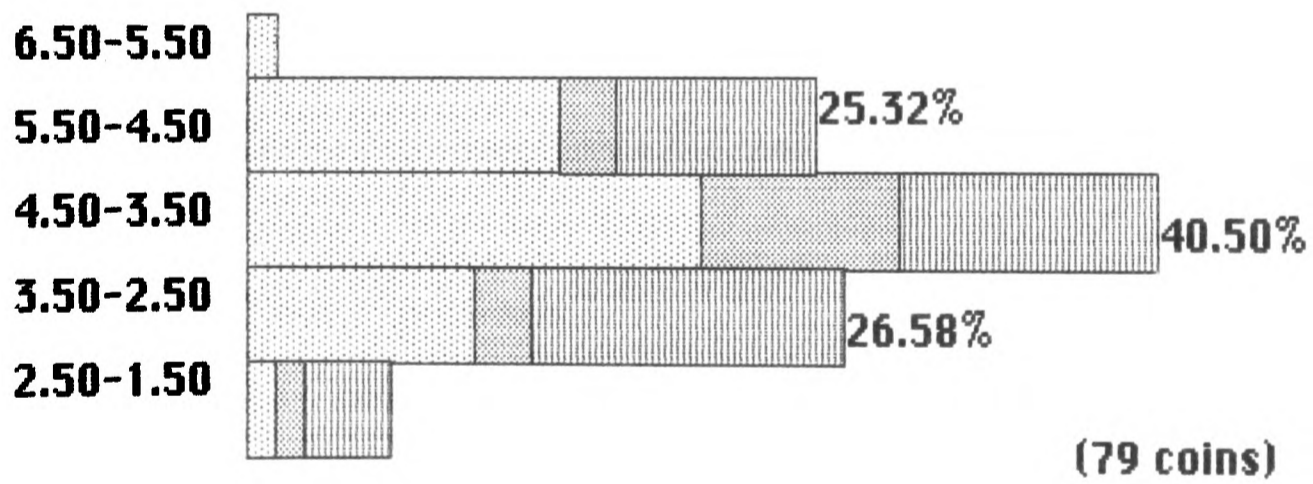
**Group 2**



**Group H**

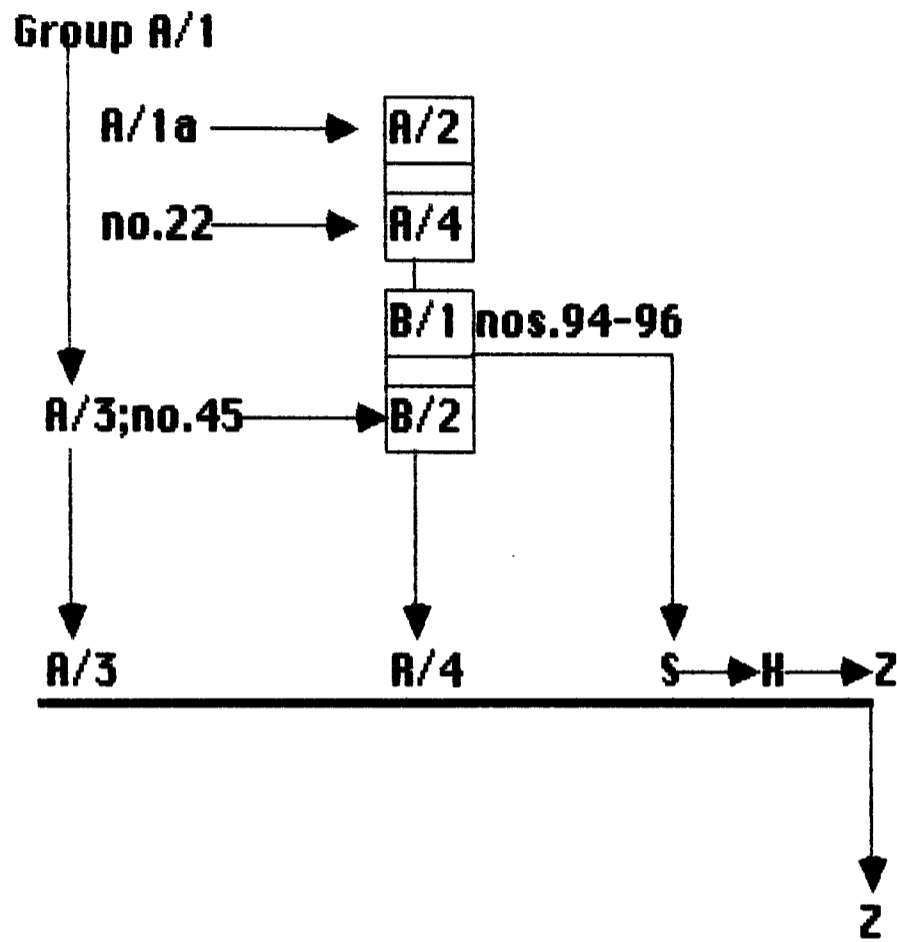


**Group Δ = Half-stalks**



**Theophilus' reformed copper coinage:**

**The mint of Constantinople: Provisional reconstruction of its operation.**



**Appendix IV.**

**Anonymous folles- Class A2.**

**The boards.**

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**I.1: Kato Basilica Aetolias/1988.**

Class	Group	Firm figures	Best guess	Not firmly identified	Total
A2	(iii)			1	1
	var. 2	1			1
	var. 5	2			2
	var. 3	7			7
					<hr/>
					11

---

**I.2: Corinth/1936**

A2	(iii)				
	var. 9	1			1
	var. 8	13			13
	var. 2	1			1
	var. 5	14			14
	var. 3	23			23
	var. 7	2			2
					<hr/>
					54

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**I.3: Corinth/22 May 1936.**

A2	(iii)			1	1
	var. 8	3			3
	var. 5	3			3
	var. 3	4			4
Worn					1
					<hr/>
					12

**I.4:Corinth/November 1936.**

Class	Group	Firm figures	Best guess	Not firmly identified	Total
A2	(iii)				
	var. 5	1			1
	var. 3	1			1
					<hr/> 2

---

**I.5:Corinth/February 1938 (a').**

A2	(iii)				
	var. 3	3			3

---

**I.6:Corinth/February 1938(b).**

A2	(iii)				
	var. 5	3			3

---

**I.7:Athens/29 February 1932.**

A2	(iii)				
	var. 8	2			2

---

**I.8:Athens/26 February 1934.**

A2	(iii)				
	var. 4		2		2

---

**I.9: Athens/11 March 1936.**

Class	Group	Firm figure	Best guess	Not firmly identified	Total
A2	(iii)			1	1
	var. 4		1		1
	var. 8	3		1	4
	var. 5	1			1
	var. 3/20		2		2
					<hr/> 9
Worn					1

---

**I.10: Athens/10 June 1936.**

A2	(iii)				
	var. 5		1		1
	var. 3/20		3	1	4
					<hr/> 5

---

**I.11: Athens/7 April 1951.**

A2	(iii)			1	1
	var. 5			2	2
	var. 3			1	1
					<hr/> 4

---

**I.12: Athens/25 May 1933**

A2	(iii)				
	var. 3/20	1	1		2

---

**I.13: Athens/16 March 1935.**

A2	(iii)				
	var. 8	1			1
	var. 5		1		1
					<hr/> 2

---

**I.14: Athens/16 April 1936.**

Class Group	Firmly identified	Best guess	Not firmly identified	Total
A2 (iii)				
var. 3/20		1		1
var. 5			1	1
				<hr/> 2

---

**I.15: Hornylia Chalkidiki/1988.**

Class Group	Firmly identified	Best guess	Not firmly identified	Total
A2 (iii)				
var. 4	2	1		3
var. 2	1			1
var. 3	6			6
var. 5	1	1		2
				<hr/> 12

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**I.16: Srpska Mitrovica/1903.**

A3 (iv)	3			3
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**Run II:**

**II.1:Corinth /1898.**

Class	Groups	Firm figure	Best guess	Not firmly identified	Total	%
Leo VI		1			1	1.41
Const. VII		3			3	4.23
Nic. II		2			2	2.82
<hr/>						
A1		4			4	5.63
A2	(ii)					
	var. 11	2			2	
	var. 14	1			1	
	var. 16a	1			1	
					<hr/>	
					4	5.63
	(iii)			15	15	
	var. 9	3			3	
	var. 8	7	1		8	
	var. 4	3			3	
	var. 2	1	1		2	
	var. 5	4	2		6	
	var. 3	11	2		13	
	var. 7	3			3	
					<hr/>	
					53	74.65
	(v)					
	var. 25	2			2	
	var. 26	1			1	
					<hr/>	
					3	4.23
A2					<hr/>	
					60	84.51
A3	(viii)					
	var. 31	1			1	1.41
					<hr/>	
					71	
<hr/>						
Worn					23	
Total					<hr/>	
					94	

**II, 2: Corinth/1899.**

Class	Groups	Firm figure	Best guess	Not firmly identified	Total	%
Romanus I		1			1	1.03
-----						
A1		1			1	1.03
A2	(ii)					
	var. 6	1			1	
	var. 14/22	1			1	
	var. 18	1			1	
	var. 19a		1		1	
					<u>4</u>	4.12
	(iii)			21	21	
	var. 8	16	1		17	
	var. 4	1	1		2	
	var. 2	3			3	
	var. 5/24b	14			14	
	var. 3/20	21	7		28	
	var. 1	1			1	
					<u>86</u>	88.66
	(vii)					
	var. 21	1			1	1.03
A2					<u>91</u>	93.81
A3	(viii)					
	var. 32	1			1	1.03
	(iv)					
	var. 24	2			2	2.06
	(vi)					
	var. 41	1			1	1.03
A3					<u>4</u>	4.12
-----						
Worn					11	
Total					<u>108</u>	

**II. 3: Corinth/1902.**

Class	Groups	Firm figure	Best guess	Not firmly identified	Total	%
A1		2			2	2.30
A2	(iii)			27	27	
	var. 9	3			3	
	var. 8	14			14	
	var. 4	1			1	
	var. 2	1			1	
	var. 3/20	16	7		23	
	var. 5	9	1		10	
	var. 7	3			3	
<b>A2</b>					<b>82</b>	<b>94.25</b>
A3	(iv)					
	var. 24	1			1	1.50
	(vi)					
	var. 43		1		1	
	var. 47	1			1	2.30
<b>A3</b>					<b>3</b>	<b>3.45</b>
					<b>85</b>	
<hr/>						
Worn					22	
					<b>109</b>	

**II. 4: Corinth/September 1936.**

A2	(ii)					
	var. 14or22	1			1	
	var. 48	1			1	
	var. 49	1			1	
					<b>3</b>	<b>60</b>
	(iii)					
	var. 3	2			2	40
<b>A2</b>					<b>5</b>	
Worn					3	
					<b>8</b>	

**II.5: Athens/29 March 1934.**

Class	Groups	Firm figure	Best guess	Not firmly identified	Total	%
A2	(ii)					
	var. 16a	1			1	
	var. 36	2			2	
	var. 48	1	1		2	
					<u>5</u>	<b>31.25</b>
	(iii)					
	var. 8	3	1		4	
	var. 5	4			4	
	var. 3	2			2	
					<u>10</u>	<b>62.50</b>
	(v)			1	1	<b>6.25</b>
					<u>16</u>	
Worn					1	
					<u>17</u>	

**II.6: Unknown provenance/Central Greece?**

A2	(iii)			1	1	
	var. 9	5			5	
	var. 8	15			15	
	var. 2	5			5	
	var. 5	13			13	
	var. 3/20	13			13	
	var. 7	1			1	
					<u>53</u>	<b>88.33</b>
	(v)					
	var. 25	1			1	<b>1.66</b>
	(vii)					
	var. 34	3	1		4	<b>6.66</b>
	(ix)					
	var. 51				1	<b>1.66</b>
<b>A2</b>					<u>59</u>	<b>98.33</b>

(con.)

Class Groups	Firm figure	Best guess	Not firmly identified	Total	%
A3 (iv)					
var. 24	1			1	1.66
				<u>60</u>	

**II. 7: Macvanska Nitrovica/1971.**

A2 (ii)					
var. 1	1			1	
var. 14/22	2			2	
				<u>3</u>	42.86
A3 (iv)			1	1	
var. 24	2			2	
var. 40	1			1	
				<u>4</u>	57.14
				<u>7</u>	
Worn				2	
				<u>9</u>	

**II. 8: Reka Devna**

A2 (ii)					1
(iii)					1
(v)					0.5
A3 (iv)					61
(vi)					32
(viii)					4

**II. 9: Turkey?**

Class Group	Firm figure	Best guess	Not firmly identified	Total	%
A2	(iii)		24	24	
	var. 9	2		2	
	var. 8	18		18	
	var. 4	1		1	
	var. 5	13		13	
	var. 3	30		30	
	var. 7	7		7	
				<u>95</u>	<b>95.96</b>
	(vii)				
	var. 34	4		4	<b>4.04</b>
<b>A2</b>				<u>99</u>	
Contemporary counterfeit				1	
				<u>100</u>	

**II. 10: Athens/20 April 1933**

A1		3		3	
A2	(iii)		1	1	
	var. 3/20	2		2	
<b>A2</b>				<u>3</u>	
				<u>6</u>	

**II. 11: Athens:27 February 1935.**

A1		2		2	
A2	(iii)				
	var. 8	1		1	
Worn		2		2	
				<u>5</u>	

**II.12: Athens/6 April 1936.**

Class	Group	Firm figure	Best guess	Not firmly identified	Total	%
A2	(iii)					
	var. 3/20		1		1	
	(v)					
	var. 25, 26-8	1			1	
<b>A2</b>					<u>2</u>	
A3	(iv)	1			1	
					<u>3</u>	

---

\*\*\*\*\*

**Run III:**

**III.1: Corinth/1911/12.**

Class	Groups	Firm figure	Best guess	Not firmly identified	Total	%
Leo VI		1			1	4
Romanus I		1			1	4
-----						
A3	(viii)					
	var. 32	3			3	12.00
	(iv)					
	var. 23	1	1		2	
	var. 24	1			1	
	var. 39/40	2	1		3	
					<u>6</u>	24.00
	(vi)					
	var. 41	2	3		5	
	var. 45	3	1		4	
	var. 47	4	1		5	
					<u>14</u>	56.00
					<u>25</u>	

Worn

2

\*The hoard includes 152 later issues terminating with coins of John Comnenus.

\*\*There is also a similar hoard from Corinth (see **Corinth/November 1937**) but unfortunately no detailed description of the Class A anonymous *folles* is provided.

**III.2:Corinth: St. John's area/April 1938.**

Class	Group	Firm figures	Best guess	Not firmly identified	Total	%
A3	(iv)					
	var. 39or40	1			1	
	(vi)					
	var. 47	1			1	

\* There is no detailed description of the rest of the hoard; it includes, however, later issues terminating with coins of Alexius I.

---

**III.3:Corinth/May 1936.**

A3	(iv)					
	var. 39or40	1			1	

**III.4:Corinth/February 1938**

A3	(iv)					
	var. 39or40	1			1	

\*Both hoards include also later issues; similarly no detailed description is available.

---

**III.5:Sparta hoard /1949.**

A3	(vi)					
	var. 41	1			1	
	var. 47	1			1	
					<hr/>	
					2	

\* The hoard included 19 later issues terminating with a *folles* of Nicephorus Bryennius (1077-1078).

\* 2 anonymous Class B *folles* of the hoard are struck on identifiable varieties of Class A3 :group (vi):var. 47 and 44 or 47.

---

**II. 6: Drosaton/1960.**

Class Group	Firm figure	Best guess	Not firmly identified	Total	%
Constantine VII	1			1	
-----					
A3 (iv)					
var. 24	1			1	
var. 39	1			1	
var. 40	1			1	
				<u>3</u>	<b>42.86</b>
(vi)					
var. 41	2			2	
var. 47	2			2	
				<u>4</u>	<b>57.14</b>
				<u>7</u>	
Worn				1	

\*The hoard included 25 later issues terminating with coins of John II (1118-1143).

**III. 7: Thessaloniki/1933 B.**

Theophilus	1			1	
-----					
A2 (iii)					
var. 8	1			1	
A3 (iv)					
var. 24a	1			1	
Worn				1	
				<u>3</u>	

\* The hoard included 1 anonymous *foliis* of Class K and 105 post-reformed issues of Alexius I (1081-1118); 1 specimen was totally worn.

**III. 8: Thessaloniki/1933 A.**

Class	Group	Firm figure	Best guess	Not firmly identified	Total	%
A2	(i) var. 1	1			1	

\*The hoard included 1 post-reform issue of Alexius I and 1 of Manuel I (1143-1180)

**III. 9: Markete's collection.**

Justinian I	1			1	2.63	
Basil I	1			1	2.63	
Constant. VII	2			2	5.26	
-----						
A1	1			1	2.63	
A2 (ii)						
var. 50	2			2	5.26	
(iii)			5	5		
var. 9	1			1		
var. 8	8			8		
var. 2	2			2		
var. 5	1			1		
var. 3	9			9		
				<hr/>		
				26	68.42	
(v)						
var. 25	3			3	7.90	
(vii)						
var. 13	1			1	2.63	
(iv)						
var. 1a	1			1	2.63	

\*The hoard included 14 later issues terminating with coins of Nicephorus III (1078-1081) and 1 extremely worn.

---

**III.10: Plopeni hoard.**

Class	Group	Firm figures	Best guess	Not firmly identified	Total	%
A2	(ii)					
	var.12	1			1	
	var.18	1			1	
	var.30	1			1	
					<hr/> 3	7.32
	(iii)					
	var.5	4			4	9.75
	(v)					
	var.25	1			1	2.44
<b>A2</b>					<hr/> 8	<b>19.51</b>
A3	(viii)					
	var.31	2			2	
	var.32	1			1	
					<hr/> 3	7.32
	(iv)					
	var.23	2			2	
	var.24	7			7	
	var.39	14			14	
					<hr/> 23	56.10
	(vi)					
	var.41	7			7	17.07
<b>A3</b>					<hr/> 33	<b>80.48</b>
<b>A2+A3</b>					<hr/> 41	

\* The hoard included and 44 later issues terminating with anonymous folles of class K (1085-1092).

**III.11: Nufarul/1969.**

Class Group	Firmly identified	Best guess	Not firmly identified	Total	%
A3.	Var. 35.		1	1	

\* 4 more specimens of the hoard have been published ending with one anonymous *foliis* of Class K.

\*\* Var. 35 is not *included* in any of Metcalf's groups; most probably, it belongs to the so-called Class A3.

\*\*\* There is one similar hoard from this area= Nufarul/-1966, but there is no detailed description; see D.M.Metcalf, *Coinage in South-eastern Europe...*, 74, n. 11.

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**III.12: Mardin hoard.**

A2	(ii)	34		2.85
	(iii)	188		15.77
	(v)	9		0.75
	(vii)	1		0.08
		<hr/>		
<b>A2</b>		<b>232</b>		
A3	(iv)	510		42.78
	(vi)	404		33.89
	(viii)	46		3.86
		<hr/>		
<b>A3</b>		<b>960</b>		
		<hr/>		
<b>A2+A3</b>		<b>1192</b>		

\* The hoard included and later issues.

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**Stray finds.**

**Those of Peloponnese:**

	A1	A2	A3	Total
	1	ii, iii, v,	iv, vi, viii	
<b>Sparta<sup>1</sup></b>	13	8, 49, 1	3, 5, 3,	82
<b>Argos<sup>2</sup></b>		1,		1
<b>Troizena<sup>3</sup></b>	1	1, 1, 1,		4
<b>Epidauros<sup>4</sup></b>		2,	3,	5
<b>Patras<sup>5</sup></b>	2	1,		3
<b>Elis<sup>6</sup></b>		1,		1
<b>Craneion<sup>7</sup></b>		1,	1,	2
<b>Sicyon<sup>8</sup></b>		1,		1
<b>Total</b>	16	13, 53, 2	6, 6, 3,	99
<b>%</b>	16.16	13.13, 53.53, 2.2	6.6, 6.6, 3.3	
<b>%</b>	<b>A1=16.16,</b>	<b>A2 = 68.68</b>	<b>A3 = 15.15</b>	

1. These coins are held in the Numismatic Museum of Athens and come from the old British excavations at Sparta; only the legible specimens are included in this study since the cleaning of the coins is in progress; they are going to be published very soon by Dr.M.Price of the British Museum.

2. From rescue excavations in the city of Argos by the local archaeological service.

3. Presented to the Numismatic Museum of Athens by the local archaeological service; they come from a surface survey.

4. Found during old excavations at Epidauros and were donated to the NMA by the National Archaeological Museum.

5. Two coins were given to the NMA by the Ephor of Antiquities Mastrokostas and one was found at the excavation of the basilica in Mentzena of Achaia district.

6. Donated to the local archaeological service by a nearby inhabitant.

7. Found by Prof.D.Pallas at the excavation of an early christian Basilica.

8. From the early christian Basilica excavated by the late A.Orlandos.

**Theme: Hellas:**

	A1	A2				A3			Total
	i	ii, iii,	v,	vii,	iv, vi,	viii			
<b>Thebes<sup>1</sup></b>	1	1, 7	.					9	
<b>Amfissa<sup>2</sup></b>	1	4, 4	.	1	.	1, 2		13	
<b>Delphi<sup>3</sup></b>		1	.	1,				2	
<b>Euboiā<sup>5</sup></b>		1,						1	
<b>Skyros<sup>6</sup></b>		1,						1	
<b>Pelasgia<sup>7</sup></b>					1			1	
<b>N. Anchialos<sup>8</sup></b>		1,						2	
<b>Total</b>	3	5, 15,	1,	1,	1, 1,	2		29	
<b>%</b>	<b>10.34</b>	<b>- 17.24,</b>	<b>51.72,</b>	<b>3.44,</b>	<b>3.44,</b>	<b>3.44,</b>	<b>3.44,</b>	<b>6.90</b>	
	<b>A1=10.34,</b>	<b>A2= 75.86</b>				<b>A3=13.80</b>			

1. Either from rescue excavation in the city or gifts by locals.
2. Collected in Amfissa by Kravartogianos; see Δ.Κραβαρτόγιαννος Κατάλογος Βυζαντινῶν νομισμάτων (491-1203 μ.Χ) μεμονωμένων εὑρημάτων Ἀμφίσης, Τετράμηνα, 2, 1974, 209-32.
3. Acquisitions of the local Archaeological Museum, most probably found during excavations.
4. Gift to the local archaeological service.
5. Found in Cyme.
6. Found in the castle of the island.
7. From the numismatic collection of the local archaeological service at Lamia.
8. The one specimen of class A2 was found during the excavations of 1978; the class A1 *folles* is from the excavations of 1920; both are held to the small numismatic collection of the local museum.

**Themes: Nicopolis & Dyrrhachium:**

	A1	A2	A3	Total
		ii	iv	
<b>Arta</b> <sup>1</sup>		1		1
<b>Ithaca</b> <sup>2</sup>		1		1
<b>Nyticas</b> <sup>3</sup>		1		1
<b>Kephalos</b> <sup>4</sup>	1	1	1	3
<b>Dyrrhachium</b> <sup>5</sup>			1	1
<b>Total</b>	1	4	2	7
	<b>14.29</b>	<b>57.14</b>	<b>28.57</b>	

1. Found during a rescue excavation (Bacagiannis' plot).
  2. From a place called Stauros.
  3. Presented to the NMA by prof.P.Vokotopoulos; it was found in 1972 during excavation.
  4. Kephalos is a small island in the Ambracian Gulf, NW of Vonitsa; an excavation was undertaken there in late 60s by the late C.Barla.
  5. See H.Spahiu, "Monnaies byzantines des Ve-XIIIe siècles decouvertes sur la territoire de l' Albanie", *Iliria*, 9-10, 1979-80, 390, no. 287; about forty specimens of Class A anonymous *folles* are published in this article but unfortunately no detailed description is given.
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**Themes: Thessaloniki - Strymon - Macedonia:**

	A1	A2				A3			Total
	i,	ii,	iii,	v,	vii	iv,	vi,	viii	
<b>Thessaloniki<sup>1</sup></b>	3,	1,	1,	.	1				6
<b>Edessa<sup>2</sup></b>		.	2,						2
<b>Berrhoia<sup>3</sup></b>	1,								1
<b>Pella<sup>4</sup></b>						1,			1
<b>Rentina<sup>5</sup></b>	3,	2,	2,	1,		1,	1,		7
<b>Kavala<sup>6</sup></b>							1,		1
<b>Anaktoroupolis<sup>7</sup></b>						1,			1
<b>Philippi<sup>8</sup></b>						1,			1
<b>Thasos<sup>9</sup></b>	1,	1,				2,	3,		7
<b>Siderocastro<sup>10</sup></b>			1,						1
<b>Naronia<sup>11</sup></b>			1,						1
<b>Abdera<sup>12</sup></b>								1	1
<b>Comotene<sup>13</sup></b>					1,				1
<b>Adrianoupolis<sup>14</sup></b>						1,			1
<b>Total</b>	8,	4,	7,	1,	2,	7,	5,	1	34
<b>%</b>	22.86 - 11.43, 20.00, 2.85, 5.71 -					20.00, 14.29, 2.85			
	<b>A1= 22.86 -</b>		<b>A2=40.00</b>			<b>- A3=37.14</b>			

1. 1 specimen was found during an excavation in Rotunda; the other 5 specimens are held in the Archaeological Museum of Thessaloniki and apparently are stray-finds from excavations in the city.
2. They belong to the small numismatic collection of the local archaeological service.
3. Found in the town during a rescue excavation.
4. From the archaeological site.
5. The coins are kept in the numismatic collection of the Byzantine Ephorate of Thessaloniki in the Rotunda; they come from the excavation in the Byzantine fortress of Rentina, undertaken by Prof. N.Moutsopoulos, during the years 1979-1988; 14 more specimens of Class A2 *folles* were found but varieties are not legible.

6. In the small numismatic collection of the Byzantine Ephorate of Kavala; it was found in the excavation of St. Nicholas' church.
7. 1978 from a surface research.
8. Found outside of the archaeological site in a place called Seliani.
9. Stray-finds from systematic excavations on Thasos by the Byzantine Ephor Dr. Ch. Bacirtzis.
10. 1981 from a surface research.
11. From systematic excavations in Maroneia.
12. Found during the excavation of the cemetery- basilica in 1982.
13. From a village near by Comotene; Comotene is only 8km east of the Byzantine city of Maximianoupolis, the capital of the later theme of Voleron.
14. In a collection made entirely from Adrianople . . . . . donated to the NMA, in the beginning of our century.

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**Constantinople: Excavation at Sarachane (St. Polyeuctus)<sup>1</sup>.**

i	4	% 26.67
ii	1	6.67
iii	7	46.67
iv	1	6.67
v		
vi	2	13.33
vii		
viii		
ix		
Total	15	

1. The excavation had yielded a total of 21 specimens of Class A2 *folles*: 6 were illegible; 3 were described as new varieties of which 2 could be derived from the varieties of Metcalf's group iii. Unfortunately they are not illustrated to check the style of the reverse inscription ; one specimen might be a contemporary forgery.

**Themes: Thracasian & Aegean Sea.**

	A1		A2			A3			Total
	i.	ii.	iii.	v.	vii.	iv.	vi.	viii	
<b>Lennos<sup>1</sup></b>		1	1				1		3
<b>Chios<sup>2</sup></b>		1	1				1		3
<b>Coastlands<sup>3</sup></b>	10	8		1		1	1		21
<b>Sardis<sup>4</sup></b>	2	20		6			2	1	31
<b>Total</b>	14	30		7		1	5	1	58
<b>%</b>	<b>24.14, 51.72, 12.07</b>			<b>1.72, 8.62, 1.72</b>					
	<b>A2 = 87.93</b>			<b>A3 = 12.07</b>					

1. Gifts to the local Archaeological Museum by inhabitants of the island.
2. Kept in the small numismatic collection of the Byzantine Ephorate of the island; they come from rescue excavations.
3. In the Stavrides' collection from Samos; they have been entirely bought in the coastland cities of Asia Minor.
- 4 H.W.Bell, *Sardis*, vol.XI. *Coins*. Part 1, 1910-14, Leiden,1916, 97-8 and G.E.Bates, *Byzantine Coins*, Archaeological Expedition of Sardis, Monograph I, Cambridge Mass., 1971,128-30.

**The Balkans**

**Serbia:**

	A2			A3		Total
	ii.	iii.	ix	iv.	vi	
<b>Sirmium<sup>1</sup></b>	2	1		21	3	27
<b>Beograd<sup>2</sup></b>	1	3		4	1	9
<b>Viminacium<sup>3</sup></b>	1	10	1	10	1	23
<b>Total</b>	4	14	1	35	5	59
<b>%</b>	<b>6.78, 23.72, 1.69</b>			<b>59.32, 8.47</b>		
	<b>A2 = 32.20</b>			<b>A3 = 67.80</b>		

1. See V.Popovic, Catalogues des monnaies byzantines du Musée de Srem, *Sirmium*, 8, 1978, 186-8; for five of the group iv specimens

listed in this study see D.Metcalf, The currency of Byzantine coins in Syrmia and Slavonia, *HEB*, 14, 1960, 434, nos. 12-16; three specimens are from Srpska Mitrovica hoard/1903, see *loc. cit.*, 438.

2. From the excavations on the Belgrade fortress; see V. Ivanisevic, "Bizantinski novats sa Beogradske tvrbove", *Numismaticar*, 10, 1987, 101-2.

3. The coins are kept in the National Museum in Pozarevac, and they come mainly from the ancient town of Viminacium (=Stari Kostolac); see V. Ivanisevic, "Vizantinski novats (491-1092) iz zbirke narodnog muzea u Pozharevtsu I.", *Numismaticar*, 11, 1988, 95-6.

**North Dobrogea:**

	A1	A2				A3		Total	
	i -	ii,	iii,	v,	vii,	ix,	iv,	vi	
<b>Tulcea<sup>1</sup></b>		6,	2,	1,		2,	9,	7	27
<b>Isaccea<sup>2</sup></b>				1,	1,		7,	1	10
<b>Dinogetia<sup>3</sup></b>							1,		1
<b>Macin<sup>4</sup></b>							1,		1
<b>Troesmis<sup>5</sup></b>							1,		1
<b>Niculitel<sup>6</sup></b>		1,					1,		2
<b>Babadag<sup>7</sup></b>		1,		1,			1,		3
<b>Valea Nucarilor<sup>8</sup></b>							1,		1
<b>Mufarul<sup>9</sup></b>			1,						1
<b>Vasile Alecsandri<sup>10</sup></b>							1,		1
<b>Kogalniceanu<sup>11</sup></b>							1,		1
<b>Private collections<sup>12</sup></b>	1,	2,					1,		4
<b>Total</b>	1 -	10	3	3,	1,	2,	25	8	53
<b>%</b>	1.88	-18.87,	5.66,	5.66,	1.88,	3.77	47.17,	15.10	
	<b>A1= 1.88</b>	-	<b>A2 =33.96</b>				<b>A3 = 62.26</b>		

1. 21 specimens are from the numismatic collection of the Museum of Tulcea: see Al. Popeea, V.H. Baumann, "Monede bizantine anonime si skifate in Colectia Muzeului din Tulcea", *Peuce*, 6, 1977, 207-17; 1 of group (ii) is published in E. Oberländer-Tarnoveanu, C. Opait,

- "Cronica descoperirilor monetare din Nordul Dobrogei (II)". *Feuce*, 9, 1984, 267-79 and 5 of group vi are recorded in I. Vasiliu, Gh. Manucu - Adamesteanu, "Consideratii finale a supra locuirii feudale-timpurii (sec.X-XI) de la Aegyssus-Tulcea, *Feuce*, 9, 1984, 149-50.
2. From the Cocosu monastery collection; see A.Popeea, Monede bizantine din Nordul Dobrogei, *Feuce*, 4, 1973-5, 175-96. 1 specimen of group vii and 3 of group iv are stray-finds published by E.Oberländer-Tarnoveanu, C.Opait, *op. cit.*
  3. E.Oberländer-Tarnoveanu, Cronica descoperirilor monetare din Nordul Dobrogei, *Feuce*, 8, 1980, 499-513.
  4. See in E.Oberländer-Tarnoveanu, C.Opait, *op. cit.*
  5. E.Oberländer-Tarnoveanu, Monete antice si bizantine descoperite la Troesmis, *Feuce*, 8, 1980, 248-279.
  6. See in E.Oberländer-Tarnoveanu, C.Opait, *op. cit.*; the specimen of group ii comes from the collection of the Cocosu monastery and it is published in A.Popeea, "Monede bizantine din Nordul Dobrogei...".
  7. They belong to the numismatic collection of the Tulcea Museum; see A.Popeea, V.H.Baumann, *op. cit.*, 208, nos. 12, 16, 20.
  8. It also belongs to the collection of the Tulcea Museum; *ibidem*, 207, no. 8.
  - 9-10. See E.Oberländer-Tarnoveanu, "Cronica descoperirilor monetare..." 510.
  11. R.Ocheseanu, C.Papuc, " Monede grecesti, romane si bizantine descoperite in Dobrogea (III), *Fontica*, 1, 1974, 412.
  12. The specimen of Class A1 comes from the collection of C.Sturdza: see C.Poenaru Bordea, Monede bizantine din Dobrogea Provenite dint-o mica colectie, *SCN*, 4, 405-8; there is not precise reference but it has been described as double- struck and of a small module. For the one specimen of group ii see in E.Oberländer-Tarnoveanu, C.Opait, *op. cit.*; it is now held in the Museum "Delta Dunarii" of Tulcea. For the second specimen of the same group see E.Oberländer, Cronica descoperirilor..., 510 ( Col.Prof.Gh.Bunduc). The specimen of group iv, now in the Museum "Delta Dunarii", belonged to the collection of D.Marian; see E.Oberländer-Tarnoveanu, " Monede antice si bizantine descoperite...".

**Central and South Dobrogea.**

	A1		A2		A3			Total
	i.	ii.	iii.	v	iv.	vi.	viii	
<b>Capidava<sup>1</sup></b>	1.	2.	3.		6.	2.	1	15
<b>Histria<sup>2</sup></b>					1.			1
<b>Axiopolis<sup>3</sup></b>					1.			1
<b>Constanta<sup>4</sup></b>					1.			1
<b>Pacui lui Soare<sup>5</sup></b>		3.	6.	1	14.	5.		29
<b>Hedgidia<sup>6</sup></b>		1.						1
<b>Total</b>	1.	6.	9.	1	23.	7.	1	48
<b>%</b>	<b>2.08,</b>	<b>12.5,</b>	<b>18.75,</b>	<b>2.08</b>	<b>47.93,</b>	<b>14.58,</b>	<b>2.08</b>	
	<b>A1 = 2.08-</b>	<b>A2 = 33.33</b>	<b>-</b>	<b>A3 = 64.58</b>				

1. Fourteen specimens have been published by P.Diaconu in G.Florescu, R.Florescu, P.Diaconu, *Capidava*, Monografie Archeologica, vol.I, Bucharest 1958,233-4; see also for a more detailed description D.M.Metcalf, *Coinage in South-eastern...*,61. One further specimen has been recorded in Z.Covacef, "Raport preliminar a supra cercetarilor arheologice din sectorul V al cetatii Capidava, (campaniile din anii 1975-9)", *Fontica*, 13,1980.

2.H.Nubar, "Monede bizantine descoperite in satul Istria", *SCIV*, 17,1966,605-7; it has been published as A-1 according to Thompson's scheme but it might belong to Class A3 (=intermediate size).

3.G.Poenaru Bordea, R.Ocheseanu, E.Nicolae, " Axiopolis aux IIIe-VIIe siècles de n.è. à la lumière des découvertes monétaires", *SCN*,9,1989,73 [Annexe II].

4.D.M.Metcalf, *Coinage in South-eastern...*,62 and esp.n.22.

5.B.Mitrea, Monete antice si bizantine descoperite la Pacuiul lui Soare in P.Diaconu, D.Vilceanu, *Pacuiul lui Soare. Cetatea Bizantina*, vol.1, Bucharest,1972; see for a more detailed description Metcalf, *op.cit.*,61.

6.E. Oberländer-Tarnoveanu, C.Opait, " Cronica descoperirilor monetare...",2677-79.

**Wallachia**

	A1	A2	A3	Total
	i	iii, v	iv	
<b>Pitesti<sup>1</sup></b>		1	1	2
<b>Stolnici<sup>2</sup></b>			1	1
<b>Oltenia<sup>3</sup></b>		1		1
<b>Calarasi<sup>4</sup></b>		1		1
<b>Total</b>		2, 1	2	5
<b>%</b>		<b>40, 20</b>	<b>40</b>	
		<b>A2 = 60</b>	<b>A3=40</b>	

1,2. C.Poenaru Bordea si P.Dicu, " Monede romanetiraii si bizantine (secolele IV-XI) descoperite pe teritoriul judetului Arges, *SCN*,9,1989, 80; the one specimen from Stolnici belongs to Grierson's variety 1a which is apparently related with var. 24(= intermediate seize, same tall and dense reverse lettering, same ornamentation, ).

3.C.Poenaru, C.Voicu, Citeva monede bizantine descoperite in Oltenia, *SCIVA*,26,1975,153-5 ( the coin comes from Ghindeni in the destrict of Dolj; it might be of var.27).

4.D.M.Metcalf, *Coinage in South-eastern...*62 and esp.n.22.

**Holdavia<sup>1</sup>**

**Pascani** : 1 specimen of var. 8 (group iii) was included in a small hoard containing 3 more anonymous *folles* of Classes B,C, and G.

**Nicolae Balcescu**: 1 specimen of group (iv)

1.V.Spinei, "Monede bizantine din spatiul est-carpatic", *SCN*,8,1984,77-83.

**Class A2: Provisional classification of the varieties.**

**A2**

(ii): (1, 50, 6, 11), ([14, 22, 14a], [15, 15a]-[16, 16a]-18-19-19a, 30, 33a, 36, 42b), ([48, 49, {9}])<sup>1</sup>

On the grounds of their reverse ornament, varieties 15-19a, 30, 36, 33a, 42b may belong together. They show a similar ornament consisted by two horizontal bars between which a letter, either Greek or Latin, is added. Varieties with a dot between the letter and the bar might be considered as variations of the normal types and not as independent series. There are close similarities among the reverses of all the above varieties. This grouping, finds useful support in hoards II,2, II,5 and III,10.

Varieties 14 and 22 iconographically fit into group (vi) but their weight, size, and general execution entirely rule out the association. Moreover, their reverse lettering is very much reminiscent of group (v), which as we shall see might be incorporated into group (ii). Their appearance with group (v) in hoard II,1 and with varieties 48 and 49 in the small hoard II,4 supports the arrangement. Variety 14a with a dot inside the diamond-shaped ornament probably is a meaningless alteration due to a die-sinker's device.

The repetition of a similar reverse ornament some years later is difficult to understand in terms of mint-organisation. In the case of the varieties 14 and 22, the diamond-shaped ornament could be a misunderstanding of the ornament on varieties 15 and 15a.

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1. { } = new attribution to the groups. [ ] = varieties not substantive. ( ) = a closer date could be defined.

A risky alternative, namely that this repetition defines the beginning of a new coinage needs more evidence. If so, varieties 29, 29/41 and 42 of group (vi) could be attributed to Constantine VIII (1025-8), while varieties 14 and 22 to the beginning of Basil II's reign.

Varieties 48, 49 and 9, formerly attributed to group (ii)(?), might be counted as a single series. Similarities between them and variety 8 of group (iii) imply that they represent together with the three varieties of group (v) the last phase of group (ii). They appear more common than the other varieties of the group under discussion; they probably belong to the period after the domestic rivalries (989-992).

The rest of the varieties 1, 11, 6, 50, are very close in the style of both their obverses and reverses to the other varieties of group (ii). Their reverse ornaments, however, suggest their separate grouping. Some of these specimens are of an extremely elaborate style.

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(iii): 8, 4, 2, 3, 5, 5/24b, 3/20, 7, 6a.

Varieties 2 and 4 are very scarce and there is very little evidence for them. Their proportions either in stray finds or in hoards are curiously very low. The appearance of variety 4 in hoard I, 15, which might have been deposited a couple of years earlier than I, 1, might suggest that it preceded variety 2<sup>1</sup>.

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1. The hoard appears to have been buried during the Bulgarian threat against Thessaloniki in 995; the Byzantine population took refuge on the coast. The deposit of the hoard I, 1 could be similarly connected with the Bulgarian incursions to Hellas in 997.

In hoards II.2-II.3-II.6 specimens of variety 20 show a very similar reverse lettering to variety 3. Much more evidence will be needed to discover how varieties 20 and 24b stand in relation to varieties 3 and 5, in terms of mint-organisation. The slightly different reverse lettering of variety 24b suggests, however, that it probably was a separate issue. The relation of variety 3 to 3/20 seems similar.

Finally the execution of the four-dotted ornament of variety 8 is sometimes very reminiscent of that on varieties 48,49 and 9 of group (ii) concerning the size of the dots. Specimens, however, with four small dots are closer in style to group (iii). Variety 8 would be the earliest of group (iii).

The evidence for varieties 7 and 6a is extremely patchy. Both appear very rare. A late date in the sequence of group (iii) might be possible.

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(v):var. 25,26-8.

The reverse ornamentation, the weight-standard of the group averaging about 15g., the size and strong reverse affinities with varieties 48 and 49 suggest that it might be considered as part of group (ii). The hoard evidence, however, is too scanty to support this classification.

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(vii):34.(21).(12).

The reverse ornament of variety 34 appears also on varieties 12 and 21 in a more elaborate style. Some small sized specimens of 34 bear undotted asterisks and are more in the style of group (iii) to which it is also related by its weight-standard averaging about 13g. Nevertheless the eight specimens included in hoards II,6 and II,9 have an average weight of about 16.36g. A similar inconsistency in fabric and weight also occurs on varieties 12 and 21, formerly attributed to group (ii).

The above features indicate that group (vii), as well as group (viii) and some early varieties of (iv), could be considered transitional between Class A2 and A3 although more evidence is needed. The appearance of group (vii) in hoard II,9, could be indicative for this scheme.

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(ix):51.

This yields even more difficulties and the related hoard information is extremely limited, while we know almost nothing of its metrology. The one specimen of the hoard II,6 weights about 12.96g, and an illustrated example from Athenian stray-finds displays a small lettering very reminiscent of variety 5. It could be considered the link between group (vii) and (viii). The cross-arms on Christ's nimbus is a distinctive feature of both groups (vii) and (ix).

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**Class A3:**

(viii):var. 31-32-32a?

On the reverse of var. 32a the cross of var. 32 has been replaced by a lily between bars, similar to the reverse ornament of var. 45 (group vi). The two illustrated specimens of varieties 32 and 32a in DOC, show, however, close reverse affinities. More evidence is needed.

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(iv):var. {23}-[1a-14b-24-33-42a][ -39-40-40a-40b-24a]

On the grounds of stylistic similarities among the varieties of group (iv), the concurrent use of both reverse ornaments seems possible. The available hoard evidence, however, points at a different chronological sequence.

The early varieties 39 or 40 of group (iv) show a fluctuation in their weight-standard rising from 15g. to 9g. Coins of the "intermediate" size of this group, however, are uniform in style with a characteristic tall and rectangular reverse lettering.

Of the new varieties with the same floral reverse ornament, 40b and 24a are usually of the intermediate size.

There is some indication from hoard III,1 that variety 23 formerly attributed to group (ii) could actually belong here<sup>1</sup>. More evidence for the reverse lettering of the variety is needed.

Varieties 24 and 33 seem more homogenous than 39 or 40 and more related in style and general appearance to group (vi).

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1. Group (iii) is totally absent from the hoard; two *folles* of early Macedonian emperors have been, however, survived: it is not certain that they belong to the hoard: this is the opinion of Dr. M. Oeconomides.

(vi):[var. 29, 29/41|42?, 43, 45, 47

The evidence for the chronological sequence of these varieties is still extremely scanty. The attribution of varieties 29, 29/41 and 42 to Constantine VIII's reign is possible but more evidence is needed.

The appearance of the diamond-shaped ornament on varieties 29, 29/41, which occurs also on group (ii), is difficult to understand in terms of mint-organisation. A risky theory that it could indicate a change of reign needs evidence.

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**5. Stinanga/1955.**

c. 944

66AE

Romanus I

*Disposition:* Corinth (American excavations)

*BCH*, 80, 1956, 256.

**6. Malthi (Dorion).**

c. 944

1AR + 139AE

Romanus I

*Disposition:* ?

L. Valmin, "The Byzantine coin deposit", in *The Swedish Messenia Expedition*, Lund, 1938, 414.

**7. Corinth/1934. (West shops)**

c. 945

22AE

Romanus I: 21

Constantine VII: 1

*Disposition:* Corinth (American Excavations).

D. M. Metcalf, *Hesperia*, 42, 1973, 185.

**8. Argos/1983. ( In a water drain).**

945/6

65AE

Constantine VII: 44

Constantine VII & Romanus II: 9.

*Disposition:* Athens Numismatic Museum (temporarily).

To be published by V. Pennas.

**9. Corinth/? (St. John's monastery)**

931 - 944

4AE

Leo VI : 1

Romanus I : 3

*Disposition:* Corinth (American excavations).

D. M. Metcalf, *Hesperia*, 42, 1973, 185.

**10. Corinth/ October 1936.** (South Stoa).

993-1015                      54 AE

Anonymous *folles*: Class A2.

*Disposition*: Corinth (American Excavations).

J. M. Harris, *Hesperia*, 10, 1941, 143-62.

D. M. Metcalf, *BSA*, 60, 1965, 17.

**11. Corinth/22 May 1936** (In a vaulted grave)

c. 997                      12AE

Anonymous *folles*: Class A2.

*Disposition*: Corinth (American excavations).

D. M. Metcalf, *NC* 7, 10, 1970, 209.

**12. Corinth/ November 1936.** (Agora: in a bothros)

993-1015                      2 AE

Anonymous *folles*: Class A2.

*Disposition*: Corinth (American excavations)

D. M. Metcalf, *NC* 7, 10, 1970, 209.

**13. Corinth/February 1938(a).** (Agora: cached in a wall)

993-1015                      3AE

Anonymous *folles*: Class A2.

*Disposition*: Corinth (American excavations).

D. M. Metcalf, *NC* 7, 10, 1970, 209.

**14. Corinth/February 1938(b).** (South Stoa: stuck together).

993-1015                      3AE

Anonymous *folles*: Class A2.

*Disposition*: Corinth (American excavations)

D. M. Metcalf, *NC* 7, 10, 1970, 209.

**15. Corinth/September 1936.** (Agora: in a tomb).

c. 997                      8AE

Anonymous *folles*: Class A2:8

*Disposition*: Corinth (American excavations).

D. M. Metcalf, *NC* 7, 10, 1970, 209.

**16. Corinth/1898.**

c. 1019.                      94AE  
Leo VI: 1                    {DOC.C1.3}  
Constantine VII:3 {DOC.C1.5}  
Nicephorus II:2            {DOC.C1.1}  
Anonymous *folles*: Class A1: 4.  
                              Class A2:60.  
                              Class A3: 1.  
                              Worn:23

*Disposition*: Athens Numismatic Museum (Inv.no.1901/2 K'): From the American excavations.

**17. Corinth/1899.**

1025-1029                      108AE (?)  
Romanus I :1.  
Anonymous *folles*: Class A1: 1.  
                              Class A2:91.  
                              Class A3: 4.  
                              Worn        :11.

*Disposition*: Athens Numismatic Museum (Inv.no.1901/2/ΑΔ'/B/δ): from the American excavations.

The precise number of specimens is not certain; Svoronos writes in the *inventory* book of the Museum: "168 Byzantine bronze coins, the most part of which are of John Zimisces, from one find..." I took into account only 108 specimens, although there were about 10 more *folles* of Class A, all of Metcalf's group (iii), among the 60 specimens of this acquisition. These have not included because they were not stored in fixed order and occurred together with earlier and later issues.

**18. Corinth/1902.**

c. 1029. -109AE

Anonymous *folles*: Class A1: 2.

Class A2: 82.

Class A3: 3

Worn : 22.

*Disposition*: Athens Numismatic Museum (Inv.no 1901/2/ΑΔ 'Γ/γ'): from the American excavations. Svoronos describes: "...124 Byzantine bronze coins, of which 96 of John Zimisces from one find..." The specimens, however, of Class A from this acquisition are total 109 and there is no separate indication for those which originally constituted the hoard. Besides, the chemical cleaning of the coins does not permit to be distinguished on the basis of their patina.

**19. Corinth/13 May 1938. (St. John's area).**

1042-1050 ?AE

Anonymous *folles*: Class C.

*Disposition*: Corinth (American excavations).

D.M. Metcalf, *Coinage in South-eastern Europe...*, 73 and esp.n. 5.

**20. Corinth/ 30 April 1929**

1050-1060 74 AE

Anonymous *folles*: Class D.

*Disposition*: Athens Numismatic Museum

K. Edwards, *Corinth*, 12, 140, Pl. X.

S. Mosser, 20.

**21. Argos/1910.**

1065-1070 6AE

Anonymous *folles*: Class G.

*Disposition*: Athens Numisamtic Museum.

J. Svoronos, K. Konstantopoulos, *JIAN*, 1913, 48.

**22. Sparta/1949.**

±1081                      19AE  
Anonymous *folles*: Class A3: 2  
                            Class B : 8  
                            Class C : 1  
                            Class D : 2  
Constantine X: 1 {*DOC.C1.2*}  
Anonymous *folles*: Class G : 1  
Nicephorus III:1  
Nicephorus Bruennius:1  
Anonymous *folles*: Class J :  
                            Class K :1

*Disposition*: Athens Numismatic Museum (?)  
J. M. Cook, R. V. Nicholls, *BSA*, 45, 1950, 294-5.  
P. Grierson, *NC*<sup>6</sup>, 10, 1950, 307.

**23. Corinth/1959.**

c. 1092                      161AE  
Anonymous *folles*: Class F:1  
                            Class H:5  
                            Class I:4  
Nicephorus III:124  
Anonymous *folles*: Class J:3  
                            Class K:22

*Disposition*: Athens Numismatic Museum. It was found by a villager  
in ancient Corinth.  
*BCH*, 1960, 498

**24. Corinth/1925-30.              (Theater).**

end of the 11th cent.              7AE  
Anonymous *folles*: Class H:1  
                            Class I:2  
Nicephorus III :2  
Alexius I              :2 (*tetartera*)

*Disposition*: Corinth (American excavations).  
J. D. MacIsaac, *Hesperia*, 56, 1987, 159.

**25. Corinth/April 1938.** (St. John's area).

end of the II th cent.                   ?AE

Anonymous *folles*: Class A3:2

Alexius I: ?

*Disposition*:Corinth (American excavations).

D. M. Metcalf, *MC* 7, 10, 1970, 208.

**26. Corinth/May 1936.** (Agora).

end of the 11th cent.                   ?AE

Anonymous *folles*:Class A3:1

Alexius: ?

*Disposition*:Corinth (American excavations).

D. M. Metcalf, *MC* 7, 10, 1970, 208.

**27. Corinth/February 1938.** (Agora).

Similar to the previous.

**28. Corinth/22 February 1922.** (Agora Southwest).

1092-1118                               87AE

Leo VI:1{*DOC* Cl. 3}

Anonymous *folles*: Class E:1

Nicephorus III :11

Anonymous *folles*:Class K:14

Alexius I           :60

*Disposition*:Corinth (American excavations)

K. M. Edwards, *Hesperia*, 6, 1937, 250.

S. Mosser, 22.

**29. Corinth/16 April 1938.** (St. John's area).

1092-1118                               17AE

Basil I :1

Alexius I: 16 (*tetartera*).

*Disposition*:Corinth (American excavations)

D. M. Metcalf, *Hesperia*, 42, 1973, 185.

**30. Corinth/16 May 1936.** (South Stoa)

1092-1118

?AE

Anonymous folles: Class F: ?

Alexius I: ?

*Disposition:* Corinth (American excavations).

D.M. Metcalf, *Coinage in South-eastern Europe...*, 73 and esp. n. 7.

**31. Corinth/1911/12.**

c. 1143

177AE

Leo VI: 1 {DOC, Cl. 3}

Romanus I: 1 {DOC, Cl. 4}

Anonymous *folles*: Class A2: 2

Class A3: 21

Class B : 79

Class C : 3

Class D : 15

Constantine X: 7 {DOC, Cl. 1}

Anonymous *folles*: Class E : 2

Class G : 15

Class H : 6

Class I : 2

Nicephorus III: 5

Anonymous *folles*: Class J : 1

Class K : 2

Alexius I: 3 (pre-reform)

John II : 3 (*tetartera*)

Worn : 7

*Disposition:* Athens Numismatic Museum (Inv. no. 1911/12, N/B.a): from the American excavations.

**32. Corinth/1982.** (East of the Theater).

c. 1144

11AE.

Anonymous *folles*: Class F: 3

Class H: 1

Class K: 1

Alexius I: 5 (*tetartera*).

Manuel I : 1 (*tetarteron*).

*Disposition:* Corinth (American excavations).

C.K. Williams II, O. Zervos, *Hesperia*, 52, 1983, 34, 43-4.

**33. Corinth/ November 1937.** (South central area of the Agora).

c. 1147

85AE

Basil I : 1 {*DOC* Cl. 3 or 4}

Leon VI : 1 {*DOC* Cl. 3}

Romanus I:1 {*DOC* Cl. 4}

Anonymous *folles*: Class A2 :7

Class B :8

Class C :3

Class D :2

Class F :1

Constantine X :6 {*DOC* Cl. 2}

Anonymous *folles*: Class G :9

Class H :1

Nicephorus III:2

Anonymous *folles*: Class J :5

Class K :4

Alexius I: 5 (*tetartera*).

John II :12 ( " ).

Manuel I : 7 ( " ).

Disposition: Corinth. (American excavations).

J. M. Harris, *Hesperia*, 10, 1941, 146.

D. M. Metcalf, *NC* 7, 4, 1964, 253.

**34. Sparta/1924 or 1925.**

1143-1180

60AE

No detailed description exists: the hoard ranges from Leo VI to Manuel I.

*Disposition*: Athens Numismatic Museum (?).

A. M. Woodward, *BSA*, 26, 1924-5, 157.

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**Theme of Hellas.**

Gold hoards.

**35. Liopesi hoard/±1946.**

c. 741		51AU
Constantine IV	:1	( <i>tremissis</i> )
Justinian I (first reign)	:3	
Leontius II	:2	
Tiberius III	:3	
Justinian II (second reign)	:9	
		1 ( <i>semissis</i> )
Philippicus	:3	
Anastasius II	:6	
		1 ( <i>semissis</i> )
Theodosius III	:1	
Leo III	:7	
		1 ( <i>semissis</i> )
Leo III & Constantine V	:14	

*Disposition:* Dumbarton Oaks Collection.

S. Vryonis, "An Attic hoard of Byzantine gold coins (668-741) from the Thomas Whittemore Collection and the numismatic evidence for the urban history of Byzantium", *Melanges G. Ostrogorsky*, I, Belgrade 1963, 291-300.

**36. Chalcis/1851.**

1143-1181		13AU
Constantine X	:12	
Manuel I	: 1	

*Disposition:* Athens Numismatic Museum (only two) [Λογοδοσία πρυτάνεων 1858-9, 99]

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Copper hoards.

**37. Athens/29 March 1934 (Agora: section B).**

c. 997		17AE
Anonymous <i>folles</i> : Class A2	:17	

*Disposition:* Athens (American excavations).

D. M. Metcalf, *BSA*, 60, 1965, 9.

**38. Athens/6 March 1933.** (Agora: section H).

1042-1050                      ?AE

Anonymous *folles*: Class C

*Disposition*: Athens (American excavations).

D.M. Metcalf, *Coinage in South-eastern Europe...*, 73 and esp. n. 5.

**39. Tanagra/Liatani/1924.**                      (In a field)

1050-1060                      25AE

Anonymous *folles*: Class D.

*Disposition*: Athens Numismatic Museum.

*BCH*, 1924, 451

*RN*, 1926, 107

Mosser, 86.

**40. Athens/1956**                      (At the foot of Acropolis).

c. 1081                      20AE

Nicephorus III

*Disposition*: Athens Numismatic Museum.

*BCH*, 1957, 498.

**41. Athens/Penteli/1949.**                      (In Zygouras' plot).

c. 1081                      5AE

Nicephorus III

*Disposition*: Athens Numismatic Museum.

*BCH*, 1950, 293.

**42. Chalcis/1956(?)**                      (Marketes' private collection).

c. 1092                      53AE

Justinian I                      :1

Basil I                      :1

Constantine VII:2

Anonymous *folles*: Class A1:1

Class A2:31

Class A3:1

Class B :5

Class C :1

Class D :1

Class E :1

Constantine X : 1  
Anonymous *folles* :Class I :1  
Nicephorus III :2  
Anonymous *folles*: Class K :1  
Worn :1.  
*Disposition*:Athens Numismatic Museum.  
Unpublished.

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### **Theme of Nikopolis.**

#### Gold hoards

#### **43. Kastoria/1945.**

1143-1181 9AU  
Romanus IV:2  
John II :2  
Manuel I :5  
*Disposition*:Athens Numismatic Museum.  
*BCH*, 71-72, 1947-8, 393.  
I.Τουράτσογλου, *AE*, 1974, 99-100.

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#### Copper hoards.

**44. Kato Basilica Aetolias/1988** (In a tomb)  
997 11AE  
Anonymous *folles*: Class A2  
*Disposition*: Giannena  
P. Paliouras, *Tó Έργον* 1988, 48, 50.

**45. Drosaton Eupaliou/1960** (In a field)

1118-1143 34AE

Constantine VII:1

Anonymous *folles*: Class A3:8

Class B :6

Class D :1

Romanus IV :1

Anonymous *folles*: Class H :2

Class I :2

Nicephorus III :3

Anonymous *folles*: Class K :4

Alexius I :5 (*tetartera*)

John II :1 (*tetartero*)

*Disposition*: Athens Numismatic Museum.

*BCH*, 86, 1962, 425.

I.Τουράτσογλου, Η.Τσούρτη, Μ.Κρίκου-Γαλάνη, "Ο Θησαυρός "Κομοτηνής" 1979(:)", 397.

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**Theme of Thessaloniki.**

Gold hoards.

**50. Chryse/Edhessa/1935.** (In the courtyard of Ieropoulos'house)

c. 965/6 19AU

Constantine VII and Romanus II:16

Nicephorus II and Basil I : 3

*Disposition*: Athens Numismatic Museum.

*BCH*, 1936, 454.

Μ. Οικονομίδου, "Θησαυρός" χρυσών νομισμάτων από τη Χρυσή Έδεσσα (10ος αιώνας) (forthcoming in the honorary volume of Manolis Chatzidakis); the author dates the deposit of the hoard in 971, when the Bulgarian bishopric was settled in the nearby city of Moglena.

Silver hoards.

**51. Thessaloniki/1891.**

942/3

7AR

Artavasdus and Nicephorus.

*Disposition:* Warsaw Archaeological Museum

A. Szemiothowa, "Les rares monnaies antiques du Musée National de Varsovie". *MN*. V, 1961 (=Special issue for the International Numismatic Congress in Rome, 11-16 Sep. 1961), 89.

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Copper hoards.

**52. Nea Syllata/Chalkidiki/1977**

c. 904

26AE

Leo VI

*Disposition:* Archaeological Museum of Polugyros.

*AA*. 33, B2, 1978, 256.

**53. Hornylia/ Chalkidiki/1988.** (In a field with remains of bones).

c. 995

12AE

Anonymous *folles*: Class A2:12

*Disposition:* Thessaloniki: Ephorate of Byzantine Antiquities of Chalkidiki.

Unpublished.

**54. Thessaloniki/1933 (b).** (Excavation at Vagias' plot)

1092-1118

112AE

Theophilus: 1

Anonymous *folles*: Class A2:1

Class A3:1

Worn :1

Class K :1

Alexius I :105 (*tetartera*)

Worn :2 (the one was a late Roman issue).

*Disposition:* Athens Numismatic Museum.

I. Τουράτοογλου, Η. Τσοούρη, Μ. Κρίκου-Γαλάνη, *op. cit.* . 396-7.

**55. Thessaloniki/1933 (a).** (Excavation at Vagias' plot; in a tomb).

1143-1180

3AE

Anonymous folles: Class A2:1

Alexius I: 1 (*tetarteron*)

Manouel I :1 (half-*tetarteron*)

*Disposition:* Athens Numismatic Museum.

I.Τουράτσογλου, Η.Τσούρτη, Μ.Κρίκου-Γαλάνη, *op. cit.* , 395.

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**Theme of Macedonia**

Copper hoards.

**56. Abdera/ 1987**

1042-50

8AE

Anonymous *folles*: Class A2:1 [very worn]

Class C :7

*Disposition:* Byzantine Ephorate of Kavala.

Unpublished.

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**Theme of Aegean Sea and Crete.**

**57. Santorini (Thira)/1895-1902.**

829

29AR & 1AU

Michael II(?): 1 *solidus*.

Theophilus : 29 *miliaresia*.

*Disposition:* Unknown!

F.Hiller von Gaertringen and P.Wilski, *Stadtgeschichte von Thera*, 1904, 13 and 200.

**58. Tegani/Samos/1914.**

963-9

9AU & 15AR

Constantine VII and Romanus II:9 *solidi*

Nicephorus:15 *miliaresia*.

*Disposition:* Athens Numismatic Museum.

Unpublished.

**59. Ayies Paraskies/Crete/1962.**

α. 1009

98AU

Nicephorus II:8

Basil II and Constantine VIII:98

*Disposition:* Heraclion Historical Museum.

Σ.Αλεξίου, *ΑΔ*, 18-B2, 1963, 313-4

To be published by V.Pennas and M.Borboudakis.

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**60. Unknown provenance/Central Greece?**

1015-9

60AE

Anonymous folles: Class A2

*Disposition:* Athens Numismatic Museum.

To be published by V.Pennas.

**61. Unknown provenance (Central & South Greece?)/before 1922.**

1070-5

193AE

Anonymous *folles*: Class H

*Disposition:* Athens Numismatic Museum

To be published by M.Oeconomides.

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## Yugoslavia

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### Gold hoards:

#### **62. Dreznica/1867.**

c. second half of 11th cent.                      300AU

Romanus III

*Disposition:* Dispersed

Metcalf, *Coinage in South-eastern* . . . , 178.

Mirnik, no. 363.

#### **63. Gornje Ogorje/1895.**

c. second half of 11th cent.                      5+13(?)AU

Romanus III

*Disposition:* Split Archaeological Museum (?).

Metcalf, *op. cit.*

Metcalf, *GRBS*, 3, 1960, 103.

Mirnik, no. 368

#### **64. Sinjskopolje/1912.**

c. second half of 11th cent.                      8AU

Romanus III

*Disposition:* dispersed.

Metcalf, *Coinage in South eastern* . . . , 178.

*Id.*, " A shipreck. . . ", 103.

Mirnik, no. 364(?)

#### **65. Klobuk 1930/1.**

c. second half of 11th cent.                      +23AU

Romanus III

*Disposition:* Split Archaeological Museum.

Metcalf, *Coinage in South eastern* . . . 178.

Mirnik, no. 365.



Silver hoards.

**70. Strovij/Petocnica/May 1976. (Pot hoard)**

c. 1081 +103AR

Constantine IX:1

Constantine X:6

Michael VII:95

Nicephorus III:1

*Disposition:* Unclear.

CH, VI, no. 230. ["Little doubt that this is a further part of Hoard 337 in Hoards volume II"]

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Copper hoards.

**71. Srpska Mitrovica/1903.**

c. 1029 3 or 4AE

Anonymous *folles*: Class A3.

*Disposition:* Zagreb Archaeological Museum.

Metcalf, *HBN*, 14, 1960, 438.

Mirnik, no. 361 (Macvanska Mitrovica).

**72. Macvanska Mitrovica/1971.**

c. 1029 10AE

Anonymous *folles*: Class A2:3

Class A3:4

Worn :1

Roman :1

*Disposition:* Srem Archaeological Museum.

V. Popovic, *Sirmium*, 8, 1978, 181-93.

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**Bulgaria**

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Gold hoards

**73. Byala/1954.**

945 or later                      4AU

Romanus and Christopher:3

Constantine VII and Romanus II:1

Gerassimov, *IAI*, 20, 1955, 602-11.

Metcalf, *Coinage in South eastern...*, 44.

D. Angelov and others, *Istoriya na Finansovata...*, 29, table 3.

**74. Maluk Povorets/1934.**

960 or later                      5AU

Basil I:2

Romanus I and Christopher:1

Constantine VII and Romanus II:2

*Disposition*: Razgrad Museum.

Gerassimov, *IBAI*, 13, 1939, 344.

**75. Iatrus/1975.**

960 or later                      45AU

Romanus I and Christopfer:28

Constantine VII and Romanus II:17.

E. Schönert-Geiss, *Munismatika*, 12, 1978, 15-7.

*CH*, V no. 216.

**76. Tunak**

c. 969                              ?AU

Constantine II and Romanus II

Nicephorus Phocas.

Youroukova, "La circulation des monnaies Byzantines...", 139, table 3.

**77. Iatrus/1962**

c. 969                              9AU

Constantine VII and Romanus II

Nicephorus and Basil II

E. Kluwe, *Klio*, 47, 1966, 397-416.

Metcalf, *Coinage in South eastern...*, 44 and esp. n. 29.

**78. Krivina(a)/1975.**

959-969 45AU

*CH*, IV no. 193.

**79. Krivina(b)/?**

959-969 8AU

D. Angelov and others *op. cit.*, 29, table 3.

**80. Voden/1934.**

969 or later

*Disposition*: dispersed ?AU

Gerasimov, *IBAI*, 12, 1937, 315.

**81. Gyurgendzhik/1911.**

1078 and later 22AU

Michael VII:21 {*DOC* Cl. II d}

Michael VII and Maria:1 {*tetarteron*=*DOC* Cl. II}

Mosser, 37

D. Angelov, *op. cit.*, 64, table 5.

**82. Ishirkovo/1965.**

1081 and later 22AU

Romanus III:5

Constantine IX:15

Nicephorus III:2

*Disposition*: Silistra Museum.

*IAI*, 29, 1966, 212

Angelov, *op. cit.*

**83. Khisar/1922.**

1092 and later 65AU

Michael VII:1

Nicephorus III:58

Alexius I:1 pre-reform

4 post-reform

*Disposition*: Sofia Museum (only 2).

Mosser, 39.

Angelov, *op. cit.*

**84. Khisarluk/1960.**

1092 and later

7AU

Nicephorus III:3

Alexius I:3 {post reform: mint of Thessaloniki}

*Disposition:* Plovdiv Museum.

K. Dzhambov, " Krepostta 'Khisarluka' krai zlatovruk, *Godishnik na narodniya Arkheologicheski Musei Plovdiv*, 4,1960,190.

**85. Sofia/1897.**

c. 1001

35 AU 171AR

Romanus III-Alexius I

*Disposition:* Sofia Museum.

Mosser, 80.

Metcalf, *Coinage in the Balkans...*, 84.

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Silver hoards.

**86. Preslav.**

959-969

15AR

D. Angelov, *op. cit.*, 29, table 3.

**87. Silistra/1969.**

c. 1025

2AR+

John II:1

Basil II:1

*Disposition:* Silistra Museum.

D. Angelov, *op. cit.*, 64, table 5.

**88. Gigen/25 August 1948.**

1055 or later.

3kg. AR

John II and Constantine IX

*Disposition:* Sofia Museum.

*IBAI*, 17, 1950, 324.

**89. Gigen/1952.**

1055 or later.

23AR

Constantine IX

*IBAI*, 20, 1955, 603.

Metcalf, *Coinage in South eastern...*, 76 and n. 26.

Copper hoards.

**90. Bratimir.**

886-912 11AE

Leo IV

*IBAI*, 12, 1956-7.

Metcalf, *Coinage in South eastern...*, 42

**91. Yakinovo(Progorelets)/1960.**

914- 9 5AE

Leo VI :3

Constantine VII and Zoe:2

*IAI*, 26, 1963.

**92. Reka Devnia/1964.**

c. 1029 895AE

Anonymous *folles*: Class A2 and A3.

*BIA*, 28, 1965, 251.

M. Mirchev, "Koletivni monetni nakhodki", *IMV*, 17, 1966, 145-51.

Metcalf, *Coinage in South eastern...*, 59.

**93. Dobrotica/1955.**

1029 and later 18AE

Anonymous *folles*: Class A2

*IBAI*, 21, 1957.

**94. Bejanovo.**

First half of 11th cent. 2kgsAE

Anonymous *folles*: Class A.

*Disposition*: Archaeological Collection of the Library "Suglasie" in Pleven (only 11).

*IBAI*, 12, 1938, 454.

**95. Tetevene/1973.**

c. 1030 10AE

Anonymous *folles*: Class A:8

Class B:2

*Disposition*: Tetevene Museum (only the 2 Class B).

*CH*, VI, no. 226.

**96. Praventzi/1975.**

c. 1030

124AE

Anonymous folles: Class B.

*Disposition:* Choumene branch of Institute of Archaeology and Museum of Sofia.

*CH*, VI, no. 225.

**97. Gabrovo.**

c. 1030

134AE (?)

Anonymous folles: Classes A and B.

*Disposition:* Gabrovo Regional Museum 134 Inv. No. M1762-M1816. (only 54)

*CH*, VI, no. 224.

D. Angelov, *op. cit.*, 64, table 5.

**98. Nesebur/1972.**

mid. 11th cent.

18AE

Anonymous folles: Class B

*Disposition:* Historical Museum Nessebar.

*CH*, IV, no. 195.

**99. Preslav : 8 AE**

**100. Silistra : 49AE**

**101. Lydzhen : 100AE**

There is not description of these hoards at all; they are simply dated 1025-1042 : see D. Angelov, *op. cit.*, 64, table 5.

**102. Nanovitza/1972.**

11th cent.

63 AE

*CH*, IV, no. 196.

**103. Croyanova/1973.**

11th cent.

600AE

*CH*, VI, no. 223.

**104. Silistra/1946-8.**

1078 or later. 17AE

Anonymous *folles*: Class B:1

Class D:9

Constantine X:2

Anonymous *folles*: Class G:4

Romanus IV:2

Michael VII:1

*IBAI*, 17, 1950, 322.

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**Romania**

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Gold hoards.

**105. Valul lui Trajan.**

969 and later. ?AU

Constantine VII and Romanus II

Nicephorus II.

Metcalf, *Coinage in South eastern . . .*, 44, n. 36.

**106. Dolbesti/1904.**

1025 and later 80AU

Basil II and Constantine VII.

Mosser, 27.

C. Stirbu, *Cercet Num*, 1, 1978, 25-8.

**107. Garvan (Dinogetia)/1939.**

c. 1050 106AU

Basil II:103 {Tetartera}.

Romanus III:1 {Histamenon}

Constantine IX:2

*Disposition*: *Museul de Istorie al Republicii Socialiste Romana.*

G. Stefan, *Dacia* 7-8, 1937-40, 422-41.

*CH*, VI, no. 227.

**108. Garvan (Dinogetia)/1954.**

c.1065 7AU and 4AR  
Basil II : 7{*tetarteron*}  
Theodora : 1{*miliaresion*}  
Isaac I : 3 "  
E. Comsa, G. Bichir, *SCN* 3, 1960, 223-7.

**109. Garvan (Dinogetia)/1959.**

1074 and later 15AU  
Romanus IV:6  
Michael VII:9  
I. Barnea, *SCN* 3, 1960, 245-53.

**110. Kalipetrovo/1928.**

1092 and later 31AU  
Basil II:4  
Constantine IX:6  
Isaac I:1  
Constantine X:4  
Romanus IV:4  
Michael VII:6  
Alexius I:1

*Disposition*, National Museum of Antiquities. The rest of the hoard in Severeanu collection.

G. Severeanu, 'Tezaurul din Kalipetrovo(Silistra), *Inchinare lui N. Iorga cu prilejul implinirii varstei de 60 de ani* , Cluj, 1931, 8.

O. Iliescu, *RevEtSEEur*, 7, 1969, 109-19.

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Silver hoards

**111. Calarasi/1947.**

c. 971 5AR

John I Zimisces

I. Dimian, *SCN* 1, 1957, 199.

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Copper hoards.

**112. Rasova/1934.**

842 and later. 3AE

Theophilus.

Dimian, *op. cit.* 198.

**113. Cleja/1930.**

c. 945 and later 1AR and 38AE

Leo V and Constantine:1(Syracuse)

Michael II and Theophilus:1(Syracuse)

Theophilus:1(pro-reform)

Theophilus:1(uncertain western provincial mint)

Theophilus, Constantine and Michael II:1(uncertain western provincial mint)

Basil I:1AR

Basil I:2

Basil and Constantine:6

Leo VI:11

Leo VI and Alexander:3

Constantine VII and Zoe:1

Romanus I:2

Constantine VII:3

Dimian *op. cit.*, 198.

**114. Urluia/1936**

c. 959 4AR 25AE  
Leo III:3AR  
Constantine V:1  
Leo IV:8  
Constantine VI:1AR  
Constantine VI:1(DOC Cl.1)  
Constantine VI:3(DOC Cl.1)  
Leo V:2  
Basil I:1  
Constantine VII and Zoe:2  
Romanus I:6  
Constantine VII and Romanus II:1  
Dimian, *op. cit.* 199

**115. Pacuiul lui Scare/1973**

1064 11AE  
Anonymous *folles*: Class D:9  
Constantine X:2  
*Disposition*: Arch. Inst. Bucarest  
*CH*, IV, 194  
P. Diaconu, *MusNet*, 3, 1976, 235-9.

**116. Pacuiul lui Soare/1978**

c. 1072-4 33AE  
Anonymous *folles*: Class C:7  
Class D:9  
Constantine X and Eudocia:2  
Constantine X:3  
Anonymous *folles*: Class G:11  
Michael VII:1  
*Disposition*: Calarasi History Museum  
*CH*, V, 217.  
N. Conovici, R. Lungu, *SCIV* 31, 1980, 397-402

**117. Limanou/1926**

c.1085

6AE

Anonymous *folles*: Class H:1

Class I:3

Class J:1

Class k:1

Disposition: Bucharest Academy

CH.III.242

**118. Nufarul/1966**

c.1092

50AE

From Class A2 to Alexius I

Metcalf, *Coinage in South eastern...* 74, and n.11.

**119. Nufarul/1969**

c.1092

5AE

Anonymous *folles*: Class A:1

Class D:2

Constantine X and Eudocia:1

Class K:1

Disposition: 'Delta Dunarii' Museum, Tulcea

A.Popeea and V.H.Baumann, *Feuce* 6,1977, Nos 30,90-3,129

**120. Plopeni/ 1934**

c.1092

85AE

Anonymous *folles*: Class A2:10

Class A3:31

Class B:24

Class C:15

Class G:4

Class K:1

Dimian, *op. cit.* 200-1

**121. Pacuiul Lui Soare/1976**

1000-1100

12AE

Pot hoard

Disposition: Bucarest Institute of Archaeology

*CH*, VI no. 229

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**Asia Minor**

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Gold hoards: for gold hoards see Mosser, 11, 25, 42, 47, 85, 92.

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Silver hoards

**122. Ankara/1960?**

795

38AR

Leo IV and Constantine VI: 7

Constantine VI and Irene: 31

Disposition: dispersed.

*CH*, 2, no. 336

**123. Unknown provenance/1987**

c. 797

99AR

Leo III and Constantine V: 21

Artavasdus: 1

Constantine V and Leo IV: 5

Leo IV and Constantine VI: 17

Constantine VI and Irene: 55

*Disposition:* dispersed.

S. Bendall, *NCirc.* 96, 1988, 213.

**124. Unknown provenance/1982?**

c. 820

?AR

Michael II

*Disposition:* in commerce

S. Bendall, *NCirc.* 91, 1983, 42-3.

### B. Stray finds from Greece

#### Theme of Peloponnese

Reigns	Years	Sparta	Quantity of coine per annum	
				Corinth
Theophilus		3		163
Michael III				20
Basil I		4		299
<b>Total</b>	<b>57</b>	<b>7</b>	<b>0.12</b>	<b>482</b>
<hr/>				
Leo VI		9		1032
Constantine VII and colleagues		27		2359
Nicephorus II		4		215
<b>Total</b>	<b>83</b>	<b>40</b>	<b>0.48</b>	<b>3606</b>
<hr/>				
<b>Class A</b>	<b>59</b>	<b>89</b>	<b>1.51</b>	<b>3473</b>
<hr/>				
Class B		25		726
Class C		10		504
Class D		15		388
Class E		4		153
Class F		11		406
Constantine X:		3		67
Class G		3		78
Romanus IV		2		65
<b>Total</b>	<b>42</b>	<b>73</b>	<b>1.74</b>	<b>2387</b>
<hr/>				
Class H		24		187
Michael VII				88
Class I		23		261
Nicephorus III		39		1883
Class J		9		72
Class K		15		203
<b>Total</b>	<b>22</b>	<b>110</b>	<b>5</b>	<b>2691</b>
<hr/>				
<b>Total</b>		<b>319</b>		<b>12642</b>

**Stray finds from other cities of Peloponnese:**

<b>Argos:</b>		<b>Troizena</b> : 3 Cl. A
Theophilus	:1	<b>Episkopi</b> : 1 "
Leo VI	:1	<b>Epidauros</b> : 5 "
Constantine VII	:2	<b>Elis</b> : 1 "
Class A	:1	<b>Messini</b> : 1 Cl. D
Class B	:2	<b>Mystras</b> : 1 "
Class C	:2	<b>Patras</b> : 1 Constantine VII
Class G	:2	5 Cl. A
Class I	:2	<b>Sikyon</b> : 1 Cl. A
Class K	:1	1 Cl. F
Nicephorus III	:3	<b>Cranion</b> : 2 Leon VI
		: 2 Constantine VII
		: 2 Cl. A
		: 1 Cl. D
		: 3 Cl. G
		: 1 Michael VII
		: 1 Cl. F
		: 1 Cl. I
		: 1 Cl. J
		: 1 Nicephorus III
		: 1 Cl. K
		<b>Lecheon</b> : 2 Cl. I
		: 2 Cl. J
		: 4 Nicephorus III
		: 1 Cl. K.
		<b>Kenchreai</b> : 2 Cl. A
		1 Cl. D
		2 Cl. K

**Synoptic table of loss-rates at Peloponnese**

(except Corinth and Sparta)

<b>Periods</b>	<b>Coins</b>	<b>Years</b>	<b>Qty. of coins per annum</b>
829-886	1	57	0.02
886-969	8	83	0.1
969-1028	19	59	0.3
1028-1070	13	42	0.3
1070-1092	18	22	0.8

=====

**Theme of Hellas.**

**Athens**

<b>Reigns</b>	<b>Coins</b>	<b>Years</b>	<b>Qty. of coins per annum</b>
Theophilus	4		
Michael III	1		
Basil I	19		
<b>Total</b>	<b>24</b>	<b>57</b>	<b>0.42</b>
-----			
Leo VI	106		
Constantine VII and his colleagues	316		
Nicephorus II	61		
<b>Total</b>	<b>483</b>	<b>83</b>	<b>5.82</b>
-----			
<b>Class A</b>	<b>770</b>	<b>59</b>	<b>13.05</b>
-----			
Class B	240		
Class C	157		
Class D	108		
Class E	13		
Class F	74		
Constantine X	28		
Class G	105		
Romanus IV	4		
<b>Total</b>	<b>729</b>	<b>42</b>	<b>17.35</b>
-----			
Class H	230		
Michael VII	7		
Class I	363		
Class J	78		
Nicephorus III	677		
Class K.	234		
<b>Total</b>	<b>1589</b>	<b>22</b>	<b>72.22</b>

=====

**Stray finds from other areas of the theme.**

<b>Thebes:</b>		<b>Attica:</b> 1 Constantine VII
Theophilus:	: 2	:2 Cl.A
Basil I	: 2	:1 Cl.D
Leo VI	: 5	:1 Cl.H
Class A	:10	:1 Cl.I
Class B	: 1	:1 Nicephorus III
Class D	: 1	:1 Cl.K
Class F	: 1	<b>Delphi</b> :5 Basil I
Class G	: 2	:3 Cl.A
Class H	: 3	:1 Cl.B
Class I	: 2	:1 Cl.D
Class J	: 2	:3 Cl.F
Nicephorus III	: 6	:3 Cl.G
Total	:37	:2 Cl.H
		:2 Cl.I
		:1 Cl.J
		:1 Cl.K
<b>Amfissa:</b>	1 Basil I	<b>N. Anchialos</b>
	:3 Leo VI	(Phth. Thebes): 1 Theophilus
	:5 Constantine VII	:2 Leo VI
	:1 Nicephorus II	:1 Constantine VII
	:15 Cl.A	:2 Cl.A
	:7 Cl.B	:2 Cl.B
	:4 Cl.C	:1 Cl.C
	:3 Cl.D	:1 Cl.F
	:1 Cl.F	:1 Cl.G
	:1 Constantine X	:1 Cl.I
	:5 Cl.G	:1 Cl.K
	:1 Cl.H	<b>Chalkis</b> :2 Constantine VII
	:1 Michael VII	:1 Cl.B
	:6 Cl.I	:2 Cl.I
	:3 Nicephorus III	:1 Nicephorus III
	:1 Cl.K	<b>Euboea</b> :1 Constantine VII
<b>Lania</b>	:1 Nicephorus III	:1 Cl.A
<b>Acrephnion</b>	:1 Cl.B	<b>Skyros</b> :1 Cl.A
<b>Pelagias</b>	:1 Cl.A	

**Synoptic table of loss-rates at Central Greece  
(Except Athens)**

<b>Periods</b>	<b>Coins</b>	<b>Years</b>	<b>Qty. of coins per annum</b>
829-886	11	57	0.19
886-969	20	83	0.24
969-1028	33	59	0.56
1028-1070	41	42	1
1070-1092	38	22	1.72

=====

**Theme of Nicopolis**

<b>Arta:</b> 2 Constantine VII	<b>Kephalos:</b> 1 Constantine VII
:2 Cl. A	:3 Cl. A
:1 Cl. I	<b>Acarmania:</b> 1 Cl. A
:1 Cl. J	1 Cl. J
<b>Corfu:</b> 2 Constantine VII	<b>Ithaca:</b> 1 Cl. A
:1 Cl. A	<b>Naupaktos:</b> 1 Theophilus
:1 Nicephorus III	<b>Giannena:</b> 2 Theophilus.

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**The theme of Thessaloniki.**

<b>Aiani/Kozani:</b> 1 Cl. I	<b>Thessaloniki:</b> 4 Theophilus
<b>Servia</b> :1 Theophilus	:16 Cl. A
:1 Constantine VII	:3 Cl. H
:2 Nicephorus II	:1 Nicephorus III
:1 Cl. C	<b>Rentina</b> :1 Leo VI
<b>Beroia</b> :1 Cl. A	:4 Constantine VII
:1 Cl. H	:27 Cl. A
<b>Edessa</b> :2 Constantine VII	:3 Cl. B
:3 Cl. A	:4 Cl. C
:1 Cl. F	
:1 Cl. I	
<b>Pella</b> :1 Cl. A	

**Synoptic table of loss-rates at the theme of Thessaloniki.**

<b>Periods</b>	<b>Coins</b>	<b>Years</b>	<b>Qty. of coins per annum</b>
829-886	5	57	0.09
886-969	10	83	0.12
969-1028	45	59	0.76
1028-1070	9	42	0.21
1070-1092	5	22	0.23

=====

**Theme of Strymon**

**Drama:** 2 Constantine VII  
1 Nicephorus II

**Kavala:** 1 Theophilus  
: 3 Leo VI  
: 2 Cl.A  
: 2 Cl.F  
: 1 Michael VII  
: 1 Cl.I  
: 1 Cl.K

**Thasos:** 1 Constantine VII  
: 9 Cl.A  
: 1 Cl.B  
: 3 Cl.E  
: 1 Cl.G  
: 1 Cl.I

**Philippi:** 3 Theophilus  
: 1 Basil I  
: 1 Leo VI  
: 2 Constantine VII  
: 1 Nicephorus II  
: 1 Cl.A  
: 1 Cl.I

**Synoptic table of loss-rates at the theme of Strymon.**

<b>Periods</b>	<b>Coins</b>	<b>Years</b>	<b>Qty. of coins per annum</b>
829-886	5	57	0.08
886-969	11	83	0.13
969-1028	13	59	0.22
1028-1070	8	42	0.19
1070-1092	4	22	0.18

=====



**Chronology**

**Table I**

**a: Leo III's gold coinage**

DDC		Proposed dates.
Classes	Dates	
I	717-20	717-20
IIa	720	720-5
IIb	720-5	725-30
IIc	725-32	730-3
IIIa	732-7	733-8: Face rounded 738-41: Face triangular. without officina
IIIb	737-41	After 18 June 741 with officina mainly on Leo's side .

**b. Constantine V's gold coinage**

Classes	DDC Dates	Proposed dates
I	—	741 or July 742–November 743
II	741-51	741- July 742 and November 743-751
III	a 751-57	751-75
	b 757-75	

Chronology

Table II

a. Constantine VI's gold coinage.

Classes	BOC	Bellinger	Morrisson	Misiou	Proposed dates
la	780-90	790	780-90	787-90	792-7
lb	790-92	780-90	790-7 or 792	780-7	780-7
II	792-7	792-7	790	790	787-92

b. Theophilus' gold coinage

	Classes				
	I	II	III	IV	V
Dikigoropoulos	834/5-42	5 June 830	829- 34/5	837 or 838	1 Sept. 838
Morrisson	835-42	830?	829- 35	838- 40	842
Grierson	829-30/1	830 or 831	830/1- 40	late 830s	840- 42
Bellinger	829- 31	832	833- 37	838	839- 42
Treadgold	829- 33	834- 35	835- 40	833	840- 42
Proposed dates	829	829/30	830- 40	838	840- 42

**Table III**

**a. Michael III's gold coinage**

DOC		Proposed dates
Classes	Dates	
I	842- 3(?)	842-53 → 842-3 → MIXAHL SO ECLA or MIXAHL SOE CLA 842-53 → 843-53 → MIXAHL S OECLA
II	843(?) - 56	853-6
III	856-67	856-67

**b. Basil I's gold coinage**

DOC		Morrisson	Proposed dates
Classes	Dates		
I	868(?)	23 Sept.867-10 Febr.868	880
II	868-79	10 Febr./868- 6 Jan.870	867/8-879
III	882(?)	10 Febr./868- 6 Jan.870	24 Sept.867-Nov.867/Febr.868

**c. Basil II's gold coinage**

DOC		Proposed dates
Classes	Dates	
		→ Unpublished Class: 977- 8
I	977	978-81
II	977-89	981-1000
III	989-1001	1000-14
IV	1001-5	1014-8 → Cl. V (transitional)
V	1005	
VI	1005-25	1018-25

Table IV

a. Constantine VII's gold coinage.

DOC Classes	Bellinger	Gregory	Grierson	Morrisson	Proposed dates
I	—	—	914	—	
II	914-9	914-9	914-9	914-9	914-9
III	920-1	920-1	920-1	920-1	920-1
IV	921	921	921	931-44	921
V	927	922/24	921	922/24	924
VI	928	922/24	921	921-922/24	927
VII	921-31	921-31	921-31	922/24-31	921-31
VIII	924/27	921	930	921	921
IX	—	—	pattern	—	
X	920	920	931-44	945	944
XI	—	—	pattern	—	
XII XIII	945	945	945	945	945
XIV	920-1	945-9	945	945-9	945
XV	945-9	945-9	945-9	945-9	945-9

The Ayies Paraskies hoard / 1962

TABLE V











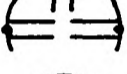


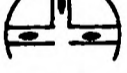

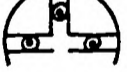








DOC	Description		Quantity	Comments
I	†		1	Ia
-	"		1	Ib
-	"		3	Ic
IIa	"		1	IIa
-	†		1	II(a.1)
-	"		2	II(a.2)
-	†		1	II(a.3)
IIb	†		1	II b
IIc	†		3	II c
II d	"		1	II d
IIe	"		7	II e
-	†		1	II (e.1)
-	†		1	II (e.2)
IIg	†		10	II g
II i	†		1	II i
II j	†		23	II j
-	†		1	II (u.1)
IIIa	†		6	III a
III d	"		1	III d
III e	"		3	III e
-	"		4	III (e.1)
-	"		1	III (e.2)
III h	†		3	III h
III i	"		2	III i

Table VI

The copper coinage from 717 to 775.

Grierson's: Attributions	Classes    Dates	Proposed attribution and dates.
Leo III (717-41)	Cl.1 = DOC Cl.1 : 717-20 Cl.2 = NC,1974 : 718 Cl.3 = DOC Cl.2a: 720-1 DOC Cl.2b: 721-5 DOC Cl.2c : 725-32  Cl.4 = DOC Cl.3 : 732? Cl.5a = DOC Cl.4a: 732-5 Cl.5a: light issues  Cl.5b = DOC Cl.4b: 735-41	The same The same The same " "  (Artavasdus:742/3)  732-41  (Constantine V's issue in Asia Minor:742/3)  (Constantine V:743-751)
Constantine V (741-75)	Cl.1 =DOC Cl. 1 : 741-? Cl.2 =DOC Cl. 2 : ? -751 Cl.3 =DOC Cl. 3 : 751-69 Cl.4 =DOC Cl.4 : 769-75	June 741-July 742  (Artavasdus:741)  751-63  763-75
<b>S U M M A R Y</b>	Grierson's scheme	Proposed scheme
Leo III	5 classes= DOC Cl.1+NC 1974+DOC Cl.2+ DOC Cl.3+DOC Cl.4.	4 classes= DOC Cl.1+NC 1974+DOC Cl.2+ DOC Cl.4a.
Constantine V	4 classes= DOC Cl.1+DOC Cl.2+DOC Cl.3+ DOC Cl.4.	5 classes= DOC Cl.1+ Leo's DOC Cl.4a+ Leo's DOC Cl.4b+DOC Cl.3+ DOC Cl.4.
Artavasdus	No copper coins	2 classes= Leo's DOC Cl.3+ Constantine's DOC Cl.2

Group A  
Drapery:

A/1



A/2



A/3



A/4



Tufa

A/1

Fully opened fan:	····		····	(nos. 12,13,19)	
Scallop-shaped :	····	(nos.8,17,18);	····	(no. 22)	
lop-sided :	···	(nos.14,15)	··	(no.24)	

A/2

lop-sided :	····	(no.23)	··	(no.24)	
Fully opened fan :	····	(nos.27, 29)			
Similar but smaller :	····	(nos.25,26,28)	··	(nos.30,31)	
Canopy shaped :	····	(no.32)			

A/3

Opened fan :	····	(nos.33,42-44)	··	(nos.34,35)	
Scallop-shaped :	⊙	(no.36)	··	(nos.37-39)	···· (no. 41)
Half-moon :	⋮	(no.45)			

A/4

Scallop-shaped :	··		····	(nos. 48,49, 51)	
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Group B  
Drapery:

B/1



B/2



Tufa:

B/1

lop-sided :	••••	•• (nos. 67, 68, 69)
	•••••(no. 87)	••••• (no. 77)

B/2

Half-moon:	•• (nos. 97, 99, 107-111)	•• (nos. 98, 102-106)
	••• (nos. 100-101)	••• (nos. 112-113)

Table IX

ANONYMOUS FOLLES

Percentages of groups among finds from Greece and Asia Minor.

Groups	COR	PEL	ATH	HEL	THES	CON	THR	ANT	SE TUR.
I	23	16	18	13	23	27	0	1	2
II	6	13	4	16	11	7	24	14	10
III	54	53	61	50	20	47	52	41	18
IV	6	7	8	3	20	7	2	19	26
V	3	2	2	3	3	0	12	4	3
VI	3	7	4	3	14	13	9	15	32
VII	3	0	1	3	6	0	0	4	1
VIII	1	3	1	7	3	0	2	2	5
IX	0	0	0	0	0	0	0	1	0

Percentages of the main groups among finds from  
Serbia, North Dobrogea, Central and South Dobrogea

	Serbia	N.DOBR.	CEN. & S. DOBR.
I	0	2	2
II	7	19	13
III	24	6	19
IV	60	47	48
V	0	6	2
VI	8	15	15
VII	0	2	0
VIII	0	0	2
IX	2	4	0

Table H

	22	23	24	*20	30	* 31	32	*33	* 42	* 45
CI.A	2					23		7	33	8
CI.B	8					79		8	5	6
CI.C	1					3		3	1	
CL.D	2					15		2	1	1
CLE				1		2			1	
CLE					?		3	1		
Constantine H	1	1				7		6	1	
CI.G	1					15		9		
Romanus IV										
CI.H		5	1			6	1	1		2
Michael VII										
CI.I	1	4	2			2			1	2
Nicephorus III	1	124	2	11		5		2	2	3
CI.J	1	3				1		5		
Nic.Bruennius	1									
CI.K		22		14		2	1	4	1	4
Alexius (1)						3				
Alexius (2)			+	+	+	+	+	+		+
Date of deposit	±1081	1092	end 11th	1092- 1110	1192- 1110	1144	1144	1144	1092	1118- 1143

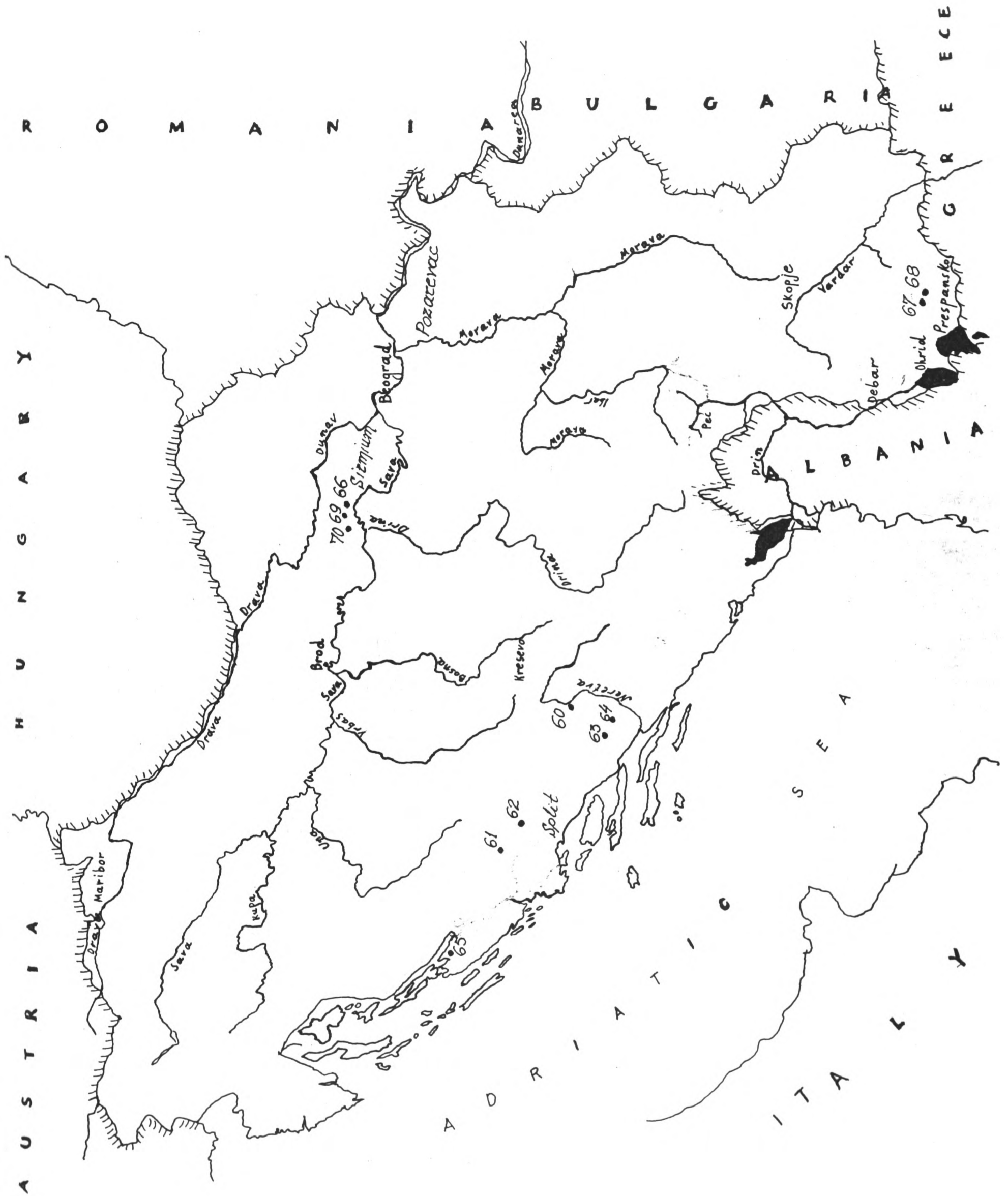
**Statistics of hoards from Greece deposited after 1020**

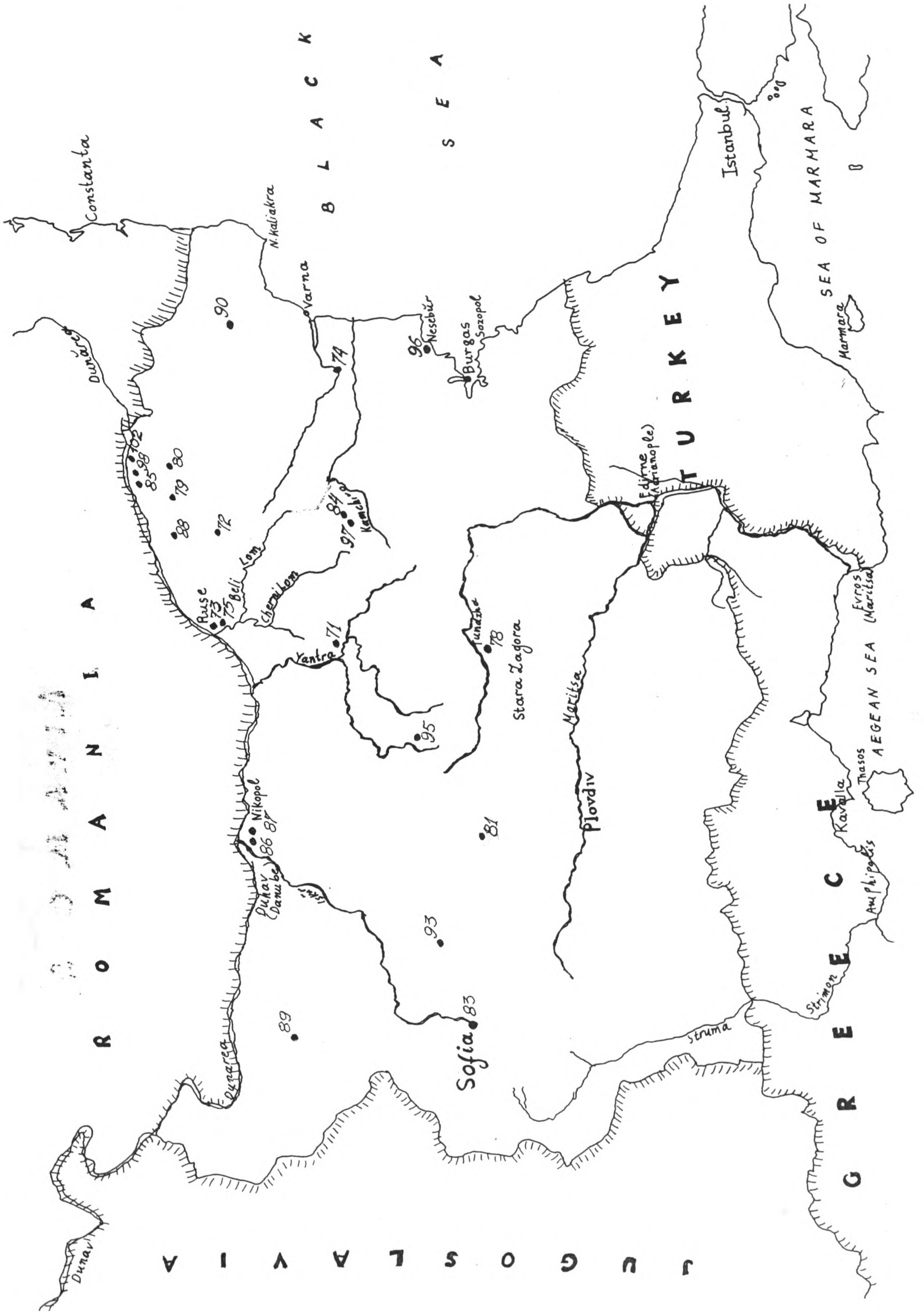
Alexius(1) :pro-reform

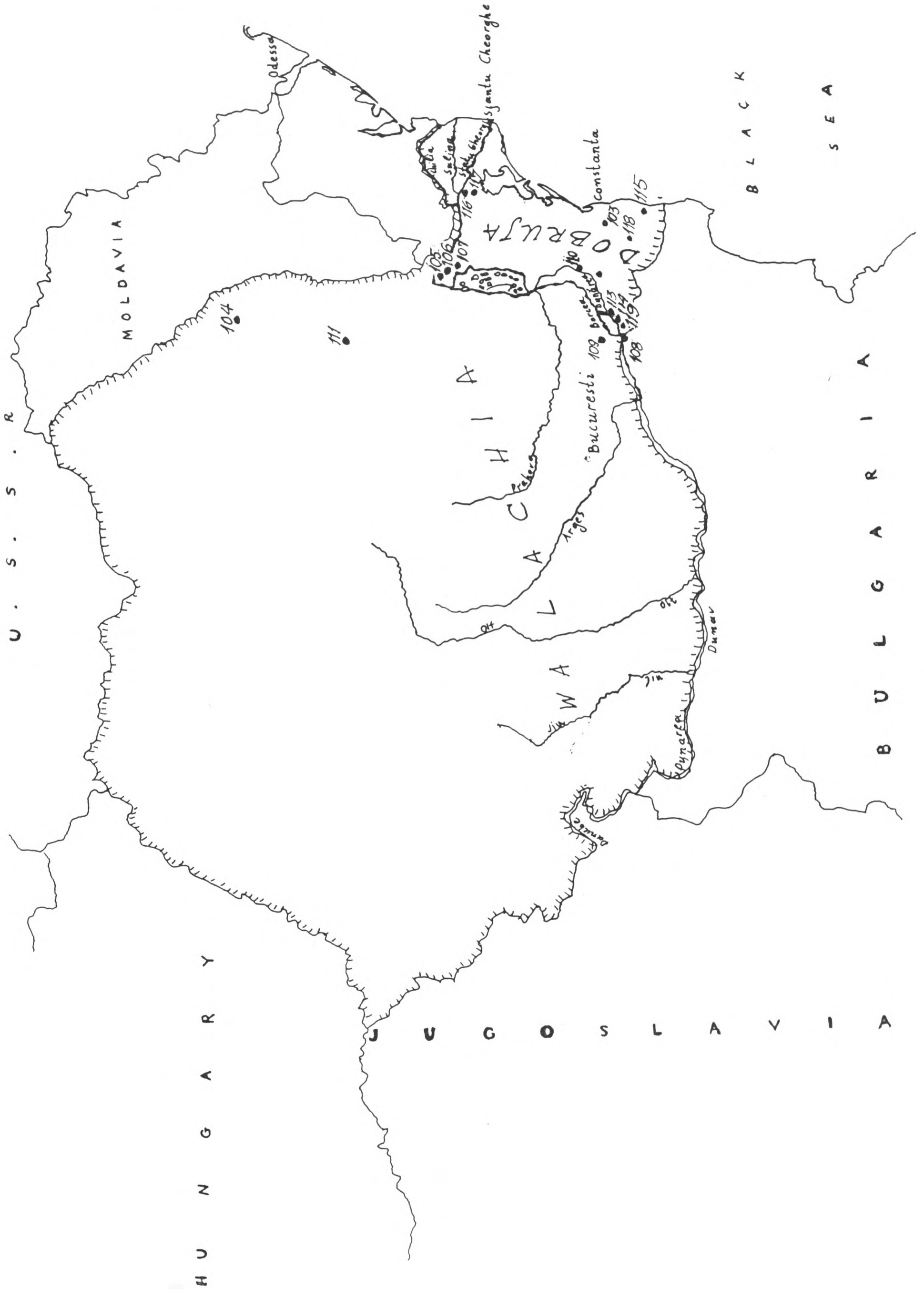
Alexius (2):post-reform

\* the hoard includes survivals before 969.









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Michael II's copper coinage  
Class 1a



1



2



3



4



5



7



9



10



13



14



15



16





17



19



21



22



23



Class 1b



27



28



29



30



31



34



35



37



38



40



41



42



Class 2



43



44



46



47



49



50



52



53



54



55



56



57



58



59



60



61



64

Class 3



65



67



68



70



Class 4a



72



77



78



79



80



73



81



82



86



87



88



Class 4b



90



91



92



94



95



96



97



105



106



Theophilus' copper coinage

Class 1a



1



3



10



12



14



Class 1b



22



25



26



28



32



Class 2



43



44



45



48



Class 3

Group A

A1



1



2



3



4



5



7



8



9



10



11



12



13



14



16





17



18



19



20



22



A 2



24



26



28



29



30



31



A 3



33



34



36



37



38



A 3 (cont.)



40



41



42



43



45



A 4



46



47



48



52



53



54



58



61



64



65



Group B:

B 1



66



67



69



70



71



78



80



81



86



88



90



91



94



95



96



B 2



97



98



100



102



103



106



108



110



113



114



Group Γ



115



117



120



121

122



Group Γ (cont.)



126



127



132



133



Group Δ  
Δα



135



137



138



139



140



148



155



158



159



160



162



163

Δb



170



171



172



173



176



177



Δc



188



189



192



197



198



200



202



204



208



210



212



214



215



Group E



220



221



222



223



224



225



Group S 1

S 1a



228



232



233



234



237



238



239



245



246



247



254



S 1b

S 1c



257



258



260



261



262



263



Group S 2

S 1d

S 2a



264



266



267



272



274



275



280



282



285



S 2b



288



290



291



297



300



301



Group Z

Z 1a

Z 1b



304



310



313



315



316



Z 2



324



336



343



357



360



Group H



364



369



371



374



376



The Argos hoard / 1983

