1 Introduction: The Study of Trajan's Column

1. For bibliographies of the column see FLORESCU, 1969; 1971; RICHMOND, 1982; KOEPPEL, 1982a; COLONNA, 1988 and the present work.

2. The term 'scene' is used to denote logical divisions in the composition of the spiral. Their numbering system employing Latin numerals was devised by CICHORIUS, 1896; 1900 and it is used here following his text. A further system of individual human figure numbering has been devised by the present writer whereby human heads in each scene are numbered from left to right and, when they coincide vertically, from bottom to top. Thus every human figure may be referred to by a Latin scene number and an individual Arabic number. PETERSEN et al., 1896 similarly numbered the Marcus Column figures but in rather arbitrary order within scenes.

3. DAVIES, 1920, 4-5.

4. KEPPIE, 1984, 12 quite properly made a point of not citing Trajan's Column out of period.

5. Helmets based directly on the column appear in the films Quo Vadis?, Spartacus, The Robe, Ben Hur and The Fall of the Roman Empire, and in the television series Jesus of Nazareth, Renaissance and later paintings of 'The Stations of the Cross', 'The Passion' etc. commonly employed models taken from the column and the practice continues.

6. This is mainly due to the work of H.R. Robinson (ROBINSON, 1972; 1974; 1975).

7. The situation has not substantially changed since it was characterised by RICHMOND, 1935, 1. For summaries of scholarship since the 1870s see FLORESCU, 1971; BECATTI, 1982.

8. The comments of WARD-PERKINS, 1980, 325 are particularly apposite here: 'It must be admitted that we have come up against a good deal of resistance from the forces of conservative art-historical scholarship. The notion that a sarcophagus, for example, can usefully be studied as an object of commerce, or indeed that its evaluation as a work of art may be affected by the type of marble from which it was made, these are notions that are positively repugnant to many of the traditionalists, who prefer to deal with matters of iconography and style'. This scholar in particular has revolutionised the study of sculptural materials and techniques.

9. Notably by LEHMANN-HARTLEBEN, 1926; GAUER, 1977, but even for these commentators the actual sculpture was peripheral to the identification of individual 'masters' and 'artists'.

10. ROCKWELL, 1981-83. The present writer's research interests lie principally with Roman military equipment and sculpture but he is conscious of the major disadvantage of not himself having 'hands-on' sculpting experience.
11. Complete sets of casts, including the pedestal reliefs are located in the Victoria and Albert Museum (London), the Casts Museum (Berlin) and the National Museum (Bucarest). The spiral and one side of the pedestal are in the Museo della Civiltà Romana (E.U.R.). Only those in Bucarest and E.U.R. are disassembled and thus of use for close study. A short assembled section of the shaft, cast in bronze, resides in the fosse at the Musée des Antiquités Nationales (Sant Germaine-en-Laye). Odd casts are present in private collections, in the substructures of the Forum Traiani excavations, and a painted section in the Soprintendenza Archéologia di Roma offices. The E.U.R. set was originally exhibited in the Museo Lateranense. After the closure of that museum it was moved to the Giardini Vaticani and subsequently donated to the Museo della Civiltà Romana by Pius XII. The Bucarest set was made and set up in 1967. All of these sets and odd casts were made from the 1861-62 matrices. Fragmentary casts also survive from the François I and Louis XIV endeavours at the École des Beaux Arts (Paris), in the Palace at Versailles, the Rijkmuseum van Oudheden (Leiden) and in the Biblioteca Ambrosiana (Milan). See FROEHNER, 1872-74, xx; REINACH, 1886, 15-20, 23-5; CICHORIUS, 1896, 3; RICHMOND, 1935, 1; FLORESCU, 1971, 207; MOSTRA, 1983, 109, 156; COLONNA, 1988, 261-73.

12. CICHORIUS, 1896; 1900; LEHMANN-HARTLEBEN, 1926 (Lateran, later E.U.R. set); FLORESCU, 1969 (Bucarest set). MONTI, 1981 and NARDONI, 1986 used the column for the majority of their illustrations plus a few Lateran D.A.I. archive prints, but they did not attempt full coverages of the spiral.

13. LEHMANN-HARTLEBEN, 1926, 145-6 and taken up by GAUER, 1977, 7-8, 45-8, Fig.1.

14. CICHORIUS, 1896; 1900; PETERSEN, 1899; 1903.

15. RICHMOND, 1935.

16. HAMBERG, 1945, 135-41 dealt with the adlocutiones and RYBLC, 1955, 109-13 was concerned with suovetaurilia scenes.

17. The clay wash may have been applied during Sixtus V's 1587 restoration programme, see MARTINES, 1980, 59-61; COLONNA, 1988, 295-8.

18. For an examination of sources of information for the study of Roman military equipment and their limitations see BISHOP, 1986b, 18-46.

19. HOPKINS, 1978 outlines some of the pitfalls of literary evidence.

20. COULSTON, 1983.


22. BISHOP, 1986a; forthcoming b.

24. Free access and keys to the scaffolding enclosure of both columns were granted by special permission of Prof A. La Regina in March 1984. Scaffolding was erected in 1941 to shield Trajan's Column from air-raid damage (ROMANELLI, 1942) and presumably also in 1861-62. Prior to that, platforms may have been lowered on tackle from the balcony to facilitate study.

25. New excavations were planned for the 1980s in the Forum Traiani and along the line of the Via dei Fori Imperiali so that a vast archaeological park would stretch uninterrupted from the Piazza Venezia down the Via Appia (COLONNE, 1984, 24-33; BENEVOLO, 1985). Funds were withdrawn and the plans shelved. The first important publication associated with the restorations concerns the Arch of Severus in the Forum Romanum (NARDI, 1982-84).

26. Periodically a furore blows up over car exhaust fumes and legal action is threatened to clear the centre of traffic. Via dei Fori Imperiali has been closed from time to time with this in mind and in premature preparation for excavation. See MARIOTTI, 1986.

27. For the process of atmospheric erosion on marble monuments in general see SKOULIKIDIS, 1976; MASSA & PARIBENI, 1982; ROSVALL, 1986. For the Marcus Column and the Arches of Severus and Constantine: NARDI, 1981-82; NYLANDER, 1988; specifically for Trajan's Column ARMSTRONG, 1983. For the effects of earthquakes on the column see MARTINES, 1983.

28. In fact ongoing surface erosion may be observed in the period between the making of the 1670 and the 1861-62 casts (COLONNA, 1988, 281-94).

2 The Function of the Column

2.1 The Architectural Setting


2. POLLEN, 1874, Fig.1; AMICI, 1982, Fig.111, 123, 125-6, 146-7; PACKER, 1983a, Pl.21-2.


on loose bricks from the area leading RICHARDSON, 1977, 106 and ANDERSON, 1984, 146, 153-4 to postulate building under Hadrian.


7. FARINELLA, 1981, Fig.2; STROCKA, 1981, Pl.XVa; AMICI, 1982, Fig.126, 145.

8. Measurements are taken from the cross-sections in AMICI, 1982, Fig.125-6.

9. Angles are calculated from ibid., with the viewer standing as far back as possible with an eye level at c.2m.

10. Reconstruction with an open colonnade ZANKER, 1970, Fig.4; AMICI, 1982, Fig.123; with a single entrance ibid., Fig.125.

11. Ibid., Fig.126 reconstructed them with two storeys but this was seriously doubted by PACKER, 1983b, 571; BOATWRIGHT, 1987, 82.


14. See BOATWRIGHT, 1987, 80-94 for a complete discussion in support of a Hadrianic date. SHA, Hadrianus 10,9 explicitly attributes the temple to Hadrian and the temple inscriptions were massive and surely structurally integral (ZANKER, 1970, Fig.64). See also Gell., Noct. Att. XI, 17,1.

15. BOATWRIGHT, 1987, 90-91. The comments of PLOMMER, 1974, 126-7 on the purely hypothetical reconstructions of the temenos wall are relevant in this question.


17. For Italic forum-basilica development and plans see WARD-PERKINS, 1970, 7-13, Fig.2-11; MARTIN, 1972, 914-5; BOETHIUS, 1978, 145-56, Fig.139. For Republican basilicae as models for the Basilica Ulpia see BANDINELLI, 1970, 238-9.


19. BONI, 1907, 410-14; WAURICK, 1973, 115-8 (Tombs); BOATWRIGHT, 1987, 85-6, Fig.17 (insula and open space).

20. GAUER, 1977, 47; BOATWRIGHT, 1987, 87-8. The writer is grateful to Dr J. Onians for some stimulating discussion of this aspect.

21. BONI, 1907-8, 400-7, Fig.36. For an elevation of the column in
relation to the Quirinal see ibid., Fig.1. The original contours of the area have been reconstructed (LUGLI, 1965, 237). Dio, LXVIII, 16, 3 was probably influenced by the pedestal inscription. For the 'mons' problem see LEHMANN-HARTLEBEN, 1926, 6; HAMBERG, 1945, 121-4; BECATTI, 1960, 25-6; FLORESCU, 1969, 31-3; ZANKER, 1970, 531-2; LEON, 1971, 34; BLAKE & BISHOP, 1973, 16.

22. RICHARDSON, 1977, 106; ANDERSON, 1984, 155-9, discussing an idea first put forward by GROH, 1925.

23. Especially ZANKER, 1970, 505-6, Fig.5-6; LEON, 1971, 33-4.


26. For early principia development from civic architecture see VON PETRIKOVITS, 1975, 140-1. WARD-PERKINS, 1970, 7, addressing the Forum of Trajan antecedents problem directly, concluded that both the principia and the imperial period fora developed from common Italian forum-basilica models.

2.2 The Column as Historical Document

1. Dio, LXVIII, 6; 8-14, 32; Pliny, Ep. VIII, 4, 2; Pan. 56, 7-8; 82, 4-5; Pausanias, V, 12, 6; Procopius, Buildings IV, 6, 11-7; Prisc. Inst. Gram. VI, 13 (Trajan). Sources for Trajan's reign are collated and summarised by PARIBENI, 1926, 1-44; SMALLWOOD, 1966; CISEK, 1983, 26-65; STROBEL, 1984, 19-22.


5. In particular CICHORIUS, 1896; 1900; FETESEN, 1899; 1903; STUART JONES, 1910; DAVIES, 1917; 1920; PARIBENI, 1926. To be fair, DAVIES, 1920, 4-5 did sound a note of caution with unrestrained interpretation of detail.


10. Dio, LXVIII, 8, 1; 10, 3-4; Pliny, Ep. VIII, 4, 2; Prisc., Inst. Gram. VI, 13.


15. Dio, LXVIII, 14, 4. 'Loot' in the form of dishes, paterae and other vessels is clearly depicted loaded on a pair of pack-animals.


20. For convenient summaries of the literature on geographical identifications see STUCCHI, 1960, 17-21; CLAIRMONT, 1975, 26-35; GAUER, 1977, 32.

21. See CICHIORIUS, 1900, 262; PETERSEN, 1903, 100; LEHMANN-HARTLEBEN, 1926, 118-9; ROSSI, 1971a, 196-7; GAUER, 1977, 38; STROBEL, 1984, 214-5.

22. Dio, LXVIII, 14, 5. See CICHIORIUS, 1900, 298; PETERSEN, 1903, 105-6, 110; PARIBENI, 1926, 303-4; CHRISTESCU, 1937, 30; ROSSI, 1971a, 200, 205; GAUER, 1977, 40; CISEK, 1983, 327; STROBEL, 1984, 216.


26. These are, from west to east, the Iron Gates, Keys of Teregover, Vulcan Pass and Red Tower Pass. See PATSCH, 1937, endmap; GAUER, 1977, Fig.2; STROBEL, 1984, endmaps. A major problem for early reconstructions of the wars was the confusion between Decebalus' capital, Sarmizegetusa Regia, with the Roman town of Colonia Ulpia Traiana Sarmizegetusa. Compare CICHORIUS, 1896, 333, endmap; PETERSEN, 1903, 134; DAVIES, 1920, Fig.1; PATSCH, 1937, endmap with GAUER, 1977, Fig.2; STROBEL, 1984, endmaps. For large-scale coverage of the war zone see T.I.R., L34, Budapest; L35, Bucarest. For specific pass identifications see CICHORIUS, 1896, 234, 256; PETERSEN, 1899, 62, 93-4; DAVIES, 1917, 74; 1920, 7-11, 23; PATSCH, 1937, 75; C.A.H. XI, 228; ROSSI, 1971a, 158; GAUER, 1977, 28-9, 36; CISEK, 1983, 307, 323-4; STROBEL, 1984, 168-74, 212-4.

27. Prisc., Inst. Gram. VI,13: Traianus in I Dacicorum: inde Berzobim, deinde Aizi processimus. For references to other sources for these place-names see T.I.R., L34, Budapest, s.v. 'Aizizis', 'Berzobis'.

28. For these invasion bases see T.I.R., L34, Budapest, s.v. 'Viminacium', 'Lederatal', 'Drobeta'. Cf. n.32, 35 below.

29. The assignation of place-names to forts and camps in scenes VIII-XXII was an extreme manifestation of the literalist approach. See CICHORIUS, 1896, 75, 78, 82, 86, 90, 92, 97, 102-3, 108, Fig.11-12; PETERSEN, 1899, 17, 20-4; STUART JONES, 1910, 442; DAVIES, 1917, 79-81; ROSSI, 1971a, 136-40.


31. See Dio, LXVIII,13-14.

32. In particular GAUER, 1977, 14-15, 48, Fig.1 who saw a vertical relationship between the two scenes. No amphitheatre is known at the site of Drobeta. KOEPPEL, 1979, 369 accepted vertical correspondence but not the 'topographical programme' which Gauer drew from it.

33. For the treatment of scenery see STUART JONES, 1910, 439; LEHMANN-HARTLEBEN, 1926, 135; HAMBERG, 1945, 108-9; TURCAN-DÉLÉANI, 1958, 161-8; BONANNO, 1976, 69; GAUER, 1977, 22-3, 42-5; STRONG, 1980, 151; ROSSI, 1980, 182, Pl.56 goes too far in attempting to identify scene CXLIX, consisting of trees, water and a boar with a
lake site in northern Romania.

34. Dio, LXVIII, 13; Procopius, Buildings IV, 6, 11-7; John Tzetzes, Chiliades II, 34 (literature); R.I.C., II, Trajan, No. 569, Pl.X.188; Belloni, 1975, No. 355-9; Florescu, 1969, Fig. 70 (coins); Hărăciu, 1966 (archaeological remains). See also Turcan-Deléani, 1958, 150-5; Bandinelli, 1958, 477; Tudor, 1968, 60-72; Strobel, 1984, 204-5.

35. Not assured from the structural point of view but Dio, LXVIII, 14, 1 unequivocally states that Trajan crossed his Danube bridge at the start of the second war. The sculptor’s inattention to obvious detail so soon after the fine bridge depiction in XCIX is of interest and similarly flimsy timber bridges on a relief on the Villa Medici facade (Cagiano di Azevedo, 1951, No. 40; Koeppe1, 1985, No. 13) and on the Arch of Benevento (Hassel, 1966, Pl. 13) have also been identified as the Danube bridge.


39. A review of the literature identifying Salona and a full discussion of the problem may be found in Clairmont, 1975, 26-35. See also Turcan-Deléani, 1958, 155-61 for the buildings depicted.

40. See Stucchi, 1960, Fig. 1-2 for maps plotting various itineraries.


43. Ibid., 63-88, 116.

44. Traditionally, scene XLV has been interpreted as showing Roman prisoners being tortured by Dacian women (Frohner, 1872-74, 10; Cichorius, 1896, 179-83; Petersen, 1899, 49-52; Stuart-Jones, 1910, 438; C.A.H. XI, 227; Vulpe, 1979; Rossi, 1971a, 156; Cisek, 1983, 305-6). This has been credibly challenged by Gauer, 1977, 26-8 who reversed the identifications. Roman prisoners still in the hands of the barbarians after a supposed Trajanic victory hardly redounded to the greater glory of emperor and army. It would have been out of step with the propaganda programme of the frieze and worked better as Dacians being tortured in stark contrast with Romans being rewarded (see Lehmann-Hartleben, 1926,
2.3 The Column as Propaganda Monument

1. In describing the Forum of Trajan with its decoration of military
signa, Gell., Noct. Att. XIII, 25, 1 records the monumental inscription, EX MANUBIIS.

2. On the senatorial dedication and financing of monuments see HASSEL, 1966, 3-5.


7. Pliny, Pan. 13, 1.


9. Spear: IX, XVI, XVIII, XXIV, XXV, XXVII, XXX, XXXV, XXXIX, XLII, L, LI, LII, LXII, CIV, CV, CXX. Sword: X, XII, XIV, XX, XXXVI, XL, XLIV, LX, LXII, LXIII, LXIII, LXXIII, LXIV, CXXV, CXXVIII, CXXVII, CXXVIII, CXXXVII, CXXXVIII, CXXXVII.


12. For the identification of these and other personalities see BONANNO, 1976, 72-4; GAUER, 1977, 60-5.

13. See Dio, LXVIII, 9, 2; 15, 3-6; 16, 1 (P. Licinius Sura); 8, 3; 32, 4-5 (Lusius Quietus); S.H.A., Hadrianus 3; C.I.L. III, 550 (Hadrian). Other important figures included Claudius Livianus, Laberius Maximus and Q. Sosius Senecio (Dio, LXVIII, 9, 2; 9, 4; 16, 2). For the roles of these personalities see SYME, 1958, 35; 1971a, 247-8; PETERSEN, 1968; JONES, 1971; STROBEL, 1984, 62-80.

14. XXXIII, XXXIX, XLVII, XLVI, L, LXI, CIII, CXXXVII. Occasionally the emperor facing down the spiral is not significant in this respect (VIII, IX, XVI, CIII, CXIV).

15. X, XXVII, XLII, LI, LXIV, LXXIII, LXXVII, CIV, CXXXVII. For military adlocutiones see CAMPBELL, 1984, 69-89.

16. IX, XXVII, C, CLI. The more ethnographic 'labels' which could be quoted the more glorious the war or diplomatic success. See, for example, res gestae divi Augusti 26, 4-5; 27, 2-3; 30, 2; 31-3
(Augustus); C.I.L. VI,920 (Claudius). I.L.S. 986 is a fine example of a governor's achievements in diplomacy in the Danubian theatre. Dio, LXVIII,15,1 records embassies to Trajan from peoples as far east as the Indi.

17. XII, XVI, XX. Choice of camp-site by the commander often appears in senatorial literature (e.g. Tac., Hist. II,5; Ag. 20; Pliny, Ep. VIII,4).


22. For coins advertising Concordia and Fides, and their propaganda significance see R.I.C. II, Trajan, No.439; BELLONI, 1973, No.4, 25, 201-2; HAMBERG, 1945, 45-7; SCHEIPER, 1982, 88-9, 92.

23. For the literary tradition, and its distortion in favour of Trajan, contrasting with Domitian's treatment, see C.A.H. XI, 200-1; SYME, 1958, 36-7; WATERS, 1969, 285-7.

24. Some building work, such as the restoration of the Circus Maximus, would have had great public impact and careful choice of architectural and social munificence was made for coin issues. See R.I.C. II, Trajan, No.145-6, 246, 255-7, 266-7, 463, 469, 471, 569-78, 630-2, 636-41, 654; BELLONI, 1973, No.49, 124-5, 127-9, 136, 183, 194, 264-6, 268-9, 352-77, 382-4, 387-9, 417, 424-8, 432-3, 437-45; WATERS, 1962, 402-3; PENSA, 1969-70; SCHEIPER, 1982, 198-202, 231-6. For games and the circus see Pliny, Pan. 51; Dio, LXVIII,10, 2, 15.

25. A very expressive phrase coined by Tiberius (Suet., Tiberius 25,1).

26. Referred to by Pliny, Pan. 6,1-2; Dio, LXVIII,3,3. See DURRY, 1938, 378; 1954, 1609; C.A.H. XI, 196; SYME, 1958, 10; CAMPBELL, 1984, 45. These events may have influenced Tacitus' account of Otho whipping up the praetorians against Galba (Tac., Hist. I,38; SYME, 1958, 153-6).

27. Dio, LXVIII,5,4.

28. Pliny, Pan. 18,1,3; 34,2.

29. DURRY, 1938, 61; PASSERINI, 1939, 55; SPEIDEL, 1965, 91-2. The stationing of legio II Parthica at Albano near Rome by Severus may
have had a similarly political motive. On the other hand,
SCHLEIERMACHER, 1984, No.23 suggests a Domitianic foundation of
the equites singulares Augusti.


31. Pliny, Pan. 13,2; 19,3. At the same time (13,3) the emperor
inspects the tentoria of his commilitones and perhaps this is
relevant to the frequent depiction of tents on the column (see
4.7.4).

32. XI-III, XV-XI, XXIII, XXXIX, LII, LVI, LX, LXV, LXVI, LXVII-IX,
LXXIII, XXII, XCVII, CXVII, CXXV, CXXIX.

33. This encompassed the hundreds of military building inscriptions
surviving from forts, towers, bridges, linear fortifications and
intramural buildings all over the empire. Public buildings all
carried monumental inscriptions which advertised the builder and
benefactor in perpetuity.

34. Bridge-building was presented as a glorious feat in literature and
on coinage: Caes., B.G. IV,17; VI,9; Tac., Ann. XV,9; Pliny, Ep.
VIII,4; Dio, LVIII,13; R.I.C. II, Trajan, No.569-70; BELLONI,

35. IV, XII, XIV, XVII, XIX, XXI, XLVIII, L, LVI, LVII, XCII,
XCIII-IX, CI, CXXI. The type of light timber-frame bridges seen
on the column also occur in Trajanic sculpture on the Villa Medici
Dacian panel (KOEPPEL, 1985, No.13) and on the Arch of Benevento
(HASSEL, 1966, Pl.13). For a major examination of the sculptural
propaganda programme on the latter monument see FITTSCHER, 1972.

36. IV, XLVIII, XCIII-IX, CI.

37. XXIV, XL, LXVI, LXXII.

38. LXX, XCIII, CXIII, CXV.

39. XXXVI, LVIII, LXXXIX, CII.

40. XXXVII, XL, CXIII-IX.

41. I,1-4; XI,12-3; XXI,8; LXVIII,9, 11, 13, 15, 17; CVII,4; CIX,4;
CXVIII,1-3.

42. II,1-2; XXXIII,1-8; XXXV,1-7; XLVII,1-4; CVII,1-3, 5; CXXIV,2-4.

43. Notably FROEHNEN, 1872-74, 4, 16; CICORUS, 1896, 90, 118, 131,
136, 158-9, 164, 178, 202-3, 205-6, 209, 227-8, 243, 250, 278,
284, 291, 354, 368-9; 1900, 56, 79, 90, 119, 130, 132, 165-6,
171-2, 181-2, 193, 222, 276, 284; PETERSEN, 1899, 9-11, 15-6, 55,
69; PARIBENI, 1926, 259; LEHMANN-HARTLEBEN, 1926, 67; RICHMOND,
1935, 7-8; DURRY, 1938, 199-200; ROSSI, 1971a, 105-8. In fact
these identifications permeate the literature.


46. SPEIDEL, 1984, 33.

47. All praetorian: XXXIII, XL, XLII, LIV, LXXV, LXXVII, LXXIX, LXXXVI, LXXVII, XCVIII, LXXV, CXXV, CXXVIII. All legionary: X, XXVI, XXVII, XLVIII, LXI, LXXXV, CXXV, CXXVII. Mixed types: IV-V, VIII, XXIV, LI, LIII, LXXII, CIV, CVI.

48. Tac., Ag. 35.

49. Auxiliary 'atrocities' were recorded by Jos., B.J. V,550-3. Legionaries were also implicated. Severed heads appear with citizen troops in scene CXIII. Skulls found at Newstead (Rox.) may represent the continuation of Celtic head-hunting practices (Diodorus Siculus, V,69) by auxiliaries in the Roman army (BREEZE, 1982, 68).

50. For the taking of Decebalus' head and its display on the Gemonian Steps in Rome see SMALLWOOD, 1966, No.20; SPEIDEL, 1970, 149-51. The public display of bodies here after execution is recorded by Suet., Tiberius 53, 62, 75; Vitellius 17; Tac., Ann. VI,5, 9; Hist. III,74. Presumably some contrast is being drawn on the column between the romanitas of citizen troops and the less civilised habits of auxiliaries. Considering the mass-slaughters in gladiatorial displays this might seem hypocritical in modern eyes but a parallel contrast between public image and actual practice may be found in the taking of native heads as trophies by European troops in 19th-20th century African colonial wars.

51. Dio, LXVIII,8,3; 32,4-5 infers the presence of Moorish troops with Lusius Quietus in both Dacian Wars, but in any case these troops were commonly employed in the Danubian theatre during the 2nd to 3rd centuries A.D. (see 5.11).

52. XXIV, LXVI, LXX, LXXII, CXIII, CXV.

53. XXIV, XXXVIII, XL, LXVI, LXX, LXXII, CXV.

54. For a selection of irregular troop types see Hyg., de mun. castr. I,8-11.


3 The Sculpting of the Column

1. For citizen troops these features are type of 'lorica segmentata', presence and types of helmets, presence or absence of sword, baldric, cingulum or apron, and type of shield blazon. For auxiliaries there are mail edging variants, presence or absence of zig-zag armour chiselling, presence or absence of baldric and
sword, type of shield carriage and blazon, helmet presence and type, and variants of tunic hem. Cavalry add details of horse harness. All of these features can have additional applied decoration and mistaken detail. Each type and variant of feature may be classified for all the 21 figure types to allow close examination of the incidence and distributions of details. 'Lorica segmentata' fittings have been classified into 26 types, helmets into 33 categories, shield blazons into 8.

2. With 20 items of information in all for each figure this gives 52,780 recorded variables. These were put onto file using Newcastle University's mainframe computer (Michage Terminal System) and sorted by report generation programmes very kindly written for the writer by Dr M.C. Bishop. A great deal of general help has been given in this data handling by Dr Bishop and by Dr B.N. Rossiter of the University's Computing Department.

3.1 Preliminary Work

1. For the use of models by ancient architects see Cicero, ad Q. Frat. II,6; Vitruv., Arch. X,xvi,3; GAUER, 1977, 76-7; COULTON, 1977, 72. For a surviving model see WILL, 1985. MARTINES, 1983 presents a study of the column's proportions.


4. Pers. comm. Dr N. Asgari. The writer is very grateful to Dr Asgari for her help in the study of material in Istanbul. Work had not been started on the spiral staircase in the Harmantaş drum but considering the early stage at which work was abandoned this is not surprising.

5. WARD-PERKINS, 1976, 348. Compare long shafts carved out of granite, a much more homogeneous material, for the Pantheon (11.56m) and the Column of Pius (14.89m).

6. The obelisk in Piazza del Popolo is 24m long whilst that in Piazza S. Pietro is 25.5m. For their transport by ship see MEIGGS, 1960, 292-3.


8. Similarly, sarcophagi were hollowed out to reduce their weight in transit. Smaller examples were even carved in pairs for ease of handling to be cut apart on arrival (WARD-PERKINS & THROCKMORTON, 1965, 208-9).

10. Basilica Ulpia use: BLAKE, 1959, 83. For marble-carrying ships and barges see Pliny, N.H. XVI, 202; KAPITAN, 1961; CASSON, 1965, 32; WARD-PERKINS & THROCKMORTON, 1965; VIERECK, 1975, 150-2; MANNONI, 1985, 133-4. Marble-carrying craft are figured on the base of a statue of the Tiber river god in the Louvre (LE GALL, 1944b, Fig.2; CASTAGNOLI, 1980, Fig.11).

11. For the land transport of marble see BURFORD, 1960; ORLANDOS, 1969, 21-9; WARD-PERKINS, 1971b, 533-4; MANNONI, 1985, 111-21. For the use of cars and carts Juv., Sat. III, 254-8; VAN HOVE, 1987; MACDONALD, 1982, Pl.127 (Bardo mosaic, Tunis); ADAM & VARENE, 1980, Fig.1-2 (Stabia fresco, Italy).


14. A possibility entertained by some scholars together with the idea that the column may have been erected elsewhere originally, and subsequently moved to its present position: GROH, 1925; LUGLI, 1946, 288; BLAKE & BISHOP, 1973, 17; ANDERSON, 1984, 155-8.


16. Statues and some types of sarcophagi were transported in blocked out or quarry state to avoid damage to sculpted detail in transit. See n.7. Some monumental sculptures, such as the Cancelleria reliefs, were evidently not executed in situ but were lifted up into place (see HASSAL, 1966, 35).

17. ANDRAE, 1977, Fig.387; ADAM, 1984, Fig.94 (Haterii relief, Domitianic). For cranes in general see ORLANDOS, 1968, 36-44; RUDER, 1975; ADAM & VARENE, 1980, 225-31, Fig.1-2, 8-14; MACDONALD, 1982, 160; ADAM, 1984, Fig.92-7.


19. For scaffolding in general see MEIGGS, 1982, 253; MACDONALD, 1982, 147-8, 156; ADAM, 1984, 85-9. It is well represented on the building site fresco in the Constantinian tomb of Trebius Iustus (CASALONE, 1962, Fig.4; ANDRAE, 1977, Fig.636; MACDONALD, 1982, Pl.130b; ADAM, 1984, Fig.181). The height of the column was not too great for wooden scaffolding to have stood under its own weight as may be shown by the frameworks which would have been used for the walls of such buildings as the Pantheon and the Basilica of Maxentius. Recently (1988) part of the interior of Hagia Sophia, Istanbul, has been scaffolded with wood up to the ceiling. An exact parallel to the column's scaffolding is provided
by a print of the early 19th century Vendôme monument in Paris which shows framework platforms and extraordinarily long ladders (COLONNA, 1988, Pl.89).

20. The Vendôme print (n.19, dating to A.D.1810) shows the scaffolding half dismantled after the spiral frieze had been completed. Later cleaning and repainting of the shaft (see 3.3.3) could have been carried out using a 'window-cleaner's' bench, lowered down from the balcony by ropes and tackle. This was done for study and photography in modern times, notably for measuring the entasis of the shaft (STEVENS, 1924, Fig.2), and on the Marcus Column (PETERSEN et al., 1896, 19).

21. For the types of tools employed see n.36 and for the entasis STEVENS, 1924, 146, Fig.16.

22. BACCHINI LEOTARDI, 1979, No.59, 99, 102 and pers. obs. at Portus in the area of the outer harbour.

23. DODGE, 1988, Fig.4.

24. Pers. obs. Although these are Hellenistic period temples they are important and relevant to this discussion because of their unusually unfinished state and their Roman remodelling.


26. HANFMANN, 1983, 2; HASSELBERGER, 1985, 114. On the Stabia building site fresco a man is depicted chiselling the top of a column (ADAM & VARENE, 1980, Fig.2).

27. Markings also occur on Pantheon pilasters, on columns reused on the Arch of Constantine and on shafts protected by reuse undercover in churches such as S. Giorgio in Velabro and S. Maria in Cosmedin (pers. obs. and CLARIDGE, 1983).

28. XIV, XXXVII, LII, LXII, LXVII, LXIX-XX, LXXVI, LXXIX-XXX, XCI, CXV, CI, CV, CX-XI, CXIII, CXV, CXVII, CXX-II, CXXVI-II.

29. V, XXIV, XXVII, XXXIII, XLI, LXI, LXII, LXXXVI-II, XCIX, CV, CXXII, CXXV, CLVII.

30. XXVII, XLVIII, LIII, LXI. A tree crosses the divider from scene CXLI.


32. See HASSAL, 1966, 35; LEPPER, 1939, 259. Workmen painting modern scaffolding around the column (1984) used polythene sheeting in this way to protect the torus from falling drops of paint (bright orange).

33. See ROCCHETTI, 1959, Fig.1005; MARTINES, 1980, Fig.1, 4; FARINELLA, 1981, Fig.4, 5. Compare HAMBERG, 1945, Pl.18, 34-5 with Pl.31.
34. Measurements of spiral band heights taken by the writer and ROCKWELL, 1981-83, Fig. 1, 5 confirm this.


3.2 Detailed Analysis

1. VIII, XXVII, XXVIII, LXII, LXV, LXXI, LXXXV, XCV, CIII, CVI, CVII, CX, CXI, CXIX.

2. IX, XVI, XL, LXXV, XCIV.

3. XI, XII, XVII-XXII, XXVIII, XLIII.

4. CIV, CV, CX, CXXIX, CXXXIV.

5. XXXIII, LXXVI, LXXXVI, C.

6. XI, XXIII, XXIV, XXXVI, XXXVII, XLIV, XLIX, LXI, LXII, XCIV, XVII, CXLII.

7. XLVII, LXIV, CVI, CXIII.

8. LXXI, LXXXI, XCI, CXXV, CLI.

9. XXIV, CIV, CXVI.

10. X, 24 and XI; XXIV, 22 and 24; XXXVIII, 1 and 3; LXI, 8 and 10; LXVII, 6 and 9, 8 and 10; LXXI, 15 and 16; XCI, 6 and 8; CXV, 11 and 14; CXXV, 1, 2, 4; CXXVI, 14 and CXXVII, 1; CXXXVII, 16 and 19; CXLV, 12 and 13; CLI, 1, 2, 3.

11. XXXVI, 1 and 2; LVII, 1 and 2; LXXXIX, 8 and 9; CXLII, 1 and 2; CXLIII, 3 and CXLIV, 1; CXLIV, 2 and 3; CXLV, 4, 6, 9.


13. CICHORIUS, 1896, 3-5 defined the division of scenes and their numbering which has been followed ever since with adjustments by LEHMANN-HARTLEBEN, 1926, 134 (and plates' scene numbering); GAUER, 1977, 42-5, 76.
14. Trees form 73 scene divisions, alone or in conjunction with rocks and/or buildings. They are noticeably absent in this role between scenes LXXII and XCI where architectural scenery is predominant. Trees were employed for the majority of divisions after CXII and almost exclusively in the last phase after CXXXI. Despite the convictions of LEPPER, 1969, 255, 257 and MEIGGS, 1982, 186-7 that the trees are oaks, many were too schematically rendered to allow or even have been intended to convey any botanical identification.

15. XV, XX, XXIII, LVI, LXVII, LXIX, LXX, XCVII, CXXVII. Shields are similarly cut off in scenes LXIX and CXXVII.


17. VI, VIII, XVI-II, XVIII, XIX-XX, XXVII, XXIX-XXX, XLII, XLVI-II, LI, LII, LIII, LVII, LXXIII-IV, LXXVII-XIII, LXXXIX-XC, CI-II, CIII, CV, CXXXIII, CXXXV, CXXXVII, CXLII.

18. X-XII, XXI, XXX, XXXII, XXXV, XXXVI, XXXVII, XXXVIII, XXXIX, XL, LVIII, LXI, LXIII, LXXX, LXXXVIII, CIII, CIV, CX-II, CXXI, CXXXII, CXXXIII, CXXXV, CXLII.

19. X, XXII, LI, LII, LIV, LXI, LXXIII, LXXV, LXXVII, CIV, CXXVII.

20. XLIV, XCIX, C.

21. XIV, XXIV, XXV, XL, LXVI, LXXII, LXXIX, LXXX.

22. XXXIII.

23. XXXV, XXXVI, L, LVII, LXXI, LXXXIX.

24. CXXIV, CXXV.

25. Central position: XCVII, CXXXV, CXXXIX, CXLVII. Figures ahead to the right LXXV; at the head of movement CXLV.


27. XXIV, LXV, LXVII, CXXI.


29. Cramped CV; empty LV, LXV, CI, CII, CXX.

30. For the grouping of human figures see LEHMANN-HARTLEBEN, 1926, 143-4; HAMBERG, 1945, 111-6; GAUER, 1977, 78-9, 81-2; ROCKWELL, 1981-83, 103-4.

31. XIV, 3-5; XXIV, 25, 26; XXXI, 18, 19, 22; LVII, 5-7; LX, 6, 10, 13; LXII, 14, 19, 20; LXIII, 10, 12, 14; LXV, 1-9; LXVIII, 9, 11, 13,
15, 17; LXXI, 16-20; LXXIV, 1-7; XCVII, 2, 4, 6; CXL, 1-3, 3; CXXXI, 1-12; CXXXVI, 13-16. Shields in scenes LXIX and CXXVII also fill up space. BANDINELLI, 1970, 250 observed that mounds of dead Dacians fulfilled a primarily space-filling function.

32. LEHMANN-HARTLEBEN, 1926, 43-50, 58-9, Plates A-K. A very similar phenomenon is seen on the Pompeii amphitheatre riot fresco which dates to A.D.59-79. The same figure pose of weight resting on one leg and one arm raised to strike is reproduced no less than eight times (PICARD, 1970, Pl.XLIII; WARD-PERKINS & CLARIDGE, 1976, 35).

33. Similar poses LXX, LXXI, CXLII; alternating poses XL, LIV, CVI, CXLVIII; alternating figure types X; shield patterning XIII, LXII-LXXV, CXLVIII.

34. X, XXII, XXIV, XXXVI, XLII, XLIX, LIV, LXXII, LXXXV, XCVIII, CI.

35. XXVI, 11; XLVIII, 13; LXII, 8; CVIII, 21; CXIII, 5; CXXXI, 14.


38. This is seen on the Arch of Titus ferculum relief (ANDREAE, 1977, Fig.395; PFANNER, 1983, Pl.54) and on some Arch of Benevento panels (HASSEL, 1966, Pl.6-8), in addition to the Great Trajanic Frieze (KOEPPEL, 1985, No.9-12). In contrast, many, but not all earlier reliefs have their figures standing on the same level, as on the Ara Pacis (ANDREAE, 1977, Fig.271-3), the Claudian Louvre praetorians' relief, and the Cancelleria reliefs (KOEPPEL, 1983a, Pl.43.1; 1984, No.7-8). For a very clear discussion of these perspective modes see KOEPPEL, 1982b.


40. Unconvincing not so much on the grounds of probability, Sura at least was a leading figure who might have been depicted, as on the recognisability of faces. Damage to the stone combined with many hands at work and modern ignorance of the personalities' actual facial features (the attribution of busts in sculpture collections to historical personages is a very subjective pursuit) conspire to nullify identifications on the column (see 2.3, n.12). Dio's comment that Hadrian was the first emperor to wear a beard (LXVIII, 15,5) has unaccountably lead art historians to be surprised at the presence of beards on the column, ignoring the wearing of wispy beards by Nero and Domitian and a full beard on Cancelleria Relief A (KOEPPEL, 1984, No.7, Fig.11.14). See BONANNO, 1976, 75-6.

41. LXXV, 65; XCIII, 267; CXXXV, 2; CXXXIX, 4; CXLV, 11; CXLVII (head). See

42. For example XXXII, 14; XXXVIII, 22, 24. See CICHORIUS, 1896, 190; VULPE, 1963a, 235-6, Fig. 2; COLONNE, 1976, 69. For photographic distortion see the 'Mongolid' Sarmatian (XXXVII, 10) in MAENCHEN-HELFEN, 1973, Fig. 12c. The Sarmatian peoples were caucasian Iranians (see 5.14).

43. See CXIII, 20; CXV, 3; CXLII, 1, 2, 4; CXLV, 1, 4, 6; CXLVI, 2, 4, 6, 9.

44. Out of 118 auxiliaries in fighting poses only 3 are helmetless, and 5 out of 179 citizen troops in construction stances wear helmets.


46. GAUER, 1977, 48, Fig. 1 claimed a vertical relationship between scenes LXXVII and CXXXVII. For acclamatio identifications see 2.3., n. 18.

47. Types 1 and 2 on spirals 2-6, with scene LXXXV as an outlier on spiral 12; Type 7 confined to spirals 15-17; Type 8 on 1-2; Type 10 on 14-15; Type 20 on 2-8; Type 21 on 17; Type 26 on 5-6, 8-9 with outliers.

48. XCV, XCVI, CIV, CIX.

49. Types 3, 4, 6, 8, 9, 12, 13, 15, 16, 19, 22, 26.

50. Types 1, 5, 17, 18, 23, 24.

51. XLV, LVI; XLII, XLIX.

52. LXVI, LXXII, LXXIII, XCVIII, CII, CIV, CVI, CVIII, CXIV, CXV.

53. II, X, XIII, XXI, XXII, XXIV, XXVI, XXVII, XXXIII, XXXVII, XL, XLI, L, LV, LXII, CVI, CXXXIII, CXLVII.

54. XLI, 10; LXII, 14; LV, 2; LXVI, 30.

55. CXVIII, 22; CXLI, 9.

56. The varying of oval shield blazons is particularly clear in scenes XXIV, XXXII, XL, XLII, LXVI, CXV-VI, CXVIII, CXLV, CLI-II.

57. XIV, 3; XVIII, 13; XXIV, 52; XXXIV, 1; XXXVII, 21, 25; XL, 23; XLII, 7; XLIV, 4, 10, 13; XLVI, 1, 2; XLVII, 4; LXII, 13, 14, 18, 19; LXXIV, 7; CXLV, 3, 5; CXLVI, 4, 6; CXLVIII, 11, 12, 15, 19.

58. XVIII, 4; XLII, 23; XLIX, 9, 13; LIV, 1, 3, 7, 14, 20; LXII, 7; LXVIII, 11; LXIX, 4, 5, 24, 29; LXXXIX, 2; CII, 1, 2; CXXXVII, 2, 5, 8, 11, 15; CXLVI, 1; CLI, 2.

60. XXVII, 6; CVI, 7, 10, 13-15, 17, 19, 21, 23, 24, 26; CXLVI, 1, 4.

61. XXI, 6; XXII, 9, 11, 13, 18; CXIII, 1, 2.

62. LV, 9; LXII, 2; LXIII, 6; LXVI, 10, 12, 15, 24.

63. V, 1; XXI, 2, 4, 5, 9, 10; XXII, 19; XXIV, 18, 22, 30, 31, 33, 37, 45; XLII, 1; LIII, 21; LIV, 7, 14; LXXII, 4, 5, 24, 27, 29; XCV, 13; CXV, 10-12; CXXXIX, 5; CXXXVII, 14, 16; CXLV, 13; CXLVI, 9.

64. XXIV, 2; XXXII, 10, 17, 18; XXXV, 4; XLVII, 2, 6, 8, 9, 11; LXIV, 2, 9, 10, 12; LXXII, 1, 12, 14, 15, 18, 22, 30, 34; LXXIII, 13, 17, 19; LXXXII, 16; LXXV, 1; CXIV, 14, 20; CVI, 28; CXVI, 15; CXXXII, 6, 10; CXLII, 1; CXLIII, 2.

65. XXXVII, 3-8; LII, 6; LXXXVI, 1, 4; CXXXIV, 4; CXXXVII, 11; CXXXVIII, 2.

66. Scenes XIII and XXVI are exceptions.

67. XII, 1; XVIII, 5, 9; XXVI, 11; LXIII, 6; LXIV, 12; LXVII, 2; CXIII, 1; CXXIX, 3.

68. LXV, 9; CXII, 15; CXXXIII, 5.

69. Work was carried out on the sets of casts in the Museo della Civiltà Romana, E.U.R., using the raking light of a torch to pick up mail chiselling which was already almost lost to erosion when the casts were produced. This was compared with a study made of the column's surviving mail chiselling in 1984.

70. For example X, XXIV, XLIV, LXXVII, XCV, CL, CLI.

71. IV?, V?, XVIII, XXI, XXXII, XXXIII, XLIII, L, LXXVII, C, CIV?, CV, CVI, CIX?

72. LIX, 9; CXII, 15; CXXXIII, 5.

73. VII, 3; X, 4; XI, 12, 13; XIV, 4, 5; XXIV, 22, 45; XXXII, 2; LXXVII, 8, 12, 15; XCVII, 5; CXIII, 5; CLI, 2; CLII, 7; CLIII, 2, 3.

74. XXVI, 13; XXXVI, 21; LXXVII, 5, 8, 12; CXIII, 5, 15; CL, 1.

75. In particular LXXII, 6-11; CXXXVII, 2.

76. XXIV, 52; XXXVII, 23; XL, 42; LXXI, 13, 29; LXXII, 18, 21, 28, 30, 33; C, 2; CXXI, 13; CLI, 9.

77. LII, 12, 19; CIII, 19; CIV, 15.

78. Citizens: LX, 17; LXVI, 19; CXXXIII, 4; CXLVII, 1. Auxiliaries: XXIV, 25; XXXIII, 1; LXXVII, 1; LXXIV, 7.

79. Roman: X, 10; XXI, 8; XXV, 5; XXXV, 3, 5; XLVI, 1; LVI, 1; LXXI, 17; LXXXII, 4; LXXXVII, 2, 6, 10; LXXVIII, 4, 5; CXI, 3; CXIII, 18; CXXVI, 1, 2, 4, 5, 12; CXXXI, 7; CXXXIV, 10; CXLII, 2; CL, 2; CLI, 1;
CLII, 6. Dacian: XXIV, 3; XXIX, 10; XXXVII, 6, 9, 16; LXI, 6; LXVI, 37, 51, 52; LXVII, 2, 3; LXXI, 16, 18, 22, 23; XCIII, 1, 8, 9, 20, 32; XCVI, 4; CXXVII, 4, 5.

80. XXVI, 97; LXII, 97; CVI, 36; CVIII, 21, 23.

81. XXVII, LI, LXXVII.

82. LXX, 13, 17-22; LXXII, 13, 4; LXXII, 21, 22, 32-4; CXV, 21, 23, 25, 29; CXXI, 17; CXXII, 3, 5, 6, 8, 11, 13, 16, 19, 22, 23.

83. Long IV-V; short VII-XXX; very short XXXII, XXXVI, XXXVII, XL, XLII, XLIV, LIV, LXXI, CIV, CXXVII onwards.

84. XXVII, 11, 12, 13, 15; L, 4; LXXI, 6-11, 15; LXXII, 24, 26; CVI, 5, 12; CXXVII, 2; CXLVII, 1.

85. XXXVII, 4, 9-11.

86. IV, 3, 4, 8, 14; XXI, 6, 7.

87. XXXI, 9, 10, 11, 13, 17, 18; XLIX, 2, 5, 21; L, 5; LXXII, 9; LXXXV, 24, 28; CXV, 8; CL, 1.

88. Moved boss XX, 4; XXV, 5. Squeezed blazons CIV, 20, 24-6, 28, 30, 31.

89. XC, 7. Two are on end in LVI.

90. XXXVII, 2; XCIII, 21; CXV, 1.

91. See LEHMANN-HARTLEBEN, 1926, 147-8; RICHTER, 1950, 147-8; STRONG, 1980, 144; ROCKWELL, 1981-83, 102-3, 105. Presumably those inserts which were provided corroded away over time. It is unlikely that the relatively unrewarding task of robbing them was occasioned by the despoiling visit of Constans II in A.D. 663 (LANCIANI, 1899, 124-5).

92. I, 1-4; XI, 12; XIII, 2, 5, 7; XVIII, 5; XXI, 8; LXXII, 2; CXLVII, 1. In the cases of XIII, 4; CXIII, 2 stone shafted weapons were provided for men in the leaning pose.

93. XXVII, 40; XXXI, 13; XXXVII, 1, 3, 10, 13; LXX, 6.

94. XI, XV, XX, XXIII.

95. LII, LVI, LXVI-VIII.

96. Metal LXXVI; Stone XCVII; both LXIX, LXXII, XCII, XCVI.

97. Stone XVI, XIX, XXXIX, LX. Metal XII, XVII, LX.

98. XIII, XXVII, LXVI, CXIII-IV.

99. Especially XXXVIII, 26; LXII, 8; XCIV, 6; CVIII, 21.

100. Standards across the dividing band: XXVII, 8; XLVII, 8, 9, 11;
LI, 19, 21, 24; LXI, 12. Scaled down standards: CVIII, 25; CXIII, 3, 4; CXXIII, 14, 17.

101. Metal exceptions: LXXXVIII, 2; CVI, 25, 36; CVIII, 21, 23; CIX, 1.

102. GAUER, 1977, 48, Fig. 1.

103. Ibid., 17, 48, Fig. 1; KOEPPPEL, 1980, 301-2.

104. GAUER, 1977, 19, Fig. 1.

105. Ibid., 46, Fig. 1. Following LEHMANN-HARTLEBEN, 1926, 145.

106. GAUER, 1977, 48, Fig. 1.

107. IV, IX, XXXIV, XLIV, XLVIII, LXXV, LXXVII, XXIX, XCI, CIX, CX, CXX, CXXIX, CXXXVIII, CXL, CXLV, CXLVII.

108. LXIV, C, CLI.

109. IV-X, XLVIII-LIV, CI-V.

110. GALINSKY, 1975, 83-4. A good example of a common theme is the series of scenes depicting episodes of the Odyssey on different walls of a room, from the Esquiline hill (STRONG, 1980, Fig. 27-8; BRILLIANT, 1984, 59-60).

111. GALINSKY, 1975, 86-8, 113-9; LEHMANN-HARTLEBEN, 1926, 118-9; BRILLIANT, 1984, 53-89.


113. VII, XXI, XXVI, LV, LVII-III, LXII-III.

114. A very close comparison may be made between the use made of these narrow spaces on the column and the narrow reliefs around the base of a statue of the personified Tiber in the Louvre. The latter was found in the Campo Marzio and its reliefs depict water deities, tower-like buildings and palisades, light river craft being loaded and pastoral scenes. The statue may be Hadrianic making it close to the column in date as well as provenance and relief content (LE GALL, 1944a; 1944b).

3.3 Sculpting and Composition

1. For the organisation of building projects see LEON, 1971, 22-5; MACDONALD, 1982, 141-5; LING, 1985, 14-5. The role of Apollodorus is discussed in 4.2. Like the Arch of Benevento, the column was a senatorial project. Presumably this fact bore on the financing of the work and perhaps on the patronage of particular subordinate architects and sculptural workshops, but the imperial direction and supervision of propaganda content is likely to have been very close (HASSEL, 1966, 3-5; LEPPER, 1969, 250-1; BURFORD, 1972,
2. Sculptors and the division of work are examined by Leimann-Hartleben, 1926, 144-54; Bandinelli, 1938-39; 1970, 229, 238; Gauer, 1977, 76-86; Rockwell, 1981-83, 103-5.

3. Gauer, 1977, 78-81, Fig.3. He took issue with the view that design and execution were uniform processes, as proposed by Leimann-Hartleben, 1926, 111, 146. The latter admitted many hands at work but only one overall master.


5. This edging is preserved on VI, 6, 8; IX, 2-4; X, 2-3; XII, 6, 8, 9; XVIII, 6-8; XXIV, 27; XXV, 3; XXVIII, 2; 4, 6; XL, 30; L, 7; 8; LI, 13; LX, 3; LXVIII, 16, 18; CXVIII, 3-5; CXXIII, 16, 19, 20; CXXX, 1, 3.
There is some correlation between mail and pteruges chiselling. Only in LI are pteruges, but not mail, tooled, whereas both occur together in IX, X, XII, XXIV, XL, LXI, LXVIII, CXVIII, CXXIII, CXXX; neither in XIV, XVI, CV, CVI, CVII, CIX, CXXVII, CXI.
Mail but not pteruges is chiselled in XVIII, XXVI, XXX, XXXV, XXXVI, XXXIX, XLIV, LXIII, LXVI, LXXII, LXXIII, LXXV, XCVI, XCVII, CXIV. This suggests that work on pteruges was separate to scene-sculpting proper, like mail chiselling, but that it was less important than mail and even less assiduously applied, probably at the same time.

6. Davies, 1920, 4; Leimann-Hartleben, 1926, 146; Richmond, 1935, 3, 26; Toynbee, 1951, 15; Turcan-Déleani, 1958, 162; Rocchetti, 1959, 759; Hassel, 1966, 35; Lepper, 1969, 251; Bandinelli, 1970, 241; Gauer, 1977, 78; Strong, 1980, 151; Koeppe, 1980, 305-6; Toynbee & Wilkins, 1982, 246; Hannestad, 1986, 157. Significantly, the one commentator who discounted the use of detailed cartoons is himself a sculptor and has studied the original sculptures, rather than relying on casts and photographs (Rockwell, 1981-83, 104). The use of information conveying sketches between advisers and sculptors is certainly not discounted by the writer but this is quite different from postulating fully worked out cartoons for the whole frieze.

7. The writer is very grateful to Mr P. Rockwell for discussing this point by letter.

8. There is little evidence that volumina were illustrated in this way. The spiral nature of the frieze was a major difficulty in its early reproduction for antiquarian study, especially that by Bartoli, 1672 (see Corelli, 1980, 119-26; Monti, 1980, 69-83; Scheiper, 1982, 158-81).


10. See Clarke, 1978, 153; Bishop, 111, Fig.1.
11. There is some difference of opinion as to whether the incised drawings on the walls of the Temple of Apollo at Didyma (Turkey) were full architects' plans (HASELBERGER, 1985, 121-2) or just sketches used by architects to work up specific designs in detail whilst otherwise relying upon rules of proportion and modular planning (COULTON, 1985, 103-8). See also Vitruv., Arch. I,ii,2.

12. Contemporary shipwrights working on traditional wooden vessels in the Mediterranean are in mind here (SEVERIN, 1985, 35-6).

13. RICH, 1947, 271-8; STRONG & CLARIDGE, 1976, 202-3, Fig.332-3; PINKERNEIL, 1983, 264-10.

14. For taille directe see RICH, 1947, 263-8; BATTEN, 1957, 12-16. Sketching directly on the stone surface would have helped in the composition of large scenes and in consultations between sculptors and frieze organisers, but this is very different from working from cartoons or pattern books. Such a direct sketch on a plastered wall for a fresco of Laocoon survived at Pompeii (BANDINELLI, 1970, PI.249).

15. The richness of detail has always impressed commentators to the extent that few have taken an over-view of the whole project. This is in part due to the form in which pictorial publication of the frieze has necessarily taken, a lineal sequence breaking up all the vertical relationships. RICHMOND, 1935, 1-3 denied historical content for the frieze beyond a basic chronological framework of events but was convinced of the accuracy of small details of equipment and scenery. Unfortunately his successors have been equally enamoured with the richness of sculpting and have ignored his valid first conclusion whilst uncritically accepting his flawed second.

16. See AMICI, 1982, Fig.125-6, 145.


18. For the dominating bulk of the basilica overshadowing the column court see AMICI, 1982, Fig.145, 148.


21. Not surprisingly sculptures from tombs are the most likely to retain their polychromy, especially in arid regions. This applies to a certain amount of Palmyrene and Hatrene sculpture (GHIRSHMAN, 1962, PI.90, 98; COLLEDGE, 1976, 118-20). A few pieces in the west retain paint (BLANCHET, 1924) but where coarse stones required a gesso layer before painting it is even less likely to survive (e.g. COULSTON & PHILLIPS, 1988, No.17, 88, 122, 514). Some sarcophagi from Rome have traces of colour and gilding, notably the Acilia Sarcophagus, Museo Nazionale (HAMBERG, 1945, 105;

23. LISSA-CARONNA, 1986, 30-7, Pl.VIII-XVI.

24. Quite how much architectural decoration on Roman monuments was picked out in paint is not fully known. Perhaps full advantage was taken of the gleaming white of newly dressed marble surfaces to give buildings, especially triumphal arches, an even more imposing effect. However, figural sculpture at least would have been painted and traces of red have also been recognised on the Arch of Benevento (REUTERSWÄRD, 1960, 228). The restored paint on sculptures adorning medieval churches and Oxford colleges give some idea of the pleasing combination of natural stone and bright colours. Roman triumphal monuments would also have had glittering gilded statuary and inscriptions. The Arch of Constantine went even further and must have been a riot of colour with its purple porphyry veneering, its giallo antico columns and its bands of green Lacedaemonian porphyry.

25. XXIV, 62, 69; XXXVII, 3-5; XLII, 1; LVIII, 1; LXXII, 24; XCIV, 14, 20, 22; CVII, 4; CVII, 18; CXV, 7; CXV, 17; CXLII, 2, 3, 5; CXLIII, 1, 3, 4; CXLIV, 1-4; CXLV, 1, 4, 8; CXLVIII, 1; CLI, 5.

26. Similarly, battle sarcophagi, even more packed and confusing in their mêlée scenes than the column, would have benefited from polychromy which would have been especially effective where naked barbarians were locked in combat with armoured Romans. HAMBERG, 1945, 177-8, Pl.38, 40-1, 43 similarly attempted to colour code figures in such scenes.

27. It might be expected that gilding on statuary and paint on sculpture would have been renewed when an old building was restored (Codex Theodosianus XV, Title 1,15.19; 15.27). Whether or not such a large-scale undertaking as repainting the column was ever undertaken, especially after the 2nd century, is another matter.

4 The Sources of Information

4.1 Documentary


2. GAUER, 1977, 5.


5. SYME, 1929, 133-7; CAMPBELL, 1984, 153-4.

6. The mechanism by which Roman texts were circulated after writing are unclear. Gift-giving and lending of manuscripts to friends and social peers may be envisaged, together with lodging them in the public libraries of the capital (DUDLEY, 1968, 30). Quite how many copies of any given work would have been laboriously copied up is an open question.

7. SYME, 1958, 282-5; DUDLEY, 1968, 29; SHERK, 1974, 536-7; SCHEIPER, 1982, 36-40; CAMPBELL, 1984, 148-9. Ibid., 62, 150; Dio, LIII, 19, 2-6 underline the difficulties in the capital for writers to acquire reliable information about events on the frontiers.


4.2 Specialist Knowledge

1. Vitruv., Arch. I, i, iii, v; X, x-xvi. See CALABI-LIMENTANI, 1958, 77-8; BURFORD, 1972, 102-7; MACDONALD, 1982, 137-42. For a very versatile agrimensor with the imperial entourage in Dacia see SHERK, 1974, 541-2.


4.3 General Knowledge

1. In general see DAVIES, 1920, 2; HAMBERG, 1945, 16-7, 41-5; SUTHERLAND, 1959, 53-5; SCHEIPER, 1982, 6-36, 46-67; CAMPBELL, 1984, 142-8.


3. See Dio, LXVIII, 10, 2; 15, 1; II XIII, 226.
4.4 Troops in Rome

1. DURRY, 1938, 43-5; 1954, 1608; PASSERINI, 1939, 44-9.


3. DURRY, 1938, 77-89; PASSERINI, 1939, 44-8, 58-67 saw the praetorians as organised into cohortes quingenariae whereas KENNEDY, 1978 made a good case for cohortes milliariae at least as early as the Antonine period.


6. REYNOLDS, 1926, 15, 23-4, 71-5, 82-3; DURRY, 1938, 16-20. For an armed vigil in military dress on a stela see AMELUNG, 1903, No.128d; REYNOLDS, 1926, 98, Pl.VI.


10. CARCOPINO, 1956, 31; DUDLEY, 1968, 158.

11. If the cohortes praetoriae were cohortes quingenariae this would reduce the proportion to 1 in 88, still a high figure in terms of the publicly visible profile of troops in the capital.

12. For potentially armoured troops on public occasions see Tac., Ann. XII,56; Dio, LVII,8,2; LX,33; LXIII,1,3. A public decursio is figured on the Pius Column pedestal (VOGEL, 1973, Pl.9, 15). For armoured adlocutio audiences see R.I.C., Caligula, No.23-5; Galba, No.150; II, Domitian, No.288; Trajan, No.655-8.

13. Notably on the Arch of Benevento (HASSEL, 1966, Pl.18-22; ANDREAE, 1977, Fig.426-9; 1979, Pl.80-2) and the Arch of Titus (PFANNER, 1983, Pl.79-87). The triumphal frieze on the Arch of Severus in the Forum Romanum is exceptional in that armoured soldiers escort prisoners and booty (BRILLIANT, 1967, Pl.44-8).


15. Although Jos., B.J. VII,116-57 is unspecific it seems very likely
that praetorians and a few legionaries, but no auxiliaries, marched in Titus' triumph.


4.5 The Dacian Triumphs

1. There is some difficulty over whether formal triumphal processions were held at the end of each Dacian war. Dio mentions one at the end of the first war but only games of extreme duration after the second (LXVIII, 10, 2; 15, 1). On the other hand, Pliny mentions two triumphs (Ep. VIII, 4, 2). Whether or not a formal procession was held in A.D. 107, the games would have played up the triumphal imagery and involved barbarian prisoners, thus, would have supplied the column sculptors with good models for Dacian dress and equipment. So, for the purposes of this study, the writer has followed other commentators in referring to two triumphs (HANSLIK, 1965, 1083; BELONGI, 1973, xlv; STROBEL, 1984, 221). For the first triumph see MAZZARINO, 1978; 1982, 39-44.

2. See STRONG, 1926, Fig. 179-80; 1961, Pl. 31; HASSEL, 1966, Pl. 20.1; PFANNER, 1983, Pl. 54, 85.4; KOEPEL, 1983, No. 11; 1984, No. 4, 20; 1986, No. 44. Pliny, Pan. 17, 1-2 mentions barbarian arms and prisoners in Trajan's triumph. For depictions of triumphal processions in general see RYBERG, 1955, 141-62.

3. These are depicted on the Arch of Titus (PFANNER, 1983, Pl. 54, 81.1, 83.7) and on the Arch of Benevento (HASSEL, 1966, Pl. 20.2; 22.3. See also RYBERG, 1955, Fig. 50b). Another component of these triumphal friezes are men who may have been imperial heralds. They carry circular shields, are dressed in tunics and have a similar hairstyle to that worn by camilli (PFANNER, 1983, Pl. 79-83; HASSEL, 1966, Pl. 6-7, 18.1, 22). They are quite different in appearance from the soldiers present in the processions (RYBERG, 1955, 148).

4.6 Illustrated Manuscripts


2. Ibid., Fig. 1–2; DILKE, 1971, 102.

3. CICHORIUS, 1896, 236–9, Fig. 4; PETERSEN, 1899, 60; 1903, 64, 66; TURCAN-DÉLEANI, 1958, 165. For pits with stakes (lilia) used as approach obstacles see WEBSTER, 1969, Pl. XXV.a; Caes., B.G. VII, 73.


6. Notably the campaigns of Domitian's reign which opened up areas north of the Danube. Trajan's victory at Tapae (Dio, LXVIII, 8, 1) was foreshadowed by that of Tettius Julianus at the same spot (LXVII, 10, 2); T.I.R. L34, Budapest, s.v. 'Tapae'). For scouting and intelligence gathering see SPEIDEL, 1970, 148; SHERK, 1974, 534–43.

7. As is suggested by the list preserved from Trajan's commentarii in Prisc., Inst. Gram. VI, 13, and by both the Antonine Itinerary and the Ravenna Cosmography (DILKE, 1971, 112; 1985, 125–8, 174–6). The parchment map from Dura-Europos, supposedly originally on a shield, adds more topographical detail (DILKE, 1971, 112; 1985, 120–2; SHERK, 1974, 560, Pl. VII; REBUFFET, 1986). The manuscript maps used by Renaissance Spanish tercios moving up from Italy to Flanders form a very interesting parallel to Roman provisions, quoting as they did place-names and march-distances with a minimum of topographical conventions (PARKER, 1972, Fig. 11–2).


9. XXV, XXIX, LI, LIX, LXII–IV, LXXVI, XCI, XCVI, CVII, CXII, CXLVI, CL, CLI.

10. III, XXVI, XXVIII, XLIII, XLVII, L, LVII, LIX–X, LXXII, CI, CIV, CX, CXI, CXIV, CXIX, CXXVI, CXXXV–VI, CXL, CXLVIII.

11. VIII, IX, XXV, XLIV, L, LXII, LXVII, LXXXIV, LXXXVII, XC, CII, CXX, CXXXIII, CXXXV, CXXXV.

12. XI–II, XX, XXXIX, LI, LX, LXV.

13. XXVI, LXXIV, CXXVII, CXXXI, CXXXIII.
14. LVIII, LXIII, LXXXV, XCII, XCVIII, CII, CV, CVIII, CXXXVI.

15. See BRILLIANT, 1967, 223-5, 230-1, Fig.63-4, 70, Pl.61, 67, 77, 87; DILKE, 1971, 68, 101-2, 153-4, 171-2, Fig.32-3; 1985, Pl.9-12, 14, 16, 22-5; SHERK, 1974, Pl.III-VI, VII-IX; KOEPPEL, 1980, Fig.2, Pl.96. See also BECATTI, 1960, 21-4.

16. The Antonine Itinerary dates to the 3rd century, the Tabula Peuteringiana to the 4th and the Ravenna Cosmography to the 7th (DILKE, 1985, 113-20, 125-8, 174-6). None of the surviving maps or itineraries of practical use were military, with the exception of the Dura shield map (see n.7). This shows a coastal itinerary consisting essentially of place-names and distances between them around the eastern Black Sea coast. Roman troops had operated in the region for at least two centuries before the shield cover was painted and in any case the map was a private record, presumably painted after the journey had been made. All it really adds to itinerarium lists is a coastline. It may have been the type of itinerarium pictum in Vegetius' mind.

17. BANDINELLI, 1970, 240. It has been suggested that 5th century mosaics in S. Maria Maggiore, Rome, were directly modelled on Trajan's Column, especially scene XXX (CLEMEN, 1975, Fig.1-2). Caution must always be exercised when commentators project Late Roman material, such as manuscript illustrations, back into earlier periods.

4.7 Campaign Sketches

1. RICHMOND, 1935, 3.

2. Ibid., 4-5.


5. JONES, 1975, 2-3, 68-97; HOBLEY, 1982; JOHNSON, 1983, 56-66, 72-87, 97-102; WEBSTER, 1985, 175-84. These were winter quarters and administrative short-term bases for military units in the 1st-2nd centuries A.D., rather than permanent stations. Armies coalesced in the campaigning season, leaving the forts empty or attended by small detachments.


7. Sacrifice: VIII, LIII, CIII. Submission: XVII, XXVIII, XXXIX,
LII, LXI, LXVI, LXVIII, LXXV, CXXX, CXLI. Adlocutio: X, LI, LXXII, CIV, LXXV, CXXXVII. Generalship: XII, XVI, XX.

8. *X, XVI, LXVII, LXVIII.*

9. LXVI, XCVIII, CII, CX.

10. XI-II, XVI-VII, XVIII, XI, CVII-III, CX?

11. XI, XIV, XXIV, XXXII, XLVI, LXXIII, CII.

12. Most graphically openwork frames with diagonal members appear on the Lunt fort gateway (Warwickshire), HOBLEY, 1982, Pl.12.6-7, 10. For British and German reconstructions on paper see ibid., Pl.12.7-19; BREEZE, 1982, Fig.15, 22, 24; JOHNSON, 1983, Fig.55.

13. LI, LXXXIX, XCII, CVIII. For comparative combinations of post-pits at fort gateways see HOBLEY, 1982, 12.6-20; JOHNSON, 1983, Fig.51-4.

14. For barrack blocks see JOHNSON, 1983, 166-76; PITTS & ST.JOSEPH, 1985, 162-77; MAXFIELD, 1986, 61-6. With the sculptors' confusion of stone walls with turf and timber fort features it is unclear whether the panel over the gate in LI was intended to be of stone or wood (see R.I.B. 1935).

15. The term is employed by Hyg., de mun. castr. 53. Those on the column are planned out by POLLEN, 1974, Fig.26.

16. TURCAN-DÉLEANI, 1958, 166-7; JOHNSON, 1983, 50; WEBSTER, 1985, 174, Fig.28. Examples and their dates have been collected by LENOR, 1977, to which may be added MONNERET DE VILLARD, 1941, Fig.2.


18. XI, CIX-X, CXIII, CXXXVIII-IX.

19. XLIX, LXXV, LXXXV, XCII, CIII, CXXXIV.

20. Timber or timber-laced earth siege platforms were recorded by Caes., B.G. II,12, 13; VII,17, 22, 24; VIII,41; Jos., B.J. V,263-5, 466-72, 522-3; VI,149-51; VII,306. They survive at Masada in Palestine (YADIN, 1966, 220-3) and Dura-Europos in Syria (ROSTOVITZHEFF et al., 1936, Pl.XII).

21. RICHMOND, 1935, 19-20. See also JONES, 1975, 29-33, 68-74, 78-82. In many cases the turf actually acts as revetting for an earth or clay rampart, rather than composing the whole rampart structure.

22. XX, LX, LXV, LXVIII.

23. CICHORIUS, 1896, 60-2, Fig.8; 1900, Fig.16.

24. XI-III, XVII-XXII, XXVIII, XLIII, CIV, CVIII-IX, CXXIX, CXLVII.
25. LXXI, XCIII, CXIII–V, CXIX.

26. TURCAN-DÉLÉANI, 1958, 162.


28. RICHMOND, 1927, 14, 16, Fig.2–3, 5, Pl.6, 8. These were made of mortared bricks topping a brick-faced concrete wall, and not one made of masonry.

29. REBUFFET, 1984, Pl.I–VI.

30. For 'pila muralia' and the defence of marching camps see BEESER, 1979; BENNETT, 1982; JUNKELMANN, 1986, 205–7, Pl.71.

31. JONES, 1975, 88-9, Fig.39; HOBLEY, 1982, 234, Fig.12.6–19.

32. The writer examined this relief in the Palazzo basement in 1982 and to his knowledge it is unpublished. The amphitheatre is viewed obliquely in the 'map' perspective technique and is surrounded on three sides by a gabled portico. On the broken left-hand edge appears an elephant's trunk.

33. LEHMANN-HARTLEBEN, 1926, 39–50.

34. XI–II, XX, XXXIX, LX, LXV, LXVIII, CXXVII. Roads: LVI, XCVII.

35. FUENTES, 1988, 59.

36. CURLE, 1911, Pl.LVII,1–5; MANNING, 1976, No.76–7; JUNKELMANN, 1986, 203–5, Pl.69–70; ALLASON-JONES & BISHOP, 1988, No.82, Fig.72. For vigiles with dolabrae see REYNOLDS, 1926, 98.

37. Jos., B.J. III,95. See also Veg., II,25. For the Trebii Iustus fresco see CASALONE, 1962, Fig.4; ANDREAE, 1977, Fig.636; MACDONALD, 1982, Pl.130b; ADAM, 1984, Fig.181. This dates to the Constantinian period but the contemporary dress of the workmen and the empirical observation of small detail suggest that it is not influenced by earlier artworks. Even more interesting is the wicker basket carried in triumphal procession on the Arch of Benevento (HASSEL, 1966, Pl.18.1; ANDREAE, 1977, Fig.429). Baskets also appear on the Esquiline building scene fresco (LEHMANN-HARTLEBEN, 1926, Fig.8).


40. Dolabrae: XV, XXIII, LII, LVI, LXV, LXVII, LXVII–IX, LXXIII, XII, CXVII. Wood chisels: XII, XVI–II, XIX.

41. For example, on the Bardo Museum building scene mosaic (MACDONALD, 1982, Pl.127; ADAM, 1984, Fig.164), a stela from Ravenna (BANDINELLI, 1970, Fig.96) and a fresco from Pompeii (LIVERSIDGE,
1976, Fig. 262).

42. GOODMAN, 1964, 196-7; LIVERSIDGE, 1976, 160-1; GAITZSCH, 1979; GAITZSCH & MATTHÄUS, 1980.

43. XX, XL, XLV, LXVIII, CXXIX.

44. BREEZE, 1982, 85.

45. HOBLEY, 1982, Fig. 12.4. Portage of several turves on a short section of plank would have been more labour-efficient and the blocks would have been less likely to break up perhaps. Ibid., Fig. 12 does make it look as though wheel-barrows were used in the Lunt reconstruction.


47. Ibid., 22-8; SCHÖNBERGER, 1985, 461-4.


51. LEHMANN-HARTEBEN, 1926, Fig. 8 (Esquiline); PARIBENI, 1927, Fig. 16; ADAM, 1984, Fig. 90 (Terracina).


53. PLATNER & ASHBY, 1929, 350-5; BLAKE, 1947, 137-40; BUETIUS, 1978, 104-5, 179, Fig. 105, 170; COARELLI, 1980, 18-22; NASH, 1981, II, 104-16. The column stands very close to the course of the Republican wall and some stretches of these defences may still have been standing and visible in the vicinity whilst sculpting work was in progress (WAURICK, 1973, Fig. 1, 3).

54. That is to say marble sheathing was generally used for interiors whilst travertine or marble opus quadratum exterior skins were applied on major building types such as mausolea, temples, amphitheatres and basilicas. See BLAKE & BISHOP, 1973, Pl. 9, 11, 20-1; WARD-PERKINS, 1981, Fig. 7, 15, 28-9, 53; ADAM, 1984, Fig. 253.

55. BLAKE & BISHOP, 1973, 12-15; MACDONALD, 1982, 79, Pl. 77. The forum-basilica complex was largely constructed of marble or tufa opus quadratum with the significant exception of the brick-built libraries.

56. For the decoration in general see ZANKER, 1970; LEON, 1971; AMICI, 1982. Fragments of friezes associated with the complex were examined with full references by KOEPPEL, 1985, No. 9-50. The
Dacian statues have been thoroughly studied and catalogued by Pinkerneil, 1983, 124-247.

57. For Domitianic building activities and continuity into Trajan's reign see Waters, 1969, 402-3; Ward-Perkins, 1981, 73-95; MacDonald, 1982, 47-74; Anderson, 1983.

58. Rossi, 1968, 44. The actual inscription is I.L.S. 5863.

59. Orlando, 1966, 138, Fig.83; Ling, 1976, 211; Adam, 1984, 78-9. Cichorius, 1900, 129 suggested chalk-preparation for a road surface.

60. Adam & Varene, 1980, Fig.5; MacDonald, 1982, Pl.127; Adam, 1984, Fig.164.

61. Adam & Varene, 1980, Fig.2; Adam, 1984, Fig.88; Ling, 1985, Fig.24. See also Ling, 1976, Fig.345; Adam, 1984, Fig.522 for mixing on a stucco-working relief from Sens (France).

62. Adam & Varene, 1980, Fig.21; Adam, 1984, Fig.163.

63. Adam, 1984, 53-60. The use of clamps is most often revealed on standing monuments by the holes cut in to rob the metal during the Middle Ages. This may be seen on the Column itself (Fig.3), the Forum of Trajan's enclosure wall (MacDonald, 1982, Pl.83), and, most spectacularly, on the Hadrianeum and Temple of Pius and Faustina (Blake & Bishop, 1973, Pl.11.1-2).

64. For bricks and brick-faced concrete in general see MacDonald, 1982, 149-54; Adam, 1984, 157-63. Adam interpreted the blocks being handled on the Column as mud-bricks carried on hods (ibid., 84, Fig.177).

65. There is some dispute as to whether the exteriors of most brick-faced buildings were plastered, or just left bare. Mocsy, 1974, 107; Baatz, 1976, 10-28; Breeze, 1982, 61-5, 80; Schonberger, 1985, 394.


67. Baatz, 1974, Fig.6, 7, 10-12; Farrar, 1980; Breeze, 1982, Fig.8; Keppie, 1986, 37-8.

68. Veg., III,5; Richmond, 1935, 36.

69. Towers at Oberbieber, Meisenhof, Stefansturm and Zugmantel on the Taunus frontier in West Germany have been built with wooden balconies with diagonal cross-members (pers. obs.). See Baatz,
1976, 35-42, Fig.29-30; BREEZE, 1982, Fig.9 for reconstructions on paper. The writer is very grateful to Mr J. Bennett for transport to the above-mentioned sites.

70. DAVIES, 1917, 83. See Dio, LXVII, 7,4; LXVIII, 9,5. It is also true that some Dacian strongholds exhibit Roman influence in building techniques, such as the provision of opus signinum-lined cisterns (DAICOVICIU, 1963, 26; CONDURACHI & DAICOVICIU, 1971, 103; MACKENDRICK, 1975, 58). This is beyond the already strong Hellenistic influence manifest in the use of Greek masons' marks on ashlars.

71. XIV, XVIII, XXII, LXIII, CVIII, CXI, CXXXV.

72. Pediment XXV, XCI; arch LVIII; lintel LXIII, LXVII, LXI, CXI, CXVI, CXXVI; timber tower XCI; stone tower XCVIII, CXI, CXXIV; posts alone CXXVI.

73. Roman: XVIII, XXI, XXXV, XLII, XCI, XCVIII, CV, XIX, CXXXVII. Dacian: XXV, LXXVI, LXXXVI. Torched buildings: XXV, LVII, CXI.

74. FROEHNER, 1872-74, 9; CICHORIUS, 1896, 126-7; PETERSEN, 1899, 29-30; PARIBENI, 1926, 251; RICHMOND, 1935, 36-8; GAUER, 1977, 26; STROBEL, 1984, 176.

75. XXV, LVII, LXI, LXVII, LXX, LXXII.


77. ROSSI, 1971a, 169, 181; 1971b, 32.

78. DAICOVICIU, 1963, Fig.25; MACREA et al., 1966, Pl.35-6.

79. Ibid., Pl.40, 43.

80. DAICOVICIU, 1959, 321-2; 1963, Fig.5, 21; MACREA & BERCIU, 1965, 6-22; CONDURACHI & DAICOVICIU, 1971, 103; MACKENDRICK, 1975, 55-6; STROBEL, 1984, 44-5.


82. DAICOVICIU, 1963, Pl.VI; ROSSI, 1971b, Fig.4.

83. DAICOVICIU, 1963, Pl.IV; ROSSI, 1971b, Fig.2.

84. See Dio, LXVIII, 9,5; TURCAN-DIÈNANI, 1958, 167-8; CONDURACHI, 1982, 8-9; VATAŞIANU, 1982, 57-8.

85. Masonry known variously as 'polygonal', 'Pelasgic' or 'cyclopean' and where it occurs in the eastern Aegean region as 'Lesbian'. See BLAKE, 1947, 71-104; ORLANDOS, 1968, 127-34; BOETHIUS, 1978, 115-21, Fig.110-2, 115-21; ADAM, 1984, 112-4, Fig.235-8.
86. It is well drawn out by PETERSEN, 1903, Fig.3.

87. ROSSI, 1971b, 34.

88. ANTONESCU, 1980, Fig.9-10.


90. KOEPPEL, 1985, No.16; CONDURACHI & DAICOVICIU, 1971, 104.

91. For example, WARD-PERKINS & CLARIDGE, 1976, No.9-11, 13.

92. BOETHIUS, 1978, 23. The thatched hut of Romulus was maintained in its primitive form on the Palatine right into the imperial period and it may have served as a model of architectural simplicity (ibid., 28).

93. II, XXXIII, LXXIX, LXXXI, LXXXVI, LXXXVIII, C.

94. The most obvious examples of engaged temples are those in the Fora of Caesar, Augustus and Domitian (Nerva). Porticoes enclosing horti included the Forum Pacis and various Campus Martius monuments whilst theatres were numerous in the capital (scene LXXXVI). See LUGLI, 1946, Pl.V; COARELLI, 1980, 102-3, 236, 242, 255; WARD-PERKINS, 1981, Fig.6, 20, 30.

95. KOEPPEL, 1983b, No.12-3, 17, 25, 36, 37; 1984, No.21; 1985, No.4, 6, 8, 44-6, 50; 1986, No.1, 19, 24-6, 30, 32-3, 37-9, 43-4.

96. Apart from buildings and town walls this relief depicts trees, hills and a river. See STRONG, 1961, Pl.50; BANDINELLI, 1970, Fig.190.


99. XII, XIV, XV, XVII, XIX?, XXI, L, LVI?, LVIII, XCII, CI, CVII?. CXXXI. The fording of a stream by Roman troops in scene XXVI is so unusual because there are so many bridges depicted at all stages of Roman advances.

100. In Italy pontoon bridges of the type seen in scenes IV and XLVIII were thrown across the Bay of Pozzuoli at Caligula's behest and across the Po during the Civil war (Dio, LIX,17; Suet., Caligula 32; Tac., Hist. II,34). Both cases involved military forces (DURRY, 1938, 365).

101. For Italian bridges see BLAKE, 1947, Pl.20-5; COARELLI, 1980, 312-3, 322. The remains of the Drobeta bridge were examined by BÁRACILÁ, 1966; TUDOR, 1968, 60-72. Flimsy timber-frame bridges on the Arch of Benevento (HASSEL, 1966, Pl.13) and on the Villa Medici Dacian relief (CAGIANO DI AVEVEDO, 1951, No.40) have also
been identified as the Danube bridge.

102. LE GALL, 1944b, Fig.2-6; MEIGGS, 1960, 293-6; CASSON, 1965.

103. XXXIII, XXXIV, XXXV, XLVII.

104. VIÈRECK, 1975, 84-5, Sk.74, Pl.51-5.

105. MEIGGS, 1960, 291-3; VIÈRECK, 1975, 146-50, Pl.61-9; WARD-PERKINS & CLARIDGE, 1976, No.252. The stern figure head was called a cheniscus (Appian, Metamorphoses 11).

106. VIÈRECK, 1975, 35-7, Sk.10, Pl.5, 6, 20, 32. For liburnae operating off the Italian coast during the Civil War see Tac., Hist. III,77. The classis Flavia Moesica undoubtedly played an important part in the Dacian wars, but it may be coincidence, rather than specific information about the Dacian shipping, which made Tiber models fit in with the campaign practice. Practically all that is known about fleet involvement comes from the Column (STARR, 1941, 133-5, 187; KIENAST, 1966, 76; STROBEL, 1984, 105-6).

107. STARR, 1941, 53-4; VIÈRECK, 1975, 35-7, Sk.11, Pl.18-9; MORRISON & COATES, 1986, xvi-ii.

108. VIÈRECK, 1975, Pl.5, 8-10, 18-20, 63-5. However, the scaling down of ships in relation to their crews is seen elsewhere, ibid., Pl.22, 55, 58, 61, 71.

109. Pack animals: XVI, XLIX, CVI-II. Carts: XLVIII, LXII, LXXXVIII, CVI-11, CXXIX.


111. ADAM & VARENE, 1980, Fig.4; ADAM, 1984, Fig.88, 164; GUERRINI, 1982, No.47.

112. SCHOBER, 1923, No.105, 257, 263, Fig.182; G.R. III, Pl.XIV.1-2, XLII.1.

113. Tents: VIII, XII, XIII, XVII, XVIII, XXI, XXVII, LXXIV, LXXXV, CVII.

114. XXXIII, XXXIV, XXXV, LXXIV, LXXXV, CVII.


116. Pers. comm. Dr C. van Driel-Murray. For tent reconstructions see MAYES, 1980; JUNKELMANN, 1986, 207-11, Fig.12, Pl.64, 68. Hyg., dem. mun. castr. 1 gives dimensions. The walls of the Vindolanda tent are more than 1m high.

117. Ordinarily, perhaps, troops present for triumphs were given roofs
over their heads and even with what might have been an unusually
great influx of troops under Vitellius these men were crowded into
porticoes and other buildings (Tac., Hist. II,93). Guard units in
Rome would certainly have had tents for active campaigning (see
Hyg., de mun. castr. 6).

118. JUNKELMANN, 1986, 196-203, Pl.66. For a parallel to the satchel
depicted in scene IV see ROBERTSON et al., 1975, Fig.28.39.


120. Veg., II,25; III,24; Maurikios, Strategikon XII,2, 6. See MARSDEN,
1969, 179-80.

121. The evidence for these smaller artillery-pieces is discussed by

122. MARSDEN, 1969, 23, 31; BAATZ, 1974, 62, Fig.13-5.

123. Dio, LXVIII,9,3; 9,5.

124. AMELUNG, 1903, No.128, Pl.26; MARSDEN, 1969, Pl.1; BURFORD, 1972,
Pl.56; BAATZ, 1980, Pl.90.2.

125. CUNONT, 1926, Pl.XCVII; ROSTOVZEFF et al., 1936, Pl.XXIV.2;
BAATZ, 1966, Fig.17.

126. BAATZ, 1974, Fig.19.

127. Ibid., Fig.9.


129. MARSDEN, 1969, 184-5.

130. REYNOLDS, 1926, 83, 97; DOMASZEWSKI, 1967, 10; MARSDEN, 1969,
193-4.


132. POLLEN, 1874, 168; CICHORIUS, 1900, 228-32; PETERSEN, 1903, 91-2;

133. BANDINELLI, 1958, Fig.648.

4.8 Artistic Traditions

1. For 'continuous' Greek friezes see RICHTER, 1950, 129-32. A
painted register depicting Hercules' life at Pompeii (House of
Loreius Tiburtinus, 4th style) is 'continuous' by the standards of
Trajan's Column (PICARD, 1970, Pl.LV). The term 'kontinuierende
Stil' was coined by WICKHOFF, 1900, 111-3; 1912, 129-32. For
narrative treatment on the Column see STRONG, 1926, 184-5;
BANDINELLI, 1938-39, 332-3; HAMBERG, 1945, 131-2; BACATTI, 1960,
18-24; BRILLIANT, 1967, 219-20; PICARD, 1970, 17, 23; MALISSARD,

3. KÖEPPEL, 1985, No. 9, Fig. No. 16 (Great Trajanic Frieze); HASSEL, 1966, Pl. 1.1, 6-9, 12-5 (Benevento).

4. ANDREAE, 1977, Fig. 271-3 (Ara Pacis); PFANNER, 1983, Pl. 45, 54 (Arch of Titus).

5. Even with such works as the Arch of Titus panels, the Great Trajanic Frieze, and the Cancelleria Reliefs there is some incongruity between the number of heads and the provision of corresponding feet.

6. Perspective on the Great Trajanic Frieze was examined by KÖEPPEL, 1969, 158-61; 1982b, 513-5. For the use of perspective and the 'map' technique see 3.2, n.37.

7. KÖEPPEL, 1982b, 516.

8. ANDREAE, 1977, Fig. 271-3 (Ara Pacis); KÖEPPEL, 1984, No. 7-8 (Cancelleria); PFANNER, 1983, Pl. 45 (Arcus Titi). Already on the latter heads were being raised up in parts of the ferculum panel (ibid., Pl. 54).

9. HASSELL, 1966, ranked Pl. 2, 7.2, 8; on the flat Pl. 1, 7.1, 9.1, 12-5.

10. KÖEPPEL, 1982b, 523-5.

11. BRILLIANT, 1967, Pl. 61, 67, 77, 87. The possibility that their composition, unprecedented in monumental sculpture, was directly based on painted rectangular triumphal panels cannot be ignored (see ibid., 223-4; HAMBERG, 1945, 145).

12. BRILLIANT, 1967, Fig. 63; PICARD, 1970, Pl. XLIII; WARD-PERKINS & CLARIDGE, 1976, 35.

13. LEHMANN-HARTLEBEN, 1926, 7-108.


15. LEHMANN-HARTLEBEN, 1926, Fig. 8; ADAM, 1984, Fig. 88, 118.

16. ANDREAE, 1977, Fig. 297-301.

17. DUDLEY, 1967, Pl. 58; ANDREAE, 1977, Fig. 189; KÖEPPEL, 1983b, No. 3-4, 33-4. All Julio-Claudian probably.

18. RYBERG, 1955, Fig. 11, 17, 21, 29-32, 36-8, 43-4, 51-3; KÖEPPEL,
1983b, No. 11-5, 30-1; 1984, No. 3, 7-9, 16-9. For profectio and adventus scenes on the column see KOEPPEL, 1969, 175-9, and in general ibid., 190-4.

19. In addition to n. 17 see ROBINSON, 1975, Pl. 424; KOEPPEL, 1983a, Pl. 43; 1983b, No. 6-7, 35; 1984, No. 12-14, 25-6, 28-30. For armoured adlocutio coins: R.I.C. I, Caligula, No. 23-5; Galba, No. 150; II, Domitian, No. 288; Trajan, No. 655-8.

20. BECATTI, 1960, 20, Pl. 82; BANDINELLI, 1970, 235, Fig. 258-9.


22. KXHLER, 1965, Pl. 1 (Aemilius Paulus), 23b; STRONG, 1961, Pl. 14; ANDREA, 1977, Fig. 190 (Lecce); ROLAND, 1969, Pl. 25-7, 39-43. For the personnel behind such patronage and influence see RAWSON, 1975.

23. AMY et al., 1962, Pl. 28, 93, 95 (Orange); LEVI, 1931, No. 167; KOEPPEL, 1983b, No. 33.

24. Especially XXIV, XL, LXVI, XCVI, CXX. Others, such as XXXVII-VIII, LXIV, LXII, CXV, CLI, are composed in such a way as to clearly define the opposing sides.


26. LEHMANN-HARTLEBEN, 1926, 118. A pose later reproduced on the Amendola sarcophagus (ANDREA, 1977, Fig. 503).

27. Despite a sparsity of clothing ascribed to the Germans by Tac., Ger. 17, the common Roman depiction of naked or near-naked barbarians may have owed much to Hellenistic 'heroic' nudity which treated Galatians in this way. This is reflected on the more stylised Antonine battle sarcophagi where the Romans may also wear muscled cuirasses which bring them as close to nudity as possible yet remaining clearly distinguishable from their adversaries (ANDREA, 1977, Fig. 500-3). Similarly, the Parthian War monument at Ephesus has half-naked barbarians completely out of character with Eastern dress (ibid., Fig. 5, 6). A statue of Trajan also survives, posed in heroic nudity (ibid., Fig. 401).

28. Objection to this may seem pedantic, but it is possible, even likely in many cases, that genre scenes of adlocutio, suovetaurilia, adventus etc. did not refer to any specific occasion in a way that is implied by the term 'historical'. Therefore, in this study 'historical' has been avoided and 'propaganda' has been preferred throughout.


31. MICHHON, 1909, 221; TOYNBEE, 1951, 26; CALABI-LIMENTANI, 1958a, Cat.No.61; BURFORD, 1972, 213; KOEPPEL, 1985, No.50.

32. CALABI-LIMENTANI, 1958a, Cat.No.52-77; 1958b, 873-5. See BURFORD, 1972, 213-4 for the rarity of signatures.

33. CALABI-LIMENTANI, 1958a, 58-9, 75-7; 1958b, 871; BURFORD, 1972, 78-80; RAWSON, 1975, 41; STRONG & CLARIDGE, 1976, 195; MANNONI, 1985, 142-9. A piece from Pozzuoli is signed ex officina Sextili Clementis (C.I.L. X,1896). GNOLI, 1971, Pl.6 reproduces a view of an 18th century marble workshop which may have been similar to Roman officinae in appearance.


35. LANCIANI, 1899, 41-2; SQUARCIAPINO, 1943, 18-22, No.16-20, 24-6; TOYNBEE, 1951, 27; CALABI-LIMENTANI, 1958a, 50; BURFORD, 1972, 67.

36. WARD-PERKINS, 1951, 277-9; 1971a, 12-3; STRONG & CLARIDGE, 1976, 206; DODGE, 1988, 72-3.

37. BLAKE, 1947, 51-4; STRONG & CLARIDGE, 1976, 195-6; BOETHIUS, 1978, 137-9; WARD-PERKINS, 1981, 22, 25, 28, 43-4. Before the Carrara quarries were exploited Greek marbles were relied upon if a more luxurious material than travertine or stuccoed tufa was preferred.

38. LANCIANI, 1899, 42: 'In the spring of 1886, when the Via Buonarroti was being cut through in the direction of the Baths of Titus, a wall was discovered entirely built with the contents of the studio. There were statues of Jupiter, Juno, Pluto, Aesculapius, Cybele, Minerva Parthenos, Hercules; bacchic vases, fountains, mouths of wells, candelabra, figures of animals, bas-reliefs and other carvings; and nearly all the works were signed by one of the members of this artistic brotherhood from Aphrodisias - seventeen signatures in all. The fact that no essential portions of each work were missing shows that they were brought entire to the scene of destruction, and then broken up and thrown into a foundation wall.'

39. TOYNBEE, 1951, 17; CALABI-LIMENTANI, 1958a, 9-15, 75-8, 159; BURFORD, 1972, 97; STRONG & CLARIDGE, 1976, 195. This is despite the usual modern attempts to determine a system of static and exact Latin terminology for artistic functions.

40. BISHOP, 1985b, 10-11.

41. BONANNO, 1976, 53. Similarly, some portraits on sarcophagi were blocked out at the quarry whilst the rest of the sculpting was finished. A customer's specific likeness could have been added later on sale (WALKER, 1985, 23, Fig.15; ANDREAE, 1977, Fig.504, 581).
42. BURFORD, 1972, 91.

43. HASSEL, 1966, 3-5, 30-5; LEPPER, 1969, 250-1; BURFORD, 1972, 38-9. The evidence for costing Roman imperial buildings and artworks is too fragmentary or non-existent to be of much use (CALABI-LIMENTANI, 1958a, 125-38).

44. MAGI, 1945, 37-54, 138-41.

45. STRONG & CLARIDGE, 1976, 202-3, Fig.333; PINKERNEIL, 1983, 204-10, Cat. No. 1. See also WAELKENS, 1985.

46. Quarry-state blocks and capitals with quarry inscriptions have been found under the Palazzo della Cancellaria and they are now housed in the basement (pers. obs.). The writer is very grateful to Miss A. Claridge for discussing sculptors' activities in this area.


5 The Figure Types

5.1 Cuirassed Officers

1. L, LII, LXXII, LXXIII, CIV, CXLI.


6. A relief in the Museo Irpino, Avellino, depicts an officer holding the bridle of his horse. He wears a muscled cuirass with pteruges and grips his sword (FRANZONI, 1987, 125). The horse has a heart-shaped pendant hanging down between its eyes. See also KEPPIE, 1984, Pl. 5, a-d.


8. For similar sleeves see KEPPIE, 1984, Pl.5d (1st cent. B.C.); ROBINSON, 1975, Pl.467 (1st cent. A.D.); STRONG, 1961, Pl.128 (3rd cent. A.D.)

9. Adamklissi metope numbering follows the inventory (FLORESCU, 1965,
Tables 50-1) because Latin numerals employed by Florescu changed with successive editions of his work (FLORESCU, 1959; 1961; 1965)

10. ABDUL-HAK, 1954-55, Pl.IV, VI.


5.2 Citizen Troops

1. The term 'lorica segmentata' has no Roman basis but its modern origin, perhaps of Renaissance date, is obscure (ROBINSON, 1975, 174). Because it is not ancient, unlike the names lorica hamata or lorica squamata, it appears in inverted commas in this study.

2. See VON GROLLER, 1901, Fig.24; COUISSIN, 1926, Pl.IV-V; ALFS, 1941, Fig.49-55; ULBERT, 1968, Fig.27; WEBSTER, 1985, Fig.15-16.

3. Especially VON GROLLER, 1901, 96-114, Fig.24. See COUISSIN, 1926, 453-4; ROBINSON, 1975, 174. For the Coat of Plates see THORDEMMANN, 1939, 285-328.


5. XII, 6; LVI, 6; XLIX, 28.


7. LX, 19; LXXII, 15; CXXVII, 2; CXLVII, 1.

8. Fig. No.20. For later examples and design developments see ROBINSON, 1975, 184-5.

9. VON GROLLER, 1911, Fig.40-1, 44, 50, 58; ROBINSON, 1975, Fig.185-6; BISHOP, 1987, 120-22. An apparent Danubian weighting of the distribution has been suggested to the writer by Dr M.C. Bishop. For lobate hinges in general see ROBINSON, 1975, 120-1; ALLASON-JONES & BISHOP, 1988, passim.

10. IV, 15, 17; XI, 6, 7, 8; XII, 5, 7; XIII, 2, 5; XVIII, 5; CVI, 4.

11. ROBINSON, 1975, 161, Fig.170; GARBSCH, 1978, Fig.1-3.

12. ROBINSON, 1975, Fig.181. FOULTER, 1988, 34-8 preferred buckled straps to pinning on the Newstead lorica.

13. For eyes see ROBINSON, 1975, Fig.184.

14. LV, 9; LXII, 3; LXIII, 63; LXVI, 10, 12, 15, 24.

15. VON GROLLER, 1901, Fig.24; COUISSIN, 1926, Fig.165-6, Pl.IV,19; ULBERT, 1968, Pl.27; WEBSTER, 1985, Fig.15-16; ALLASON-JONES & BISHOP, 1988, Fig.109-110.


18. ROBINSON, 1975, 180-2. For a different typological approach see BISHOP, 1987, 120-2. Robinson envisaged a progressive simplification of fittings over time with overlapping usage as old types continued in circulation until worn out. An alternative view favours different types being constructed at the same time without uniformity.


21. For example, at Hod Hill (RICHMOND, 1968, Fig.56), Chichester (DOWN, 1981, Fig.8.28.2), Richborough (BUSHE-FOX, 1932, Pl.XII.2) and Longthorpe (FRERE & ST.JOSEPH, 1974, Fig.25-6) in Britain.


24. Versigny: PICARD, 1980, Fig.1. Alba Iulia: RUMANIEN, 1969, C63. For manicae see AURIGEMMA, 1926, Fig.86, 91-2; GRANT, 1971, Pl.4, 5, 7, 23, 25, 33.


26. ROBINSON, 1975, 174. Articulated segmental armour, such as Renaissance European tassets and 'lobster' helmets worked on the same rivet and leather-strap principle (STONE, 1934, Fig.16, 42, 45, 523, 774.2-3).

27. COULSTON, 1988, 13. Scale armour was the least effective form needing continuous upkeep because thin copper alloy scales were easily damaged, wires which held them together would have snagged the backing garment and the weight was less easily relieved from the shoulders by a waist-belt.


29. ÉSPÉRANDIEU, 1907-66, No.11. For the dating see OLDENSTEIN-PFERDEHIRT, 1994, 404. In the past this stela has commonly been dated mistakenly to the first half of the 1st century A.D.

30. HOFMANN, 1905, No.55; SCHOBER, 1920, No.162.

31. These mainly belonged to auxiliaries. See ÉSPÉRANDIEU, 1907-66, No.5853, 6207, 6209, 6213, 6252, 6254. The usual convention was to depict the deceased as unarmoured. In the legionary discussion
officers' and standard bearers' armour provision is irrelevant (cf. MAXFIELD, 1986, 86).

32. ESPERANDIEU, 1907-66, No.5816.

33. ABDUL-HAK, 1954-55, Pl.V, VII.

34. SIMKINS, 1979, 17; CONNOLLY, 1981, 231. Eastern vexillationes certainly were present in the Danubian theatre during the Dacian wars (STROBEL, 1984, 97, 102-3).


37. ALFS, 1941, 121.

38. Pers. comm. Mr N. Slope. The writer is very grateful to Mr Slope for this information and for showing him photographs of these and other finds from the site.

39. ROBINSON, 1975, 160, 170, 186. See also RICHMOND, 1967, 34-5 and SIMKINS, 1984, 34. The Romans had, of course, been facing falces in the wars of Domitian, and, perhaps, ever since A.D.69 (Tac., Hist. I,79; see 5.12.3). A segmental arm-guard may even be depicted on the side of a tombstone at Mainz (LINDENSMITH, 1864, IX, B, 2, Pl.4) which dates by reference to legio XXII Primigenia to either A.D.43-70 or to post A.D.92. In the light of the arm-guard, the latter may seem more likely. If the Alba Iulia relief (see n.24) is military, then it may represent legionary manicae.


41. For 'lorica segmentata' finds in general see ROBINSON, 1975, 181-2; ALLASON-JONES & BISHOP, 1988. The Dacian finds are of great interest for the distribution pattern in the Trajanic period onwards (CHIRILA et al., 1972, Pl.CXIII, 38, 41-2, 47). Fittings from this type of cuirass have been found by the Polish expedition recently working at Novae (Sviitov), Bulgaria (pers. comm. Dr T. Sarnowski). The St. Albans pieces were found in a pit with Neronian pottery (pers. obs. and Mr S. Greep, pers. comm.). The Caernarfon material is in course of publication (pers. comm. Ms L. Allason-Jones).

42. ROBINSON, 1975, 45-51, 62-65. The German approach has been to classify helmets by type-site, such as 'Hagenau' and 'Nelzenau' (ULBERT, 1968, 13-14; KLUMBACH, 1974; WAURICK, 1983, Fig.4). For examinations of helmets on the column see FLORESCU, 1969, 107-9, Fig.4; WAURICK, 1983, 293-6, Fig.14.

43. ROBINSON, 1975, 49, 80-1.
44. PETCULESCU & PROTASE, 1975.

45. ULBERT & FISCHER, 1983, Fig.10 (Theilenhofen); Mr P. Connolly, pers. comm. (Brigetio).

46. ROBINSON, 1975, 70-3; WEINSTOCK, 1979, Pl.23-4.

47. ROBINSON, 1975, 84-5. There is no real reason for labeling this as an 'auxiliary' helmet.

48. Ibid., 90-1.

49. Ibid., 64. Inv.No.17-22, 29, 31, 35.

50. ROBINSON, 1975, 64, 83.

51. ESPÉRANDIEU, 1907-66, No.1344.

52. ESPÉRANDIEU, 1907-66, No.130.

53. ROBINSON, 1975, 64-5.

54. VERMEULE, 1960. A second helmet with a ring may also be a forgery (DINTIS, 1986, Pl.48.3-4).


57. HELBIG, 1966, No.1748; DUDLEY, 1967, Pl.58 (Museo Capitolino); MINGAZZINI, 1973, Pl.88; ROBINSON, 1975, Pl.424; HOLSCHER, 1979, 342-8 (Vatican). There is some dispute as to whether the latter relief commemorates the Battle of Actium or the Claudian conquest of Britain. For the Corinthian form of helmet see SNODGRASS, 1967, 51, 93-4; CONNOLLY, 1981, 60-3. Alternatively, the Capitoline helmet may belong to the 'pseudo-attic' type (DINTIS, 1986, 113-33, Supplement 9).

58. MICHON, 1909, 231-9; ROBINSON, 1975, Pl.423; KOEPPEL, 1983b, 106-8. Long thought to be of Hadrianic date, Koeppe has convincingly advanced a provenance for the relief on the Arch of Claudius (via Flaminia).

59. For Rome examples see KASCHNITZ-WEINBERG, 1937, No.421 (Vatican); SPANNAGEL, 1979, Fig.8 (Mus. Capitolino); CALZA, 1977, No.135 (Villa Doria Pamphilj); KOEPPEL, 1984, No.25 (Mus. Terme). For others elsewhere: TRAINA, 1981, Fig.6 (Potsdam); COMSTOCK & VERMEULE, 1976, No.237 (Boston); ANDERSON, 1986, Fig.1-2 (New York); KOEPPEL, 1984, No.26 (Ann Arbor), No.29 (Louvre); 1985, No.15 (Berlin); LEVI, 1931, No.165 (Mantua).

60. KASCHNITZ-WEINBERG, 1937, No.422. See also MANSUELLI, 1958, Pl.170 (Florence) and DAI Neg.54.591 (Pozzuoli).
61. JOBST, 1977, 77, n.341, Fig.137; LESSING & OBERLEITER, 1978, Pl.9; ÖNEN, 1983, 119; TERRACE, 1988, 29-31. These extremely important ivory reliefs belonged to a piece of furniture and were found in Room AB3 of the Embolos Houses. They appear to depict genre scenes of negotiation, adventus and battle associated with Trajan's Parthian wars.


63. ESPÉRANDIEU, 1907-66, No.6822. For embossed griffins see KASCHITZ-WEINBERG, 1937, No.421 (Vatican); FRANZONI, 1987, No.47 (Ganaceto).


65. ROBINSON, 1975, 64. DURRY, 1938, 213-5; 1954, 1625-6 identified equipment on the Great Trajanic Frieze as campaign dress. For a fine decorated Attic helmet reconstruction see CONNOLLY, 1981, 311, No.15.

66. See BISHOP, forthcoming.

67. For equipment production in Rome see BISHOP, 1986b, 84-5. Tac., Hist. I,88 mentions showy equipment in the capital.

68. Apart from helmets already mentioned on the Great Trajanic Frieze, the Ephesus ivories, the Louvre praetorians relief and on relief heads at Mantua, Florence, Potsdam and Pozzuoli, feather crests appear on reliefs in the Villa Borghese (KOEPPEL, 1985, No.10-12). Bronze figurines and ivory carvings from northern Italy also display these crests (TRAINA, 1981, Fig.1, 3; AOSTA, 1982, Fig.65).

69. ROBINSON, 1975, 46, 64, 140-3.

70. In Caesar's time crests were used in battle (Caes., B.G. II,21; VII,45). For a pay parade context see Jos., B.J. 348-51.

71. Chest: IV, XXXIII, XLVIII, XLIX, LXXXVI, LXXXVII, XCIII, CI, CII. Shields: XII, LVI, LXIX, CXXVII, CXXVIII, CI, CII. Poles: XX. Loose: XXVI, XXXIII, XXXV. Pack: CVI.


73. ROBINSON, 1975, 47, 51, 63.

74. Ibid., 82.

75. ESPÉRANDIEU, 1907-66, No.5819.

76. For example, an 'Imperial-Gallic' helmet from Rich (W. Germany) is made of tinned copper alloy, instead of iron like the rest of its class (GRUNEWALD, 1986, 21-2). Likewise, the late 2nd century Niedermörder helmet (W. Germany) is copper alloy, not iron.
(ROBINSON, 1975, Pl.179-82).

77. Tac., Hist. I,38.

78. IV, X, XXI, XXII, XXIV, XXVI, XXVII, XXXIII, XL, LI, LXII, LXXII, LXXXIII, CI, CXIV, CXV, CXXIII, CXLVII.

79. XVIII, LV, LXVI, XCIII, CII, CIV, CVI, CVIII, CXXIII.

80. LXXII, CI.

81. XLVIII, L.

82. IV, X, XIII, XVIII, XXI, XXII, XXIV, XXVI, XXVII, XXXIII, XXXVIII, XL, XLVIII, L, LV, LXII, CI, CXXIII, CXLVII. The term 'sub-oval' is employed for shields with curved side edges and straight top and bottom, or with straight sides and curved top and bottom. LI,26, 29 are damaged or obscured and could be either rectangular or sub-oval.

83. LXVI, LXXII, LXXIII, XCVIII, CII, CIV, CVI, CVIII, CXXIII, CXV.

84. XII, XX, XXIII, LVI, LXIX, LXXIII, CXXVI, CXXVII.

85. ÉSPÉRANDIEU, 1907-66, No.5816, 5822.

86. LINDENSCHMIT, 1870, VI, Pl.V.3.

87. ÉSPÉRANDIEU, 1907-66, No.130; PICARD, 1957, Pl.XXVI. For the Parma relief see also DAI Neg.33.434.


89. FRANZONI, 1987, No.28.

90. ÖNEN, 1983, 119, lower right; pers. obs.

91. ABDUL-HAK, 1954-55, Pl.VII.

92. BAUCHHENG, 1978, No.2, 3; ÉSPÉRANDIEU, 1907-66, No.5822.


94. BUSING, 1982, Pl.39.2.

95. ÉSPÉRANDIEU, 1907-66, No.5790.

96. HOPMANN, 1905, No.29; SCHOBER, 1923, No.337.

97. ÉSPÉRANDIEU, 1907-66, No.5835.

98. CUMONT, 1926, 10, 323-7; ROSTOVZEFF et al., 1936, 456-66; Mr S. James pers. comm.

100. VAN DRIEL-MURRAY, 1988.

101. GROENMAN-VAN WAATERINGE, 1967, Fig.16.

102. VAN DRIEL-MURRAY & GECHTER, 1983, 30-8, Fig.9, Pl.6-7. Dr C. van Driel-Murray assures the writer that it is impossible to determine from a leather cover whether the shield involved was flat or curved.

103. KAHLER, 1965, Pl.6, 14, 18-19 (Aemilius Paulus, Delphi); ROBINSON, 1975, Pl.463-6; TORELLI, 1982, Pl.I.4 (Ahenobarbus, Rome); LEHMANN-HARTLEBEN, 1926, Fig.12 (Esquiline).


106. WHITEHOUSE, 1976, 4-5, Fig.13.b. The date of this mosaic is controversial, suggestions ranging from the 1st century B.C. to the 2nd century A.D. The writer is very grateful to Dr H. Whitehouse for discussing this problem.

107. AMY et al., 1962, Pl.9-11, 96. See WAURICK, 1983, Pl.53.1 for a possibly contemporary ship relief with soldiers carrying rectangular shields.

108. For example RIC, Caligula 23-5. See large-scale reproduction in BELLEN, 1981, Fig.21.

109. See CURLE, 1911, Pl.XXXV.1-7; GROENMAN-VAN WAATERING, 1967, Fig.18; RICHMOND, 1968, Fig.57.22-4; FRERE & ST. JOSEPH, 1974, Fig.29.

110. THOMAS, 1971, 36, Pl.LIV (Vindonissa); HOFFILLER, 1912, Fig.24 (Aquincum); Mr S. James, pers. comm. (Dura); ALLASON-JONES & MIKET, 1984, Inv.3.724, Pl.VII (Tyne). See also VON GROLLER, 1901, 118-9, Pl.XX (Carnuntum, Austria). All of these examples come from legionary fortresses or bear legionary inscriptions.

111. JUNKELMANN, 1986, Pl.58.b.

112. ÉSPÉRANDIEU, 1907-66, No.5822, although this shape may be a product of the eagle shield-blazon.

113. ROSTOVZTEFF et al., 1936, Pl.XXVA; KIMMIG, 1940, Pl.23.3 (Dura and Fayûm). For sculptural representations see HOFMANN, 1905, No.42; KAHLER, 1965, Pl.6, 18-9; BAUCHHENS, 1978, No.2, 5.

114. XL, 36, 59, 65; CVI, 11; CXIII, 9, 16; CXV, 14.

115. AMY et al., 1962, Pl.9-11; ÉSPÉRANDIEU, 1907-66, No.5822.

116. See JUNKELMANN, 1986, Fig.10. For a curved rectangular shield slung on the back of a marching soldier see ÉSPÉRANDIEU, 1907-66,
117. CICHORIUS, 1896, Fig. 7, 13-14, 35-8, 42-3, 46; FLORESCU, 1969, 81-4, Fig. 42; ROSSI, 1971, 108, Fig. vi.

118. IV, 4, 6, 8, 14; XXVI, 12; LV, 8; LXII, 10, 12; LXXII, 7; LXXXV, 24; CII, 23. XXXVIII, 5 is carried by an auxiliary and one is standing on end in LXXIII.

119. XCVIII, 7. Two are on end in LVI.

120. IV, LV, LXIX, LXXI, CIV, CVI, CXIV-V.

121. ESPERANDIEU, 1907-66, No. 130; ROBINSON, 1975, Pl. 200.

122. MAGI, 1945, 25.

123. For the symbolic significance of stars and crescents see CUMONT, 1942, 177-252; SALVIET, 1966; ZADOKS-JOSEPHUS JITTA & WITTEVEEN, 1977, 173-6.

124. AMY et al., 1962, Pl. 10.59.

125. MICHON, 1909, Fig. 13; ROBINSON, 1975, Pl. 423.

126. BRACKER, 1974, Pl. 85 (Köln); PICARD, 1957, Pl. XXVI (Parma).

127. ESPERANDIEU, 1907-66, No. 5816.

128. Ibid., No. 5790; FRANZONI, 1987, No. 47.

129. ABDUL-HAK, 1954-5, Pl. VII.

130. A fulmen quite often appears on supposedly barbarian shields in congeries armorum reliefs. See REINACH, 1909, 290; ESPERANDIEU, 1907-66, No. 46, 700; PICARD, 1957, Pl. XXII, XXVIII; VON MERCKLIN, 1962, Fig. 1220; CARDUCCI, 1968, 54.

131. For example, ESPERANDIEU, 1907-66, No. 46, 130, 531, 697, 1347.

132. ROSTOVZEF, 1942, Pl. IV (cloth standard); Adamklissi Inv. No. 26, 40 (sculpture); YADIN, 1971, 76-9 (clothing).

133. ESPERANDIEU, 1907-66, No. 5816.

134. FLORESCU, 1969, Fig. 42.2, 10, 11, 16, 17, 26, 27, 40.

135. Veg., II, 18. For ansae on shield-covers see GANSNER-BURCKHARDT, 1942, Fig. 50, 53, 59-61, 70, 71; GROENMAN-VAN WAATERINGE, 1967, Fig. 10. Dio, LXVII, 10, 1 credits Tettius Iulianus with ordering troops to inscribe their names and the names of their centurions on their shields. Clearly this was happening long before, as the Arch at Orange suggests (AMY et al., 1962, Pl. 45-7, Fig. 40). Interestingly, in Pet., Sat. 82, where Encolpius walks abroad with a sword, he is stopped by a soldier who demands the names of his legio and centurio. For labeled equipment see MACMULLEN, 1960.
136. ÉSPÉRANDIEU, 1907-66, No.5822. No.5816 appears to have bolts emanating out from the body of an eagle.

137. VAN DRIEL-MURRAY & GECHTER, 1984, Pl.7.137.

138. THOMAS, 1971, Pl.LIV; ALLASON-JONES & MIKET, 1984, Pl.VII.

139. ROSTOVTZEFF et al., 1936, Pl.XXVA. Figures of animals and deities appear on shields on the Arch of Galerius at Salonika and the Arch of Constantine in Rome (LAUBSCHER, 1975, Pl.32.2, 34-5, 38.1, 42.2, 52, 56.2, 65.2; L’ORANGE & VAN GERKAN, 1939, Pl.28). Interestingly, an ansate panel occurs above a boss on a shield on one of the Piazza Armerina mosaics (STRONG, 1980, Fig.202).


142. Römisch-Germanisches Museum, Köln, Inv.No.236. The same motif appears on a gladiatorial shield carried in a Museo Torlonia relief (GRANT, 1971, Pl.12).

143. ROSTOVTZEFF et al., 1939, Pl.XLII, XLV.

144. THOMAS, 1971, Pl.XLIX-LIII; ALLASON-JONES & MIKET, 1984, Pl.VII.

145. Veg., II,18.


147. ROSSI, 1972, 65.

148. MICHON, 1909, Fig.13; ROBINSON, 1975, Pl.423 (Louvre); VERMEULE, 1981, No.192, Pl.19 (Pozzuoli). For the dating and identification of the latter see also GABRICI, 1909; CAGIANO DE AZEVEDO, 1939; KXHLER, 1951.

149. 'Cingulum' is used in this study to denote a waist-belt. However, Dr M.C. Bishop (pers. comm.) has suggested that in military contexts this was predominantly a Late Roman usage. Modern commentators employ the term 'balteus' for a baldric but this seems to have been applied to the waist-belt in the early imperial period (Juv., Sat. XVI,48; Tac., Hist. I,57; Pliny, N.H. XXXIII,54. See also Caes., B.G. V,44; Varro, de lingua latina V,116.

150. XV, LXII, LXVI, CI, CVIII, CXVI, CXVII, CXXVII, CXXIX, CXLVI.

151. LII,12, 19; CII,19; CIV,15.

152. XII,1; XVIII,5, 9; XXVI,11; LXII,3, 12; LXVII,2; CXXIII,1; CXXIX,3.
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153. For example on an apron strip from Mainz (LINDENSCMIT, 1870, X, Pl.IV.2) and in association with the Tekiya apron fittings (MANO-ZISI, 1957, No.25, Pl.XV-VI). Studs were presumably found with the Herculaneum soldier.

154. For the earlier, niello inlaid plates see ULBERT, 1968, Pl.16; BISHOP, 1987, Fig.3-4.

155. ULBERT, 1968, Pl.13; 1969, Pl.32.5; KUNZL, 1977, Fig.11. The Rheingönheim belt is the best known, but bossed, hinged cingulum plates have also been found at Tekiya (Yugoslavia) and these are datable to Domitian's reign (MANO-ZISI, 1957, No.18-21, Pl.XIII, XIV, XVII).

156. This is not at all clear from published photographs of the fittings in situ (FRAIA & D'ORIANO, 1982, 20-21; JUDGE, 1982, 691; GORE, 1984, 572). However, a very poor reconstruction drawing of the soldier does show both belts (ibid., 573) and Mr P. Connolly has very kindly made his drawings of the fittings available to the writer.


158. For example, ESPERANDIEU, 1907-66, No.5853, 6125, 6136-7, 6207, 6213, 6252, 6254; 1931, No.11, 412; BRACKER, 1974, Pl.85; ROBINSON, 1975, Pl.465. Good close-up photographs may be found in BAATZ, 1983a, Pl.44-5, and a discussion which improbably links rosettes with oriental influences in WILL, 1954.

159. KOEPPEL, 1986, No.1, Fig.2.6, 7, 8, 12.

160. KOEPPEL, 1984, No.7, Fig.11.14.

161. KOEPPEL, 1985, No.8, Fig.10.2, 5. Another apron has broken off Fig.10.1.

162. KÄHLER, 1951, Pl.28-9; VERMEULE, 1981, Pl.19.

163. This is not altogether clear because the figures, many of which were carved almost in the round, have been badly damaged. They are best reproduced by ANDRÄE, 1977, Fig.426-9, and may be closely examined by means of a cast in the Museo della Civilta Romana, E.U.R. A figure-by-figure description and numbering system was provided by PFANNER, 1983, 87-90, Beilage 3. Soldiers including at least one centurion, escort prisoners and wear paenulae. A number have short swords on their right hips. The features of dress and equipment, together with musical instruments and wicker baskets borne along, do not appear on the corresponding Arch of Titus triumphal frieze.

164. MICHON, 1909, Fig.13; ROBINSON, 1975, Pl.423. A bronze statuette, presumably of 2nd century A.D. date, depicts a soldier wearing a tunic with cingulum and short apron (Colonia Ulpia Traiana (Romania), museum pers. obs.).
165. For example, CIL IX, 4397 (l'Aquila); ESPÉRANDIEU, 1907-66, No.6252 (Bonn); 1931, No.412 (Mannheim); BOLLINI, 1968, Fig.24 (Piraeus); KOLB, 1973, Pl.XXVI.2 (Athens); KOS, 1978, Pl.I.1-2 (Corinth); FRANZONI, 1987, No.61 (Belgioioso), Pl.XXI.1 (Turin).

166. ESPÉRANDIEU, 1907-66, No.5495 (8 straps), 6125 (8), 6136 (8), 6137 (6); TUFI, 1984, Fig.7 (8).

167. LINDENSCHMIT, 1870, X, Pl.IV.2; ULBERT, 1971, Fig.7.1.

168. HOFMANN, 1905, No.57 (3 straps); ESPÉRANDIEU, 1907-66, No.5835 (6), 5840 (4), 5853 (5-6), 6207 (6), 6209 (4), 6213 (4), 6254 (6), 6850 (4); 1931, No.16 (6); FRANZONI, 1987, No.30 (5), Pl.XX.1, XXI.2 (4).

169. Especially the Domitianic examples from Tekiya (MANO-ZISI, 1957, No.24, Pl.XV-VI).

170. HOFMANN, 1905, No.56 (3 straps); ESPÉRANDIEU, 1907-66, No.5792 (4), 5799 (4), 6252 (3), 6253 (4), 6255 (4); KOLB, 1973, Pl.26.2 (4); BAUCHHENS, 1987, No.10-1; BISHOP, 1983b, Fig.2.2; FRANZONI, 1987, No.1 (4).

171. Herculanenum pers. comm. Mr P. Connolly. For finds elsewhere see LINDENSCHMIT, 1870, X, Pl.IV.4, 5; MANO-ZISI, 1957, No.23, Pl.XV, XVII; ULBERT, 1971, Fig.7.5; ZADOKS-JOSEPHUS JIDTA & WITTEVEEN, 1977, Pl.30.1, 2, 5; Pl.32.24-7; Pl.33.29, 33.


173. ESPÉRANDIEU, 1907-66, No.5495, 5787, 6253, 6255.

174. HOFMANN, 1905, No.56; ESPÉRANDIEU, 1907-66, No.5792, 5799, 5835, 5840, 5853, 6125, 6136-7, 6207, 6209, 6213; 1931, No.16; TUFI, 1984, Fig.7, 17, 28; FRANZONI, 1987, No.24.

175. ESPÉRANDIEU, 1907-66, No.5790.


177. ESPÉRANDIEU, 1907-66, No.5816, 5822.

178. ESPÉRANDIEU, 1907-66, No.5495, 5792, 5799, 5835, 5840, 5850, 5853, 6125, 6136-7, 6207, 6209, 6213, 6252-5; 1931, No.16, 412; TUFI, 1984, Fig.7, 17, 28; FRANZONI, No.30, 53.

179. SCOTT, 1985, 197-209.

180. Ibid., 175.

181. Pers. comm. Mr P. Connolly. No pugio was found. For a Domitianic dagger frog see MANO-ZISI, 1957, No.15, Pl.XI.

182. O.R.L., Kastell No.33, Stockstadt, Pl.IX.30, 32; No.71a, Theilenhofen, Pl.IV.47; CHARILA at al., 1972, Pl.LVII (Buciumi);
ROBERTSON et al., 1975, Fig.32.15 (Bar Hill); SCOTT, 1985, Appendix 1, No.36 (Gelligaer). The writer is grateful to Mr L. Petcuelscu for drawing his attention to an unpublished example from Micia, Romania.

183. HERRMANN, 1969, Fig.3 (Künzing); COLLINGWOOD & RICHMOND, 1969, Pl.XIX.1, m (Copthall Court, London); pers. obs. Römisches-Germanisches Museum (Köln). It is noteworthy that Herodian, II,13,10 mentions that Severus deprived the praetorians of decorated daggers as well as their belts. Dr M.C. Bishop kindly drew the writer's attention to this aspect.

184. DURRY, 1938, Pl.XA; MAXFIELD, 1981, Pl.8.c (Siena); FRANZONI, 1987, No.7 (Aquileia), Pl.XXI.2 (Assisi).

185. LX,17; LXVI,19; CXXIII,4; CXLVII,1.

186. LXII,2; LXIII,7; LXVI,12, 14, 15, 18, 22, 34.

187. XXIV,34; XXXII,10; XXXV,4; XLVIII,2, 6, 8, 9, 11; LXII,9, 10, 12; LXXVI,28; LXVI,1, 30; LXVII,13, 17, 19; LXXI,16; LXXV,1; XCIV,14, 20; CVI,28; CVII,15; CXXIII,6, 10; CXLII,1; CXLIII,2.

188. The term 'gladius' may be applied to any sword but in modern usage is attached to short swords, whilst 'spatha' is used for long cavalry swords. Cf. Tac., Ann. XII.35.

189. IV, XXXVII, CI, CX, CV, CXXI, CXLV, CXLVII.

190. XXXVII, CXV.

191. XI, CXI, CXV, CXXVII.

192. LII,6; CXXIII,3; CXXIV,4; CXXVII,11; CXXVIII,2.

193. ÈSPÉRANDIEU, 1907-66, No.5822.

194. ULBERT, 1969a, 118-25. It is, therefore, rather disturbing that some swords on the Adamklissi metopes appear to be of the Mainz type (Inv.No.29-30).


197. ÈSPÉRANDIEU, 1907-66, No.6253.

198. BISHOP, 1983b, Pl.6.

199. KOEPEL, 1986, No.8, Fig.10.1, 5 (Chatsworth); KÜHNER, 1951, 28-9 (Pozzuoli); FRANZONI, 1987, No.2 (Pula).

200. KÜHNER, 1951, Pl.28; VERVEULE, 1981, Pl.19 (Pozzuoli); PFANNER, 1983, Beilage 3, Fig.22; HASSEL, 1966, Pl.19.2 (Benevento).
201. SCOTT, 1985, Fig. 2.65.

202. FELLMANN, 1966; ULBERT, 1969a, Fig. 3, Pl. 17-18; GREEP, 1984.

203. KOEPEL, 1985, No. 8, Fig. 10.1, 2, 5 (Chatsworth). For chapes see ULBERT, 1969a, Fig. 4, Pl. 17-19, 26-7; SCHOPPA, 1974, Fig. 2-3, Pl. 26.

204. ESPÉRANDIEU, 1907-66, No. 6136-7; 1931, No. 16; FRANZONI, 1987, No. 2, 7.


206. Scabbards with four rings on two transverse bands often appear on reliefs and statues of lamellar-armoured Palmyrene deities. A narrow waist-belt is usually attached to the upper forward ring only, and is split for attachment to both rearward rings (COLLEDGE, 1976, Pl. 35; pers. obs. Syrian National Museum, Damascus, and Palmyra Museum). A similar three-ring baldric attachment is practised by the Ermine Street Guard (see CONNOLLY, 1981, 232, 310).

207. The same arrangement is clearly shown on one Adamklissi metope (Inv. No. XXVII, right). Swords found in Denmark employing Roman ring-suspension have two lateral strips but only two rings, one in the upper forward position, the other in the lower rearward. This represents a measure of rationalisation in the over-provision of rings (NYLEN, 1963, Fig. 4-5, 7, 9, 11, 13, 22. Contrast Fig. 28-9).

208. The few exceptions include a relief depicting soldiers reaping corn (KOEPEL, 1985, No. 1) and a Mainz pedestal relief (ESPÉRANDIEU, 1907-66, No. 5816). Auxiliary infantry on the Adamklissi metopes wear their swords on their left hips (Inv. No. 14, 34, 36) as was sometimes the practice for centurions and standard-bearers (e.g. ESPÉRANDIEU, 1907-66, No. 6255; ROBINSON, 1975, Pl. 465).


210. XLIX, 5, 21; L, 5; LXXII, 9.

211. HAZELL, 1981 makes unnecessarily heavy weather of this problem, but see MORGAN, 1987.

212. It is clear from hand actions where swords are sheathed that shafted-weapons were intended to have been provided by inserts: IV, XIII, XXI, XXII, XXIV, XXVI, XL, XLIII, XLVIII, XLIX, L, LV, LXII, LXIII, LXVI, XXIII, XXVIII, CI, CII, CIV, CVI, CVIII, CXIV, CXV, CXXIII, CXLVII.


214. HELDIG, 1966, No. 1608; ROBINSON, 1975, Fig. 16.

215. ESPÉRANDIEU, 1907-66, No. 94, 114 (St. Remy); 5822 (Mainz); 5835,
6252-3, 7747 (stelae).


217. CROWFOOT et al., 1957, 457, Q.4364, Fig.112 (Samaria); AVIGAD, 1980, Pl.139 (Jerusalem). However, neither of these pieces is securely identifiable as a pilum.

218. MICHON, 1909, Fig.13; ROBINSON, 1975, Pl.423 (Louvre); KÄHLER, 1951, Pl.28; VERMEULE, 1981, Pl.19 (Pozzuoli).

219. C.I.L. IX,4397 (l'Aquila); FRANZONI, 1987, No.7 (Aquileia), 9 (Verona).

220. MAGI, 1945, Fig.26-7; KOEPPEL, 1984, No.7, Fig.11, 15-16.

221. KOEPPEL, 1985, No.11, Pl.18.9.


223. KEHLER, 1951, Pl.29. This is providing that the spear is not a modern restoration.

224. MAGI, 1945, Fig.28; KOEPPEL, 1984, Fig.11.14. See RITTERLING, 1919; ALFÜLDI, 1969, 11-12; WAURICK, 1971; SCHALLMAYER, 1984 for the epigraphic and pictorial evidence supporting this association.

225. Notably the left-hand end of the Great Trajanic Frieze (KOEPPEL, 1985, No.9, Fig.13). All the shafts above heads on Arch of Benevento panels belong to fasces. A hasta is depicted on one of the Hadrianic tondi reused on the Arch of Constantine (KOEPPEL, 1986, No.10). It is also worth noting here that Adamklissi Metope Inv.31 has a broken pilum. Likewise in Inv.35 a pilum shank is being thrust into a kneeling barbarian. In neither case may a hasta be identified, despite appearances to the contrary in published photographs.

226. JOS., B.J. III,95; Arrian, Ek. 5.

227. Tac., Ann. XII,35.


229. KOEPPEL, 1986, No.8, Fig.10.1-2, 4-5.
5.3 Auxiliary Infantry

1. The use of 'hamata' most likely referred to the individual rings, and perhaps also to the device which fastened the shoulder-pieces to the chest (see Virgil, Aeneid III, 467).

2. The literature is suffused with references to leather armour prior to the 1970s. Scholars could discount mail on stelae but the more observant either accepted that there was a mixture of mail and leather usage on Trajan's Column (Froehner, Cichorius, Richmond), or they attempted to explain away the Column and the Adamklissi metopes' mail as artistic aberrations (Eadie). See Pollen, 1874, 20; Froehner, 1872-74, 13; Cichorius, 1896, 55, 114, 175, 179, 236, 253, 290, 341, 346; Petersen, 1899, 9; Cheesman, 1914, 124, 126-7; G.R. III, 29, 30; Couissin, 1926, 442-4, 446, Pl.III.18, IV.21, V.28; Forestier, 1928, 78, 102; Parker, 1928, 78, 102; Richmond, 1935, 15-6; Alfs, 1941, 73-4; Eadie, 1967, 166-8; Rossi, 1971a, 59, 85; Gauer, 1977, 56-8; Webster, 1985, 152.


5. For buff coats see Stone, 1934, 152, Fig. 194; Simkins, 1984, 13-4.

6. Even for muscled cuirasses the supposition of leather use owes more to Hollywood than to any archaeological evidence (Robinson, 1975, 147-52). A piece of lorica squamata from Vindonissa has its scales attached to a soft and flexible leather backing (Dr M.C. Bishop, pers. comm.). Monuments depicting late Roman troops often show muscled cuirasses (Arch of Constantine, Column of Theodosius etc., cf. L'Oranje & Van Gerkan, 1939, Pl.25-6, 28-31; Becatti, 1960, 51-5), but the question of infantry armour has not yet been properly examined. However, late sculpture was under strong Hellenistic influence and the actual use of muscled leather cuirasses by troops can safely be discounted (see James, 1988, n.59).

7. A great variety of sculptural solutions to this problem are figured in Edge & Paddock, 1988, 25, 45, 47, 52, 54, 56, 62, 66, 68, 75-6.

8. Plain surfaces: Hofmann, 1905, No.55; Esperandieu, 1907-66, No.5522, 5784-6, 5789-9, 5792, 5799, 5816, 5850, 5852-4, 5869, 6014, 6016, 6018, 6178, 6207, 6209, 6213, 6254-5, 6282-3, 6435, 7833-7, 8654-5; 1931, No.10-11; Noelke, 1977, 5 (stelae); Benndorf
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& SCHÖNE, 1867, Pl. 1 (Vatican frieze); KÄHLER, 1965, Pl. 10, 14, 18-19; ROBINSON, 1975, Pl. 460 (Aemilius Paulus Monument); ibid., Fig. 122 (Saalburg figurine). For painting and additional details modelled in gesso, see ibid., 169; COULSTON & PHILLIPS, 1988, xvii.

9. Chiselled dashes or crescents: relief of soldiers from Osuna (GARCÍA Y BELLIDO, 1949, No. 428); Volterra cinerary urn (BANDINELLI & GIULIANO, 1973, Fig. 366); Arch at Orange (AMY et al., 1962, Pl. 94a, c, 96c, 97b, 99); Mavilly Mars relief (ÉSPÉRANDIEU, 1907-66, No. 2067); Villa Medici pedestal (CAGIANO DE AZEVEDO, 1951, No. 119); Marcus Column (M. C. III, 33); Nawa helmet (ABDUL-HAK, 1954-55, Pl. IV-VII).

10. Less ordered pecking: Chester stela (WRIGHT & RICHMOND, 1955, No. 98); Volterra cinerary urn (BANDINELLI & GIULIANO, 1973, Fig. 366); Pompeii relief (ibid., Fig. 344); Domitius Ahenobarbus frieze (ROBINSON, 1975, Pl. 463-6); British Museum figurine (ibid., Pl. 474).

11. ÉSPÉRANDIEU, 1907-66, No. 8613, 8653.

12. Marcus Column (throughout); Arch of Severus, Forum Romanorum (BRILLIANT, 1967, Pl. 78, 85, 93); Arch of Severus, Lepcis (ANDREAE, 1978, Pl. 557, right end); Arch of Constantine Antonine panels (KOEPPEL, 1986, No. 26, 27). Interestingly, both drilled hole and crescent mail conventions are used on the Marcus Column and the Forum Romanorum arch is more varied. On the siege panels mail is left blank, is drilled with large holes, drilled with each hole surrounded by one or two incised circles, or is drilled with small holes in horizontal lines (BRILLIANT, 1967, Pl. 65.c, 78.c, 81, 85.b, 93.b, 94.a).

13. ÉSPÉRANDIEU, 1907-66, No. 35. Even more realistic is the mail on the Pergamon reliefs from the Athena Polias temenos (ROBINSON, 1975, Pl. 459).

14. GHIRSHMAN, 1962, Pl. 163-6 (Firuzābād); FUKAI & HORIUCHI, 1972, Pl. XXXVII-VIII, XL-I (Taq-i-Bustan).

15. BIVAR, 1972, Pl. 9; ANDREAE, 1977, Pl. 144.

16. For an extremely finely carved mail convention see a Julio-Claudian battle frieze from Rome, now at Mantua (LEVI, 1931, Pl. LXXXVI; ROBINSON, 1975, Pl. 472; KOEPPEL, 1983, No. 33).

17. Marcus Column, throughout; Pisa, Campo Santo, battle sarcophagus (REINACH, 1912b, 121); Antonine panels, Arch of Constantine (KOEPPEL, 1986, No. 26-7); Arch of Severus, Forum Romanum (BRILLIANT, 1967, Pl. 78, 81, 85, 91, 93).

18. RUMÄNINEN, 1969, Pl. 91.

19. ALFS, 1941, Fig. 5; ROBINSON, 1975, Pl. 474.

20. SCHLEIERMACHER, 1984, No. 1, 71, 73, 80, 82-3, 99, 112.
Unfortunately a group of three stelae at Tipasa (Algeria), probably dating to the reign of Pius, has only unarmoured depictions (ibid., No.65-7).

21. For the flexibility of scale on the Mantua battle frieze see n.16. For overlapping scale lappets see FRANZONI, 1987, No.30.

22. See STONE, 1934, Fig.36.1, 53, 61.3, 83.2. Italian Renaissance scale or plate cuirasses with 'pteruges', and the 'barbute' type of helmet were obviously influenced in their development by classical artworks (ibid., Fig.121, 190, 404).

23. For representations of Gallic mail with chest-fastenings see ESPÉRANDIEU, 1907-66, No.35, 7833-4, 8613, 8653-5. These also appear on 1st century A.D. stelae, ESPÉRANDIEU, 1907-66, No.5522, 5785, 5850, 5852, 5854, 6033, 6436; 1931, No.10. Significantly, most of the latter are cavalry gravestones. For chest-bridges as small-finds see ROBINSON, 1975, 164, Pl.480.

24. ESPÉRANDIEU, 1907-66, No.5792, 5799.

25. LESSING & OBERLEITER, 1978, Pl.9; ABDUL-HAK, 1954-55, Pl.VII.


27. Ibid., No.6435.

28. V,1, XXI,2, 4, 5, 9, 10; XXII,19; XXIV,18, 22, 30, 31, 33, 37, 45; XLII,1; XLVIII,8, 11; LIII,21; LIV,7, 14; LXXI,17, 18, 20; LXXII,4, 5, 24, 27, 29; XCIV,13; CXV,10, 11, 12; CXXIX,5; CXXXVI,14, 16; CXLIV,13; CXLVI,9.

29. ESPÉRANDIEU, 1907-66, No.5790, 6207, 6209, 6213, 6255. ROBINSON, 1975, 169 interpreted these sculptural details as depicting two garments over mail, the edge of the latter represented by the wavy fringe. In the writer's opinion this is less likely.

30. ROBINSON, 1975, 149, Fig.158.

31. Officers with split tunic sleeves are seen in VI, XII, XXXV, XXXVI, XLVI, LII, LIV, LVIII, LXI, LXII, LXVI, LXVIII, XVII. In XCVII Trajan also has a split tunic skirt.

32. The view is often implicit but it is summed up by COUSSIN, 1926, 444-6 who, in following this reasoning, had to postulate that troops unquestionably wearing mail on the Column and the Great Trajanic Frieze were legionaries or praetorians.

33. ESPÉRANDIEU, 1907-66, No.6207, 6209, 6254; TUF, 1984, Fig.28. The small number is a bias of the surviving sample exaggerated by the unusual occurrence of armoured, as compared with unarmoured, representations (see BISHOP, 1988, n.169). Examples that have lost both their inscription and diagnostic shafted weapons, but which have mail with fringed undergarment, may also depict auxiliaries because the latter feature does not generally occur on legionary stelae (see ESPÉRANDIEU, 1907-66, No.5853, 6213; TUF, 1984,
Fig. 17).


35. BISHOP, 1985b, 10-11.


38. COULSTON, 1988b, n.103. Even 'light' infantry skirmishers seem to have been well equipped with plate and mail torso and arm defences. See MICHAEL, 1983.

39. I,3; LIV,14; LVII,5; LXV,6; LXXIV,7.

40. ÉSPÉRANDIEU, 1907-66, No.6207, 6819.


43. ÉSPÉRANDIEU, 1907-66, No.6819.

44. For example, CURLE, 1911, Pl.XXXIV.1-2; RICHMOND, 1968, Fig.58.A4; MANNING, 1985, 147.

45. BUCKLAND, 1978, Fig.3-4.

46. HOFMAN, 1905, No.34, 49; ÉSPÉRANDIEU, 1907-66, No.1323, 4012, 4017, 4123, 4126, 4677, 4918, 5792, 5799, 5886, 5901, 5905, 5919, 5954, 6078, 6125, 6142, 6207, 6209, 6250, 6254, 8459, 9245; 1931, No.16, 35, 50, 96-7, 99, 143, 194, 222, 324, 342, 357, 436; FEIWMANN, 1957, Metope No.8, 14, 17, 24 etc., Pl.7.1; PICARD, 1957, Pl.XII, XIV, XXVIII; AMY ET AL., 1962, Pl.45-8; ROLAND, 1977, Pl.24; KEPPIE & ARNOLOD, 1984, No.12; COULSTON & PHILLIPS, 1988, No.65, 67-8, 161. One of the Ephesus ivory panels also depicts a horizontal shield-grip (LESSING & OBERLEITER, 1978, Pl.8).

47. STEAD, 1985, Pl.XI (Clonoura); ROSENBERG, 1937, Fig.30-2 (Hjortspring). See also CONNOLLY, 1981, (Neuchâtel).

48. STONE, 1934, 308, Fig.390.
49. Circular shields seem to have been used primarily by standard-bearers and musicians in the early imperial period (see 5.5-6). Very large, round shields were adopted by cavalry during the 3rd century AD (SCHLEIERMACHER, 1984, No.94; HOFMANN, 1905, No.54) and in infantry employment by the end of the century (ÉSPÉRANDIEU, 1907-66, No.5496; FRANZONI, 1987, No.23; LAUBSCHER, 1975, Pl.30.2, 42.2, 51; L'ORANGE & VON GERKAN, 1939, Pl.8). A round German shield has been found at Thorsbjerg, Denmark (ENGELHARDT, 1863, Pl.8.1).

50. BUCKLAND, 1978, 249, Fig.7.

51. Valkenburg oval: 130-50 x 64cm; sub-oval: 110 x 70cm. See GROENMAN-VAN WAATERINGE, 1967, 68-71; VAN DRIEL-MURRAY & GECHTER, 1984, 33. Some reduction is necessary for the cover to fold round the shield rim.

52. For the Dura dimensions see ROSTOVZEFF et al., 1939, 328. For the Doncaster shield, which was found in a very disturbed state and the full dimensions of which were unclear, see BUCKLAND, 1978, 254. In the revised reconstruction a notional length has been suggested in proportion to the width and in comparison with other shield finds. Buckland suggested 64 x 125cm.

53. CONNOLLY, 1981, 52-3; WAURICK, 1983, 282-3, Pl.41.4-5 (compare with Pl.47.2, 48.1).


55. A striking exception is the carriage of shields on the mausoleum of the Julii at St. Rémy (ÉSPÉRANDIEU, 1907-66, No.114; ROLAND, 1969, Pl.25-7). This monument depicts infantry and cavalry battle scenes following Hellenistic traditions in composition, figure poses, body armour and shields. Details of saddles, pilum and helmets are, on the other hand, drawn from contemporary (late 1st century B.C.) usage. Shields are of the dished Greek hoplon type. For details of equipment see ROBINSON, 1975, 16; BISHOP, 1988, 87-8. For the Hellenistic background see KLEINER, 1980.


57. The scholar most determined to see the oval shields as identificational badges for specific units has been ROSSI, 1966; 1971a, 114-8. This has been criticised by HASSALL, 1973, 172; SPEIDEL, 1973, 728.

58. ROBINSON, 1975, Pl.411-12. See also KOEPPEL, 1983, No.4.

59. REINACH, 1909, 290.

60. ÉSPÉRANDIEU, 1907-66, No.5816, 5819, 5822.

61. CROUS, 1933, 94-7. For similar motifs on shields making up a trophy on the Arcus Titi see PFANNER, 1983, Pl.76.
62. The best drawings of these trophies is REINACH, 1909, 289-90. For their dating and context see LEHMANN-HARLIFEBEN, 1923-24; NASH, 1981, II, 125, P1.839-40.

63. For auxiliary animal standards see WEBSTER, 1986, 112-4; COULSTON & PHILLIPS, 1988, No.193. Animal badges appear in the form of a stork on the side of an altar from Vindolanda (Northumberland, ibid., No.45) and a bull and a capricorn on a building inscription at Brough-by-Bainbridge (TUFI, 1983, No.106). Badges do not appear on tile-stamps but the bird on lead seals from South Shields (Tyne and Wear) may represent an auxiliary totem (pers. comm. Mr W. Hubbard).

64. ROSSI, 1971a, 100. Even the empire-wide application of shield-patterns in the Notitia Dignitatum has been called into doubt (GRIGG, 1983).

65. GROENMAN-VAN WAATERINGE, 1967, Fig.16; BUCKLAND, 1978, Fig.6-7.

66. ÉSPÉRANDIEU, 1907-66, No.6125.

67. BENSEDDIK, 1979, Fig.28.

68. CICORIUS, 1896, 191-2; PARIBENI, 1926, 233-4; ROSSI, 1971a, 150, 226; STROBEL, 1984, 135. The cohors II Hispanorum scutata Cyrenaica equitata has proved an irresistible identification.

69. KÄHLER, 1951, Pl.29; KOEPPEL, 1984, No.7, Fig.11.14. They were also carried in triumphal processions (see 4.5, n.3)

70. XXXII,9, 10, 11, 13, 17, 18; XLIV,2; XCIV,8.

71. Contrary to the blanket description of gladii for legionaries and spatha for auxiliaries in Tac., Ann. XII,35 which has led more than one scholar astray (CHEESMAN, 1914, 125-6). For this historian's loose use of terms for rhetorical effect see WALKER, 1952, 53-7; BISHOP, 1986b, 39-40.

72. ÉSPÉRANDIEU, 1907-66, No.5819.

73. Ibid., No.6207 (Firmus); 1931, No.16 (Licaius); ÉSPÉRANDIEU, 1907-66, No.6125 (Daverzus).

74. Ibid., No.5787, 6209, 6254; BENSEDDIK, 1979, Fig.14, 28; TUFI, 1984, Fig.7, 28, 37.

75. Tac., Ann. XII,35.


77. LEVI, 1931, Pl.LXXXVII; ROBINSON, 1976, Pl.451.

78. Ibid., Pl.474.

79. RUPRECHT'SBERGER, 1982, No.244, dating to end 1st century A.D.,
first half 2nd century.

80. See n.31, above.

81. WILD, 1968, 226. For garments on the Gundestrup Cauldron see GLOB, 1977, Pl.70; CONNOLLY, 1981, 114. The common modern use of the term 'bracae' for these short trousers is a misnomer (e.g. WEBSTER, 1969, 123). 'Feminalia' derived from 'femur' (cf. Suet., Augustus 82). 'Bracea' was used repeatedly of barbarian long trousers (Divus Iulius 80; Ovid, Tristia 5, 7, 49; Tac., Hist. II,20; Juv., Sat. II,169). The Gundestrup Cauldron provides a number of important details of clothing, shields, spurs and horns which are relevant to the present study, and its vessel's stylistic affinities have been recently re-examined by BERQUIST & TAYLOR, 1987.


83. Paenulae: ESPERANDIEU, 1907-66, No.5861, 6207, 6575; 1931, No.9, 16, 473. Saga: 1907-66, No.6125, 6136, 6137, 6209; BENSEDDIK, 1979, Fig.14.

84. CICHORIUS, 1896, 177-8; PETERSEN, 1899, 45. For velites with wolf-skins see Polybius, VI,22. For their function HARMAND, 1967, 39, 41; KEPPIE, 1984, 33-5 and see Livy, XXVI,4.

85. COULSTON, 1985, 235, 279.

5.4 Auxiliary Cavalry

1. SCHLEIERMACHER, 1984, No.5, 6, 17, 18, 20, 21, 27, 36, 43, 45, 46, 51, 52; ESPERANDIEU, 1907-66, No.6178; LEVI, 1931, Pl.LXXXVI; ROBINSON, 1975, P1.472. Schleiermacher's work is now the definitive catalogue study of rider tombstones, superceding regional studies by Esperandieu, Hofmann, Schober, Benseddik etc. However, her coverage is not exhaustive, the descriptions not as full as they could be and, most surprisingly, she still entertains the possibility that leather armour is depicted on some stelae (SCHLEIERMACHER, 1984, 22-3, 97, 136). Unfortunately, there is no comparable study of figural infantry tombstones.

2. Ibid., No.17; BISHOP, 1988, 71-4.

3. PHILLIPS, 1975, No.68; SCHLEIERMACHER, 1984, No.77.

4. Ibid., No.9, 55-7, 76; KOEPPEL, 1983, No.33, 35.

5. See also a figure with scale on a fragment of the Great Trajanic Frieze in the Louvre (KOEPPEL, 1985, No.16).

6. MANSELL, 1938, Fig.201-3. 1st-2nd century A.D. Thracian nobles who had presumably served in the auxilia were buried with Roman military equipment, including scale armour (see also DUVUKLIEV, 1986, No.94-5). The writer is very grateful to Dr H. Bujukliev for making this material available for study in Stara
Zagora Museum.

7. ROBINSON, 1975, 162-3. However, whilst leather tassets found at Dura Europos are undeniably a lamellar form, supposed western lamellae may in fact be a hybrid variant of scale armour. Lamellar would certainly have been used by Roman cavalry on the eastern frontiers (COULSTON, 1986, 60-3).

8. For example SCHLEIERMACHER, 1984, No.73.

9. Ibid., No.5, 6, 8, 17-8, 20-1, 26-7, 36, 51. Two signiferi on Mainz stelae and a legionary on a pedestal relief also have hem and shoulder-piece vents to facilitate movement (ESPERANDIEU, 1907-66, No.5791, 5799, 5816).

10. ROBINSON, 1975, 89-106. For examples on stelae see SCHLEIERMACHER, 1984, No.5-6, 8, 17-21, 27, 36, 42, 45-6, 48, 51-2, 75, 77, 79, 99. Functional considerations gave rise to an interestingly close similarity in coverage, peak, crest and perforated cheek-pieces to improve hearing, between 2nd century Roman cavalry helmets and 16th to 17th century European burgonets (see ROBINSON, 1975, Pl.256-62; STONE, 1934, Fig.45.1, 201.2, 203.5).


13. Ibid., No.4, 6, 9, 21, 27, 36, 38, 43, 46, 52, 55-6, 75, 92, 109, 128. These are mainly sub-oval, rather than hexagonal. A Republican period relief from S.M. di Fontigliano (Italy) depicts a number of horsemen with these shields (D.A.I. Neg.80.2428). A figure of a cavalryman on a lead coffin from Glamorgan also carries a sub-oval shield (MURRAY THREIPLAND, 1953, Fig.1, Pl.XVII).


15. Arrian, T.T. 37.2; see LAWSON, 1980, 178-9, Fig.3.

16. Awkwardly held shields: XXIV,62, 69; XXXVII,3-5; XLII,1; LVIII,1; LXII,24; XCIV,14, 20, 22; CVII,4; CVIII,18; CXIII,1, 3, 4; CXIV,1-4; CXLV,1, 4, 8; CXLIII,1; CLI,5. For the clarifying effect of colour-coding see HAMBERG, 1945, Pl.40-1, 43 (transparencies).

17. XXI, XXIV, CXLII, CXLIII, CXLV.

18. XXXVI, XL, LVII, LXXIV, LXXXIX, CII, CXLV.

19. SCHLEIERMACHER, 1984, No.5-9, 11, 17-21, 26-7, 36-8, 42, 45-8, 51, 75, 79, 92.

20. SPEIDEL, 1970, Pl.XV.1; ROSSI, 1971a, 228; SCHLEIERMACHER, 1984, No.98.

22. There is no definitive published work on 1st-2nd century A.D. spathae, in contrast with short swords. For particularly fine examples from Newstead see CURLE, 1911, 183-5, Pl.XXXXIV.6-7. The burials of cavalrymen at Vize (Bulgaria) and Nawa (Syria) were both accompanied by spathae (MANSEL, 1938, No.8, Fig.203.b; ABDUL-HAK, 1954-55, 187).

23. Tac., Ann. XII, 35.

24. SCHLEIERMACHER, 1984, No.18, 27.

25. LINDENSCHMIT, 1870, IV, Pl.III.6 (Mainz); ULBERT, 1969c, Fig.6, Pl.60.1-2 (Rheingönheim).

26. ULBERT, 1969a, 111-5, Fig.2, Pl.17-19, 25.

27. PLANCK, 1975, Pl.79.3. Ease of drawing has been demonstrated by Mr P. Connolly (pers. comm. and at Roman Military Equipment Conferences IV, 1986; V, 1987).


30. In the same manner shafted weapons fill the space above heads on the Great Trajanic Frieze and the Borghese reliefs (KOEPPEL, 1985, No.9 (adventus and head presentation sections), 11-12).


32. Hastae: ibid., No.6, 9, 18, 22, 42, 78-9.

33. Pinning'fallen enemies: ibid., No.55-7, 75, 82, 116. A stela from Ribchester (Lancashire) with a pinning composition has been missed by Schleiermacher, and is otherwise unpublished. The lengths of shafted weapons on stelae may of course have been governed solely by the sculptor's readiness to extend the shaft onto the frame outside the aedicula, on his reluctance to obscure the rider and horse by a shaft passing across them, and by the choice of figure poses. However, two stelae definitely depict long lances (ibid., No.65, 67).

34. ESPERANDIEU, 1907-66, No.6449, 6454, 6463, 6465; 1931, No.32; SCHLEIERMACHER, 1984, No.10, 14, 17, 20, 27, 29-30, 36, 42, 46, 52, 96, 117, 123.


37. COULSTON, 1986, 60.

38. STROBEL, 1984, 110.


42. MANNING, 1985, 69-70.

43. For the harness terminology employed here see BISHOP, 1988, Fig.25.

44. XXXVI,22; XXXVII,7; XXXVIII,25; LVII,2; LXXXIX,6, 8, 9; XCVII,1; CII,3; CIV,32; CXLV,4, 6, 9, 10.

45. VIII,3; XXIV,31; XL,69; XLII,1, 2, 3; XCVII,3.

46. XXI,9, 11; CXLV,6, 9, 10, 12.

47. Without vertical straps: V,12, 15, 18; VII,1, 3; XXI,9, 10; XXIV,24, 28, 31; XL,62; XLII,1, 3; LXXIV,6. With straps: LXXXIX,1-4, 6-8; CII,1, 2; CIV,22, 32.

48. V,12, 187; VII,1; XXI,9; XXXVI,15; XXXVII,2, 4, 7, 8; XXXVIII, 25; XLIX,9; CIV,32.

49. XXI,9, 11; XXIV,24; XXXVII,25; XLII,1-3; LVII,1; LVIII,1, 3; LXXXIX,8; XCVII,3; CXLII,1; CXLIII,1; CXLV,4, 6, 9, 12, 13.

50. VII,1; XLII,2; CIV,32.

51. S. 18; XLIX,9, 22; LXXIX,1, 3-5.

52. SCHLEIERMACHER, 1984, No.17, 75; BISHOP, 1988, 71-7.


54. BISHOP, 1988, 105-9.

55. XXIV,24; XXXVI,22; LVIII,1, 3; XCVII,1, 5, 8; CII,2, 3; CIV,22, 32; CXLII,1, 4; CXLIII,1; CXLV,6, 9, 12.

56. SCHLEIERMACHER, 1984, No.4, 42, 56-7, 73-8 (stelae); Inv.No.1, 2, 4-7 (Adamklissi); KOEPPEL, 1986, No.5, 7 (Arch of Constantine).

57. ESPÉRANDIEU, 1907-66, No.6443, 6454, 6465; SCHLEIERMACHER, 1984, No.6, 17, 23, 26, 42, 77 (stelae). See also horses on the Pius Column pedestal (VOGEL, 1973, Pl.9, 15, 20-9) and on a fragmentary 'historical' relief from Rome (GUERRINI, 19871, No.48).


60. GLOB, 1977, Pl.70; CONNOLLY, 1981, 114; BISHOP, 1988, Fig.20.

61. GHIRSHMAN, 1962, Pl.90, 119; COLLEDGE, 1976, Fig.26, Pl.32.

62. WEBSTER, 1971 (Fremington Hagg); JENKINS, 1985 (Xanten); BROUWER, 1982 (Doorwerth); ABDUL-HAK, 1954-55 (Nawa).

63. LEVI, 1931, Pl.LXXVII; ROBINSON, 1975, Pl.451 (Mantua); AMY et al., 1962, Pl.29-30 (Arch at Orange). See BISHOP, 1988, 94.

64. SCHLEIERMACHER, 1984, No.20, 74, 78-9.

65. Dr M.C. Bishop, pers. comm. The writer is particularly grateful to Dr Bishop for discussing horse harness in general.

66. SCHLEIERMACHER, 1984, No.27. See also No.21.

67. ROLAND, 1969, Pl.33 (St. Rémy); AMY et al., 1962, Pl.44 (Orange); ESPÉRANDIEU, 1907-66, No.5828, 6448, 6454-5, 6463, 6465, 6509, 8437; SCHLEIERMACHER, 1982, 5, 6, 8, 9, 17-22, 26-7, 30, 36, 42, 45-7, 51, 75, 79, 92 (stelae).


70. COULSTON, 1986, 61-2; BISHOP, 1988, 113-4.

71. ESPÉRANDIEU, 1907-66, No.5828, 6448, 6454-5, 6463, 6465, 6509; SCHLEIERMACHER, 1984, No.6, 20, 22, 26-7, 30, 46, 75 (stelae); CONNOLLY, 1981, 114; BISHOP, 1988, Fig.20 (Gundestrup); LAWSON, 1978, Pl.52.2; RUPRECHTSBERGER, 1982, No.243; BISHOP, 1988, 88-9 (terracotta figurines).

72. ESPÉRANDIEU, 1907-66, No.6448, 6455, 6509. In addition, No.5251 which is a sculpture in the round appears to confusedly depict triplets with plates attached to a shoulder phalera. For plate finds see BISHOP, 1988, 94.

73. AMY et al., 1962, Pl.44; BISHOP, 1988, 84-7.

74. LEVI, 1931, Pl.LXXVII-II; KOEPPEL, 1966, No.5; SCHLEIERMACHER, 1984, No.5, 22, 26.

75. For example SCHLEIERMACHER, 1984, No.76.

76. ESPÉRANDIEU, 1907-66, No.6448, 6454.

77. ROSTOVZEF et al., 1936, Pl.XXII. See BISHOP, 1988, Fig.30.

78. ESPÉRANDIEU, 1907-66, No.6463, 6465.
79. For example AMELUNG, 1903, No. 11c, 137d, 137f, 137k, 137l, Pl. 23, 28 (Galleria Lapidaria, Vatican); CUMONT, 1942, Pl. XLIV.1; SMITH, 1904, No. 2392 (British Museum). There are very large unpublished groups of calo and horse reliefs on equites singulares stelae in the Musée Epigraphico (Vatican) collection and in the catacombs of SS. Marcellino e Pietro under the Tor Pignattura (pers. obs.). See also ESPÉRANDIEU, 1907-66, No. 6575 (Neuss).


81. RICHMOND, 1968, Pl. 46A. Stallions: XXXVII, 2; XXXVIII, 17, 25; XLII, 1; XCVII, 5; CIV, 22. The first three and the last two incidences form two groupings, perhaps reflecting the work of a particular sculptor.

82. SCHLEIERMACHER, 1984, No. 8, 18, 26, 56.

5.5 Standard Bearers

1. ESPÉRANDIEU, 1907-66, No. 5790 (Musius); FRANZONI, 1987, No. 30 (Festus). For other representations and their identification see DOMASZEWSKI, 1885, 29-34; RENEL, 1903, 143-90. To these may be added KEPPIE & ARNOLD, 1984, No. 149. For an aquilifer with an aquila and the title, from Istanbul, see SPEIDEL, 1976, Fig. 1.


4. BAATZ, 1980, Pl. 90.1; KEPPIE, 1984, Pl. 13. For animal imagines see DOMASZEWSKI, 1885, 74 (who identified the Column ram as an auxiliary standard); RENEL, 1909, 191-233.

5. COULSTON & PHILLIPS, 1988, No. 193.


7. TUDOR, 1968, Fig. 118; ALEXANDRESCU-VIANU, 1977, Fig. 1 (Sucidava); TUFI, 1983, No. 44 (York). See also HOFMANN, 1905, No. 10.

8. DOMASZEWSKI, 1885, Fig. 34-52; KEPPIE, 1984, Pl. 4.12-3, 16 (coins); ALLASON-JONES & MIKET, 1984, Pl. VII (Tyne boss); ROBINSON, 1975, Pl. 186 (Niedermärmter helm). For legionary signa in general see DOMASZEWSKI, 1885, 35-53; RENEL, 1909, 263-8; VON PETRIKOVITS, 1983, 179-92.

9. For example HOFMANN, 1905, No. 9, 11, 12, 14; ESPÉRANDIEU, 1907-66, No. 5792, 5799; DARCOCZI et al., 1951, No. 29; WEBSTER, 1985, Pl. X; KEPPIE, 1984, Pl. 14; FRANZONI, 1997, No. 8, 54, 57, 60. For signa in general see DOMASZEWSKI, 1885, 35-56; RENEL, 1909, 258-68. The type appears frequently on the Marcus Column and on the Arch of

10. IV, VIII, X, XXII, XXIV, XXVI, XXVII, XLVI, XLVIII, LXI, LXXVII, LXXVIII, CXXV, CXXVIII.

11. C.I.L. XIV, 2523 = I.L.S. 2662; DOMASZEWSKI, 1885, Fig.5; DURRY, 1938, Pl.IV; MAXFIELD, 1981, Pl.12.a.

12. KOEPEL, 1985, No.10 (Borghese relief); DOMASZEWSKI, 1885, Fig.80; BRILLIANT, 1967, Fig.38 (Arcus Argentariorum); KOEPEL, 1984, No.31 (Museo Gregoriano Profano, Vatican); MAXFIELD, 1981, Pl.5.c-d (Musei Capitolini). See, also, standards on an Antonine battle sarcophagus (REINACH, 1897c, 260.2) and flanking figures on two fine funerary altars (Galleria Lapidaria, Vatican: AMELUNG, 1903, No.163, Pl.30; No.533, Via Casilina, pers. obs.), all from Rome. For praetorian signa in general see DOMASZEWSKI, 1885, 56-69.

13. V, VIII, XXIV, XXXIII, XL, XLI, LII, LIII, LIV, LXXV, LXXIX, LXXXVI, LXXXVII, XCVIII, CII, CIV, CVI, CXIII, CXVIII, CXXV, CXXVIII.


16. DOMASZEWSKI, 1967, 23 (praetorian), 48 (legionary), 55 (auxiliary), 60 (numeri). Vexilla on the Great Trajanic Frieze may belong to equites praetoriani (see 5.18). For four stelae depicting mounted vexillarii, two perhaps legionary, see HOFMANN, 1905, No.118 (Ptuj) and BARKOCZI et al., 1954, 41 (Intercisa); ECKHART, 1981, No.31-2 (Ovilava). See also COULSTON & PHILLIPS, 1988, No.400.

17. DOMASZEWSKI, 1967, 58. For the vexillum of cohors XX Palmyrenorum on the Tribune Terentius fresco from Dura see CUMONT, 1926, Pl.L.

18. For non-military vexilla see ROSTOVTZEFF, 1942, 97-106.

19. ROSTOVTZEFF, 1942, Pl.VI; GHIRSHMAN, 1962, Pl.98; COLLEDGE, 1977, Pl.34-5.

20. MAXFIELD, 1981, Pl.5.c-d (Capitolino); DURRY, 1928, Fig.4; CAGIANO DE AZEVEDO, 1951, No.119, Pl.XXXVI.65 (Villa Medici). For praetorian vexillarii and speculatores see DOMASZEWSKI, 1967, 20.

21. ROSTOVTZEFF, 1942, Pl.IV.

22. RITTERLING, 1919, Fig.19.

23. Fringe present: IV, V, VII, VIII, LIV, LXXIX, CV, CVI, CXVII,
CXXIII. Absent: XL, LI, LXXXIX, CII, CXVII.

24. VII, VIII, XL, LIV, LXXXIX, LXXXIX, CV, CVI.

25. KOEPPEL, 1986, No.29.


27. VAN DRIEL-MURRAY & GECHTER, 1984, No.137. This legio may have used two badges, as did other legiones. These units, like II Augusta and IV Macedonica, had two zodiac signs, perhaps representing the birthday of the founder and the date of foundation. The Minerva could have replaced the former (see KEPPIE, 1984, 139-40, 142-3, Appendix 2 and Pl.13).

28. WRIGHT & RICHMOND, 1955, No.90, 126(?) (Chester); ESPE RANDIEU, 1907-66, No.5850 (Mainz); ECKHARDT, 1976, No.86 (Enns). For a possible imaginifer on a sarcophagus from Brigetio (Hungary), see BARKOCZI, 1951, No.91, Pl.XXIV.

29. HOFMANN, 1905, No.58 (signum, Ragusa); ESPE RANDIEU, 1907-66, No.5496 (infantry cockerel, Strassburg), 6282 (cavalry bull, Bonn), 6575 (cavalry lion, Neuss), 6255 (signum, Bonn); COULSTON & PHILLIPS, 1988, No.193 (infantry bull, Chester); NOELKE, 1977, 7 (signum, Neuss). See RENEL, 1909, 197-206, 214-33; WEBSTER, 1986.

30. As described by Tac., Hist. IV,24; Ger. 7. See RENEL, 1909, 65-72, 112-48. Animal standards were often represented amongst spolia, for example on the Arch at Orange (AMY et al., 1962, Pl.44).

31. SCHLEIERMACHER, 1984, No.45 (Worms), 75 (Cirencester), 77 (Hexham). For an abstract Celtic standard on a relief from Bormio (Italy) see PAULI, 1973, Pl.7.1.

32. VIII, LXXXV, CXIII, CXXVIII.

33. For standards present in depictions of religious ceremonies see KEPPIE & ARNOLD, 1984, No.68; KOEPPEL, 1986, No.31; STRONG, 1961, Pl.132.

34. VIII, LIII, LXXXVI, XC VIII.

35. XXXIII, CII, CXXV.

36. X, XXVIII, XLII, LXXVII, CIV, CXXVII.

37. VII, XXIV, XLI, LXIII, LXXIX, LXXXVI, CV, CXVII, CXXIII.

38. R.I.C. I, Caligula, No.23-5; Nero, No.61-72; Galba, No.150; II, DOMITIAN, No.288; Trajan, No.655-8; HAMBERG, 1945, 135-49; WARD-PERKINS, 1951, 287-8.

39. XVII, XXVIII, XXXIX, LXVIII, C, CXXX. This is in contrast to, for example, the presence of standards in submission and presentation
scenes on the Arch of Constantine Antonine panels (KOEPPEL, 1986, No.28-30).

40. CICHORIUS, 1896, 106, 136; 1900, 56-8; PETERSEN, 1899, 12, 15-16, 25-6. This approach was opposed by STUART-JONES, 1910, 441-4; DAVIES, 1917, 79; 1920, 5.

41. IV, VIII, X?, XXII, XXVII, XLVI, XLVIII, LXI, LXXVII.

42. VIII, LI, LIII, LXIII, CIV, CVI.

43. MICHON, 1909, Fig.13; ROBINSON, 1975, Pl.423. For the aquila see KEPPIE, 1984, 233-4.

44. V, VIII, XXIV, XL, LI, LIII, LIV, LXI, LXIII, CII, CIV, CVI, CKVIII, CXXIII.

45. XL, LI, LIV, LXXIX, CII, CVI, CXVII, CXXIII.

46. This has led to some misguided speculation as to the nature of the men's dress (GAUER, 1977, 58-60; SPEIDEL, 1984, 33), but such discussion has ignored the simple fact that these men of the auxiliary infantry figure type only lack mail chiselling (see 3.2.6), they do not wear any special form of 'camp dress' and they do indeed have loricas.

47. GAUER, 1977, Fig.1.

48. Praetorian siga would have been visible at any time when a body of praetorians was present. For adlocutiones see R.I.C. I, Caligula, No.23-5; Nero, No.61-72; Galba, No.150; II, Domitian, No.288; Trajan, No.655-8; CAMPBELL, 1984, 74-5. For standards in a triumph see Tac., Hist. II,89 and EHLERS, 1948, 509. For standards grouped around emperors and other military commanders see Tac., Hist. I,36, 44; II,29.

49. STROBEL, 1984, 103-4.

50. ÉSPÉRANDIEU, 1907-66, No.5792, 5799.

51. Ibid., 6255.

52. NOELKE, 1977, 7.

53. DOMASZEWSKI, 1885, Fig.07; HORNANN, 1905, No.58. Small round shields are carried by vexillarii on a coin of Hadrian (DRILLIANT, 1963, Fig.3.65).


55. ÉSPÉRANDIEU, 1907-66, No.5790.


57. WEBSTER, 1985, Pl.IX.b; COMSTOCK & VERMEULE, 1976, No.237 (Boston); MICHON, 1909, Fig.13; ROBINSON, 1975, Pl.423 (Louvre).
58. KOEPPEL, 1985, No.10, Fig.17.4.

59. DOMASZEWSKI, 1985, Fig.8.

60. BENNDORF & SCHÜNE, 1867, No.1; DOMASZEWSKI, 1885, Fig.82; KOEPPEL, 1984, No.17 (Vatican); CARDUCCI, 1968, 53, Pl.c (Turin).

61. HASSEL, 1966, Pl.6.2; ANDREAE, 1977, Fig.415.


63. For the rôle of standards and the vulnerability of bearers see Caes., B.G. IV,23; Tac., Ann. I,65, 68; Veg., II,22; III,5; DOMASZEWSKI, 1885, 1-12; RENEL, 1903, 290-7; SPEIDEL, 1976, 140-3.

64. Veg., II,16.

5.6 Musicians

1. AMELUNG, 1903, No.137k, Pl.28 (Galleria Lapidaria, Vatican); HOFMANN, 1905, No.64; SCHÖBER, 1923, No.158 (Aquincum); HOFMANN, 1905, No.65 (sarcophagus, Aquincum); KUSZINSZKY, 1934, No.313 (Aquincum).


3. Cornua appear on a relief depicting a funeral, from Amiternum (San Vittorino, BANDINELLI, 1970, Pl.60), and on gladiatorial mosaics from Zliten (Libya, AURIGEMMA, 1926, Fig.87-9) and Nennig (W. Germany, STRONG, 1980, Pl.177). Civilian cornicines appear on two stelae at Mantua (LEVI, 1931, Pl.LXXXIX) and Bordeaux (ÉSPÉRANDIEU, 1907-66, No.1107).

4. WARD-PERKINS & CLARIDGE, 1976, No.303. For an Etruscan copper-alloy cornu see CONNOLLY, 1981, 134. BEHN, 1912 dealt with musical instruments in a military context and recent reconstruction work has been undertaken by BARTON, 1987.

5. ÉSPÉRANDIEU, 1907-66, No.16 (Susa); HASSEL, 1966, Pl.18.2 (Benevento); Marcus Column III,30, 32; XXX,20; XXXVII,6 (numbering follows PETERSEN et al., 1896); L'ORANGE & VON GERKAN, 1939, Pl.7b.

6. REINACH, 1912b, 260.2; ANDREAE, 1977, Pl.144.

7. Cornua are depicted on tombstones of equites from Györ, Hungary (SPEIDEL, 1976, Fig.16) and Mainz (ÉSPÉRANDIEU, 1907-66, No.5854). Cornua not associated with particular troops appear on sculptures at Bonn (ibid., No.6329) and Split (Archaeological Museum, pers. obs.), and a republican period relief depicts a player with an instrument very similar to the Etruscan type (GARCIA Y BELLIDO, 1949, No.429).

8. STRONG, 1980, Pl.177.
9. SPEIDEL, 1976, Fig.2. For another representation see Fig. 5.


11. Veg., III, 5. Stelae: SPEIDEL, 1976, Fig.9-13. See also Varro, de lingua latina V, 117.

12. REINACH, 1912b, 260.2.

13. HOFMANN, 1905, No.64; SCHÖBER, 1923, No.158. Two leather shield covers for circular boards, 45cm in diameter, have been recognised in the material from Castleford fort excavations (Yorks.). These may represent the type of shield carried by standard-bearers and musicians on the Column (Dr C. van Driel-Murray, pers. comm.).

5.7 Unarmoured Soldiers

1. XXXIII, LXXIX, LXXXI, LXXXIV, LXXXVI, LXXXVII, CI.

2. KOEPPEL, 1985, No.8, Fig.10.5; STRONG, 1926, Fig.179; BANDINELLI, 1971, Pl.175.


4. KOEPPEL, 1986, No.8, Fig.10.1-2, 4-5; 1986, No.1, Fig.2.2, 6. This functioned in the same fashion as the Japanese sage-o (STONE, 1934, 534).

5. For example, ESPERANDIEU, 1907-66, No.5792, 5850, 6207, 6209, 6213, 6254, 6255 (armoured); 5797, 5835, 6125, 6136-7, 6253, 6835 (unarmoured).

6. KOEPPEL, 1985, No.1.

7. ANDREAE, 1977, Fig.426-9 (Benevento); KÜHLER, 1951, Pl.28-30 (Pozzuoli); KOEPPEL, 1984, No.7, Fig.11.16 (Cancelleria); 1985, No.8, Fig.10.1-5 (Chatsworth).

8. AMELUNG, 1903, No.163 (Rome); Lateran Magazzini, Vatican, pers. obs.; FRANZONI, 1987, No.9 (Verona), 48 (Reggio Emilia); KOS, 1978, Pl.I.1-2 (Corinth, Piraeus); BENSEDDIK, 1979, Fig.14 (Cherchel); ESPERANDIEU, 1907-66, No.6575 (Neuss); HASSALL & TOMLIN, 1984, Pl.XXIV (Gloucester).

9. ESPERANDIEU, 1907-66, No.5822 (pedestal), 5835 (Cordus).

10. AMELUNG, 1903, No.163; stela at No.533, Via Casilina, pers. obs.; FRANZONI, 1987, No.38, 61, 71 (praetorian); 9, 48 (urban), 44; KOLB, 1973, 26.2 (fleet); KOS, 1978, Pl.I.1; KEPPIE & ARNOLD, 1984, No.90; ESPERANDIEU, 1907-66, No.5494, 5495, 5497-9, 5816, 6252 (legionary); 5861, 6207, 6575; 1931, No.16 (auxiliary).
11. KOEPPEL, 1984, No. 7, Fig. 11.15-6 (Cancelleria); ANDREAE, 1977, Fig. 426-9; 1979, Pl. 80.1, 81.2, 82.1 (Benevento); KOEPPEL, 1985, No. 8, Fig. 10.3 (Chatsworth); KÄHLER, 1951, Pl. 28-30 (Pozzuoli). See also a fragmentary figure supposedly belonging to the Arch of Titus (GJOESEN, 1976, Fig. 2-4).


13. HASSALL & TOMLIN, 1984, No. 1, Pl. XXIV (Gloucester); BISHOP, 1983b, Fig. 2.1, 4 (London); ESPERANDIEU, 1907-66, No. 5495 (Strassburg).

14. Veg., I, 20 commented on the weight of armour.

15. For servants and porters see 5.9, n. 12.

16. The body was clearly unarmoured as the published photographs show (FRAIA & D’ORIANO, 1982, 20-1; JUDGE, 1982, 691; GORE, 1984, 572-3).

17. ANDREAE, 1977, Fig. 426-9. See also CARDUCCI, 1968, 53.b; KOEPPEL, 1984, No. 3 (Turin and Rome reliefs); PFANNER, 1983, Pl. 45, 54, 80-7 (Arcus Titi); BRILLIANT, 1967, Pl. 49-59 (Arch of Severus, pedestal reliefs). The triumphal frieze on the Arch of Severus, Forum Romanum, exceptionally depicts armoured soldiers escorting prisoners (ibid., Pl. 44-8).

18. Tac., Hist. II, 68, clothing contrasting with Amm. XVI, 10, 8, a description of shining armour.


21. Tac., Ann. III, 2; IV, 14, 59; XI, 1; XIV, 57; XV, 33, 46; XVI, 9, 15; Hist. II, 63; Suet., Tiberius 60.

22. See Pet., Sat. 83.


24. COULSTON, 1987, 149.

25. This may have been a consideration purely for the individual soldier because there is room for doubt that Roman troops marched in cadenced step.

26. For example, for the Renaissance period and in general see HALE, 1985, 127-9 and COULSTON, 1988a, x.

27. LXXVI, 1, 4; LXXXVII, 1, 2, 4-7, 10; LXXXVIII, 4, 5.

28. KOEPPEL, 1984, No. 7, Fig. 11.15, 17.
29. KHHLER, 1951, Pl.28; VERMEULE, 1981, Pl.19.


31. REINACH, 1912a, 36.3.

32. FRANZONI, 1987, No.7. See also No.61 for a ribbed oval praetorian shield (Belgioioso) and No.48 for an urbanicianus' oval shield (Reggio Emilia).

33. STARR, 1941, 33-5; STROBEL, 1984, 105-6.

34. See REINACH, 1912b, 378.2 (Athens); BOLLINI, 1968, Fig.24 (Piraeus); KOLB, 1973, Pl.26.2 (Athens); FRANZONI, 1987, No.44 (Ravenna). For the equipment of classiarii who, like auxiliaries, carried hastae and not pila, see BOLLINI, 1968, 87-96.

35. See Veg., V,44. More than one relief depicts ship-bound troops in armour (VIERECK, 1975, Fig.22, 31; ROBINSON, 1975, Pl.424).

36. PARKER, 1928, 100-1; STARR, 1941, 180-5; KIENAST, 1966, 62-70.


39. R.I.B. 1340 (Benwell); CLEERE, 1974 (Weald). Classiarii with other troops worked on an aqueduct near Lambaesis, Numidia (I.L.S. 5795) and detachments of 500 and 800 classiarii were present in 'Hyginus' field army drawn from Misenum and Ravenna respectively (Hyg., de Mun. Castr. 24, 30).


5.8 Archers

1. For toxophilological terms employed in this study see COULSTON, 1985, 223-4.


3. For the use of archers in this theatre see COULSTON, 1985, 296-7.

4. CICHORIUS, 1896, 310, 328-9; 1900, 189, 230.

6. Ibid., 131-4. The later Roman helmet forms appear on the Arch of Galerius at Salonika and as small-finds (Klumbach, 1973; Laubscher, 1975, Pl.12.2, 31, 65.2) and continued to develop into the Medieval period (Werner, 1949-50).

7. Petculescu & Gheorghe, 1979, Fig.1.

8. Szabó, 1986, Fig.2-9.

9. Hoffiler, 1910-11, 191-2, Fig.27; Popovic et al., 1969, No.206; Robinson, 1975, Pl.237.

10. Velkov, 1928-9, Pl.III-V.

11. Connolly, 1981, 121 (Celtic); Waurick, 1980, 309-17, Fig.189 (Mesopotamia).

12. Ibid., 315, Fig.190.


14. All Roman helmets dating to the 1st-3rd centuries A.D. found in the eastern provinces conform to normal developments in infantry, cavalry and spets types. See Robinson, 1975, Pl.175-8, 345-51, 397-8; Garbsch, 1978, Cat.I, N, 04, 030; Weinberg, 1979; James, 1986, 123, n.53.


16. Schober, 1923, No.191; Cumont, 1942, Fig.25.

17. Intercisa: coh. I Hemesenorum mill. sag. (Szabó, 1986, 424). Bumbesti: coh. IV Cypria (Petculescu & Gheorghe, 1979, 605). This may, of course, be coincidental and the conical helmet form could have nothing to do with 'oriental' auxiliaries. Another possibility is that they belonged to a Thracian tradition distinct from steppe influences but not unaffected by them. The Karagaach helmet (Velkov, 1928-9) was found in a funerary context very similar to the Thracian type burials at Vize (ManseL, 1938) and Catalca (Buiukliev, 1986) and may have belonged to a spear and shield-armed cavalryman, and not an archer at all. For Thracian helmet-practices see Waurick, 1986.

18. Hofmann, 1905, No.25; Schober, 1923, No.243 (Győr); Schleiermacher, 1984, No.23.


20. Reinach, 1909, 290 (Campidoglio trophy); Hassel, 1966, Pl.12 (Arch of Benevento). A seemingly reliable depiction of a conical quiver-cap is on the archer's tombstone from Housesteads, but even
this sculpture seems to have been complicated by the inclusion of unmilitary attributes. For a discussion of this stela see COULSTON & PHILLIPS, 1988, No.200. Significantly, no caps appear on the Column's pedestal reliefs.


22. SULIMIRSKI, 1970, 32, 120. For frescoes and reliefs see ROSTOVZIEFF, 1913, Pl.II.B, LXXXIV.1-2, 4, XCIII.1-2; KIESERITZKY & WATZINGER, 1909, No.559, 575, 587, 591, 593-4, 597, 599-600 etc.


24. Bows on the Domitianic congeries armorum pilasters (CROUS, 1933, 75) and on the Marcus Column (see n.37, below) are further stylised by having their curled ears turned into birds' heads. Artist accustomed to depicting deities such as Apollo, Diana, Cupid, Atys and Hercules with fanciful weapons would have found it difficult to reproduce weapons actually in use without models to work directly from (see 4.5). This is especially true of small art-works. Provided sculptors had both the models and the motivation, they could create representations which were technically accurate and are very useful in the study of archery equipment. A panel from Rome depicting Diana (GUERRINI, 1971, No.35), the stela of an archer from Housesteads, and a statue of Atys from London (COULSTON, 1985, Fig.35) are products of this type.

25. See SEYRIG, 1937, 4-26, Fig.1-2, 4, 6-7, 10, 14, Pl.I, II-V; GHIRSHMAN, 1962, Pl.4-5, 55, 62, 90-1, 98-100, 110, 119; BANDINELLI, 1971, Pl.316-7; COLLEDGE, 1976, 145-6, Pl.23, 33, 106, 108-9, 112, 143; 1977, 133, Pl.12, 17, 22, 28-9, 47a; TNIA, 1982, 118-9, 123-4.

26. YADIN, 1971, 69-72; BOSSERT, 1951, No.1302-6, 1309-10. The ankle-length Assyrian style of skirt did not continue through to the Roman/Parthian period it seems (cf. GAMBER, 1968, Fig.37; BARNETT, 1975, throughout).

27. COLLEDGE, 1976, 148, Pl.41, 43-4; TNIA, 1982, 121-2. These appear to have been a separate skirt or wrap-around garment secured at the waist and hanging down loose and cool for riding, and may also have been worn over trousers. 'Parthian' tunics reached down to below the wearer's knees but were shorter than asiatic kaftans. The writer is particularly grateful to Dr B. Zouhdi, Dr K. Assad and Dr A. Taha for granting access to the Damascus and Palmyra museum collections.

28. GHIRSHMAN, 1962, Fig.59. See also TNIA, 1982, 119-21; COLLEDGE, 1977, Pl.33.


31. Schober, 1923, No. 191 (Györ); Schleiermacher, 1984, No. 23 (Mainz), 66 (Tipasa).

32. Cumont, 1926, Pl. L.

33. Schleiermacher, 1984, No. 25.


37. Saxer, 1967, No. 33 (Civil War); Hyg., de mun. castr. 29-30. Irregular infantry archers appear on the Marcus Column (M.C. XII, 8; XV, 1-3; XXVIII, 4-5; XXXIX, 6; LXXVIII, 119) together with one horse-archer (M.C. LVII, 2). For 3rd century use of archers against German adversaries see S.H.A., Alexander Severus LXI, 8; Maximini Duo XI; Herodian, VII, 2, 1-5.

38. A point explicitly made by Herodian, VI, 7, 8.


40. The best known example of this is the group of 5000 Sarmatians transferred to Britain under Marcus but the practice was probably common after every major Sarmatian conflict and a number of units with Sarmatian titles appear in the Notitia Dignitatum (Dio, LXXII, 16, 2; N.D., Oc. XLII, 49-70).


5.9 Slingers

1. Commentators have chosen 'Balearic', 'Iberian' or 'Asturian' labels: Froehner, 1872-74, 15; Cichorius, 1896, 310-11; Paribeni, 1926, 216; Richmond, 1935, 17; Patsch, 1937, 61; Gostar, 1979, 6.


3. Ibid., 193-200; Griffiths, forthcoming. For slings in general see Korfmann, 1972.


6. N.D., Or. VII, 52; Veg. I, 16; II, 17; III, 14. See also Julian, 57D (Loeb).

7. Slings continued in use on the eastern frontier where heavy
armour for men and horses was more commonly worn as protection against arrows than in the west. For Sassanid slingers see Amm., XIX, 2, 3; XXIV, 4, 16. For continued Roman use of slingers in the west under Germanicus Tac., Ann., II, 20, and later in the east XIII, 39.

8. Shepherds continue to use slings for these purposes on Majorca (pers. comm. Mr W. Griffiths) and in central Turkey (pers. comm. Dr H. Dodge). They can achieve remarkable accuracy with them.

9. For Balearic slingers who were generally grouped under the heading of 'Spanish' troops in the Punic Wars see LAZENBY, 1978, 14 and passim; CONNOLLY, 1981, 150.

10. Hyg., de Mun. Castr. 30. The inscription (A.E. 1926, 88) was dated to Commodus by DOBSON, 1969, but this was ignored by GOSTAR, 1979, 6, and STROBEL, 1984, 150-1 who supported a Trajanic date.

11. For Raeti which are usually also called 'gaesati' see R.I.B. 1216-17, 1235, 1724, 1737, 2117; C.I.L. XIII, 1041; I.L.S. 2531, 5795; perhaps Hyg., de Mun. Castr. 30.


13. calones appear very frequently on Rider Type stelae standing behind the cavalryman carrying his equipment or leading horses on Funerary Banquet Type tombstones (see 5.4, n. 34). Many equites singulares stelae in Rome have a calo and horse panel (see 5.4, n. 79).

14. For calones and lixae see Tac., Hist. II, 14; 87; II, 33; Jos., B.J. III, 69.

5.10 Bare-Chested Irregulars

1. XXIV, XXXVI, XXXVIII, XL, XLII, LXVI, LXX, LXXII, CVIII, CXV.

2. FROEHNER, 1872-74, 16; POLLEN, 1874, 143-4; REINACH, 1886, 45; CICHERIUS, 1896, 177-8; PARIBENI, 1926, 216; PATSCH, 1937, 54, 61; ROSSI, 1971a, 96, 103-4; GOSTAR, 1979, 6; CISKE, 1983, 294; STROBEL, 1984, 152.

3. Coincidentally, short swords influenced by Roman types were in use by German warriors, both outside the empire (NYLEN, 1963) and within it as members of early auxiliary units (GECHTER & KUNOW, 1983, Fig. 16).

5.11 Moorish Cavalry

1. DANIELS, 1970, 31-2, Fig. 6; VERCOUTER et al., 1976, Fig. 251-8, 295-6, 299; TOWNEE, 1978, 90-1, Fig. 147-8; FITTSCHER, 1979, 210, 640, Fig. 125, Pl. 57, 147. Scholars are, for once, unanimous in this identification: FROEHNER, 1872-74, 14; POLLEN, 1874, 28;


4. AURIGEMMA, 1926, Fig.114, 120.

5. TOYNBEE, 1934, 156, Pl.XXXIV.6.


7. HORN & RUGER, 1979, 580, Pl.107; Encyclopédie Barbère I, 1984, s.v. 'Abizar', 79-86.

8. BROGAN & SMITH, 1984, Pl.61b, 68a, b, 123a, 124a.


10. ROLLAND, 1969, Pl.25-7 (St.Rémy); LEVI, 1931, Pl.LXXXV (Mantua); ESPERANDIEU, 1907-66, No.5496; SCHLEIERMACHER, 1984, No.94; FRANZONI, 1987, No.23 (stelae); LAUBERSCHER, 1975, Pl.30, 31.1, 32.1, 33.3, 34, 36.1.

11. Dio, LXVIII,18.

12. Tac., Hist. IV,50; Pliny, N.H. V,38; Dio, LXVII,3,5; Ptolemy, I,8, 10. See MATTLINGLY, 1984, 14. The writer is very grateful to Dr D.J. Mattingly for bringing these references to his attention.

13. For Quietus see S.H.A., Hadrianus 5, 8; Dio, LXVIII,18, 22, 30; LXXIX,2; GROAG, 1927; PETERSEN, 1968; SPEIDEL, 1975, 212; STROBEL, 1984, 68-71. Moreover, according to Martial, Epigram X,6,7-8 Moors were present amongst Trajan's escorts.


15. HORN & RUGER, 1979, Fig.117-21, 123, Pl.143, 145.

16. After the Trajanic period Moorish cavalry continued to be employed on the Danubian front and in the east through the 2nd and 3rd centuries. See Herodian, I,15,2; III,3,4-5; VI,7,8; VII,2,1; VIII,1,1; Dio, LXXVIII,32; Zosimus, I,20, 52; II,10; N.D., Oc. XXXIII,31; XXIV,23; Or. XXXII,18; XXXIII,26; XXXIV,22; XXXV,16; XXXVI,20; XXXVII,17. Familiar tactics were repeated in Procopius' description of Moorish troops in Belisarius' army defending Rome (Procopius, Wars V,xxix,22), and Maurikios still described light javelins as 'Moorish' in the late 6th century (Strategikon XII,ii,20).
18. Sallust, B. Jug. VII, LXVIII-IX; Appian, B. Civ., I, 62; II, 46; Caes., B. Af. 1, 1; 1, 5; 2, 1; 18, 1; 19, 3; 32, 3. See SADDINGTON, 1982, 11-12, 19, 24, 88, 165.


23. This is to say that really mountainous terrain would have restricted them in pitched battle, but as scouts and in a skirmishing function facing other cavalry they would have come into their own. Sure-footed Moorish ponies would have made better time over broken ground than men on foot. Numidian horsemen facing heavy Roman cavalry in North Africa could retreat across terrain that slowed their adversaries, but not themselves (Sallust, B. Jug. L). For Moors and terrain in Dacla see GLODARIU, 1974. The rope bridle depicted on the column coincides with Strabo, XVII, 3, 7 and recent reconstruction experiments in riding with a neck rope, but without reins, worked very well. The writer is very grateful to Mr P. Connolly for the invitation to observe these trials (14th May, 1988).

5.12 Dacians

1. XXIV, 52; XXXVIII, 23; XL, 42; LXX, 13, 29; LXXII, 18, 21, 28, 30, 33; C, 2; CXII, 13; CLI, 9.

2. Dio, LXVIII, 9.

3. XXIV, 59; XXXI, 8, 16; LXIV, 30; CXXII, 2.

4. XXIV, XXXII, XXXVIII, XLII, LXIV, LXXI, LXXV, XCIII, CXI, CXIX, CXLIX-CL.

5. XXXI, XXXIX, LXVI-II, LXXVI, CXX-XXI, CXXIII, CXLI, CXLIV.

6. XXV, XXVII-IX, XL, LXX, LXXI, LXII, LXXIV-V, CV, CXIX, CXXXV, CXLIX, CXL.

7. LXXV, 65; XCIII, 26; CXXXV, 4; CXLIX, 11. For Phrygian caps in general see SEITERIE, 1985.

8. XXIV, 53, 56; XXXII, 1, 7, 12, 14, 24, 27; XL, 42; XCIII, 2; CXIII, 13; 24; CXXXIV, 27, 28.

9. Swords: XXIV, 42, 46; XL, 40; LXVIII, 1, 4; LXXV, 26; XCIII, 26; CXX, 21. Clubs: XXXVIII, 10, 13.

10. Hilt: XXIX, 5, 7, 8; XLI, 9; LXX, 24; LXXII, 28, 33, 35; LXXV, 26;
11. Vexillum: XXIV, XXV, LXVI, LXVI, LXXV, LXXVIII. Draco: XXIV, XXV, XXXI, XXXVIII, LIX, LIX, LXXV, LXXVIII, CXVII.

12. A catalogue of these statues, and a discussion of their provenance and place in the Roman depiction of barbarians is provided by PINKERNEIL, 1983, 124-234. See also WAELKENS, 1985.


14. A helmet hangs from a tree to the right of Fig. No.68.

15. REINACH, 1909, 289.

16. For a helmet and mail from Ciumești see RUSU, 1969, 276-8, Fig.2-5, Pl.141-6. For this and other eastern European mail finds see WAURICK, 1979, 324, Fig.195. The Celtic development of mail was suggested by Varro, de lingua Latina V,116 and is followed by ROBINSON, 1975, 164; WAURICK, 1979, 326-30.

17. AMY et al., 1962, Pl.10-11 (Orange); GLOB, 1977, Pl.70; CONNOLLY, 1981, 114 (Gundestrup); ESPÉRANDIEU, 1907-66, No.271 (Mondragon). See also ROLAND, 1977, Pl.22, 24 (St. Rémy, arch).

18. FLORESCU, 1965, Fig.129, Pl.X.

19. R.I.C. II, Trajan, No.96-9; BELLONI, 1973, No.105-7, 270-9, 346-50, 400-1 (coins); GLODARIU, 1971, Fig.1 (Louvre bronze).

20. See ROSENBERG, 1937, Fig.29-30; CONNOLLY, 1981, 118-20; STARRY, 1981, Beilage 6.

21. Pre-conquest Dacian cultural and economic links with the Roman empire have been discussed by GLODARIU, 1976.

22. For a discussion of Getic art-styles depicting animals and humans in connection with Thracian finds from Augustan Oberaden (W. Germany) see VON SCHNURBEIN, 1986. A geometric pattern shield decoration is figured on a relief representing Celtic warriors from Bormio, Italy (PAULI, 1973, Pl.7). For figures in the asiatic 'animal style' see SULIMIRSKI, 1970, Fig.57, Pl.8-10, 27, 29-30, 34-6, 41-2.

23. CROUS, 1933, 94-7.


25. KOEPEL, 1984, No.7, Fig.11.14 (Cancelleria); VOGEL, 1973, Pl.50; NASH, 1981, I, Pl.563 (Hadrianeum). See also CROUS, 1933, 97
(Uffizi).

26. The Witham Shield has an incised boar over its boss (STEAD, 1985, Pl.XIV) and the Parma congeries armorum relief has a stag blazon amongst stylised equipment (D.A.I. Neg.33.434 - this section of the frieze does not appear to be published). For painted Simris shields see STERNQUIST, 1955, 118-9. Animal shield blazons are repeatedly mentioned in the Táin Bó Cuailnge (KINSELLA, 1970, 211, 226-7, 230, 232).

27. ÉSPÉRANDIEU, 1907-66, No.271.

28. In general see STERNQUIST, 1955, 118-9; CONNOLLY, 1981, 120. All the Roman shields from Dura were painted (see 5.2.3; 5.3.2) and countless barbarian shields in the more reliable Roman depictions on monuments (arches at Orange and St.Rémy, for example) have painted designs. Such motifs would presumably have been the personal choice of individual warriors. Coloured shields are mentioned in the Táin (KINSELLA, 1970, 5, 152, 158, 228-9, 233).

29. R.I.C. II, Trajan, No.89; BELLONI, 1973, No.50-4 (coins); SPEIDEL, 1970, Pl.XV.1; ROSSI, 1971a, 228 (stela).

30. FLORESCU, 1965, Pl.X.C-D.


32. TUDOR, 1968b, 517-9, Fig.1-2; VON SCHNURBEIN, 1979, Fig.9; MICLEA & FLORESCU, 1980a, Pl.199. Care must be taken not to confuse these weapons with sickle blades. Single-handed falces are also found in contexts which suggest Dacian influence on Germanic (BÖNA, 1955, 75-6, pl.XVII.34, XVIII.4, XX,2; BÖHME, 1975, 182, Fig.10) and Sarmatian (PÂRDUȚ, 1944, 53, Pl.XXV.6) groups.

33. MENDEL, 1912, No.1155; BÜTTNER, 1957, Pl.11. A wavy-bladed sword on a Domitianic congeries armorum frieze from Ephesus may be a large falx. If so, it is one of the earliest known depictions of this weapon (see LESSING & OBERLEITER, 1978, Pl.87), together with those on the Farnese Trophy (COUISSIN, 1928, 79-81, Fig.1).

34. KOEPPEL, 1986, No.44.

35. VON MERCKLIN, 1962, Fig.1224, 1226-8.

36. BERTINETTI et al., 1985, 181 (Portonaccio); STUART-JONES, 1912, II.5 (Amendola). Well reproduced in ANDREAE, 1977, Fig.503-4.


38. PÂRĂVAN, 1926, Fig.342 (Cohalme). See also GLODARIU & IAROSLAVSCHI, 1979, 137-8, Fig.71.1; DACIANS, 1980, No.252.

40. SANDERS, 1912-13, 231-58; CONNOLLY, 1981, 98, 150.


42. Tac., Hist. I,79.

43. SNODGRASS, 1967, 119, 123, 142-3; SEKUNDA, 1983.

44. GRANT, 1971, 56; VON SCHNURBEIN, 1979, Fig.1-2.

45. For example, by COUISSIN, 1928; FLORESCU, 1969; VON SCHNURBEIN, 1979. The term Sichelschwert, employed by many German scholars is, on the other hand, strictly correct.

46. SCHLEIERMACHER, 1984, No.20.

47. For Sarmatian short swords see GINTERS, 1928, 56-9, Pl.25, 30; SULIMIRSKI, 1970, Fig.42, 45, 48-9, 67, Pl.47; TROUSDALE, 1975, 104. A fine ring-pommel sword was found with 1st century A.D. material in the Çatalhöyük cemetery (Turkey). Pers. obs. thanks to Dr H. Bujukliev. For short, single-edged swords in Dacian contexts see GLODARIU & IARO SLAVSCHI, 1979, Fig.71.4; DACIANS, 1980, No.253.

48. FLORESCU, 1965, Fig.129.

49. For 'campanulate' hilts see NAVARRO, 1972, 23, Fig.3. Finds in Romania are figured by DAICOVICIU et al., 1960, Fig.53; ROSSI, 1971a, 124. Long swords with campanulate hilts do, however, appear as far east as the Ukraine (SULIMIRSKI, 1970, Fig.46). For comparative celtic material see PIGGOTT, 1950, especially Fig.2, 11.


51. GLODARIU & IAROSLAVSCHI, 1979, Fig.70; DACIANS, 1980, No.255-8.

52. REINACH, 1909, 290.

53. Dio, LXVII,7, 4; LXVIII,9, 3, 5. All of Rome's adversaries were at a considerable technical disadvantage, especially where artillery was concerned. See also Tac., Hist. IV,23; Veg., III,10; Amm., XIX,2,8.

54. CROUS, 1933, 76-7; PICARD, 1957, Pl.XXVI, XXIX; MERCKLIN, 1962, Fig.1217-20, 1224-5; AMY et al., 1962, Pl.20.


56. BERTINETTI et al., 1985, 177-8 (Portonaccio); KIECHLE, 1964, Pl.14; ANDREAEE, 1977, Pl.144 (Ludovisi).

57. CROUS, 1933, 77. See also COUISSIN, 1928, 79.
58. Smith, 1904, No. 2620; Reinach, 1912a, 497, Fig. 1.

59. Stuart-Jones, 1926, 9, Pl. 4.

60. Wright & Richmond, 1955, No. 137.

61. Tudor, 1969, No. 36, 42-3, 73; 75. No. 97 and 104 have spears without snakes and No. 150 has a snake without a staff.


63. Le Coq, 1925, 18, Fig. 101-2, 116-8.

64. Garbsch, 1979, T1, Pl. 48.3. This form of crested head was commonly used for snakes in Roman art and did not denote a mythical 'dragon' beast as such. This point has kindly been clarified for the writer by Dr C. Johns. Compare Tudor, 1979, No. 150.


67. A draco is depicted in the St. Gallen Psalter (Le Coq, 1925, Fig. 120). This is paralleled by the Carolingian adoption of asiatic bows (Coulston, 1985, 259, n. 204). Dracones came into Roman infantry use in the 3rd century AD and continued alongside cavalry dracones into the 4th century (S.H.A., Gallieni duo VIII, 6; Aurelianus XXXI, 7; Veg., II, 13; Amm., XV, 5, 16; XVI, 10, 7; 12, 39; Zos., III, 19). Fine cavalry examples are also depicted on the Arch of Galerius (Laubscher, 1975, Pl. 14.1; 23.1, 30.2, 63) and the Arch of Constantine (L'Orange & von Gerkan, 1939, Pl. 12b, 13a) whilst a bronze plaque in the National Museum, Budapest, depicts late Roman infantry with dracones and vexilla (Moćsy, 1974, Pl. 44). For dracones in general see Fiesiger, 1905; Kiechle, 1964, 120-22; Coulston, 1986, 69-70.

68. Picard, 1957, Pl. VII, XIII; Mercklin, 1962, Fig. 1219, 1224-5; Amy et al., 1962, Pl. 44; Roland, 1977, Pl. 27. For the term 'carnyx' see Piggott, 1959, 19, n. 1.

69. Ibid., Pl. VII, b; Glob, 1977, Pl. 66; Connolly, 1981, 114.

70. Notably Polybius II, 29, 6; Diodorus Siculus, V, 30, both describing the Battle of Telamon.

71. Crous, 1933, 104.

72. Reproduced in Waurick, 1979, Fig. 197.

73. Piggott, 1959, 19-32, Pl. VI, VIII.

74. For the La Tène element in Dacian culture see Daicoviciu et al., 1960, 223-48, 316-38; Condurachi & Daicoviciu, 1971, 81-3, 107-10; Pinkerneil, 1983, 70-3.
75. MENDEL, 1912, No.1155; BUTTNER, 1957, Pl.11.


79. PATSCH, 1937, 23.

80. FLORESCU, 1965, 634, 664.


82. FURTWÄNGLER, 1903, 495-6; RICHMOND, 1967, 33, 35, 37; SYME, 1971, 158.

83. For the tribes north of the Danube and their relations with Rome see C.A.H. XI, 79-85; ALFÜLDI, 1939, 30-1; VULPE, 1960; 1961; MÓCSY, 1974, 66; BOGDAN-CATANICIU, 1977, 273-5. Migrating peoples may have forced other groups ahead of them in a 'knock-on' effect, but they would never have moved into a demographic vacuum. The modern employment of labels to designate different peoples is dependent on ancient usages and these in turn were dictated by politico-military prominence which drew the attention of Roman writers. The result is a serious simplification of the actual situation.


85. Thus the question is not simply whether or not a 'Moesian incursion' actually occurred but one of Decebalus' strategic capabilities in manipulating allied peoples. The invasion may have been one of those periodic folk-movements across the Danube, but one which was fortuitously timed from the Dacian point of view. On the other hand, if Pliny is to be believed that Decebalus was in diplomatic contact with the Parthians, then perhaps his position was strong and organised enough for his power to have reached out across the whole region north of the Danube (Pliny, Ep. X,74). Still it might be doubted whether, in the face of Trajan's advance into Dacia, his directives could have mobilised an assortment of peoples within a sufficiently short 'reaction time' (see VULPE, 1979b).

86. COULSTON, 1986, 63-7. The only bladed weapons that the writer can think of as having been used two-handedly on horseback are the Japanese yari and naginata which were essentially shafted cut-and-thrust weapons with blades (STONE, 1934, 463, 674, Fig.587, 864).

88. SULIMIRSKI, 1970, 29, 126-7, Fig.45; TROUSDALE, 1975, 104, Fig.57-8, 61-2, 64-5, 67 for depictions all around the western asiatic fringe which exhibit this feature.

89. The Historiae may have been in circulation by A.D.105 (SYME, 1958, 117-8; DUDLEY, 1968, 16).

90. This is evident whenever one tribe rose to dominate others to form a 'steppe empire' (GROUSSET, 1970, throughout).

91. Polybius, II,22,1; 28,4.

92. LXVII,1, 4, 6, 9; CXIII,11, 27.


5.13 Germans

1. GIRKE, 1922, 3-5, Pl.31, 38a, c. For the term 'nodus' see FISCHER, 1912.

2. SCHLEIERMACHER, 1984, No.20, 22.

3. STRUVE, 1967, 38, 45-6, Pl.3.1; TODD, 1975, 202; GLOB, 1977, 117-8, Pl.41.


6. FLORESCU, 1965, Pl.X.

7. Representations: GIRKE, 1922, Pl.38.d; BARKÓCZI, 1951, No.18; SCHLEIERMACHER, 1984, No.6, 17, 21, 24, 32, 34, 38, 45-7. Finds: ROSENBERG, 1937, 48-61, Fig.28-32. For German shields in general see JAHN, 1916, 152-207; TODD, 1975, 168, 171-2; RADDATZ, 1985, 296-8, 303-4, 313-5, 322.

8. Tac., Ger. 6.


11. Dio, LXVIII, 8.


13. Tac., Ger. 43.
14. S.H.A., Marcus 22. See also Dio, LXXIII,2,4.


17. FURTWÄNGLER, 1903, 495.


19. VULPE, 1963a, 239; '1963b, 52. For the Bastarnae in general see Dio, LI,2,3-6; Livy, XL,5,57-8; XLI,19,23; XLV,4; C.A.H. XI,84; MÖCSY, 1974, 21, 23-4, 32-6.


21. I.L.S. 985. Unlikely because he was governor of Pannonia, too far over to the west.

22. Livy, XL,57.

23. Appian, IX,16,1-2; Dio, LI,23.

24. Wagon laagers have been used by many peoples, both sedentary and nomadic. For celtic & German use see Caes., B.G. I,3, 6, 26, 51; IV,14; VIII,14; Tac., Ann. XIV,34. Nevertheless, wagons belonging to steppe peoples caught the attention of observers (SULIMIRSKI, 1970, 26; MAENCHEN-HELFEN, 1973, 214-20; WILKES, 1983, 258).

25. Tac., Ger. 46.


29. See TODD, 1975, 79-80 for a sketch of this cultural group.


31. Dio, LXVIII,8.

5.14 Sarmatians

1. Tac., Hist. I,79; Pausanius, I,21,6; Amm., XVII,12,2. See also Valerius Flaccus, VI,231-8.

2. Summarised by VULPE, 1963a, 245-6, these include Jordanes, Getica.
18 which mentions Sarmatae specifically. Other sources refer to 'Scythians' in addition to Dacians defeated by Trajan, an archaizing usage also employed by Arrian in connection with Sarmatian peoples (e.g. T.T. 35,2).

3. ROSTOVTZEEF, 1913, Pl.LXXXIV.3; SULIMIRSKI, 1970, Pl.33; WILKES, 1983, Pl.I.

4. ROSTOVTZEEF, 1913, Pl.LXIV.1, LXXVIII.1, LXXIX, LXXXVIII.2.

5. KIESERITZKY & WATZINGER, 1909, No.650.


7. ROSTOVTZEEF et al., 1936, Pl.XXI-II.

8. BAUR et al., 1933, Pl.XXII.2; ROSTOVTZEEF et al., 1952, Fig.6.

9. FUKAI & Horiuchi, 1972, XLVIII-IX, L, LII. For these items of horse armour see also Xenophon, Art of Horsemanship XII,8; Maurikios, Strategikon XI,2,7.

10. Scale armour for limbs would have seriously restricted movement. The only representation of such defences on man or horse is a Tetrarchic(?) relief in the Museo Chiaramonti, Vatican (Koeppel, 1986, No.48).

11. BERNARD, 1964, Pl.X.


14. GAMBER, 1968, Fig.10; ROBINSON, 1975, Fig.198.

15. HELBIG, 1966, No.1650; ROBINSON, 1975, Fig.201. For the provenance and date of this monument see Schäfer, 1979, Pl.53-5.


17. For leather scale and lamellar in general: THORDEMNANN, 1939, 245-84; WATERER, 1981, 46-54.


21. LE COQ, 1925, Fig.32-3, 50, 53, 55, 59, 63-4, 67-8, 70, 74, 102, 124, 134; ROBINSON, 1967, Fig.12-4, 31, 64-6.
22. A particularly good example is the T'ang Chinese relief from the tomb of T'ang t'ai-Tsung (A.D. 623) on which a long lamellar skirt appears under a kaftan (LE COQ, 1925, Fig. 99; BIVAR, 1972, Pl. 27). The wearer was presumably an Eastern Turk.

23. ROBINSON, 1967, Fig. 13.

24. ROSTOVZIEFF et al., 1936, Pl. XXIII.

25. ROSTOVZIEFF, 1913, Pl. LXIV.1, LXXVIII.1, LXXIX, LXXXVIII.2. A similar conical form appears on one stela (KIESERITZKY & WATZINGER, 1909, No. 400).


28. GHIRSHMAN, 1962, Pl. 102, 139, 148; KLUMBAH, 1973, Pl. 65.3; OVERLAET, 1982, Pl. I, IV-V.

29. BRILLIANT, 1967, Pl. 78.c-d, 80.a, 81 (Arch of Severus); ANDREAE, 1977, Pl. 144 (Great Ludovisi Sarcophagus); ibid., Fig. 587, 590; KASCHNITZ-WEINBERG, 1937, No. 543 (other sarcophagi); AMELUNG, 1903, No. 137b, Pl. 28; STUART-JONES, 1926, 205, Pl. 78 (stelae). Helmet bowls on the sarcophagi and stelae point forwards in 'Phrygian' fashion but have eagle-head apexes. The only surviving helmet which is in any way similar to the Phrygian forms on the pedestal reliefs is a copper-alloy example of unknown date from Ostrov, Romania (KÂDULESCU, 1963, Fig. 8-11; ROBINSON, 1975, Pl. 407-10; KLUMBAH, 1978, Cat. 058, Pl. 32; MICLEA & FLORESCU, 1980b, Pl. 169-70). Unfortunately the apex has been damaged but feather decoration suggests that it too originally had an eagle-head finial. For Hellenistic Phrygian helmets quite unlike the pedestal type but close to the Arch of Severus bowls see WAURICK, 1983, 297, Pl. 60.2; SEITERIE, 1985, Fig. 2, 5.

30. ROSTOVZIEFF, 1913, Pl. LXIX; 1922, Pl. XXIX.2.

31. BENNDORF & SCHÜNE, 1867, No. 38.

32. SMITH, 1904, No. 2620; REINACH, 1912a, 497, Fig. 1. It also appears on a relief in the cortile of the Museo Conservatori (STUART JONES, 1926, 18, Pl. 8), see Pl. 161.

33. M.C. XLIX, 13, 15-7. A flat-topped hat also appears on the Arch of Galerius worn by a barbarian (LAUBSCHER, 1975, Pl. 44.2).

34. GINTERS, 1928, 56-9; PÁRDUCZ, 1944, 52, Pl. XXV.5; SULIMIRSKI, 1970, Fig. 42, 45, 49, 67, Pl. 47; TROUSDALE, 1975, 104. These appear on Crimean stelae (e.g. KIESERITZKY & WATZINGER, 1909, No. 599-600, 627, 619).

35. PARDUCZ, 1944, 53, Pl. XXV.6.

37. GINTERS, 1928, 66-75; TROUSDALE, 1975, 105-8.

38. PIGGOTT, 1950, Fig.2, 9-10; NAVARRO, 1972, Pl.II seq.; CONNOLLY, 1981, 116. Celtic scabbard belt-attachments were often closer to the mouth than was usually the case with asiatic slides.

39. For example on the Vachêres Gaul statue (ÉSPÉRANDIEU, 1907-66, No.35).


41. See LE COQ, 1925, Fig.8-9, 11, 50, 53, 69-70, 86, 88, 93, 101; TROUSDALE, 1975, 71-102.

42. COULSTON, 1985, 235, 241.

43. KIESERITZKY & WATZINGER, 1909, No.574, 626-7, 650; MAENCHEN-HELFEN, 1973, Fig.2.

44. COULSTON, 1985, 292.

45. Ibid., 271.

46. REINACH, 1909, 290; CROUS, 1933, 82.

47. COULSTON, 1985, 271.


49. ROSTOVZTEFF, 1913, Pl.XLVII.E, LI.6, LXXVIII.1, LXXIX, LXXXVIII.2, LXXXIX.1 (frescoes); LXXXIV.3; KIESERITZKY & WATZINGER, 1909, No.587, 591, 606, 618, 635, 650 (stelae). See Tac., Hist. I,79; Arrian, T.T. 44,1; Valerius Flaccus, VI,162; Statius, Achilleid II,132-3; Silius, Punica XV,684-5.


52. EADIE, 1967, 165-8 (for lance influence, but armour development conclusions here are erroneous); GAMBER, 1968, 14-20; STROBEL,
53. LE COQ, 1925, 9-10, Fig.8, 11, 18, 28, 30, 34, 36, 69, 86, 94, 99. For asiatic kaftans in general see KNAUER, 1985 and 628-9 with reference to Sarmatian dress.

54. See LE COQ, 1925, Fig.68, 99; BIVAR, 1972, Pl.27.

55. Compare n.53 with LE COQ, 1925, Fig.32-3, 50, 53, 64-7, 70, 74, 102, 134.


58. Strabo, VII, 4, 6 described Sarmatians with spears and shields, not with lances. For this evolution in weaponry and incidence of lanceheads as small-finds see SULIMIRSKI, 1970, 28-32; MAENCHEN-HELFEN, 1973, 238-9.

59. Dio, LXVIII, 10, 3.


62. 'Spare' rulers of the Roxolani were evidently kept for future use within the empire as was the common practice with German and British puppets (C.I.L. V, 32-3). For steppe leadership and empire formation in general see KHANOV, 1984, 157-64, 229-63.

63. For sudden barbarian crossings of the Danube, particularly in winter when it was frozen, see Ovid, Tristia III, 10, 56; ex Ponto I, 2, 77-80; Tac., Hist. I, 79; Jos., B.J. VII, 90-2; Suet., Domitianus 6; Eutroplus, VII, 23; S.H.A., Hadrianus VI, 6; Dio, LIV, 36, 2.

64. The 9000 Roxolani were swiftly dealt with within Moesia in A.D. 69 (Tac., Hist. I, 79), admittedly at a disadvantage in snow, but Arrian's Ektaxis envisaged repulsing the Alan attack frontally on level ground.

5.15 Sacrificial Attendants and Lictores


2. VIII, 12, 20; LIII, 6, 9, 10, 12; LXXV, 2, 3, 6, 8; LXXVI, 15; XCI, 13, 17, 24; XCIX, 1; CII, 10; CIII, 2. These men were known as popae (RYBERG, 1955, 35).
3. Ibid., Fig. 22b, 25, 30, 32, 36-8, 41d, 42a, 43, 45d-e, 46, 51-4, 58, 60, 61a, 69a, 70-1, 73b, 74, 75a, 77, 78a, 80-3, 85, 87, 89-4, 96b, 99, 116.

4. VIII, 13; LIII, 18; LXXXVI, 12; XCI, 2; XCIX, 3; CII, 4; CIII, 6.

5. Pliny, N.H. XXXV, 36-70. Similar hairstyles are worn by adult heralds on the triumphal friezes of the Arch of Titus and the arch at Benevento (RYBERG, 1955, 21, 148).

6. VIII, 14; LIII, 15; LXXXVI, 14; XCIX, 4; CIII, 10.

7. RYBERG, 1955, Fig. 25, 29-30, 32, 39a, 46, 51, 54a, 58-9, 61b, 70, 72b, 75b, 86-7, 90-3, 95, 101-2, 104, 116; KEPPIE & ARNOLD, 1984, No. 68.


5.16 Civilians

1. LXXX, LXXXI, LXXXIII, LXXXVI, XC, XCI.

2. In fact women appear remarkably seldom in official sculpture after the Ara Pacis (ANDREAE, 1977, Fig. 271). When they are depicted on stelae or in statuary it is clear that hair buns were common in all periods. The writer is grateful to Miss L. Allason-Jones for discussing this question. For female hairstyles see EVANS, 1906.


4. Most importantly the identifications by VULPE, 1979a (Dacian women) and GAUER, 1977, 28, n. 144 (Roman provincial women). See 3.2.9.

5.17 The Pedestal Reliefs

1. The sides of the pedestal have been numbered in this study in anti-clockwise order starting at the side with the door: side 1, south-east; side 2, north-east; side 3, north-west; side 4, south-west.

2. REINACH, 1909, 289-90; LEHMANN-HARTLEBEN, 1923-24 (Campidoglio); CROUS, 1933 (Aventine); LESSING & OBERLEITER, 1978, Pl. 87 (Ephesus). See also the Farnese trophies, which are probably contemporary (COUSSIN, 1928, Fig. 1-4; PICARD, 1957, 352-3), and a panel with congeries armorum in the cortile of the Museo Conservatori (STUART JONES, 1926, Pl. 8).

3. REINACH, 1912a, 36, Fig. 2; PICARD, 1957, Pl. XIV. See also ibid.,
Pl.XV. Curiously, a peltaform shield appears on the Amastris statue base which appears to be accurate in other details (MENDEL, 1912, No.1155; BUTTNER, 1957, Pl.II.2). The only barbarians which appear in Roman sculpture wearing muscled cuirasses are adversaries on the Arch of Galerius (LAUBSCHER, 1975, Pl.15.1).

4. SMITH, 1904, No.2620; REINACH, 1912a, 497, Fig.1. See also STUART JONES, 1926, 18, Pl.8 for a similar Conservatori panel (see PL.161).

5. SPANNAGEL, 1979, Fig.2. A soldier on one side (Fig.4) is similar to those seen on the Marcus Column and Antonine battle sarcophagi.

6. MERCKLIN, 1962, Fig.1198-1235 (capitals); ANDREAE, 1977, Fig.487 (Hadrianeum). See also Marcus Column scene LV and the Portonaccio Sarcophagus (BERTINETTI et al., 1985, 177, 181).

7. In its inclusion of ships' prows the arch reliefs may be contaminated by traditional motifs (AMY et al., 1962, Pl.24-7). In other respects its details of saddlery, shield grips and blazons appear to be reliable, despite the problem of exactly which victories the congeries armorum came from (ibid., 143-52).

5.18 Trajan's Column and the Great Trajanic Frieze

1. For full bibliography and description of most of these pieces see KOEPPEL, 1985, No.9-16. The standard work on the Great Trajanic Frieze is PALLOTTINO, 1938. For the Antiquario Forense fragments see ibid., 33-5, Fig.10, Pl.II; JACOPI, 1976, 40, Fig.38, and for the Turin panel see CARDUCCI, 1968, 53.a. A number of fragmentary reliefs depicting non-military subjects also formed part of the same scheme (KOEPPEL, 1985, No.17-51).


6. After the Pergamene Altar of Zeus gigantomachy and the monument commemorating Verus' Parthian war at Ephesus (ANDREAE, 1977, 201), and excluding the spiral friezes on columns.


considered by WATERS, 1969.

9. LEVI, 1931, No.165; KASCHNITZ-WEINBERG, 1937, No.420, 422; SPANNANEL, 1979, Fig.8; KOEPPEL, 1984, No.28; ANDERSON, 1986, Fig.1-2.

10. BIVAR, 1972, Pl.9; ANDREAE, 1977, Pl.144.

11. See SCHLEIERMACHER, 1984, No.45. For a roundel on a scabbard LINDENSCHMIT, 1868, X, Pl.VB.

12. Fig. No.30, 46, 49, 56, 62, 65, 68. The stone plugs may represent a later refurbishment, perhaps associated with reuse on the Constantinian arch.

13. Fig. No.3, 4, 6-8, 11, 12, 17, 18, 24, 37, 55, 57, 58, 60, 61, 63, 65, 67.


17. Horsehair has been successfully employed by the Ermine Street Guard to reconstruct a crest on an 'Imperial Gallic' helmet.

18. MICHON, 1909, Fig.13; ROBINSON, 1975, Pl.423 (Louvre); D.A.I. Neg.54.591 (Pozzuoli); LEVI, 1931, No.155 (Mantua); MANSUELLI, 1958, Pl.170 (Florence).

19. AOSTA, 1982, Fig.65; LESSING & OBERLEITER, 1978, Pl.9.

20. TRAINA, 1981, Fig.1, 3.

21. HOFMANN, 1905, No.17; SCHOBER, 1923, No.132 (Ptuj); FRANZONI, 1987, No.29 (Este).

22. ROBINSON, 1975, 140-1.

23. Ibid., Pl.33, 48-9, 54, 59, 69, 84, 118, 139.

24. For example, COULSTON & PHILLIPS, 1988, No.67 (Mars); AURIGEMMA, 1926, Fig.86; GRANT, 1971, Pl.23, 29 (gladiators).

25. ANDERSON, 1986, Fig.1-3.

26. MICHON, 1909, Fig.13; ROBINSON, 1975, Pl.423 (Louvre); ÉSPÉRANDIEU, 1907-66, No.5790 (Mainz).

27. DOMASZEWSKI, 1967, 20. See also 5.5, n.20.

28. KXHLER, 1951, 432, Pl.28; VERMEULE, 1981, Pl.9.
29. DOMASZEWSKI, 1885, Fig.5; DURRY, 1938, Pl.IV; MAXFIELD, 1981, Pl.12.a. For the identification of the scorpion as the praetorian emblem see PALLOTTINO, 1938, 47-8; DURRY, 1938, 213; PASSERINI, 1939, 51; 1954, 1625; KÄHLER, 1951, 432; KÖPPPEL, 1985, 152. A shield as depicted with a scorpion blazon on an adlocutio coin of Galba (R.I.C. I, Galba, No.150; BREGLIA, 1968, No.26 illustrates it well). The writer is grateful to Dr M.C. Bishop for drawing attention to the latter reference. Identification of troops on the Great Trajanic Frieze is not as open as MAXFIELD, 1986, 67 implied.

30. Tac., Ann. IV,2. For the birth-sign see DURRY, 1938, 205; PASSERINI, 1939, 51.


34. DOMASZEWSKI, 1967, 24; DURRY, 1938, 100-1; PASSERINI, 1939, 75.


36. Gesture: XXXVII,14; XLI,3. Head: XL,56; LXX,5; LXXI,9; XCVI,4.


38. For Trajan's personal interest in Alexander see Dio, LXVIII,29,1; 30,1.

39. For the political situation during the reigns of Nerva and Trajan with regard to the praetorians see 2.3, n.25-31.


41. The symbolic use of a helmet held up by a comilito may be paralleled on a relief from Marmara Ereğli, Turkey, which seems to depict the transition from infantry to cavalry commands (FIRATTI, 1976, 422-3, Pl.7). For the supposed inferiority of praetoriani to legionarii in the field see PASSERINI, 1939, 43-4.

5.19 Trajan's Column and the Tropaeum Traiani


3. FURTWÄNGLER, 1903, 472-3; CICHORIUS, 1904, 36; DORUTIU, 1961,

5. Ibid., Fig.15, Pl.I.


11. For general reviews of the literature dealing with the 'historical' content of the metopes see FloRESCU, 1965, 18-20; Baradez, 1971, Table III.


15. For military craftsmen see Digest 50,6,7; Veg., II,11; Frova, 1961, 582; Bandinelli, 1971, 314-7; Keppie & Arnold, 1984, xvii-viii; Coulston & Phillips, 1988, xviii.

16. Not paralleled in monumental sculpture or shown being worn on stelae, but a tombstone from Mainz depicts what may be a segmental arm-guard alongside other legionary equipment (Lindenschmit, 1864, IX, V.B, 2). A high relief figure from Alba Iulia (Romania) has a curved rectangular shield, scale shoulder armour and segmental arm and torso defences. Unfortunately, there is nothing diagnostic about the sculpture to indicate that it depicts a legionary rather than a gladiator (Rumaniem, 1969, C63). Finds of segmental armour which seem to fit arms rather than legs have been made at Carnuntum (von groller, 1901, Pl.XVII.12, 14) and Newstead (Curle,
1911, Pl. XXIII). Dr M.C. Bishop pers. comm. has drawn attention to the mistaken identification of the latter as thigh armour because it is too narrow (ROBINSON, 1975, 185-6). Perhaps limb-defences were far more common than the representational evidence suggests.

5.20 The Accuracy of the Figure Types


2. FRERE & ST. JOSEPH, 1974, 6-7; WEBSTER, 1985, 175.


6. BISHOP, 1985, 17; MAXFIELD, 1986, 70. This is not to suggest that equipment was exclusively produced by large legionary fabricae, or that auxiliary troops did not carry out at least small-scale work.


8. SAXER, 1967, No. 299-306, 308, 313-23 (Africa Proconsularis and Numidia), 333 (Mauretania Caesariensis); MATTINGLY, 1984, Table 6: C (Tripolitania). These are 3rd century inscriptions but the Flavian 'East Fort' at Lamtaesis (Numidia) was built by legionarii (A.E. 1954, No. 137) and a 1st century legionary vexillatio was present at Chemtou (C.I.L. VIII, 14603). During the war against Tacfarinas the legion was split up to form single cohort garrisons and to pass the winter (Tac., Ann. III, 20-1, 76). The writer is grateful to Dr D.J. Mattingly for discussing this matter.

9. OLDENSTEIN-PFERDEHIRT, 1984, Fig. 11, 14-15.

10. C.I.L. III, 13439. See SAXER, 1967, No. 68-9; BÜHME, 1975, 210-11. A copper alloy chest-piece from a lorica squamata or hamata, inscribed LEG X, from Mušov (Czechoslovakia) may have belonged to a member of a legionary vexillatio similar to the one on the Trenčín inscription (KOLNIK, 1986, 356). There is no reason why this class of artefact should have been solely 'parade' equipment or restricted to use by cavalry. For another very similar legionary piece see GARBSCH, 1978, Cat. P7.


12. BISHOP, 1985, 10-11.


14. The writer is grateful to Dr M.C. Bishop for elucidating this point.
15. ALLASON-JONES & BISHOP, 1988, 102.

16. See 5.3.1, n.36.

17. See FRERE & ST. JOSEPH, 1974, 40.


22. Tac., Ag. 35-7.


24. Tac., Ag. 35.

25. Jos., B.J. 233-4, 324 (Jotapata); V,269, 282, 331, 467-8, 502; VI,179, 220, 236, 255-7 (Jerusalem).

26. JONES, 1975, 26, 37-8; JOHNSON, 1983, 43-4; LANDER, 1984, 43. However, one auxiliary mensor is recorded (C.I.L., XIII,6538) and Hadrian's Lambaesis adlocutio speech mentions auxiliary work on wall construction (C.I.L. VIII,18042).

27. OLDENSTEIN-PFERDEHIRT, 1984, Fig.11, 14-15.


29. BRODRIBB, 1987, 118.

30. See Digest 50,6,7; VON DOMASZEWSKI, 1967, xv, 25, 46.

6. Conclusions: Trajan's Column in Perspective

6.1 Preceding and Contemporary Works

1. Discussion summarised by HAMBERG, 1945, 119-35; BECATTI, 1960, 11-7, 33-45; 1959a. For the bookroll origin of the spiral see BIRT, 1907, 269-70 and 4.1; 4.6. ZANKER, 1970, 533-7 drew attention to the use of columns as funerary monuments at Pompeii and to the resemblance of the Trajan's Column pedestal to a monumental cinerary urn.

2. LEVI, 1931, No.167 (Mantua); STRONG, 1961, Pl.14 (Lecce); BANDIERA, 1977, No.31 (Palestrina).

3. HELBIG, 1966, No.1608; ROBINSON, 1975, Fig.16.

5. PFANNER, 1983, Pl.17.3-4 (Titus); HASSEL, 1966, Pl.3 (Benevento).


7. Interpretations of the Cancelleria scenes was provided by MAGI, 1945, 98-115; TOYNBEE, 1957.

8. MINGAZZINI, 1973, Pl.88; ROBINSON, 1975, Pl.424; HÜLSCHER, 1979, 342-9. There is some dispute as to whether this relief commemorates the Battle of Actium, and thus is not Claudian (Hülscher), or whether it is linked with Claudius' invasion of Britain (Mingazzini).


10. KAHLER, 1966, Pl.4-5.


6.2 The Columns of Trajan and Marcus

1. No dedicatory inscription survives on the pedestal and the exact date of completion is unknown. An inscription in the Musei Vaticani records the procurator columnam centenarium divorum Marci et Faustinae erecting a hut nearby in A.D. 193 and this has been taken to mean that work on the column continued through the reign of Commodus (C.I.L. VI, 1585 = I.L.S. 5920; CAPRINO _et al._, 1955, 38-41; BECATTI, 1959b, 760; BIRLEY, 1987, 267). Morris suggested that work continued into the Severan period but his arguments were unwittingly based on scenes restored in the 16th century (MORRIS, 1952. See also BECATTI, 1960, 48-9; BIRLEY, 1987, 197). Reliefs on the pedestal have been lost but fragments survive, supplemented by antiquarian sketches (FUHRMANN, 1937). For general descriptions see PETESEN _et al._, 1896, 1-20, 29-38; CAPRINO _et al._, 1955, 18-28; BECATTI, 1959b, 760; FLORESCU, 1969, 139-43. Its design with regard to earthquake damage was discussed by MARTINES, 1983. The Marcus Column is made from Carrara marble with modern patching in Proconnesian. The writer is grateful to Dr S. Walker for elucidating this point. In this study the prefix 'M.C.' is used to refer to Marcus Column scenes, following the system of scene and individual figure numbering of PETESEN _et al._, 1896, to distinguish them from Trajan's Column references.

2. For the Marcommanic Wars in general see PETESEN _et al._, 1896, 21-8; ZWIKKER, 1941, 14-238; BÖHME, 1975; BIRLEY, 1987, 159-83, 189-91, 208-10, 249-55.

3. See PETESEN _et al._, 1896, 51-95, 105-25; ZWIKKER, 1941, 7-13, 239-74; HAMBERG, 1945, 149-58; MORRIS, 1952, 33-43; CAPRINO _et


5. The total number of figures can only be very approximate because many scenes have been almost obliterated by damage whilst others are now represented by 16th century reconstructions in several styles. Following the figure numbering of PETERSEN et al., 1896, and its inclusion of such modern inserts, there are c.33% fewer figures on the Marcus Column than on Trajan's Column. It is vitally important in any enquiry that the Renaissance restorations be recognised and thus eliminated (see CAPRINO et al., 1955, 34-6, 121-4). The two columns were compared by PETERSEN et al., 1896, 95-104.

6. Notably M.C. XX, L, LXI, LXVIII, CIV. In M.C. scene LXVI a severed head is presented to Marcus in the same manner as seen on Trajan's Column and the Great Trajanic Frieze.

7. M.C. LXXXII, 4, 5, 7; XCIV, 1, 6, 7 recall Trajan's Column figures XI; XV, 6; XVI, 3; XIX, 4, 4; XX, 13; LI, 14, 19; LVI, 4; LX, 5, 7. All over the Marcus Column there are figure poses borrowed from elsewhere. For example, compare the falling messenger of Trajan's Column (IX, 1) with M.C. LXXIX, 4.

8. M.C. XV, XXXVIII, XLIV, XLIX, L, LV, LXV, LXXIV, CIII, CIX.

9. M.C. XVI, CVIII. In M.C. XLIV, LXVII, LXXVIII front and rear ranks of citizen troops are in contrasting poses.

10. M.C. XI, XXXVIII, XLIX, LV, LXV, LXVII, LXXVIII, LXXVIII, XCIII.

11. M.C. IX, XVI, XXXIII, XXXIV, XXXVI, XXXVII, XXXVIII, XLIII, XLIV, LV, LXXXIII, LXXI, XCIII, CVIII.

12. M.C. XXXVIII, XLIV, L, LXI, LXVII, LXXVIII, XCIII, XCIV, CVIII.

13. HAMBERG, 1945, 135-49; WARD-PERKINS, 1951, 287-8; RYBERG, 1967, 53-6; BRILLIANT, 1963, 165-70; 1967, 236-8. The Antonine period is notable for its stable succession but the Avidius Cassius revolt and the Marcomannic Wars themselves had a great impact on contemporary feelings of security.

15. Alternatively, all the Roman field armies may have been made up of legionary vexillationes with rumps and aquilae of legiones staying in their bases, which had become permanent since Hadrian. This is suggested by coin issues and epigraphic evidence (PETERSEN et al., 1896, 112-3; ZWIKKER, 1941, 230; MORRIS, 1952, 38; CAPRINO et al., 1955, 65; SAXER, 1967, 35-43; BÜHME, 1975, 201; BIRLEY, 1987, 176, 208, 253). However, as on Trajan's Column (see 5.5.1), standards on the Marcus Column had artistic, rather than documentary rôles. It is not just the absence of aquilae at issue here, but also the unrealistic scarcity of signa. The very large number of vexilla are carried by auxiliaries far more often than by standard bearers wearing animal skins, and only once by a citizen soldier (M.C. LXVII). Vexilla usually accompany auxiliary infantry and cavalry and appear also with oriental cavalry (M.C. LXXVIII) but their primary function is to locate the emperor (especially XXXVIII, XLVIII, LIII, LXXVI, CXI). Moreover, with the exception of M.C. LV, vexilla are the only standard type figured above the third spiral. Standards also fulfill this rôle on the Antonine Arch of Constantine panels (RYBERG, 1967, Pl.II, XXII, XXVII, XXXI-III, XXVI, XXXI, XLIII; KOEPPEL, 1986, No.23, 26-31. For the relationship between these panels and the Column see RYBERG, 1967; BECATTI, 1960, 55-79). Although barbarians carry vexilla (M.C. LXIX), dracones are figured neither as barbarian nor as Roman standards. They appear in contemporary Roman use on the Portonaccio sarcophagus (BERTINETTI et al., 1985, 177-8).


17. For barbarian adversaries see S.H.A., Marcus 22; ZWIKKER, 1941, 14-24; BÜHME, 1975, 182-90, 211-17, Fig.2-3, 15; BIRLEY, 1987, 208, 252.

18. ROBINSON, 1975, 183-4. The provision of pteruges varies: scallops only M.C. IV, XI, LXVII, CXXII; long pteruges M.C. III, IX, XCI; no scallops or pteruges M.C. III, XIX, XXXII-IV, XXXIX, XLIV, LXXVI, LXXVIII, LXXIX, XCIV, CIII. Future work may detect distribution patterns of helmet types, pteruges provision and 'lorica segmentata' fittings on the Marcus Column but with far less precision than with Trajan's Column because of the former's damage and restoration. For the Roman army and military equipment on the column see PETERSEN et al., 1896, 44-51, 111-3; COLINI et al., 1955, 63-77; FLORESCU, 1969, 146-8; WAURICK, 1983, 296-7, Fig.15.

19. For example M.C. XXXVI,3 (unless this is a restored section).

20. M.C. VII,11; XVI,8; XX,32. Significantly they occur low down on the shaft.

21. M.C. XII, XV, XXVII, XXXIX, LXXVIII. LVII,2 is an armoured auxiliary horse-archer. In M.C. LXXVIII 'oriental' cavalry with shafted-weapons are depicted.

22. COULSTON, 1985, 235.
23. CAGIANO DE AZEVEDO, 1951, No.119. Antonine battle sarcophagi are very close in both composition and style to the Marcus Column frieze. A striking example is the Portonaccio sarcophagus, the end reliefs of which are stylistically identical to the column (BERTINETTI et al., 1985, 178-9). The problem is whether column influenced sarcophagi or vice versa. Whatever the solution, the versatility of Roman artists in working on different classes of sculpture is revealed because surely the same workshops were at work in both fields (see 4.8). For these battle sarcophagi see HAMBERG, 1945, 172-89; ANDREAE, 1956; SCHÄFER, 1979; BRILLIANT, 1984, 112-5.

24. Artificial in that it divides the spiral into two equal parts. More artificial than Trajan's Column in the sense that it is copied directly from the earlier monument. If, as seems likely to the writer, this was done without regard to historical circumstances, and if the spiral represents simply a stream of triumphal genre imagery, with a few historical set-pieces, then this seriously affects discussions as to what particular wars are depicted.

25. For the visibility of the frieze and its architectural context see PETERSEN et al., 1896, 2-3; HAMBERG, 1945, 150-1; CAPRINO et al., 1955, 15-8; COARELLI, 1980, 268-9. Alternatively, the Temple of Marcus, the plan and exact location of which are unknown, may have enclosed the column in a colonnaded temenos.

26. Despite the popularity of Marcus with his contemporaries and with later generations, only a small amount of scholarly literature has been devoted to his column in comparison with Trajan's Column. This may be ascribed to four reasons. 1. The Marcus Column has suffered serious damage because of its high relief and the climatic conditions of the Piazza Colonna. 2. The frieze does not lend itself well to attempts at identifying geographical locations and historical events. 3. The lack of small detail and the less perfectly 'classical' style of the reliefs have deterred art historians who insisted on studying them close up in photographs as they were never intended to be seen. 4. No complete set of casts has ever been made of the Marcus Column, although a high quality photographic coverage was provided by PETERSEN et al., 1896. See also CAPRINO et al., 1955; BECATTI, 1957.

6.3 Trajan's Column and its Successors

1. BRILLIANT, 1967, Pl.61, 68, 77, 87 (Forum Romanum); Fig.98a; WARD-PERKINS, 1951, Pl.IX; STRONG, 1980, Pl.160 (Lepcis Magna).

2. BRILLIANT, 1967, Pl.90a (spears); 62a, 80a, 90a (standards).

3. LAUBSCHER, 1975, Pl.25.1, 32.1, 34, 40, 46, 53.1, 58.


8. In a sense the superimposed registers of the pedestal merged with the frieze. See HAMBERG, 1945, 160-1. The style of both this and the Theodosius Column are discussed by CAPRINO et al., 1955, 265-8.

9. FRESHFIELD, 1922, Pl.XV-VI, XXIII.

10. Ibid., Pl.XV, XVIII-XXII.

11. Ibid., Pl.XVIII-XXII. For a similar mosaic composition see BANDINELLI, 1971, Pl.211.


14. For interpretations of the panels see LAUBSCHER, 1975; POND ROTHMAN, 1977; MEYER, 1980. These depend on which route a viewing pedestrian took through the arch and suffer from the fact that only two out of four piers with reliefs survive. The genre scenes are so generalised that the writer even doubts the existence of a complex original programme linking all the reliefs together.

15. L'ORANGE & VON GERKAN, 1939, Pl.46, 10-1. See Zos., II,16. For 'Red Sea Crossing' sarcophagi and their influence on the Constantinian registers see L'ORANGE & VON GERKAN, 1939, 203-4, 221-2, 227-8; RIZZARDI, 1970; STRONG, 1980, 289. Like the relationship between Antonine battle sarcophagi and the Marcus Column this is a chicken-and-egg situation (see 6.2, n.23). If the sarcophagi came first, then the 'documentary' value of the arch panels decreases. This is the most likely situation because there was a 3rd century hiatus in monumental figural sculpture in Rome after the Arch of Severus. When Constantine wished to raise his civil war monument, only sculptors skilled in small-scale sarcophagus work may have been available, thus he was forced to loot panels from Trajanic, Hadrianic and Antonine buildings. Flavian architectural spolia are also visible inside the attic (pers. obs.).


17. See ROBINSON, 1975, 185.

18. BRILLIANT, 1967, Pl.49-59. Similar figures appear on the Arcus Argentariorum, ibid., Fig.61.
19. COULSTON, 1987, 141, 143, 149. There is also the possibility that praetorian troops in the capitals used forms of equipment out of fashion elsewhere, especially if Herodian, II,13,10 is correct about Severan decorated daggers (see 5.2.4).

20. As did MICLEA & FLORESCU, 1980, 90. See BRILLIANT, 1967, Pl.48c, 50–9, 78a, 84. Barbarian weaponry likewise lost its specificity. On the same arch despite the renowned Parthian skill in horse-archery (COULSTON, 1985, 239–41), as far as damage and antiquarian sketches allow judgement, no enemy archers are depicted at all. A quiver with a classical conical cap (not of Parthian form, see 5.8.3) on a siege panel is the only hint of archery (BRILLIANT, 1967, Pl.61, lower middle at right).

1. CLEMEN, 1975.

2. GAUER, 1981, 187, Fig.5. For Dante and Trajan’s Column see COLONNE, 1976, 122-3; BECATTI, 1982, 536-7.

3. FROEHNER, 1872-74, xx; REINACH, 1886, 13, 21–2; STRONG, 1913; PARIBENI, 1929; CHEVALLIER, 1980; BECATTI, 1982, 537-8. For the long French artistic involvement with the column see COLONNA, 1988. The writer is very grateful to Ms I. Sjöström who kindly acquired a copy of this work for him.

4. The Karlskirche columns (1716–23) depicted the life of Borromeo (GAUER, 1981, 189–90, Fig.6) whilst the Vendôme column (1805) represented the Grande Armée and Austerlitz (FROEHNER, 1872-74, xix; KRAUS, 1974, 116-8; COLONNE, 1976, 116-21; GAUER, 1981, 190-1, Fig.8; BECATTI, 1982, 539; COLONNA, 1988, 118-22.)
Appendix 1: Human Figures

SCENE I FIGURE 1
Auxiliary infantryman. *Lorica hamata*. Mail chiselling is absent. Baldric is absent. Sword is absent. Cloak is a *sagum*. Oval shield rear view or obscured.

SCENE I FIGURE 2
Auxiliary infantryman. *Lorica hamata*. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is a *sagum*. Oval shield with Roman method of carriage.

SCENE I FIGURE 3
Auxiliary infantryman. *Lorica hamata*. Mail chiselling is absent. Baldric is present. Sword is absent. Cloak is a *sagum*. Oval shield with Hellenistic method of carriage.

SCENE I FIGURE 4
Auxiliary infantryman. *Lorica hamata*. Mail chiselling is absent. Baldric is present. Sword is absent. Cloak is a *sagum*. Oval shield with Hellenistic method of carriage.

SCENE II FIGURE 1
Auxiliary infantryman. Bare head. *Lorica hamata*. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is absent.

SCENE III FIGURE 1
Deity.

SCENE IV FIGURE 1
Citizen figure type. Helmet type 32. 'Lorica segmentata'. Sword is present.

SCENE IV FIGURE 2
Citizen figure type. Helmet type 32. 'Lorica segmentata'.

SCENE IV FIGURE 3
Citizen figure type. Helmet type 32. 'Lorica segmentata' type 2. Cingulum is present. Apron is present. Baldric is absent. Sword is present. Additional cingulum. Mistake in detail.

SCENE IV FIGURE 4
Citizen figure type. Bare head. 'Lorica segmentata' type 2. Cingulum is present. Apron is present. Baldric is absent. Sword is present. Rectangular shield with wreath blazon. Additional cingulum. Mistake in detail.

SCENE IV FIGURE 5
Citizen figure type. Bare head. *Lorica segmentata*. Baldric is absent.

SCENE IV FIGURE 6
Citizen figure type. Helmet type 32. 'Lorica segmentata'. Cingulum is
present. Sword is present. Rectangular shield with wreath blazon.

SCENE IV  FIGURE 7
Citizen figure type. Bare head. 'Lorica segmentata'.

SCENE IV  FIGURE 8
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is absent. Sword is present. Rectangular shield with wreath blazon. Additional cingulum. Mistake in detail.

SCENE IV  FIGURE 9
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is absent.

SCENE IV  FIGURE 10
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is absent.

SCENE IV  FIGURE 11
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is absent.

SCENE IV  FIGURE 12
Citizen figure type. Bare head. 'Lorica segmentata'. 'Lorica segmentata' type 2. Apron is present. Baldric is absent.

SCENE IV  FIGURE 13
Citizen figure type. Bare head. 'Lorica segmentata'.

SCENE IV  FIGURE 14
Citizen figure type. Helmet type 32. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is absent. Sword is present. Rectangular shield with wreath blazon. Additional cingulum. Mistake in detail.

SCENE IV  FIGURE 15
Citizen figure type. Bare head. 'Lorica segmentata' type 1. Cingulum is absent. Baldric is absent.

SCENE IV  FIGURE 16
Standard bearer. Animal skin. Lorica hamata. Baldric is present. Sword is present. Cloak is a sagum. Mail edging is zig-zag.

SCENE IV  FIGURE 17
Citizen figure type. Bare head. 'Lorica segmentata' type 1.

SCENE IV  FIGURE 18
Standard bearer. Bare head. Lorica hamata. Baldric is present. Sword is present. Cloak is a sagum. Mail edging is shallow and rounded lappets.

SCENE IV  FIGURE 19
Standard bearer. Bare head. Lorica hamata. Cloak is a sagum.

SCENE IV  FIGURE 20
SCENE IV  
**FIGURE 21**  
Officer. Bare head. Muscled cuirass. Cloak is a _sagum_.

SCENE IV  
**FIGURE 22**  
Standard bearer. Bare head. _Lorica hamata_. Cloak is a _sagum_.

SCENE V  
**FIGURE 1**  
Standard bearer. Animal skin. _Lorica hamata_. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is a _sagum_. Mail edging is zig-zag. Additional detail on mail.

SCENE V  
**FIGURE 2**  
Standard bearer. Bare head. _Lorica hamata_. Mail chiselling is absent. Cloak is a _sagum_.

SCENE V  
**FIGURE 3**  
Standard bearer. Animal skin. _Lorica hamata_. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is a _sagum_. Mail edging is tongues. _Cingulum_ present when unnecessary.

SCENE V  
**FIGURE 4**  
Standard bearer. Animal skin. _Lorica hamata_. Mail chiselling is absent. Sword is present. Cloak is a _sagum_. Mail edging is zig-zag. _Cingulum_ present when unnecessary.

SCENE V  
**FIGURE 5**  
Officer. Bare head. Muscled cuirass. Cloak is a _sagum_.

SCENE V  
**FIGURE 6**  
Auxiliary infantryman. Bare head. _Lorica hamata_. Mail chiselling is absent. Cloak is a _sagum_.

SCENE V  
**FIGURE 7**  
Officer. Bare head. _Lorica hamata_. Mail chiselling is absent. Cloak is a _sagum_. Mail edging is tongues. Mistake in figure type characteristics.

SCENE V  
**FIGURE 8**  
Musician. Animal skin. _Lorica hamata_. Mail chiselling is absent. Baldric is absent.

SCENE V  
**FIGURE 9**  
Musician. Animal skin. _Lorica hamata_. Mail chiselling is absent. Baldric is absent.

SCENE V  
**FIGURE 10**  
Auxiliary infantryman. Bare head. _Lorica hamata_. Mail chiselling is absent. Cloak is a _sagum_. Mail edging is shallow and rounded lappets.

SCENE V  
**FIGURE 11**  
Auxiliary infantryman. Bare head. _Lorica hamata_. Mail chiselling is absent. Cloak is a _sagum_.

SCENE V  
**FIGURE 12**  
Auxiliary cavalryman. Bare head. _Lorica hamata_. Mail chiselling is absent. Sword is present. Cloak is a _sagum_. Horse harness is practical.
SCENE V  FIGURE 13
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is a sagum.

SCENE V  FIGURE 14
Auxiliary cavalryman. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is a sagum.

SCENE V  FIGURE 15
Auxiliary cavalryman. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is a sagum. Horse harness is practical.

SCENE V  FIGURE 16
Auxiliary cavalryman. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is a sagum.

SCENE V  FIGURE 17
Auxiliary cavalryman. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is a sagum.

SCENE V  FIGURE 18
Auxiliary cavalryman. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is a sagum. Horse harness is practical.

SCENE V  FIGURE 19
Auxiliary cavalryman. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is a sagum.

SCENE V  FIGURE 20
Auxiliary cavalryman. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is a sagum.

SCENE V  FIGURE 21
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE VI  FIGURE 1
Officer. Bare head. Tunic. Cloak is a sagum.

SCENE VI  FIGURE 2
Officer. Bare head. Tunic. Cloak is a sagum.

SCENE VI  FIGURE 3
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE VI  FIGURE 4
Officer. Bare head. Tunic. Cloak is a sagum.

SCENE VI  FIGURE 5
Officer. Bare head. Tunic. Cloak is a sagum.

SCENE VI  FIGURE 6
Trajan. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE VI  FIGURE 7
Officer. Bare head. Tunic. Cloak is a sagum.
SCENE VI  
FIGURE 8  
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE VI  
FIGURE 9  
Officer. Bare head. Tunic. Cloak is a sagum.

SCENE VI  
FIGURE 10  
Officer. Bare head. Tunic. Cloak is a sagum.

SCENE VI  
FIGURE 11  
Officer. Bare head. Tunic. Cloak is a sagum.

SCENE VII  
FIGURE 1  
Standard bearer. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is a sagum. Horse harness is practical. Mail edging is shallow and rounded lappets.

SCENE VII  
FIGURE 2  
Auxiliary cavalryman. Bare head. Lorica hamata. Mail chiselling is absent. Sword is present. Cloak is a sagum.

SCENE VII  
FIGURE 3  
Standard bearer. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is a sagum. Oval shield with piles blazon. Horse harness is practical. Tunic is absent. Mail edging is ragged. Mistake in detail.

SCENE VIII  
FIGURE 1  
Unarmoured soldier. Laureate head. Tunic. Cloak is absent.

SCENE VIII  
FIGURE 2  
Unarmoured soldier. Laureate head. Tunic. Cloak is absent.

SCENE VIII  
FIGURE 3  
Unarmoured soldier. Laureate head. Tunic. Cloak is absent.

SCENE VIII  
FIGURE 4  
Unarmoured soldier. Laureate head. Tunic. Cloak is absent.

SCENE VIII  
FIGURE 5  
Unarmoured soldier. Laureate head. Tunic. Cloak is absent.

SCENE VIII  
FIGURE 6  
Unarmoured soldier. Laureate head. Tunic. Cloak is absent.

SCENE VIII  
FIGURE 7  
Unarmoured soldier. Laureate head. Tunic. Cloak is absent.

SCENE VIII  
FIGURE 8  
Unarmoured soldier. Laureate head. Tunic. Cloak is absent.

SCENE VIII  
FIGURE 9  
Unarmoured soldier. Laureate head. Tunic. Cloak is absent.

SCENE VIII  
FIGURE 10  
Unarmoured soldier. Laureate head. Tunic. Cloak is absent.
SCENE VIII  FIGURE 11
Unarmoured soldier. Laureate head. Tunic. Cloak is absent.

SCENE VIII  FIGURE 12
Sacrificial attendant. Laureate head. Bare torso.

SCENE VIII  FIGURE 13
Sacrificial attendant. Bare head. Tunic.

SCENE VIII  FIGURE 14
Sacrificial attendant. Laureate head. Tunic.

SCENE VIII  FIGURE 15
Sacrificial attendant. Laureate head. Toga.

SCENE VIII  FIGURE 16
Unidentifiable figure. Laureate head.

SCENE VIII  FIGURE 17
Trajan. Veiled head. Toga.

SCENE VIII  FIGURE 18
Unarmoured soldier. Laureate head. Tunic. Cloak is a sagum.

SCENE VIII  FIGURE 19
Unarmoured soldier. Laureate head. Tunic. Cloak is a sagum.

SCENE VIII  FIGURE 20
Sacrificial attendant. Laureate head. Bare torso.

SCENE VIII  FIGURE 21
Musician. Laureate head. Knotted tunic. Cloak is a sagum.

SCENE VIII  FIGURE 22
Sacrificial attendant. Laureate head. Tunic. Cloak is absent.

SCENE VIII  FIGURE 23
Sacrificial attendant. Laureate head.

SCENE VIII  FIGURE 24
Sacrificial attendant. Laureate head. Bare torso.

SCENE VIII  FIGURE 25
Musician. Laureate head. Cloak is a sagum.

SCENE VIII  FIGURE 26
Musician. Laureate head. Cloak is a sagum.

SCENE VIII  FIGURE 27
Musician. Laureate head. Tunic. Cloak is a sagum.

SCENE VIII  FIGURE 28
Musician. Laureate head. Cloak is a sagum.
SCENE IX  
**FIGURE 1**
Unidentifiable figure. Bare head. Tunic.

SCENE IX  
**FIGURE 2**
Officer. Bare head. Muscled cuirass. Cloak is a fringed sagum.

SCENE IX  
**FIGURE 3**
Trajan. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE IX  
**FIGURE 4**
Officer. Bare head. Muscled cuirass. Cloak is a fringed sagum.

SCENE X  
**FIGURE 1**
Officer. Bare head. Lorica hamata. Mail chiselling is present on cast. Cloak is a fringed sagum. Mail edging is tongues. Mistake in figure type characteristics.

SCENE X  
**FIGURE 2**
Officer. Bare head. Muscled cuirass. Mail chiselling is present on cast. Cloak is a sagum. Mistake in detail.

SCENE X  
**FIGURE 3**
Trajan. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE X  
**FIGURE 4**
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Sword is present. Cloak is absent. Oval shield rear view/obscured. Tunic is absent. Mail edging is ragged. Mistake in detail.

SCENE X  
**FIGURE 5**

SCENE X  
**FIGURE 6**
Citizen figure type. Helmet type 22. 'Lorica segmentata' type 5. Cingulum is absent. Baldric is absent. Sword is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE X  
**FIGURE 7**

SCENE X  
**FIGURE 8**
Standard bearer. Animal skin. Lorica hamata. Mail chiselling is present on cast. Cloak is absent.

SCENE X  
**FIGURE 9**

SCENE X  
**FIGURE 10**
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Cloak is absent. Oval shield is unfinished. Mail edging is ragged. Mistake in detail.

SCENE X  
**FIGURE 11**
Citizen figure type. Helmet type 22. 'Lorica segmentata' type 5. Baldric is absent. Additional detail on helmet.
SCENE X  
**FIGURE 12**  

SCENE X  
**FIGURE 13**  

SCENE X  
**FIGURE 14**  
Citizen figure type. Helmet type 22.

SCENE X  
**FIGURE 15**  

SCENE X  
**FIGURE 16**  

SCENE X  
**FIGURE 17**  

SCENE X  
**FIGURE 18**  

SCENE X  
**FIGURE 19**  

SCENE X  
**FIGURE 20**  

SCENE X  
**FIGURE 21**  
Citizen figure type. Helmet type 22. Additional detail on helmet.

SCENE X  
**FIGURE 22**  

SCENE X  
**FIGURE 23**  

SCENE X  
**FIGURE 24**  
Auxiliary infantryman. Helmet type 22. *Lorica hamata*. Mail chiselling is absent. Cloak is absent.
SCENE X  FIGURE 25

SCENE X  FIGURE 26
Auxiliary infantryman. Helmet type 22. Lorica hamata. Cloak is absent.

SCENE XI  FIGURE 1
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is absent. Sword is absent. Mistake in pose.

SCENE XI  FIGURE 2
Citizen figure type. Bare head. 'Lorica segmentata' type 5. Baldric is absent. Sword is absent.

SCENE XI  FIGURE 3
Citizen figure type. Bare head. 'Lorica segmentata' type 5. Cingulum is present. Baldric is absent. Sword is present. Mistake in pose.

SCENE XI  FIGURE 4
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is absent. Sword is absent.

SCENE XI  FIGURE 5
Citizen figure type. Bare head. 'Lorica segmentata' type 5. Cingulum is absent. Baldric is absent. Sword is absent.

SCENE XI  FIGURE 6
Citizen figure type. Bare head. 'Lorica segmentata' type 1. Baldric is absent.

SCENE XI  FIGURE 7
Citizen figure type. Bare head. 'Lorica segmentata' type 1. Cingulum is absent. Baldric is absent. Sword is absent.

SCENE XI  FIGURE 8
Citizen figure type. Bare head. 'Lorica segmentata' type 1. Baldric is absent. Sword is absent.

SCENE XI  FIGURE 9
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent.

SCENE XI  FIGURE 10
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Baldric is absent. Sword is absent.

SCENE XI  FIGURE 11
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is absent. Baldric is absent.

SCENE XI  FIGURE 12
Auxiliary infantryman. Helmet type 8. Lorica hamata. Mail chiselling is
absent. Baldric is present. Sword is present. Cloak is a sagum. Oval shield with wreath blazon. Tunic is absent. Mail edging is shallow and rounded lappets. Mistake in detail.

SCENE XI  FIGURE 13

SCENE XII  FIGURE 1
Citizen figure type. Bare head. Lorica segmentata. Cingulum is present. Apron is absent. Baldric is absent. Sword is absent.

SCENE XII  FIGURE 2
Citizen figure type. Bare head. Lorica segmentata. Cingulum is present. Apron is present. Baldric is absent. Mistake in pose.

SCENE XII  FIGURE 3
Citizen figure type. Bare head. Lorica segmentata. Cingulum is absent. Apron is absent. Baldric is absent. Mistake in pose.

SCENE XII  FIGURE 4
Citizen figure type. Bare head. Lorica segmentata type 1. Cingulum is absent. Baldric is absent. Mistake in pose.

SCENE XII  FIGURE 5
Citizen figure type. Bare head. Lorica segmentata type 1. Cingulum is absent. Baldric is absent. Sword is absent.

SCENE XII  FIGURE 6
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE XII  FIGURE 7
Citizen figure type. Bare head. Lorica segmentata type 1. Baldric is absent. Sword is absent.

SCENE XII  FIGURE 8
Trajan. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE XII  FIGURE 9
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE XII  FIGURE 10
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Baldric is absent. Cloak is a sagum. Mail edging is shallow and rounded lappets. Mistake in figure type characteristics.

SCENE XIII  FIGURE 1
Citizen figure type. Bare head. Lorica segmentata. Baldric is absent.

SCENE XIII  FIGURE 2
Citizen figure type. Helmet type 9. Lorica segmentata type 1. Cingulum is present. Apron is present. Baldric is present. Sword is present. Rectangular shield with thunderbolts and wings blazon.
SCENE XIII  
FIGURE 3  
Citizen figure type. Bare head. *Lorica segmentata*. Baldric is absent. Sword is absent.

SCENE XIII  
FIGURE 4  

SCENE XIII  
FIGURE 5  

SCENE XIII  
FIGURE 6  
Citizen figure type. Bare head. *Lorica segmentata*. Baldric is absent.

SCENE XIV  
FIGURE 1  
Officer. Bare head. Muscled cuirass. Cloak is a *sagum*.

SCENE XIV  
FIGURE 2  
Trajan. Bare head. Muscled cuirass. Cloak is a *sagum*.

SCENE XIV  
FIGURE 3  

SCENE XIV  
FIGURE 4  
Auxiliary infantryman. Helmet type 1 *Lorica hamata*. Mail chiselling is absent. Sword is absent. Cloak is absent. Tunic is absent. Mail edging is zig-zag.

SCENE XIV  
FIGURE 5  

SCENE XIV  
FIGURE 6  
Citizen figure type. Helmet type 1 *Lorica segmentata*. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent.

SCENE XV  
FIGURE 1  
Citizen figure type. Bare head. *Lorica segmentata*. Cingulum is present. Apron is present. Baldric is absent. Sword is absent.

SCENE XV  
FIGURE 2  
Citizen figure type. Bare head. *Lorica segmentata*. Cingulum is present. Apron is present. Baldric is absent. Sword is absent.
SCENE XV

FIGURE 3
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is absent. Sword is absent.

SCENE XV

FIGURE 4
Citizen figure type. Bare head. 'Lorica segmentata' type 2. Cingulum is present. Apron is present. Baldric is absent. Sword is absent.

SCENE XV

FIGURE 5
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Apron is present.

SCENE XV

FIGURE 6
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is absent. Sword is absent.

SCENE XVI

FIGURE 1
Unidentifiable figure. Bare head. Bare torso. Baldric is absent. Sword is absent. Horse harness is practical. Mistake in figure type characteristics.

SCENE XVI

FIGURE 2
Citizen figure type. Bare head. 'Lorica segmentata' type 5. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent.

SCENE XVI

FIGURE 3
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is absent. Sword is absent. Mistake in pose.

SCENE XVI

FIGURE 4
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is absent. Sword is absent.

SCENE XVI

FIGURE 5
Trajan. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE XVI

FIGURE 6
Unidentifiable figure. Bare head. Cloak is a sagum.

SCENE XVI

FIGURE 7
Unidentifiable figure. Bare head. Lorica hamata. Mail chiselling is absent. Baldric is absent. Sword is absent. Cloak is a fringed sagum. Mistake in figure type characteristics.

SCENE XVI

FIGURE 8
Unidentifiable figure. Bare head. Lorica hamata. Mail chiselling is absent. Baldric is absent. Sword is absent. Cloak is a fringed sagum. Mistake in figure type characteristics.

SCENE XVI

FIGURE 9
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Baldric is absent. Sword is absent.

SCENE XVII

FIGURE 1
Citizen figure type. Bare head. 'Lorica segmentata' type 5. Cingulum is
absent. Baldric is absent. Sword is absent.

SCENE XVII
FIGURE 2
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Baldric is absent. Sword is absent.

SCENE XVII
FIGURE 3
Citizen figure type. Bare head. 'Lorica segmentata' type 5. Baldric is absent.

SCENE XVII
FIGURE 4
Citizen figure type. Bare head. 'Lorica segmentata' type 5. Cingulum is present. Apron is absent. Baldric is absent. Sword is absent.

SCENE XVIII
FIGURE 1
Auxiliary infantryman. Helmet type 24. Lorica hamata. Mail chiselling is absent. Sword is absent. Cloak is a sagum. Oval shield rear view or obscured.

SCENE XVIII
FIGURE 2
Auxiliary infantryman. Helmet type 24. Lorica hamata. Mail chiselling is absent. Cloak is a sagum. Oval shield with small motifs. Mail edging is very small lappets.

SCENE XVIII
FIGURE 3

SCENE XVIII
FIGURE 4

SCENE XVIII
FIGURE 5
Citizen figure type. Helmet type 1. 'Lorica segmentata' type 1. Cingulum is present. Apron is absent. Baldric is absent. Sword is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE XVIII
FIGURE 6
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE XVIII
FIGURE 7
Trajan. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE XVIII
FIGURE 8
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE XVIII
FIGURE 9
Citizen figure type. Helmet type 1. 'Lorica segmentata'. Cingulum is present. Apron is absent. Baldric is absent. Sword is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE XVIII
FIGURE 10
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is absent. Sword is absent.
SCENE XVIII  FIGURE 11
Dacian. Bare head. Tunic.

SCENE XVIII  FIGURE 12
Auxiliary infantryman. Bare head.

SCENE XVIII  FIGURE 13
Auxiliary infantryman. Helmet type 8. Lorica hamata. Mail chiselling is absent. Cloak is a sagum. Tunic with tufts. Mail edging is zig-zag.

SCENE XVIII  FIGURE 14
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent.

SCENE XVIII  FIGURE 15
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is absent. Apron is absent.

SCENE XIX  FIGURE 1
Citizen figure type. Bare head. 'Lorica segmentata' type 6. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent.

SCENE XIX  FIGURE 2
Citizen figure type. Bare head. 'Lorica segmentata' type 5. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent.

SCENE XIX  FIGURE 3
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent.

SCENE XIX  FIGURE 4
Citizen figure type. Bare head. 'Lorica segmentata' type 5. Baldric is absent.

SCENE XIX  FIGURE 5
Citizen figure type. Bare head. 'Lorica segmentata' type 5. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent.

SCENE XIX  FIGURE 6
Citizen figure type. Bare head. 'Lorica segmentata' type 5. Cingulum is absent. Baldric is absent. Sword is absent.

SCENE XIX  FIGURE 7
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is absent. Baldric is absent. Sword is absent.

SCENE XIX  FIGURE 8
Citizen figure type. Bare head. 'Lorica segmentata' type 5. Mail chiselling is surviving on the shaft. Cingulum is absent. Baldric is absent. Sword is absent.

SCENE XX  FIGURE 1
Unidentifiable figure. Bare head. Cloak is a sagum.
SCENE XX  FIGURE 2
Trajan. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE XX  FIGURE 3
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is absent. Sword is absent.

SCENE XX  FIGURE 4

SCENE XX  FIGURE 5
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent.

SCENE XX  FIGURE 6
Citizen figure type. Bare head. 'Lorica segmentata' type 5. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent.

SCENE XX  FIGURE 7
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent.

SCENE XX  FIGURE 8
Citizen figure type. Bare head. 'Lorica segmentata' type 5. Baldric is absent.

SCENE XX  FIGURE 9
Citizen figure type. Bare head. 'Lorica segmentata' type 5. Baldric is absent.

SCENE XX  FIGURE 10
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent.

SCENE XX  FIGURE 11
Citizen figure type. Bare head. 'Lorica segmentata' type 5. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent.

SCENE XX  FIGURE 12
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent.

SCENE XX  FIGURE 13
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is absent. Baldric is absent. Sword is absent.

SCENE XXI  FIGURE 1
Auxiliary cavalryman. Helmet type 2. Lorica hamata. Mail chiselling is absent. Baldric is absent. Sword is absent. Cloak is absent. Horse harness is practical. Mail edging is zig-zag.

SCENE XXI  FIGURE 2
Auxiliary cavalryman. Helmet type 2. Lorica hamata. Mail chiselling is absent. Baldric is absent. Sword is absent. Cloak is absent. Horse
harness is practical. Mail edging is zig-zag. Additional detail on mail.

SCENE XXI  FIGURE 3
Auxiliary cavalryman. Helmet type 2. *Lorica hamata*. Mail chiselling is absent. Baldric is absent. Sword is absent. Cloak is a fringed *sagum*. Horse harness is practical. Mail edging is zig-zag.

SCENE XXI  FIGURE 4
Auxiliary cavalryman. Helmet type 2. *Lorica hamata*. Mail chiselling is absent. Baldric is absent. Sword is absent. Cloak is absent. Mail edging is zig-zag. Additional detail on mail.

SCENE XXI  FIGURE 5
Auxiliary cavalryman. Helmet type 2. *Lorica hamata*. Mail chiselling is absent. Baldric is absent. Sword is absent. Cloak is a fringed *sagum*. Horse harness is practical. Mail edging is zig-zag. Additional detail on mail.

SCENE XXI  FIGURE 6
Citizen figure type. Helmet type 27. *Lorica segmentata* type 8. Cingulum is present. Apron is present. Baldric is absent. Sword is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE XXI  FIGURE 7

SCENE XXI  FIGURE 8
Auxiliary infantryman. Helmet type 8. *Lorica hamata*. Mail chiselling is absent. Baldric is absent. Sword is absent. Cloak is absent. Oval shield is unfinished. Tunic is absent. Mail edging is ragged, very small lappets, or fringed. Mistake in detail.

SCENE XXI  FIGURE 9
Auxiliary cavalryman. Helmet type 8. *Lorica hamata*. Mail chiselling is absent. Baldric is absent. Sword is absent. Cloak is absent. Oval shield rear view or obscured. Horse harness is practical. Tunic is absent. Mail edging is zig-zag. Additional detail on mail. Mistake in detail.

SCENE XXI  FIGURE 10
Auxiliary cavalryman. Helmet type 8. *Lorica hamata*. Mail chiselling is absent. Baldric is absent. Sword is absent. Cloak is absent. Oval shield rear view or obscured. Horse harness is practical. Tunic is absent. Mail edging is zig-zag. Additional detail on mail. Mistake in detail.

SCENE XXI  FIGURE 11
Auxiliary cavalryman. Helmet type 8. *Lorica hamata*. Mail chiselling is absent. Baldric is absent. Sword is absent. Cloak is absent. Oval shield rear view or obscured. Horse harness is practical. Tunic is absent. Mail edging is ragged, very small lappets, or fringed. Mistake in detail.
SCENE XXII

FIGURE 1
Citizen figure type. Helmet type 5. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is absent. Sword is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE XXII

FIGURE 2
Citizen figure type. Helmet type 5. 'Lorica segmentata'.

SCENE XXII

FIGURE 3
Citizen figure type. Helmet type 5. 'Lorica segmentata'. Cingulum is present. Baldric is absent.

SCENE XXII

FIGURE 4
Citizen figure type. Helmet type 5. 'Lorica segmentata'.

SCENE XXII

FIGURE 5
Citizen figure type. Helmet type 5. 'Lorica segmentata'.

SCENE XXII

FIGURE 6
Citizen figure type. Helmet type 5. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is absent. Sword is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE XXII

FIGURE 7
Citizen figure type. Helmet type 5. 'Lorica segmentata'. Baldric is absent. Rectangular shield rear view or obscured.

SCENE XXII

FIGURE 8
Citizen figure type. Helmet type 5. 'Lorica segmentata'.

SCENE XXII

FIGURE 9
Citizen figure type. Helmet type 5. 'Lorica segmentata'. Additional detail on helmet.

SCENE XXII

FIGURE 10
Citizen figure type. Helmet type 5. 'Lorica segmentata'.

SCENE XXII

FIGURE 11
Citizen figure type. Helmet type 5. 'Lorica segmentata'. Baldric is absent. Sword is absent. Rectangular shield with thunderbolts and wings blazon. Additional detail on helmet.

SCENE XXII

FIGURE 12
Citizen figure type. Helmet type 5. 'Lorica segmentata'. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE XXII

FIGURE 13
Citizen figure type. Helmet type 5. 'Lorica segmentata'. Baldric is absent. Sword is absent. Rectangular shield with thunderbolts and wings blazon. Additional detail on helmet.

SCENE XXII

FIGURE 14
Citizen figure type. Helmet type 5. 'Lorica segmentata'.

SCENE XXII

FIGURE 15
Citizen figure type. Helmet type 5. 'Lorica segmentata'.
SCENE XXII  

FIGURE 16
Standard bearer. Animal skin. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is absent. Cloak is a fringed sagum.

SCENE XXII  

FIGURE 17
Citizen figure type. Helmet type 5. 'Lorica segmentata'.

SCENE XXII  

FIGURE 18
Citizen figure type. Helmet type 5. 'Lorica segmentata'. Baldric is absent. Additional detail on helmet.

SCENE XXII  

FIGURE 19
Standard bearer. Bare head. Lorica hamata. Mail chiselling is absent. Baldric is present. Cloak is a fringed sagum. Mail edging is ragged, very small lappets, or fringed. Additional detail on mail.

SCENE XXII  

FIGURE 20
Standard bearer. Animal skin. Lorica hamata. Mail chiselling is absent. Cloak is a fringed sagum.

SCENE XXII  

FIGURE 21
Officer. Bare head. Muscled cuirass.

SCENE XXXII  

FIGURE 1
Citizen figure type. Helmet type 22. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is absent. Sword is absent.

SCENE XXXII  

FIGURE 2
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is absent. Sword is absent.

SCENE XXXII  

FIGURE 3
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is absent. Sword is absent.

SCENE XXXII  

FIGURE 4
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is absent.

SCENE XXXII  

FIGURE 5
Citizen figure type. Bare head. 'Lorica segmentata'. Apron is present. Baldric is absent.

SCENE XXXII  

FIGURE 6
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is absent. Sword is absent.

SCENE XXXII  

FIGURE 7
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is absent. Sword is absent.

SCENE XXIV  

FIGURE 1
Citizen figure type. Helmet type 2. 'Lorica segmentata'. Baldric is absent. Sword is absent.

SCENE XXIV  

FIGURE 2
Citizen figure type. Helmet type 4. 'Lorica segmentata'. Baldric is
absent. Sword is absent.

SCENE XXIV  FIGURE 3
Citizen figure type. Helmet type 2. *Lorica segmentata*.

SCENE XXIV  FIGURE 4

SCENE XXIV  FIGURE 5

SCENE XXIV  FIGURE 6

SCENE XXIV  FIGURE 7

SCENE XXIV  FIGURE 8

SCENE XXIV  FIGURE 9

SCENE XXIV  FIGURE 10
Citizen figure type. Helmet type 2. *Lorica segmentata*. Cingulum is present. Baldric is absent. Sword is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE XXIV  FIGURE 11

SCENE XXIV  FIGURE 12

SCENE XXIV  FIGURE 13

SCENE XXIV  FIGURE 14
Citizen figure type. Helmet type 2.

SCENE XXIV  FIGURE 15
Citizen figure type. Helmet type 2. *Lorica segmentata*. Mail chiselling is present on cast. Cingulum is present. Apron is present.
Baldric is absent. Sword is absent. Rectangular shield with thunderbolts and wings blazon. Additional detail on 'lorica segmentata'. Mistake in detail.

**SCENE XXIV**  **FIGURE 16**
Citizen figure type. Helmet type 2. 'Lorica segmentata' type 13. Baldric is absent. Sword is absent.

**SCENE XXIV**  **FIGURE 17**
Standard bearer. Animal skin. Lorica hamata. Baldric is absent. Sword is absent. Cloak is absent. Mail edging is tongues.

**SCENE XXIV**  **FIGURE 18**
Standard bearer. Animal skin. Lorica hamata. Mail chiselling is present on cast. Baldric is absent. Sword is absent. Cloak is absent. Mail edging is tongues. Additional detail on mail.

**SCENE XXIV**  **FIGURE 19**

**SCENE XXIV**  **FIGURE 20**
Citizen figure type. Helmet type 2. 'Lorica segmentata'.

**SCENE XXIV**  **FIGURE 21**

**SCENE XXIV**  **FIGURE 22**
Standard bearer. Animal skin. Lorica hamata. Mail chiselling is present on cast. Baldric is absent. Sword is absent. Cloak is absent. Tunic is absent. Mail edging is zig-zag. Additional detail on mail. Mistake in detail.

**SCENE XXIV**  **FIGURE 23**
Unidentifiable figure. Helmet type 25.

**SCENE XXIV**  **FIGURE 24**
Auxiliary cavalryman. Helmet type 16. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is absent. Sword is absent. Cloak is absent. Oval shield rear view or obscured. Horse harness is impractical. Mail edging is zig-zag.

**SCENE XXIV**  **FIGURE 25**

**SCENE XXIV**  **FIGURE 26**

**SCENE XXIV**  **FIGURE 27**
Trajan. Bare head. Muscled cuirass. Cloak is a sagum.
SCENE XXIV  
**FIGURE 28**
Auxiliary cavalryman. Helmet type 16. Lorica hamata. Mail chiselling is present on cast. Baldric is absent. Sword is absent. Cloak is absent. Oval shield rear view or obscured. Horse harness is practical. Mail edging is zig-zag.

SCENE XXIV  
**FIGURE 29**
Officer. Bare head. Muscled cuirass. Cloak is a *sagum*.

SCENE XXIV  
**FIGURE 30**
Auxiliary infantryman. Helmet type 16. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is absent. Sword is absent. Cloak is absent. Oval shield with tendrils blazon. Mail edging is zig-zag. Additional detail on mail.

SCENE XXIV  
**FIGURE 31**
Auxiliary cavalryman. Helmet type 16. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is absent. Sword is absent. Cloak is absent. Oval shield rear view or obscured. Horse harness is practical. Mail edging is zig-zag. Additional detail on mail.

SCENE XXIV  
**FIGURE 32**
Auxiliary infantryman. Helmet type 20. Lorica hamata. Mail chiselling is present on cast. Baldric is absent. Sword is absent. Cloak is absent. Oval shield with palmettes blazon. Mail edging is zig-zag.

SCENE XXIV  
**FIGURE 33**
Auxiliary infantryman. Helmet type 16. Lorica hamata. Mail chiselling is absent. Baldric is absent. Sword is absent. Cloak is absent. Oval shield with wreath blazon. Mail edging is zig-zag. Additional detail on mail.

SCENE XXIV  
**FIGURE 34**

SCENE XXIV  
**FIGURE 35**
Auxiliary infantryman. Helmet type 1. Lorica hamata. Mail chiselling is absent. Baldric is absent. Cloak is absent. Oval shield rear view or obscured.

SCENE XXIV  
**FIGURE 36**

SCENE XXIV  
**FIGURE 37**
Auxiliary infantryman. Helmet type 16. Lorica hamata. Mail chiselling is present on cast. Baldric is absent. Sword is absent. Cloak is absent. Oval shield with tendrils blazon. Mail edging is zig-zag. Additional detail on mail.

SCENE XXIV  
**FIGURE 38**
Archer. Helmet type 1. Lorica hamata. Mail chiselling is absent. Baldric is absent. Cloak is absent. Mail edging is zig-zag. Mistake in figure type characteristics.
SCENE XXIV  FIGURE 39  
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE XXIV  FIGURE 40  
Bare-chested irregular. Bare head. Bare torso. Baldric is absent. Sword is present. Oval shield with Hellenistic method of carriage.

SCENE XXIV  FIGURE 41  
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE XXIV  FIGURE 42  

SCENE XXIV  FIGURE 43  

SCENE XXIV  FIGURE 44  

SCENE XXIV  FIGURE 45  
Auxiliary infantryman. Helmet type 26. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is absent. Sword is present. Cloak is absent. Tunic is absent. Mail edging is zig-zag. Additional detail on mail. Mistake in detail.

SCENE XXIV  FIGURE 46  

SCENE XXIV  FIGURE 47  
Dacian. Bare head. Tunic. Cloak is a fringed sagum. Oval shield with rings blazon.

SCENE XXIV  FIGURE 48  

SCENE XXIV  FIGURE 49  
Dacian. Bare head. Tunic. Oval shield with small motifs. Mistake in figure type characteristics.

SCENE XXIV  FIGURE 50  
Deity. Bare head.

SCENE XXIV  FIGURE 51  

SCENE XXIV  FIGURE 52  

SCENE XXIV  FIGURE 53  
Dacian. Bare head. Tunic.
SCENE XXIV  FIGURE 54

SCENE XXIV  FIGURE 55

SCENE XXIV  FIGURE 56

SCENE XXIV  FIGURE 57

SCENE XXIV  FIGURE 58
Dacian. Bare head. Tunic.

SCENE XXIV  FIGURE 59

SCENE XXIV  FIGURE 60

SCENE XXIV  FIGURE 61
Dacian. Bare head. Tunic.

SCENE XXIV  FIGURE 62

SCENE XXIV  FIGURE 63

SCENE XXIV  FIGURE 64
Dacian. Bare head. Tunic.

SCENE XXIV  FIGURE 65
Dacian. Bare head. Tunic.

SCENE XXIV  FIGURE 66
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE XXV  FIGURE 1
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE XXV  FIGURE 2
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE XXV  FIGURE 3
Trajan. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE XXV  FIGURE 4
Auxiliary infantryman. Helmet type 2. Lorica hamata. Mail chiselling is absent. Baldric is absent. Sword is absent. Cloak is a sagum. Oval shield rear view or obscured. Mail edging is zig-zag. Mistake in pose.
SCENE XXV  FIGURE 5

SCENE XXV  FIGURE 6
Dacian. Bare head. Tunic.

SCENE XXV  FIGURE 7
Dacian. Bare head.

SCENE XXV  FIGURE 8

SCENE XXV  FIGURE 9

SCENE XXVI  FIGURE 1
Citizen figure type. Bare head. Rectangular shield rear view or obscured.

SCENE XXVI  FIGURE 2
Citizen figure type. Bare head. Lorica segmentata type 18. Cingulum is absent. Baldric is absent. Sword is absent. Rectangular shield rear view or obscured.

SCENE XXVI  FIGURE 3
Citizen figure type. Bare head.

SCENE XXVI  FIGURE 4
Citizen figure type. Bare head.

SCENE XXVI  FIGURE 5
Citizen figure type. Bare head.

SCENE XXVI  FIGURE 6
Citizen figure type. Bare head. Lorica segmentata. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE XXVI  FIGURE 7
Citizen figure type. Bare head. Lorica segmentata. Cingulum is absent. Apron is absent. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE XXVI  FIGURE 8
Musician. Animal skin.

SCENE XXVI  FIGURE 9
Unidentifiable figure. Animal skin. Cloak is a paenula. Mistake in figure type characteristics.

SCENE XXVI  FIGURE 10
Standard bearer. Animal skin. Over-tunic. Mail chiselling is absent. Cingulum is present. Baldric is absent. Sword is absent. Cloak is absent. Mistake in figure type characteristics.
SCENE XXVI  
Figure 11  
Standard bearer. Animal skin. Over-tunic. Mail chiselling is absent. Cingulum is present. Apron is absent. Baldric is present. Cloak is absent. Mail edging is zig-zag. Mistake in figure type characteristics.

SCENE XXVI  
Figure 12  
Citizen figure type. Bare head. Bare torso. Baldric is present. Sword is present. Rectangular shield with wreath blazon.

SCENE XXVI  
Figure 13  
Standard bearer. Bare head. Lorica hamata. Mail chiselling is absent. Sword is absent. Cloak is a fringed sagum. Mail edging is plain (unfinished).

SCENE XXVI  
Figure 14  
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE XXVII  
Figure 1  
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE XXVII  
Figure 2  
Trajan. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE XXVII  
Figure 3  
Citizen figure type. Bare head. 'Lorica segmentata' type 7. Baldric is absent.

SCENE XXVII  
Figure 4  
Citizen figure type. Bare head. 'Lorica segmentata' type 7. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE XXVII  
Figure 5  
Standard bearer. Bare head. Mistake in detail.

SCENE XXVII  
Figure 6  
German. Nodus hairstyle. Bare torso. Cloak is a fringed sagum. Oval shield with piles blazon.

SCENE XXVII  
Figure 7  
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is absent.

SCENE XXVII  
Figure 8  
Standard bearer. Bare head.

SCENE XXVII  
Figure 9  
German. Nodus hairstyle. Cloak is a fringed sagum.

SCENE XXVII  
Figure 10  
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE XXVII  
Figure 11  
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is absent.
SCENE XXVII  FIGURE 12
Dacian. Bare head. Tunic.

SCENE XXVII  FIGURE 13
Dacian. Bare head. Tunic.

SCENE XXVII  FIGURE 14
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE XXVII  FIGURE 15
Dacian cavalryman. Bare head. Tunic.

SCENE XXVII  FIGURE 16
Dacian cavalryman. Bare head. Tunic.

SCENE XXVII  FIGURE 17
Dacian cavalryman. Bare head. Tunic.

SCENE XXVII  FIGURE 18
Dacian. Bare head. Tunic.

SCENE XXVII  FIGURE 19
Dacian. Bare head. Tunic.

SCENE XXVIII  FIGURE 1
Citizen figure type. Helmet type 2. 'Lorica segmentata'.

SCENE XXVIII  FIGURE 2
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE XXVIII  FIGURE 3
Citizen figure type. Helmet type 2. 'Lorica segmentata'.

SCENE XXVIII  FIGURE 4
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE XXVIII  FIGURE 5
Officer. Bare head.

SCENE XXVIII  FIGURE 6
Trajan. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE XXVIII  FIGURE 7
Dacian. Bare head. Tunic. Cloak is a fringed sagum.

SCENE XXVIII  FIGURE 8
Dacian. Bare head. Tunic. Cloak is a fringed sagum.

SCENE XXVIII  FIGURE 9
Dacian. Bare head.

SCENE XXVIII  FIGURE 10
Dacian. Bare head.

SCENE XXVIII  FIGURE 11
Dacian. Bare head. Tunic. Cloak is a fringed sagum.
SCENE XXIX  FIGURE 1
Unidentifiable figure. Bare head. Tunic. Cloak is a sagum. Mistake in figure type characteristics.

SCENE XXIX  FIGURE 2
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE XXIX  FIGURE 3
Auxiliary infantryman. Helmet type 16. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Sword is present. Cloak is absent. Oval shield with tendrils blazon. Mail edging is zig-zag.

SCENE XXIX  FIGURE 4

SCENE XXIX  FIGURE 5
Dacian. Bare head. Tunic.

SCENE XXIX  FIGURE 6
Unidentifiable figure. Bare head. Tunic. Baldric is absent. Sword is absent. Cloak is a sagum. Horse harness is practical. Mistake in figure type characteristics.

SCENE XXIX  FIGURE 7
Dacian. Bare head. Tunic.

SCENE XXIX  FIGURE 8
Dacian. Bare head. Tunic.

SCENE XXIX  FIGURE 9
Unidentifiable figure. Bare head. Tunic. Cloak is a sagum. Oval shield rear view or obscured. Horse harness is practical. Mistake in figure type characteristics.

SCENE XXIX  FIGURE 10

SCENE XXIX  FIGURE 11
Dacian civilian. Bare head. Tunic.

SCENE XXIX  FIGURE 12
Dacian. Bare head. Tunic.

SCENE XXX  FIGURE 1
Dacian civilian. Bare head.

SCENE XXX  FIGURE 2
Dacian civilian. Bare head.

SCENE XXX  FIGURE 3
Dacian civilian. Bare head.
SCENE XXX FIGURE 4
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE XXX FIGURE 5
Dacian civilian. Bare head.

SCENE XXX FIGURE 6
Trajan. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE XXX FIGURE 7
Dacian civilian. Bare head.

SCENE XXX FIGURE 8

SCENE XXX FIGURE 9
Dacian civilian. Bare head.

SCENE XXX FIGURE 10
Dacian civilian. Bare head.

SCENE XXX FIGURE 11
Dacian civilian. Bare head.

SCENE XXX FIGURE 12
Dacian civilian. Bare head.

SCENE XXX FIGURE 13

SCENE XXXX FIGURE 4

SCENE XXXX FIGURE 5

SCENE XXXX FIGURE 6
Dacian. Pilleus. Oval shield rear view or obscured.

SCENE XXXX FIGURE 7
Dacian. Bare head. Tunic.

SCENE XXXX FIGURE 8
SCENE XXXI  FIGURE 9
Dacian cavalryman. Bare head. Tunic.

SCENE XXXI  FIGURE 10
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE XXXI  FIGURE 11

SCENE XXXI  FIGURE 12
Dacian cavalryman. Bare head. Tunic.

SCENE XXXI  FIGURE 13
Dacian cavalryman. Bare head. Tunic.

SCENE XXXI  FIGURE 14

SCENE XXXI  FIGURE 15

SCENE XXXI  FIGURE 16

SCENE XXXI  FIGURE 17

SCENE XXXI  FIGURE 18

SCENE XXXI  FIGURE 19

SCENE XXXI  FIGURE 20

SCENE XXXI  FIGURE 21

SCENE XXXI  FIGURE 22

SCENE XXXII FIGURE 1
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE XXXII FIGURE 2
Dacian. Bare head. Tunic.

SCENE XXXII FIGURE 3
Dacian. Bare head. Tunic.

SCENE XXXII FIGURE 4
SCENE XXXII  FIGURE 5

SCENE XXXII  FIGURE 6

SCENE XXXII  FIGURE 7
Dacian. Bare head. Tunic.

SCENE XXXII  FIGURE 8

SCENE XXXII  FIGURE 9

SCENE XXXII  FIGURE 10

SCENE XXXII  FIGURE 11

SCENE XXXII  FIGURE 12
Dacian. Bare head. Tunic.

SCENE XXXII  FIGURE 13

SCENE XXXII  FIGURE 14
Dacian. Bare head. Tunic.

SCENE XXXII  FIGURE 15
Auxiliary infantryman. Helmet type 18. Lorica hamata. Mail chiselling is absent. Cloak is absent. Oval shield rear view or obscured. Mail edging is zig-zag.

SCENE XXXII  FIGURE 16

SCENE XXXII  FIGURE 17
Auxiliary infantryman. Helmet type 18. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is absent. Cloak is absent. Oval shield with small motifs. Mail edging is zig-zag. Additional detail on
baldric. Mistake in detail.

SCENE XXXII FIGURE 18

SCENE XXXII FIGURE 19
Dacian. Bare head. Tunic.

SCENE XXXII FIGURE 20

SCENE XXXII FIGURE 21

SCENE XXXII FIGURE 22
Dacian. Bare head. Tunic.

SCENE XXXII FIGURE 23
Auxiliary infantryman. Helmet type 18. Lorica hamata. Mail chiselling is absent. Cloak is absent. Mail edging is zig-zag.

SCENE XXXII FIGURE 24

SCENE XXXII FIGURE 25
Dacian. Bare head. Tunic.

SCENE XXXII FIGURE 26

SCENE XXXII FIGURE 27
Dacian. Bare head. Tunic.

SCENE XXXIII FIGURE 1
Auxiliary infantryman. Bare head. Tunic. Apron is absent. Baldric is absent. Sword is present. Cloak is a sagum. Rectangular shield rear view or obscured.

SCENE XXXIII FIGURE 2
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is absent. Cloak is absent. Tunic is absent. Mail edging is shallow and rounded lappets. Mistake in detail.

SCENE XXXIII FIGURE 3
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is a sagum. Mail edging is shallow and rounded lappets.

SCENE XXXIII FIGURE 4
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is a sagum. Mail edging is shallow and rounded lappets.
SCENE XXXIII  FIGURE 5
Auxiliary infantryman. Helmet type 32. *Lorica hamata*. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is absent. Rectangular shield with thunderbolts and wings blazon. Mail edging is shallow and rounded lappets.

SCENE XXXIII  FIGURE 6

SCENE XXXIII  FIGURE 7
Auxiliary infantryman. Bare head. *Lorica hamata*. Baldric is absent. Sword is absent. Cloak is a sagum. Rectangular shield rear view or obscured. Mail edging is shallow and rounded lappets. Mistake in detail.

SCENE XXXIII  FIGURE 8

SCENE XXXIII  FIGURE 9
Unarmoured soldier. Bare head. Tunic. Cloak is a sagum.

SCENE XXXIII  FIGURE 10
Classiarius. Bare head. Knotted tunic.

SCENE XXXIII  FIGURE 11
Standard bearer. Bare head.

SCENE XXXIII  FIGURE 12
Classiarius. Bare head.

SCENE XXXIII  FIGURE 13
Unarmoured soldier. Bare head. Tunic. Cloak is a paenula.

SCENE XXXIII  FIGURE 14
Standard bearer. Bare head.

SCENE XXXIII  FIGURE 15
Classiarius. Bare head. Knotted tunic.

SCENE XXXIII  FIGURE 16
Classiarius. Bare head.

SCENE XXXIII  FIGURE 17
Standard bearer. Bare head.

SCENE XXXIII  FIGURE 18
Classiarius. Bare head. Knotted tunic.

SCENE XXXIII  FIGURE 19
Unarmoured soldier. Bare head. Tunic. Cloak is a paenula.
SCENE XXXIII  FIGURE 20
Classiarius. Bare head. Knotted tunic.

SCENE XXXIII  FIGURE 21
Classiarius. Bare head. Knotted tunic.

SCENE XXXIII  FIGURE 22
Unarmoured soldier. Bare head. Tunic. Cloak is a sagum.

SCENE XXXIII  FIGURE 23
Classiarius. Bare head. Knotted tunic.

SCENE XXXIII  FIGURE 24
Trajan. Bare head. Tunic. Cloak is a paenula.

SCENE XXXIII  FIGURE 25
Unarmoured soldier. Bare head.

SCENE XXXIII  FIGURE 26
Classiarius. Bare head. Knotted tunic.

SCENE XXXIII  FIGURE 27
Unarmoured soldier. Bare head. Tunic. Cloak is a paenula.

SCENE XXXIII  FIGURE 28
Unarmoured soldier. Bare head. Cloak is a paenula.

SCENE XXXIII  FIGURE 29
Unarmoured soldier. Bare head. Tunic. Cloak is a paenula.

SCENE XXXIII  FIGURE 30
Unarmoured soldier. Bare head. Tunic. Rectangular shield with thunderbolts and wings blazon.

SCENE XXXIII  FIGURE 31
Unarmoured soldier. Bare head.

SCENE XXXIII  FIGURE 32
Unarmoured soldier. Bare head.

SCENE XXXIV  FIGURE 1
Classiarius. Bare head. Knotted tunic.

SCENE XXXIV  FIGURE 2
Classiarius. Bare head. Knotted tunic.

SCENE XXXIV  FIGURE 3
Classiarius. Bare head. Knotted tunic.

SCENE XXXIV  FIGURE 4
Classiarius. Bare head. Knotted tunic.

SCENE XXXIV  FIGURE 5
Trajan. Bare head. Tunic. Cloak is a sagum.
SCENE XXXIV  
Classiarius. Bare head. Knotted tunic.

SCENE XXXIV  
Classiarius. Bare head. Knotted tunic.

SCENE XXXIV  
Classiarius. Bare head. Knotted tunic.

SCENE XXXIV  
Classiarius. Bare head. Knotted tunic.

SCENE XXXIV  
Classiarius. Bare head. Knotted tunic.

SCENE XXXIV  
Classiarius. Bare head. Knotted tunic.

SCENE XXXIV  
Classiarius. Bare head. Knotted tunic.

SCENE XXXIV  
Classiarius. Bare head. Knotted tunic.

SCENE XXXIV  
Classiarius. Bare head. Knotted tunic.

SCENE XXXIV  
Classiarius. Bare head. Knotted tunic.

SCENE XXXIV  
Classiarius. Bare head. Knotted tunic.

SCENE XXXIV  
Classiarius. Bare head. Knotted tunic.

SCENE XXXIV  
Classiarius. Bare head. Knotted tunic.

SCENE XXXIV  
Classiarius. Bare head. Knotted tunic.

SCENE XXXIV  
Classiarius. Bare head. Knotted tunic.

SCENE XXXIV  
Classiarius. Bare head. Knotted tunic.

SCENE XXXV  
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Sword is absent. Cloak is a sagum. Tunic with tufts. Mail edging is zig-zag.
SCENE XXXV  FIGURE 2
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is surviving on the shaft. Cloak is a sagum. Mail edging is ragged, very small lappets, or fringed.

SCENE XXXV  FIGURE 3
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is present on cast. Baldric is absent. Sword is absent. Cloak is a sagum. Oval shield is unfinished. Mail edging is ragged, very small lappets, or fringed. Mistake in detail.

SCENE XXXV  FIGURE 4
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Sword is absent. Cloak is a sagum. Rectangular shield with thunderbolts and wings blazon. Mail edging is ragged, very small lappets, or fringed. Additional detail on baldric.

SCENE XXXV  FIGURE 5
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is present on cast. Baldric is absent. Sword is absent. Cloak is a sagum. Oval shield is unfinished. Mail edging is ragged, very small lappets, or fringed. Mistake in detail.

SCENE XXXV  FIGURE 6
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is a sagum. Oval shield rear view or obscured. Mail edging is ragged, very small lappets, or fringed.

SCENE XXXV  FIGURE 7
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE XXXV  FIGURE 8
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE XXXV  FIGURE 9
Officer. Bare head. Cloak is a sagum.

SCENE XXXV  FIGURE 10
Trajan. Bare head. Muscled cuirass. Cloak is a fringed sagum.

SCENE XXXV  FIGURE 11
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE XXXVI  FIGURE 1
Auxiliary cavalryman. Helmet type 20. Lorica hamata. Mail chiselling is present on cast. Baldric is absent. Sword is absent. Cloak is a sagum. Oval shield rear view or obscured. Horse harness is practical. Mail edging is zig-zag.

SCENE XXXVI  FIGURE 2
Auxiliary infantryman. Animal skin. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is absent. Oval shield with piles blazon. Mistake in figure type characteristics.

SCENE XXXVI  FIGURE 3
Auxiliary cavalryman. Helmet type 25. Lorica hamata. Mail chiselling is
absent. Cloak is a **sagum**. Oval shield rear view or obscured. Mail edging is zig-zag.

**SCENE XXXVI**  **FIGURE 4**
Auxiliary infantryman. Helmet type 28. **Lorica hamata**. Mail chiselling is absent. Cloak is absent. Mistake in detail.

**SCENE XXXVI**  **FIGURE 5**
Auxiliary infantryman. Animal skin. **Lorica hamata**. Mail chiselling is present on cast. Baldric is present. Sword is present. Cloak is absent. Oval shield with wreath blazon. Mail edging is zig-zag. Mistake in figure type characteristics.

**SCENE XXXVI**  **FIGURE 6**
Auxiliary infantryman. Animal skin. **Lorica hamata**. Mail chiselling is present on cast. Cloak is absent. Oval shield rear view or obscured. Mistake in figure type characteristics.

**SCENE XXXVI**  **FIGURE 7**
Auxiliary cavalryman. Helmet type 26. **Lorica hamata**. Mail chiselling is absent. Sword is present. Cloak is absent. Oval shield rear view or obscured. Horse harness is practical. Mail edging is zig-zag.

**SCENE XXXVI**  **FIGURE 8**
Auxiliary infantryman. Animal skin. **Lorica hamata**. Mail chiselling is absent. Baldwin is absent. Cloak is absent. Oval shield with pile blazon. Mail edging is zig-zag. Mistake in figure type characteristics.

**SCENE XXXVI**  **FIGURE 9**

**SCENE XXXVI**  **FIGURE 10**

**SCENE XXXVI**  **FIGURE 11**

**SCENE XXXVI**  **FIGURE 12**
Bare-chested irregular. Bare head. Bare torso. Baldric is present. Oval shield rear view or obscured.

**SCENE XXXVI**  **FIGURE 13**
Bare-chested irregular. Bare head. Bare torso. Baldric is present. Sword is present. Oval shield with Hellenistic method of carriage.

**SCENE XXXVI**  **FIGURE 14**
Bare-chested irregular. Bare head. Bare torso. Oval shield rear view or obscured.
SCENE XXXVI FIGURE 15
Auxiliary cavalryman. Helmet type 26. Lorica hamata. Mail chiselling is present on cast. Baldric is absent. Cloak is absent. Horse harness is practical.

SCENE XXXVI FIGURE 16
Bare-chested irregular. Bare head. Bare torso. Oval shield rear view or obscured.

SCENE XXXVI FIGURE 17

SCENE XXXVI FIGURE 18
Bare-chested irregular. Bare head. Bare torso.

SCENE XXXVI FIGURE 19
Bare-chested irregular. Bare head. Bare torso.

SCENE XXXVI FIGURE 20
Bare-chested irregular. Bare head. Bare torso. Oval shield rear view or obscured.

SCENE XXXVI FIGURE 21
Auxiliary cavalryman. Helmet type 26. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Sword is present. Cloak is a sagum. Oval shield rear view or obscured. Horse harness is impractical. Mail edging is plain (unfinished). Mistake in detail.

SCENE XXXVI FIGURE 22
Trajan. Bare head. Muscled cuirass. Cloak is a sagum. Horse harness is impractical.

SCENE XXXVII FIGURE 1

SCENE XXXVII FIGURE 2

SCENE XXXVII FIGURE 3
Auxiliary cavalryman. Helmet type 26. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Sword is present. Cloak is absent. Oval shield with small motifs. Horse harness is practical. Mail edging is zig-zag. Additional detail on scabbard (suspension details or decoration).

SCENE XXXVII FIGURE 4
Auxiliary cavalryman. Helmet type 26. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Sword is present. Cloak is absent. Oval shield with small motifs. Horse harness is practical. Mail edging
is zig-zag. Additional detail on scabbard (suspension details or decoration).

**SCENE XXXVII**  **FIGURE 5**
Auxiliary cavalryman. Helmet type 26. **Lorica hamata**. Mail chiselling is present on cast. Baldric is present. Sword is present. Cloak is absent. Oval shield with piles blazon. Horse harness is practical. Mail edging is zig-zag. Additional detail on scabbard (suspension details or decoration).

**SCENE XXXVII**  **FIGURE 6**
Auxiliary cavalryman. Helmet type 26. **Lorica hamata**. Mail chiselling is present on cast. Baldric is present. Sword is present. Cloak is absent. Horse harness is practical. Mail edging is zig-zag. Additional detail on scabbard (suspension details or decoration). Mistake in detail.

**SCENE XXXVII**  **FIGURE 7**
Auxiliary cavalryman. Helmet type 26. **Lorica hamata**. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is absent. Oval shield with Roman method of carriage. Horse harness is practical. Mail edging is zig-zag. Additional detail on scabbard (suspension details or decoration).

**SCENE XXXVII**  **FIGURE 8**
Auxiliary cavalryman. Helmet type 26. **Lorica hamata**. Mail chiselling is present on cast. Baldric is present. Sword is present. Cloak is absent. Oval shield rear view or obscured. Horse harness is practical. Mail edging is zig-zag. Additional detail on scabbard (suspension details or decoration).

**SCENE XXXVII**  **FIGURE 9**
Sarmatian. Helmet type 30. **Lorica squamata**.

**SCENE XXXVII**  **FIGURE 10**
Sarmatian. Helmet type 30. **Lorica squamata**.

**SCENE XXXVII**  **FIGURE 11**
Sarmatian. Helmet type 30. **Lorica squamata**.

**SCENE XXXVII**  **FIGURE 12**
Sarmatian. Helmet type 30. **Lorica squamata**.

**SCENE XXXVII**  **FIGURE 13**
Sarmatian. Helmet type 30. **Lorica squamata**.

**SCENE XXXVII**  **FIGURE 14**
Sarmatian. Helmet type 30. **Lorica squamata**.

**SCENE XXXVIII**  **FIGURE 1**
Bare-chested irregular. Bare head. Bare torso. Baldric is absent. Sword is absent. Oval shield rear view or obscured.

**SCENE XXXVIII**  **FIGURE 2**
Deity.
SCENE XXXVIII  FIGURE 3
Bare-chested irregular. Bare head. Bare torso. Baldric is absent. Sword is absent. Oval shield with Roman method of carriage.

SCENE XXXVIII  FIGURE 4
Auxiliary infantryman. Helmet type 23. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Cloak is absent. Oval shield rear view or obscured. Mail edging is zig-zag.

SCENE XXXVIII  FIGURE 5
Auxiliary infantryman. Helmet type 23. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Sword is present. Cloak is absent. Rectangular shield with wreath blazon. Mail edging is zig-zag. Mistake in figure type characteristics.

SCENE XXXVIII  FIGURE 6

SCENE XXXVIII  FIGURE 7
Dacian. Bare head. Tunic.

SCENE XXXVIII  FIGURE 8
Dacian. Bare head. Tunic.

SCENE XXXVIII  FIGURE 9

SCENE XXXVIII  FIGURE 10
Dacian. Bare head. Tunic.

SCENE XXXVIII  FIGURE 11

SCENE XXXVIII  FIGURE 12
Bare-chested irregular. Bare head. Bare torso. Baldric is absent. Sword is absent. Oval shield with wreath blazon. Mistake in detail.

SCENE XXXVIII  FIGURE 13

SCENE XXXVIII  FIGURE 14
Dacian. Bare head. Tunic.

SCENE XXXVIII  FIGURE 15

SCENE XXXVIII  FIGURE 16

SCENE XXXVIII  FIGURE 17
Auxiliary cavalryman. Helmet type 23. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is present. Cloak is absent. Oval shield with wreath blazon. Horse harness is practical. Mail edging is zig-zag.
SCENE XXXVIII  FIGURE 18
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE XXXVIII  FIGURE 19
Dacian. Bare head. Tunic.

SCENE XXXVIII  FIGURE 20

SCENE XXXVIII  FIGURE 21

SCENE XXXVIII  FIGURE 22

SCENE XXXVIII  FIGURE 23
Dacian. Bare head. Tunic. Cloak is absent.

SCENE XXXVIII  FIGURE 24

SCENE XXXVIII  FIGURE 25

SCENE XXXVIII  FIGURE 26

SCENE XXXIX  FIGURE 1
Dacian civilian. Bare head.

SCENE XXXIX  FIGURE 2
Dacian civilian. Bare head.

SCENE XXXIX  FIGURE 3
Dacian civilian. Bare head.

SCENE XXXIX  FIGURE 4
Dacian civilian. Bare head.

SCENE XXXIX  FIGURE 5
Dacian civilian. Bare head.

SCENE XXXIX  FIGURE 6
Dacian. Bare head. Tunic.

SCENE XXXIX  FIGURE 7
Dacian civilian. Bare head.
SCENE XXXIX  
Dacian civilian. Bare head.

SCENE XXXIX  
Dacian civilian. Bare head.

SCENE XXXIX  
Dacian civilian. Bare head.

SCENE XXXIX  
Dacian civilian. Bare head.

SCENE XXXIX  
Dacian civilian. Bare head.

SCENE XXXIX  

SCENE XXXIX  
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is absent. Baldric is absent. Sword is absent.

SCENE XXXIX  

SCENE XXXIX  
Citizen figure type. Bare head. 'Lorica segmentata' type 18. Cingulum is absent. Baldric is absent. Sword is absent.

SCENE XXXIX  

SCENE XXXIX  
Citizen figure type. Bare head. 'Lorica segmentata' type 3. Cingulum is absent. Baldric is absent. Sword is absent.

SCENE XXXIX  
Citizen figure type. Bare head. 'Lorica segmentata' type 3. Cingulum is absent. Apron is absent. Baldric is absent.

SCENE XXXIX  
Officer. Bare head. Muscled cuirass. Apron is absent. Cloak is a sagum.

SCENE XXXIX  
Trajan. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE XXXIX  
Officer. Bare head. Cloak is a sagum.

SCENE XXXIX  
Citizen figure type. Bare head. 'Lorica segmentata' type 3. Baldric is absent.

SCENE XXXIX  
Officer. Bare head. Muscled cuirass. Cloak is a sagum.
SCENE XXXIX

FIGURE 25
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is absent. Sword is absent.

SCENE XL

FIGURE 1
Citizen figure type. Helmet type 2. 'Lorica segmentata' type 4. Baldric is absent. Sword is absent.

FIGURE 2
Dacian. Bare head. Tunic.

FIGURE 3

FIGURE 4
Citizen figure type. Helmet type 2. 'Lorica segmentata'. Baldric is absent.

FIGURE 5
Auxiliary infantryman. Helmet type 2. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is absent. Mail edging is zig-zag.

FIGURE 6

FIGURE 7
Auxiliary infantryman. Helmet type 2. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is absent. Mail edging is zig-zag.

FIGURE 8
Citizen figure type. Helmet type 2. 'Lorica segmentata' type 5. Cingulum is absent. Baldric is absent. Sword is absent.

FIGURE 9
Dacian. Bare head. Tunic.

FIGURE 10
Citizen figure type. Helmet type 2. 'Lorica segmentata' type 5. Baldric is absent. Sword is absent. Rectangular shield with thunderbolts and wings blazon.

FIGURE 11
Citizen figure type. Helmet type 2. 'Lorica segmentata' type 5. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent. Rectangular shield with thunderbolts and wings blazon.

FIGURE 12
Citizen figure type. Helmet type 2. 'Lorica segmentata'. Cingulum is absent.

FIGURE 13
Citizen figure type. Bare head. 'Lorica segmentata' type 5. Cingulum is
absent. Apron is absent. Baldric is absent. Sword is absent.

SCENE XL FIGURE 14
Citizen figure type. Helmet type 2. 'Lorica segmentata'. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE XL FIGURE 15
Citizen figure type. Helmet type 17. 'Lorica segmentata'. Rectangular shield with thunderbolts and wings blazon.

SCENE XL FIGURE 16
Auxiliary infantryman. Helmet type 2. Lorica hamata. Mail chiselling is absent. Baldric is present. Cloak is absent. Mail edging is zig-zag.

SCENE XL FIGURE 17
Citizen figure type. Helmet type 2. 'Lorica segmentata'. Sword is absent.

SCENE XL FIGURE 18
Citizen figure type. Helmet type 2. 'Lorica segmentata'. Rectangular shield with thunderbolts and wings blazon.

SCENE XL FIGURE 19
Citizen figure type. Helmet type 2. 'Lorica segmentata'. Cingulum is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE XL FIGURE 20
Auxiliary infantryman. Helmet type 25. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is absent. Mail edging is ragged, very small lappets, or fringed. Mistake in detail.

SCENE XL FIGURE 21
Citizen figure type. Helmet type 2. 'Lorica segmentata'. Rectangular shield with thunderbolts and wings blazon.

SCENE XL FIGURE 22
Standard bearer. Animal skin. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present.

SCENE XL FIGURE 23
Auxiliary infantryman. Helmet type 25. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is absent. Tunic with tufts.

SCENE XL FIGURE 24
Standard bearer. Animal skin. Lorica hamata. Mail chiselling is absent. Baldric is present. Cloak is absent.

SCENE XL FIGURE 25
Standard bearer. Animal skin. Lorica hamata. Mail chiselling is absent. Baldric is present. Cloak is absent.

SCENE XL FIGURE 26
Musician. Animal skin. Lorica hamata. Mail chiselling is absent. Baldric is absent. Sword is absent. Cloak is absent.
SCENE XL FIGURE 27

SCENE XL FIGURE 28
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE XL FIGURE 29
Musician. Animal skin. Lorica hamata. Mail chiselling is absent. Baldric is absent. Cloak is absent.

SCENE XL FIGURE 30
Trajan. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE XL FIGURE 31
Citizen figure type. Helmet type 1. 'Lorica segmentata'. Cingulum is absent. Apron is absent. Baldric is present. Sword is present.

SCENE XL FIGURE 32
Citizen figure type. Helmet type 1. 'Lorica segmentata'.

SCENE XL FIGURE 33
Dacian. Bare head. Tunic.

SCENE XL FIGURE 34
Citizen figure type. Helmet type 2. 'Lorica segmentata'. Baldric is absent.

SCENE XL FIGURE 35

SCENE XL FIGURE 36
Citizen figure type. Helmet type 1. 'Lorica segmentata' type 5. Baldric is absent. Sword is present. Rectangular shield with thunderbolts and wings blazon.

SCENE XL FIGURE 37
Citizen figure type. Helmet type 22. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is present. Sword is present.

SCENE XL FIGURE 38

SCENE XL FIGURE 39
Citizen figure type. Helmet type 33. 'Lorica segmentata'. Cingulum is present. Baldric is present. Sword is present. Rectangular shield rear view or obscured.

SCENE XL FIGURE 40
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE XL FIGURE 41
SCENE XL  FIGURE 42
Dacian. Bare head. Tunic. Cloak is absent.

SCENE XL  FIGURE 43
Citizen figure type. Helmet type 31. 'Lorica segmentata'. Cingulum is present. Baldric is present. Sword is present. Rectangular shield with thunderbolts and wings blazon.

SCENE XL  FIGURE 44
Dacian. Bare head. Tunic.

SCENE XL  FIGURE 45
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE XL  FIGURE 46
Auxiliary infantryman. Helmet type 20. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Sword is present. Cloak is absent. Oval shield rear view or obscured. Mail edging is zig-zag.

SCENE XL  FIGURE 47

SCENE XL  FIGURE 48
Dacian. Bare head. Tunic.

SCENE XL  FIGURE 49
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE XL  FIGURE 50

SCENE XL  FIGURE 51
Auxiliary infantryman. Helmet type 33. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is present. Cloak is absent. Oval shield with wreath blazon. Mail edging is zig-zag.

SCENE XL  FIGURE 52

SCENE XL  FIGURE 53
Dacian. Bare head. Tunic.

SCENE XL  FIGURE 54

SCENE XL  FIGURE 55
Bare-chested irregular. Bare head. Bare torso. Baldric is present. Sword is present. Oval shield with piles blazon.

SCENE XL  FIGURE 56
Dacian. Bare head. Tunic.

SCENE XL  FIGURE 57
SCENE XL  
FIGURE 58  

SCENE XL  
FIGURE 59  
Citizen figure type. Helmet type 33. *Lorica segmentata*. Baldric is present. Sword is present. Rectangular shield with thunderbolts and wings blazon.

SCENE XL  
FIGURE 60  

SCENE XL  
FIGURE 61  
Bare-chested irregular. Bare head. Bare torso. Baldric is absent. Sword is present. Oval shield with piles blazon.

SCENE XL  
FIGURE 62  

SCENE XL  
FIGURE 63  

SCENE XL  
FIGURE 64  
Dacian. Bare head. Tunic.

SCENE XL  
FIGURE 65  

SCENE XL  
FIGURE 66  

SCENE XL  
FIGURE 67  
Dacian. Bare head. Tunic.

SCENE XL  
FIGURE 68  

SCENE XL  
FIGURE 69  

SCENE XL  
FIGURE 70  
Dacian. Bare head. Tunic.

SCENE XL  
FIGURE 71  

SCENE XL  
FIGURE 72  
SCENE XLI

SCENE XLI

SCENE XLI
Dacian. Bare head. Tunic. Cloak is a fringed sagum.

SCENE XLI

SCENE XLI

SCENE XLI
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE XLI
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE XLI
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE XLI
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE XLI
Dacian. Bare head. Tunic.

SCENE XLI

SCENE XLII
Auxiliary cavalryman. Helmet type 20. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is absent. Oval shield with wreath blazon. Mail edging is ragged, very small lappets, or fringed. Additional detail on mail.

SCENE XLII

SCENE XLII
Auxiliary cavalryman. Helmet type 25. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is a sagum. Oval shield with wreath blazon. Mail edging is ragged, very small lappets, or fringed.

SCENE XLII
Auxiliary cavalryman. Nodus hairstyle. Lorica hamata. Mail chiselling is absent. Cloak is a sagum.

SCENE XLII
Auxiliary infantryman. Helmet type 33. Lorica hamata. Mail chiselling
is absent. Cloak is absent.

**SCENE XLII**  **FIGURE 6**
Officer. Bare head. Muscled cuirass. Cloak is a *sagum*.

**SCENE XLII**  **FIGURE 7**

**SCENE XLII**  **FIGURE 8**
Trajan. Bare head. Muscled cuirass. Cloak is a *sagum*.

**SCENE XLII**  **FIGURE 9**
Auxiliary infantryman. Helmet type 33. *Lorica hamata*. Mail chiselling is absent. Baldric is absent. Cloak is absent.

**SCENE XLII**  **FIGURE 10**
Bare-chested irregular. Bare head. Bare torso. Baldric is absent. Sword is absent. Oval shield with Roman blazon.

**SCENE XLII**  **FIGURE 11**
Officer. Bare head. Muscled cuirass. Cloak is a *sagum*.

**SCENE XLII**  **FIGURE 12**

**SCENE XLII**  **FIGURE 13**

**SCENE XLII**  **FIGURE 14**
Citizen figure type. Helmet type 26. "Lorica segmentata".

**SCENE XLII**  **FIGURE 15**

**SCENE XLII**  **FIGURE 16**
Bare-chested irregular. Bare head. Bare torso. Oval shield with pile blazon.

**SCENE XLII**  **FIGURE 17**
Citizen figure type. "Lorica segmentata". Baldric is absent. Sword is absent. Rectangular shield with thunderbolts and wings blazon.

**SCENE XLII**  **FIGURE 18**

**SCENE XLII**  **FIGURE 19**
SCENE XLII  FIGURE 20

SCENE XLII  FIGURE 21
Auxiliary infantryman. *Lorica hamata*. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is absent. Oval shield with wreath blazon. Mail edging is ragged, very small lappets, or fringed.

SCENE XLII  FIGURE 22
Citizen figure type. *Lorica segmentata*. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE XLII  FIGURE 23
Auxiliary infantryman. *Lorica hamata*. Mail chiselling is absent. Baldric is present. Cloak is absent. Tunic is fringed. Mail edging is ragged, very small lappets, or fringed.

SCENE XLIII  FIGURE 1

SCENE XLIII  FIGURE 2
Citizen figure type. *Lorica segmentata* type 5. Baldric is absent. Sword is present. Rectangular shield with thunderbolts and wings blazon.

SCENE XLIII  FIGURE 3
Auxiliary infantryman. Helmet type 25. *Lorica hamata*. Mail chiselling is absent. Baldric is absent. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE XLIII  FIGURE 4
Dacian. Bare head. Tunic. Cloak is a fringed *sagum*.

SCENE XLIII  FIGURE 5

SCENE XLIII  FIGURE 6
Dacian. Bare head. Tunic.

SCENE XLIII  FIGURE 7

SCENE XLIII  FIGURE 8
Dacian. Bare head. Tunic.

SCENE XLIII  FIGURE 9

SCENE XLIII  FIGURE 10
Dacian. *Pilleus*. Tunic. Cloak is a fringed *sagum*.

SCENE XLIII  FIGURE 11
SCENE XLIII  FIGURE 12
Dacian. Bare head. Tunic.

SCENE XLIV  FIGURE 1
Auxiliary infantryman. Bare head. *Lorica hamata*. Mail chiselling is present on cast. Baldric is absent. Sword is absent. Cloak is a *sagum*. Mail edging is shallow and rounded lappets.

SCENE XLIV  FIGURE 2
Auxiliary infantryman. Bare head. *Lorica hamata*. Mail chiselling is present on cast. Cloak is a *sagum*. Mail edging is shallow and rounded lappets.

SCENE XLIV  FIGURE 3
Auxiliary infantryman. Bare head. *Lorica hamata*. Mail chiselling is absent. Cloak is absent. Mail edging is zig-zag.

SCENE XLIV  FIGURE 4
Auxiliary infantryman. Bare head. *Lorica hamata*. Mail chiselling is present on cast. Cloak is a *sagum*. Tunic with tufts. Mail edging is zig-zag.

SCENE XLIV  FIGURE 5
Officer. Bare head. Tunic. Mail chiselling is present on cast. Cloak is a *sagum*. Mail edging is ragged, very small lappets, or fringed.

SCENE XLIV  FIGURE 6
Auxiliary infantryman. Bare head. *Lorica hamata*. Mail chiselling is absent. Baldric is absent. Sword is absent. Cloak is a *sagum*. Mail edging is shallow and rounded lappets.

SCENE XLIV  FIGURE 7
Auxiliary infantryman. Bare head. *Lorica hamata*. Mail chiselling is absent. Baldric is absent. Sword is absent. Cloak is a *sagum*.

SCENE XLIV  FIGURE 8
Officer. Bare head. Muscled cuirass. Cloak is a *sagum*.

SCENE XLIV  FIGURE 9
Trajan. Bare head. Muscled cuirass. Cloak is a *sagum*.

SCENE XLIV  FIGURE 10
Auxiliary infantryman. Bare head. *Lorica hamata*. Mail chiselling is absent. Cloak is a fringed *sagum*. Tunic with tufts. Mail edging is zig-zag.

SCENE XLIV  FIGURE 11
Auxiliary infantryman. Bare head. *Lorica hamata*. Mail chiselling is absent. Cloak is a *sagum*.

SCENE XLIV  FIGURE 12
Officer. Bare head. Muscled cuirass. Cloak is a *sagum*.

SCENE XLIV  FIGURE 13
Auxiliary infantryman. Bare head. *Lorica hamata*. Mail chiselling is
absent. Cloak is a fringed *sagum*. Tunic with tufts.

**SCENE XLV**  
**FIGURE 1**  
Dacian. Bare head. Bare torso.

**SCENE XLV**  
**FIGURE 2**  
Roman civilian. Bare head.

**SCENE XLV**  
**FIGURE 3**  
Roman civilian. Bare head.

**SCENE XLV**  
**FIGURE 4**  
Roman civilian. Bare head.

**SCENE XLV**  
**FIGURE 5**  
Dacian. Bare head. Bare torso.

**SCENE XLV**  
**FIGURE 6**  
Dacian. Bare head. Bare torso.

**SCENE XLV**  
**FIGURE 7**  
Roman civilian. Bare head.

**SCENE XLV**  
**FIGURE 8**  
Roman civilian. Bare head.

**SCENE XLVI**  
**FIGURE 1**  

**SCENE XLVI**  
**FIGURE 2**  
Auxiliary infantryman. Helmet type 25. *Lorica hamata*. Mail chiselling is absent. Baldric is present. Sword is absent. Cloak is a *sagum*. Tunic with tufts. Mail edging is shallow and rounded lappets.

**SCENE XLVI**  
**FIGURE 3**  
Dacian. Bare head. Tunic.

**SCENE XLVI**  
**FIGURE 4**  
Dacian. Bare head. Tunic.

**SCENE XLVI**  
**FIGURE 5**  
Dacian. Bare head. Tunic. Cloak is a *sagum*.

**SCENE XLVI**  
**FIGURE 6**  
Officer. Bare head. Tunic. Cloak is a *sagum*.

**SCENE XLVI**  
**FIGURE 7**  
Trajan. Bare head. Tunic. Cloak is a *paenula*.

**SCENE XLVI**  
**FIGURE 8**  
Officer. Bare head. Cloak is a *sagum*.

**SCENE XLVI**  
**FIGURE 9**  
Officer. Bare head. Muscled cuirass. Cloak is a *sagum*. 
SCENE XLVII  FIGURE 1
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is a sagum.

SCENE XLVII  FIGURE 2
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is a sagum.

SCENE XLVII  FIGURE 3
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Baldric is absent. Sword is absent. Cloak is a sagum. Mail edging is zig-zag.

SCENE XLVII  FIGURE 4
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Baldric is absent. Sword is absent. Cloak is a sagum. Tunic with tufts. Mail edging is zig-zag.

SCENE XLVIII  FIGURE 1
Citizen figure type. Bare head. 'Lorica segmentata'.

SCENE XLVIII  FIGURE 2
Citizen figure type. Helmet type 32. 'Lorica segmentata'. Cingulum is present. Apron is present. Rectangular shield with thunderbolts and wings blazon. Additional detail on baldric.

SCENE XLVIII  FIGURE 3
Citizen figure type. Bare head.

SCENE XLVIII  FIGURE 4
Citizen figure type. Bare head.

SCENE XLVIII  FIGURE 5
Citizen figure type. Bare head.

SCENE XLVIII  FIGURE 6
Citizen figure type. Bare head. 'Lorica segmentata'. Apron is present. Baldric is present. Sword is present. Additional detail on baldric.

SCENE XLVIII  FIGURE 7
Unidentifiable figure. Bare head.

SCENE XLVIII  FIGURE 8
Standard bearer. Animal skin. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is absent. Mail edging is zig-zag. Additional detail on baldric.

SCENE XLVIII  FIGURE 9
Standard bearer. Animal skin. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is absent. Mail edging is zig-zag. Additional detail on baldric.

SCENE XLVIII  FIGURE 10
Citizen figure type. Bare head. 'Lorica segmentata'.
SCENE XLVIII  FIGURE 11
Sword is present. Cloak is absent. Mail edging is zig-zag. Additional
detail on baldric.

SCENE XLVIII  FIGURE 12
Citizen figure type. Bare head.

SCENE XLVIII  FIGURE 13
Standard bearer. Bare head. Lorica hamata. Mail chiselling is absent.
Cloak is a sagum. Mail edging is zig-zag.

SCENE XLVIII  FIGURE 14
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE XLVIII  FIGURE 15
Citizen figure type. Bare head. 'Lorica segmentata'. Rectangular shield
with thunderbolts and wings blazon.

SCENE XLVIII  FIGURE 16
Citizen figure type. Bare head. 'Lorica segmentata'.

SCENE XLVIII  FIGURE 17
Baldric is absent. Cloak is absent. Mail edging is zig-zag.

SCENE XLIX  FIGURE 1
Citizen figure type. Bare head. 'Lorica segmentata'.

SCENE XLIX  FIGURE 2
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is
absent. Baldric is present. Sword is present. Cloak is a sagum. Oval
shield with Hellenistic method of carriage. Mail edging is zig-zag.
Mistake in detail.

SCENE XLIX  FIGURE 3
Citizen figure type. Bare head. 'Lorica segmentata'.

SCENE XLIX  FIGURE 4
Citizen figure type. Bare head. 'Lorica segmentata' type 5.

SCENE XLIX  FIGURE 5
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is
present. Rectangular shield with thunderbolts and wings blazon. Mistake
in detail.

SCENE XLIX  FIGURE 6
Citizen figure type. Bare head. 'Lorica segmentata' type 17. Baldric is
absent.

SCENE XLIX  FIGURE 7
Citizen figure type. Helmet type 32. 'Lorica segmentata' type 18.
Baldric is absent. Rectangular shield with thunderbolts and wings
blazon.
SCENE XLIX  FIGURE 8
Citizen figure type. Bare head. *Lorica segmentata* type 5. Baldric is absent.

SCENE XLIX  FIGURE 9
Auxiliary cavalryman. Bare head. *Lorica hamata*. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is a *sagum*. Oval shield rear view or obscured. Horse harness is practical. Tunic is fringed. Mail edging is zig-zag.

SCENE XLIX  FIGURE 10
Citizen figure type. Bare head. *Lorica segmentata* type 5. Baldric is absent.

SCENE XLIX  FIGURE 11
Citizen figure type. Bare head. *Lorica segmentata*.

SCENE XLIX  FIGURE 12
Citizen figure type. Bare head. *Lorica segmentata* type 18. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE XLIX  FIGURE 13
Auxiliary cavalryman. Bare head. *Lorica hamata*. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is a *sagum*. Oval shield with Hellenistic method of carriage. Tunic is fringed. Mail edging is zig-zag.

SCENE XLIX  FIGURE 14
Citizen figure type. Bare head. *Lorica segmentata* type 18.

SCENE XLIX  FIGURE 15

SCENE XLIX  FIGURE 16
Citizen figure type. Bare head. *Lorica segmentata*.

SCENE XLIX  FIGURE 17
Citizen figure type. Bare head. *Lorica segmentata*.

SCENE XLIX  FIGURE 18
Citizen figure type. Bare head. *Lorica segmentata*.

SCENE XLIX  FIGURE 19
Citizen figure type. Bare head. *Lorica segmentata*. Baldric is absent. Rectangular shield rear view or obscured.

SCENE XLIX  FIGURE 20
Citizen figure type. Bare head. *Lorica segmentata*. Baldric is absent. Rectangular shield rear view or obscured.

SCENE XLIX  FIGURE 21

SCENE XLIX  FIGURE 22
Auxiliary cavalryman. Bare head. *Lorica hamata*. Mail chiselling is
absent. Cloak is a sagum. Oval shield rear view or obscured. Horse harness is practical.

**SCENE XLIX**

**FIGURE 23**
Citizen figure type. Bare head. *'Lorica segmentata'* Baldric is absent.

**SCENE XLIX**
**FIGURE 24**
Citizen figure type. Bare head. *'Lorica segmentata'*.

**SCENE XLIX**
**FIGURE 25**
Citizen figure type. Bare head. *'Lorica segmentata'*.

**SCENE XLIX**
**FIGURE 26**
Citizen figure type. Bare head. *'Lorica segmentata'* Baldric is absent.

**SCENE XLIX**
**FIGURE 27**
Citizen figure type. Bare head. *'Lorica segmentata'*.

**SCENE XLIX**
**FIGURE 28**
Citizen figure type. Bare head. *'Lorica segmentata'* Baldric is absent. Sword is present.

**SCENE XLIX**
**FIGURE 29**
Citizen figure type. Bare head. *'Lorica segmentata'*.

**SCENE XLIX**
**FIGURE 30**
Citizen figure type. Bare head. *'Lorica segmentata'* Baldric is absent.

**SCENE XLIX**
**FIGURE 31**
Citizen figure type. Bare head. *'Lorica segmentata'* Baldric is present.

**SCENE L**
**FIGURE 1**
Citizen figure type. Animal skin. Mistake in figure type characteristics.

**SCENE L**
**FIGURE 2**
Citizen figure type. Animal skin. *'Lorica segmentata'* Mistake in figure type characteristics.

**SCENE L**
**FIGURE 3**
Citizen figure type. Bare head. *'Lorica segmentata'* Cingulum is absent. Apron is absent. Baldric is present.

**SCENE L**
**FIGURE 4**
Citizen figure type. Animal skin. *'Lorica segmentata'* Baldric is present. Mistake in figure type characteristics.

**SCENE L**
**FIGURE 5**
Citizen figure type. Bare head. *'Lorica segmentata'* Cingulum is absent. Baldric is present. Rectangular shield rear view or obscured. Mistake in detail.

**SCENE L**
**FIGURE 6**
Citizen figure type. Bare head. *'Lorica segmentata'* Cingulum is present. Apron is present. Baldric is absent. Rectangular shield rear
view or obscured.

SCENE L  **FIGURE 7**
Officer. Bare head. Muscled cuirass. Cloak is a fringed *sagum*.

SCENE L  **FIGURE 8**
Trajan. Bare head. Muscled cuirass. Cloak is a fringed *sagum*.
Additional detail on mail. Mistake in detail.

SCENE L  **FIGURE 9**
Officer. Bare head. Muscled cuirass. Mail chiselling is absent. Cloak is a fringed *sagum*.

SCENE LI  **FIGURE 1**
Auxiliary infantryman. Bare head.

SCENE LI  **FIGURE 2**
Citizen figure type. Bare head.

SCENE LI  **FIGURE 3**
Auxiliary infantryman. Bare head.

SCENE LI  **FIGURE 4**
Auxiliary infantryman. Bare head.

SCENE LI  **FIGURE 5**
Auxiliary infantryman. Bare head.

SCENE LI  **FIGURE 6**
Citizen figure type. Bare head.

SCENE LI  **FIGURE 7**
Standard bearer. Bare head.

SCENE LI  **FIGURE 8**
Auxiliary infantryman. Bare head. *Lorica hamata*. Mail chiselling is absent. Cloak is a *sagum*. Oval shield rear view or obscured.

SCENE LI  **FIGURE 9**
Auxiliary infantryman. Bare head. Cloak is a *sagum*.

SCENE LI  **FIGURE 10**

SCENE LI  **FIGURE 11**
Auxiliary infantryman. Bare head. Oval shield rear view or obscured.

SCENE LI  **FIGURE 12**

SCENE LI  **FIGURE 13**
Trajan. Bare head. Cloak is a fringed *sagum*.

SCENE LI  **FIGURE 14**
Auxiliary infantryman. Bare head. *Lorica hamata*. Mail chiselling is absent. Sword is absent. Cloak is a *sagum*. Mail edging is shallow and
rounded lappets.

SCENE LI  FIGURE 15
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Baldric is absent. Sword is absent. Cloak is a sagum. Mail edging is ragged, very small lappets, or fringed.

SCENE LI  FIGURE 16
Standard bearer. Animal skin. Lorica hamata. Mail chiselling is absent. Cloak is a fringed sagum.

SCENE LI  FIGURE 17
Auxiliary infantryman. Bare head. Over-tunic. Baldric is absent. Sword is absent. Cloak is a fringed sagum. Mail edging is ragged, very small lappets, or fringed. Cingulum present when unnecessary. Mistake in detail.

SCENE LI  FIGURE 18

SCENE LI  FIGURE 19
Standard bearer. Animal skin. Lorica hamata. Mail chiselling is absent. Cloak is a sagum.

SCENE LI  FIGURE 20
Citizen figure type. Bare head. Lorica segmentata.

SCENE LI  FIGURE 21
Citizen figure type. Bare head.

SCENE LI  FIGURE 22
Citizen figure type. Bare head. Lorica segmentata.

SCENE LI  FIGURE 23
Citizen figure type. Bare head. Lorica segmentata. Rectangular shield rear view or obscured.

SCENE LI  FIGURE 24
Citizen figure type. Bare head. Lorica segmentata. Rectangular shield rear view or obscured.

SCENE LI  FIGURE 25
Citizen figure type. Bare head. Lorica segmentata.

SCENE LI  FIGURE 26
Citizen figure type. Bare head. Lorica segmentata type 14. Cingulum is present. Apron is present. Baldric is present. Sword is present. Rectangular shield with thunderbolts and wings blazon.

SCENE LI  FIGURE 27
Citizen figure type. Bare head. Lorica segmentata type 14. Cingulum is present. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE LI  FIGURE 28
Citizen figure type. Bare head. Lorica segmentata.
SCENE LI  
FIGURE 29
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is absent. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE LII  
FIGURE 1
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is absent.

SCENE LII  
FIGURE 2
Citizen figure type. Bare head. 'Lorica segmentata' type 14. Cingulum is absent. Baldric is absent. Sword is absent.

SCENE LII  
FIGURE 3
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is present. Sword is present.

SCENE LII  
FIGURE 4
Citizen figure type. Bare head. 'Lorica segmentata' type 14. Cingulum is present. Baldric is absent. Sword is absent.

SCENE LII  
FIGURE 5
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is present. Sword is present.

SCENE LII  
FIGURE 6
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Baldric is present. Sword is present. Additional detail on scabbard (suspension details or decoration).

SCENE LII  
FIGURE 7
Citizen figure type. Bare head. 'Lorica segmentata' type 14. Cingulum is present. Apron is present. Baldric is present. Sword is present.

SCENE LII  
FIGURE 8
Officer. Bare head. Muscled cuirass. Cloak is a fringed sagum.

SCENE LII  
FIGURE 9
Trajan. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE LII  
FIGURE 10
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE LII  
FIGURE 11
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is absent.

SCENE LII  
FIGURE 12
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is absent. Apron is present. Baldric is present. Sword is present.

SCENE LII  
FIGURE 13
Dacian. Bare head. Tunic.

SCENE LII  
FIGURE 14
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is present. Sword is present.
SCENE LII

FIGURE 15
Dacian. Bare head.

FIGURE 16
Dacian. Bare head. Tunic.

FIGURE 17
Citizen figure type. Bare head.

FIGURE 18
Dacian. Bare head.

FIGURE 19
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is absent. Apron is present. Baldric is present. Sword is present.

SCENE LIII

FIGURE 1
Unarmoured soldier. Bare head. Tunic. Cloak is absent.

FIGURE 2
Unarmoured soldier. Bare head. Tunic. Cloak is absent.

FIGURE 3
Unarmoured soldier. Bare head. Tunic. Cloak is absent.

FIGURE 4
Unarmoured soldier. Laureate head. Tunic. Cloak is absent.

FIGURE 5
Unarmoured soldier. Laureate head. Tunic. Cloak is absent.

FIGURE 6
Sacrificial attendant. Laureate head. Bare torso.

FIGURE 7
Unarmoured soldier. Laureate head. Tunic. Cloak is absent.

FIGURE 8
Unarmoured soldier. Laureate head. Tunic. Cloak is absent.

FIGURE 9
Sacrificial attendant. Laureate head. Bare torso.

FIGURE 10
Sacrificial attendant. Laureate head. Bare torso.

FIGURE 11
Officer. Laureate head. Tunic. Cloak is a sagum.

FIGURE 12
Sacrificial attendant. Laureate head. Bare torso.

FIGURE 13
Trajan. Veiled head. Toga.
SCENE LIII

FIGURE 14
Sacrificial attendant. Bare head. Tunic.

FIGURE 15
Sacrificial attendant. Bare head. Tunic.

FIGURE 16

FIGURE 17
Sacrificial attendant. Laureate head. Bare torso.

FIGURE 18
Sacrificial attendant. Bare head. Tunic.

FIGURE 19
Standard bearer. Animal skin. Lorica hamata. Mail chiselling is surviving on the shaft. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

FIGURE 20
Sacrificial attendant. Laureate head. Knotted tunic. Cloak is absent.

FIGURE 21
Standard bearer. Animal skin. Lorica hamata. Mail chiselling is surviving on the shaft. Cloak is absent. Mail edging is ragged, very small lappets, or fringed. Additional detail on mail.

FIGURE 22
Unarmoured soldier. Laureate head. Cloak is a sagum.

FIGURE 23
Musician. Laureate head. Tunic. Cloak is a fringed sagum.

FIGURE 24
Standard bearer. Animal skin. Lorica hamata. Mail chiselling is surviving on the shaft. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

FIGURE 25
Unarmoured soldier. Laureate head. Cloak is a sagum.

FIGURE 26
Unarmoured soldier. Laureate head. Tunic. Cloak is a fringed sagum.

FIGURE 27

FIGURE 28
Unarmoured soldier. Laureate head. Cloak is a sagum.

FIGURE 29
Unarmoured soldier. Laureate head. Tunic. Cloak is a fringed sagum.
SCENE LIII  FIGURE 30
Unarmoured soldier. Bare head.

SCENE LIII  FIGURE 31
Unarmoured soldier. Bare head.

SCENE LIII  FIGURE 32
Unarmoured soldier. Laureate head. Cloak is absent.

SCENE LIII  FIGURE 33
Unarmoured soldier. Bare head.

SCENE LIII  FIGURE 34
Unarmoured soldier. Bare head.

SCENE LIII  FIGURE 35
Unarmoured soldier. Bare head.

SCENE LIII  FIGURE 36
Unarmoured soldier. Bare head.

SCENE LIII  FIGURE 37
Unarmoured soldier. Bare head. Tunic. Cloak is absent.

SCENE LIII  FIGURE 38
Unarmoured soldier. Bare head.

SCENE LIII  FIGURE 39
Unarmoured soldier. Bare head.

SCENE LIII  FIGURE 40
Unarmoured soldier. Bare head. Tunic. Cloak is absent.

SCENE LIII  FIGURE 41
Unarmoured soldier. Bare head.

SCENE LIII  FIGURE 42
Unarmoured soldier. Bare head. Tunic. Cloak is absent.

SCENE LIV  FIGURE 1
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is surviving on the shaft. Sword is absent. Cloak is absent. Tunic is fringed. Mail edging is ragged, very small lappets, or fringed.

SCENE LIV  FIGURE 2
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE LIV  FIGURE 3
Auxiliary infantryman. Helmet type 33. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is absent. Sword is absent. Cloak is absent. Oval shield rear view or obscured. Tunic is fringed. Mail edging is ragged, very small lappets, or fringed.

SCENE LIV  FIGURE 4
Officer. Bare head. Cloak is a sagum.
SCENE LIV FIGURE 5
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is absent. Cloak is absent.

SCENE LIV FIGURE 6
Trajan. Bare head. Muscled cuirass. Baldric is absent. Cloak is a sagum.

SCENE LIV FIGURE 7
Auxiliary infantryman. Helmet type 33. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is absent. Sword is absent. Cloak is absent. Oval shield with Roman method of carriage. Tunic is fringed. Mail edging is ragged, very small lappets, or fringed. Additional detail on mail.

SCENE LIV FIGURE 8
Citizen figure type. Helmet type 4. 'Lorica segmentata'.

SCENE LIV FIGURE 9
Standard bearer. Animal skin. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is absent. Sword is absent. Cloak is absent. Cingulum present when unnecessary.

SCENE LIV FIGURE 10
Citizen figure type. Helmet type 4. 'Lorica segmentata'.

SCENE LIV FIGURE 11
Citizen figure type. Helmet type 4. 'Lorica segmentata'.

SCENE LIV FIGURE 12
Citizen figure type. Helmet type 4. 'Lorica segmentata'.

SCENE LIV FIGURE 13
Standard bearer. Animal skin. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is absent. Sword is absent. Cloak is absent.

SCENE LIV FIGURE 14
Auxiliary infantryman. Helmet type 33. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is absent. Sword is absent. Cloak is absent. Oval shield with Hellenistic method of carriage. Tunic is fringed. Mail edging is ragged, very small lappets, or fringed. Additional detail on mail.

SCENE LIV FIGURE 15
Citizen figure type. Helmet type 4. 'Lorica segmentata'. Baldric is absent.

SCENE LIV FIGURE 16
Citizen figure type. Helmet type 4. 'Lorica segmentata'. Baldric is absent.

SCENE LIV FIGURE 17
SCENE LIV  
**FIGURE 18**

SCENE LIV  
**FIGURE 19**

SCENE LIV  
**FIGURE 20**
Auxiliary infantryman. Helmet type 33. *Lorica hamata*. Mail chiselling is surviving on the shaft. Baldric is absent. Sword is absent. Cloak is absent. Oval shield with tendrils blazon. Tunic is fringed. Mail edging is ragged, very small lappets, or fringed.

SCENE LIV  
**FIGURE 21**

SCENE LIV  
**FIGURE 22**

SCENE LIV  
**FIGURE 23**

SCENE LV  
**FIGURE 1**
Citizen figure type. Bare head. *Lorica segmentata*. Cingulum is absent. Baldric is absent. Sword is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE LV  
**FIGURE 2**
Citizen figure type. Bare head. *Lorica segmentata*. Cingulum is absent. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE LV  
**FIGURE 3**
Citizen figure type. Bare head. *Lorica segmentata*. Cingulum is absent. Baldric is absent. Sword is absent. Rectangular shield rear view or obscured.

SCENE LV  
**FIGURE 4**
Citizen figure type. Bare head. *Lorica segmentata*. Rectangular shield with thunderbolts and wings blazon.

SCENE LV  
**FIGURE 5**
Citizen figure type. Bare head. *Lorica segmentata*. Rectangular shield with thunderbolts and wings blazon.

SCENE LV  
**FIGURE 6**
Citizen figure type. Bare head. *Lorica segmentata*. Cingulum is absent. Baldric is absent.
SCENE LV
FIGURE 7
Citizen figure type. Bare head. 'Lorica segmentata'.

SCENE LV
FIGURE 8
Citizen figure type. Bare head. 'Lorica segmentatal type 10. Cingulum is absent. Baldric is absent. Rectangular shield with wreath blazon.

SCENE LV
FIGURE 9
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is absent. Additional detail on 'lorica segmentata'.

SCENE LV
FIGURE 10
Citizen figure type. Bare head. 'Lorica segmentata' type 10. Cingulum is absent. Apron is absent. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE LV
FIGURE 11
Citizen figure type. Bare head. 'Lorica segmentatal type 10. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE LVI
FIGURE 1
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is absent. Baldric is absent. Sword is absent.

SCENE LVI
FIGURE 2
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is absent. Baldric is absent. Sword is absent.

SCENE LVI
FIGURE 3
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent.

SCENE LVI
FIGURE 4
Citizen figure type. Bare head. 'Lorica segmentata' type 18. Baldric is present.

SCENE LVI
FIGURE 5
Citizen figure type. Bare head. 'Lorica segmentata' type 18. Cingulum is absent. Apron is absent. Baldric is present. Sword is absent.

SCENE LVI
FIGURE 6
Citizen figure type. Bare head. 'Lorica segmentata' type 18. Cingulum is absent. Apron is absent. Baldric is absent.

SCENE LVI
FIGURE 7
Citizen figure type. Bare head. 'Lorica segmentata' type 18. Cingulum is present. Apron is present. Baldric is present. Sword is absent.

SCENE LVI
FIGURE 8
Citizen figure type. Bare head. 'Lorica segmentata' type 18. Cingulum is absent. Baldric is absent. Sword is absent.

SCENE LVI
FIGURE 9
Citizen figure type. Bare head. 'Lorica segmentata' type 18. Cingulum is present. Baldric is absent. Sword is absent.
SCENE LVI FIGURE 10
Citizen figure type. Bare head. *Lorica segmentata*. Cingulum is present. Baldric is absent. Sword is present.

SCENE LVII FIGURE 1

SCENE LVII FIGURE 2

SCENE LVII FIGURE 3
Auxiliary infantryman. Helmet type 26. *Lorica hamata*. Mail chiselling is absent. Cloak is a *sagum*.

SCENE LVII FIGURE 4

SCENE LVII FIGURE 5

SCENE LVII FIGURE 6
Auxiliary infantryman. Helmet type 26. Cloak is a *sagum*.

SCENE LVII FIGURE 7

SCENE LVIII FIGURE 1

SCENE LVIII FIGURE 2

SCENE LVIII FIGURE 3
Trajan. Bare head. Muscled cuirass. Cloak is a *sagum*. Horse harness is impractical. Mistake in detail.

SCENE LIX FIGURE 1
Dacian. Bare head. Tunic.
SCENE LIX  FIGURE 2

SCENE LIX  FIGURE 3
Dacian. Bare head. Tunic.

SCENE LIX  FIGURE 4
Dacian. Bare head. Tunic.

SCENE LIX  FIGURE 5
Dacian. Bare head. Tunic.

SCENE LIX  FIGURE 6
Auxiliary infantryman. Helmet type 26. *Lorica hamata*. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is a *sagum*.

SCENE LIX  FIGURE 7
Dacian. Bare head.

SCENE LIX  FIGURE 8
Dacian. Bare head. Tunic.

SCENE LIX  FIGURE 9

SCENE LIX  FIGURE 10
Dacian. Bare head. Tunic.

SCENE LIX  FIGURE 11
Dacian. Bare head.

SCENE LX  FIGURE 1
Citizen figure type. Bare head. *'Lorica segmentata*. Cingulum is present. Apron is present. Baldric is absent. Sword is present.

SCENE LX  FIGURE 2
Citizen figure type. Bare head. *'Lorica segmentata*. Baldric is absent.

SCENE LX  FIGURE 3
Citizen figure type. Bare head. *'Lorica segmentata* type 26. Cingulum is present. Baldric is absent.

SCENE LX  FIGURE 4
Citizen figure type. Bare head. *'Lorica segmentata* type 26. Baldric is absent. Sword is absent.

SCENE LX  FIGURE 5
Citizen figure type. Bare head. *'Lorica segmentata*. Cingulum is present. Apron is present. Baldric is present. Sword is present.

SCENE LX  FIGURE 6
Citizen figure type. Helmet type 22. *'Lorica segmentata* type 5. Baldric is absent.
SCENE LX  
FIGURE 7  
Citizen figure type. Bare head. 'Lorica segmentata' type 26. Cingulum is present. Apron is present. Baldric is absent. Sword is absent.

SCENE LX  
FIGURE 8  
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Baldric is present. Sword is present.

SCENE LX  
FIGURE 9  
Citizen figure type. Bare head. 'Lorica segmentata' type 26. Baldric is absent.

SCENE LX  
FIGURE 10  
Citizen figure type. Helmet type 22. 'Lorica segmentata' type 5. Baldric is absent. Rectangular shield rear view or obscured.

SCENE LX  
FIGURE 11  
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Baldric is absent.

SCENE LX  
FIGURE 12  
Citizen figure type. Bare head. 'Lorica segmentata' type 26. Baldric is present.

SCENE LXI  
FIGURE 1  
Officer. Helmet type 16. Muscled cuirass. Cloak is a sagum. Mistake in figure type characteristics.
SCENE LXI  FIGURE 2
Officer. Helmet type 16. Mistake in figure type characteristics.

SCENE LXI  FIGURE 3
Trajan. Bare head. Muscled cuirass. Cloak is a fringed sagum.

SCENE LXI  FIGURE 4
Officer. Bare head.

SCENE LXI  FIGURE 5
Officer. Bare head. Muscled cuirass. Cloak is a fringed sagum.

SCENE LXI  FIGURE 6

SCENE LXI  FIGURE 7
Musician. Animal skin. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Sword is present. Cloak is absent. Tunic is fringed. Mail edging is ragged, very small lappets, or fringed.

SCENE LXI  FIGURE 8
Officer. Bare head. Muscled cuirass. Cloak is a fringed sagum.

SCENE LXI  FIGURE 9

SCENE LXI  FIGURE 10
Musician. Animal skin. Lorica hamata. Mail chiselling is surviving on the shaft. Cloak is absent. Mail edging is ragged, very small lappets, or fringed. Mistake in pose.

SCENE LXI  FIGURE 11

SCENE LXI  FIGURE 12

SCENE LXI  FIGURE 13

SCENE LXI  FIGURE 14

SCENE LXI  FIGURE 15
Standard bearer. Animal skin. Lorica hamata. Mail chiselling is surviving on the shaft. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE LXI  FIGURE 16
SCENE LXI

FIGURE 17
Citizen figure type. Helmet type 14. 'Lorica segmentata'. Baldric is absent.

SCENE LXI

FIGURE 18
Citizen figure type. Helmet type 14. 'Lorica segmentata'. Tunic with tufts.

SCENE LXI

FIGURE 19

SCENE LXII

FIGURE 1
Citizen figure type. 'Lorica segmentata'. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE LXII

FIGURE 2
Citizen figure type. Helmet type 14. 'Lorica segmentata'. Baldric is present. Additional detail on baldric.

SCENE LXII

FIGURE 3
Citizen figure type. Helmet type 14. 'Lorica segmentata'. Cingulum is present. Apron is absent. Baldric is present. Sword is present. Rectangular shield with thunderbolts and wings blazon. Additional detail on 'lorica segmentata'.

SCENE LXII

FIGURE 4
Citizen figure type. Helmet type 18. 'Lorica segmentata'. Baldric is absent. Rectangular shield rear view or obscured.

SCENE LXII

FIGURE 5
Citizen figure type. Helmet type 14. 'Lorica segmentata'.

SCENE LXII

FIGURE 6
Citizen figure type. Helmet type 18. 'Lorica segmentata'. Baldric is absent.

SCENE LXII

FIGURE 7
Citizen figure type. Helmet type 14. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is present. Sword is present. Rectangular shield with thunderbolts and wings blazon.

SCENE LXII

FIGURE 8
Citizen figure type. Helmet type 14. 'Lorica segmentata'. Baldric is absent.

SCENE LXII

FIGURE 9

SCENE LXII

FIGURE 10
Citizen figure type. Helmet type 13. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is present. Sword is present.
Rectangular shield with wreath blazon. Additional detail on baldric.

**SCENE LXII**  
**FIGURE 11**  
Citizen figure type. Helmet type 14. "Lorica segmentata".

**SCENE LXII**  
**FIGURE 12**  

**SCENE LXII**  
**FIGURE 13**  

**SCENE LXII**  
**FIGURE 14**  

**SCENE LXII**  
**FIGURE 15**  
Citizen figure type. Helmet type 13. "Lorica segmentata". Baldric is present.

**SCENE LXII**  
**FIGURE 16**  
Citizen figure type. Helmet type 13. "Lorica segmentata".

**SCENE LXII**  
**FIGURE 17**  
Citizen figure type. Helmet type 13. "Lorica segmentata". Sword is absent.

**SCENE LXII**  
**FIGURE 18**  
Citizen figure type. Helmet type 13. "Lorica segmentata". Cingulum is present. Apron is present. Baldric is present. Sword is present. Rectangular shield rear view or obscured.

**SCENE LXII**  
**FIGURE 19**  

**SCENE LXII**  
**FIGURE 20**  

**SCENE LXIII**  
**FIGURE 1**  
Citizen figure type. Helmet type 14. Baldric is present.

**SCENE LXIII**  
**FIGURE 2**  
SCENE LXIII  FIGURE 3
Citizen figure type. Helmet type 14. 'Lorica segmentata'. Baldric is present.

SCENE LXIII  FIGURE 4
Citizen figure type. Helmet type 14. 'Lorica segmentata'.

SCENE LXIII  FIGURE 5
Citizen figure type. Helmet type 14. 'Lorica segmentata'. Baldric is present.

SCENE LXIII  FIGURE 6
Citizen figure type. Helmet type 14. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is present. Sword is present. Rectangular shield with thunderbolts and wings blazon. Additional detail on 'lorica segmentata'.

SCENE LXIII  FIGURE 7
Citizen figure type. Helmet type 14. 'Lorica segmentata'. Baldric is present. Rectangular shield rear view or obscured. Additional detail on baldric.

SCENE LXIII  FIGURE 8
Citizen figure type. Helmet type 14. 'Lorica segmentata'.

SCENE LXIII  FIGURE 9
Citizen figure type. Helmet type 14. 'Lorica segmentata'.

SCENE LXIII  FIGURE 10
Auxiliary infantryman. Helmet type 26. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is absent. Sword is absent. Cloak is absent. Oval shield with wreath blazon. Mail edging is ragged, very small lappets, or fringed.

SCENE LXIII  FIGURE 11

SCENE LXIII  FIGURE 12
Auxiliary infantryman. Helmet type 26. Lorica hamata. Mail chiselling is surviving on the shaft. Cloak is absent.

SCENE LXIII  FIGURE 13

SCENE LXIII  FIGURE 14
Auxiliary infantryman. Helmet type 26. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is present. Cloak is absent. Oval shield with wreath blazon. Mail edging is ragged, very small lappets, or fringed.

SCENE LXIII  FIGURE 15
SCENE LXIII  FIGURE 16
Officer. Bare head. Muscled cuirass. Cloak is a fringed sagum.

SCENE LXIII  FIGURE 17
Trajan. Bare head. Muscled cuirass. Cloak is a fringed sagum.

SCENE LXIII  FIGURE 18
Officer. Bare head. Muscled cuirass. Cloak is a fringed sagum.

SCENE LXIV  FIGURE 1
Moorish cavalryman. Bare head. Knotted tunic.

SCENE LXIV  FIGURE 2
Moorish cavalryman. Bare head. Knotted tunic.

SCENE LXIV  FIGURE 3
Moorish cavalryman. Bare head. Knotted tunic.

SCENE LXIV  FIGURE 4
Moorish cavalryman. Bare head. Knotted tunic.

SCENE LXIV  FIGURE 5
Moorish cavalryman. Bare head. Knotted tunic.

SCENE LXIV  FIGURE 6
Moorish cavalryman. Bare head. Knotted tunic.

SCENE LXIV  FIGURE 7
Moorish cavalryman. Bare head. Knotted tunic.

SCENE LXIV  FIGURE 8
Moorish cavalryman. Bare head. Knotted tunic.

SCENE LXIV  FIGURE 9
Moorish cavalryman. Bare head. Knotted tunic.

SCENE LXIV  FIGURE 10
Moorish cavalryman. Bare head. Knotted tunic.

SCENE LXIV  FIGURE 11
Moorish cavalryman. Bare head. Knotted tunic.

SCENE LXIV  FIGURE 12
Moorish cavalryman. Bare head. Knotted tunic.

SCENE LXIV  FIGURE 13

SCENE LXIV  FIGURE 14
Moorish cavalryman. Bare head. Knotted tunic.

SCENE LXIV  FIGURE 15
Moorish cavalryman. Bare head. Knotted tunic.

SCENE LXIV  FIGURE 16
Dacian. Bare head. Tunic. Cloak is a fringed sagum. Oval shield with
tendrils blazon.

SCENE LXIV  FIGURE 17

SCENE LXIV  FIGURE 18
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE LXIV  FIGURE 19
Dacian. Bare head. Tunic. Cloak is a fringed sagum. Oval shield with palmettes blazon.

SCENE LXIV  FIGURE 20
Dacian. Bare head. Tunic.

SCENE LXIV  FIGURE 21
Dacian. Bare head. Tunic.

SCENE LXIV  FIGURE 22

SCENE LXIV  FIGURE 23

SCENE LXIV  FIGURE 24

SCENE LXIV  FIGURE 25
Dacian. Pilleus.

SCENE LXIV  FIGURE 26

SCENE LXIV  FIGURE 27

SCENE LXIV  FIGURE 28

SCENE LXIV  FIGURE 29

SCENE LXIV  FIGURE 30

SCENE LXIV  FIGURE 31
Dacian. Bare head. Tunic.

SCENE LXIV  FIGURE 32
Dacian. Bare head. Tunic. Cloak is a fringed sagum. Oval shield rear view or obscured.

SCENE LXIV  FIGURE 33
Dacian. Bare head. Tunic. Oval shield rear view or obscured.
SCENE LXIV  
**FIGURE 34**  
Dacian. *Pilleus.*

SCENE LXIV  
**FIGURE 35**  
Dacian. Bare head. Tunic. Cloak is a fringed *sagum*. Oval shield with piles blazon.

SCENE LXIV  
**FIGURE 36**  
Dacian. Bare head. Oval shield with piles blazon.

SCENE LXIV  
**FIGURE 37**  
Dacian. Bare head. Tunic.

SCENE LXIV  
**FIGURE 38**  

SCENE LXV  
**FIGURE 1**  
Auxiliary infantryman. Helmet type 22. *Lorica hamata*. Mail chiselling is absent. Baldric is present. Cloak is absent. Mail edging is zig-zag.

SCENE LXV  
**FIGURE 2**  

SCENE LXV  
**FIGURE 3**  

SCENE LXV  
**FIGURE 4**  
Auxiliary infantryman. Helmet type 22. *Lorica hamata*. Mail chiselling is present on cast. Baldric is present. Cloak is absent. Oval shield rear view or obscured.

SCENE LXV  
**FIGURE 5**  
Auxiliary infantryman. Helmet type 22. *Lorica hamata*. Mail chiselling is present on cast. Baldric is present. Cloak is absent.

SCENE LXV  
**FIGURE 6**  

SCENE LXV  
**FIGURE 7**  

SCENE LXV  
**FIGURE 8**  
Auxiliary infantryman. Helmet type 22. *Lorica hamata*. Mail chiselling is absent. Cloak is absent.

SCENE LXV  
**FIGURE 9**  
Auxiliary infantryman. Helmet type 22. *Lorica hamata*. Mail chiselling
is absent. Baldric is present. Cloak is absent. Oval shield with Hellenistic method of carriage.

SCENE LXV
FIGURE 10
Citizen figure type. Bare head. Lorica segmentata. Cingulum is present. Apron is present. Baldric is absent.

SCENE LXV
FIGURE 11
Citizen figure type. Bare head. Lorica segmentata. Baldric is absent.

SCENE LXV
FIGURE 12
Citizen figure type. Bare head. Lorica segmentata. Baldric is absent.

SCENE LXV
FIGURE 13
Citizen figure type. Bare head. Lorica segmentata. Cingulum is present. Baldric is absent.

SCENE LXV
FIGURE 14
Citizen figure type. Bare head. Lorica segmentata. Baldric is absent.

SCENE LXV
FIGURE 15
Citizen figure type. Bare head. Lorica segmentata. Baldric is absent.

SCENE LXV
FIGURE 16
Citizen figure type. Bare head. Lorica segmentata type 25. Cingulum is present. Baldric is absent.

SCENE LXV
FIGURE 17
Citizen figure type. Bare head. Lorica segmentata. Baldric is absent. Cloak is a sagum.

SCENE LXV
FIGURE 18
Citizen figure type. Bare head. Lorica segmentata.

SCENE LXV
FIGURE 19
Citizen figure type. Bare head. Lorica segmentata type 23. Baldric is absent.

SCENE LXV
FIGURE 20
Citizen figure type. Bare head. Lorica segmentata type 23. Cingulum is present. Baldric is absent. Sword is absent.

SCENE LXV
FIGURE 21
Citizen figure type. Bare head. Lorica segmentata type 23.

SCENE LXV
FIGURE 22
Citizen figure type. Bare head. Lorica segmentata type 23. Baldric is absent.

SCENE LXV
FIGURE 23
Citizen figure type. Bare head. Lorica segmentata type 23. Cingulum is absent.

SCENE LXV
FIGURE 24
Citizen figure type. Bare head. Lorica segmentata type 23. Cingulum is present. Apron is present. Baldric is absent. Sword is absent.
Citizen figure type. Bare head. *Lorica segmentata* type 23. Baldric is absent.

Citizen figure type. Bare head. *Lorica segmentata* type 23. Cingulum is present. Apron is present. Baldric is present. Sword is absent. Additional detail on baldric.

Citizen figure type. Bare head. *Lorica segmentata* type 25. Baldric is absent.

Citizen figure type. Bare head. *Lorica segmentata* type 25. Cingulum is absent. Apron is absent. Baldric is present. Sword is absent. Additional detail on baldric.

Citizen figure type. Bare head. *Lorica segmentata* type 23. Cingulum is present. Baldric is present. Sword is absent. Additional detail on baldric.

Officer. Bare head. Muscled cuirass. Cloak is a *sagus*.

Trajan. Bare head. Muscled cuirass. Cloak is a fringed *sagus*.

Officer. Bare head. Muscled cuirass. Cloak is a *sagus*.

Dacian. Pilleus. Tunic. Cloak is a fringed *sagus*.


Dacian. Pilleus. Tunic. Cloak is a fringed *sagus*.


SCENE LXVI  
**FIGURE 11**

SCENE LXVI  
**FIGURE 12**
Citizen figure type. Helmet type 14. *Lorica segmentata*. Cingulum is present. Apron is present. Baldric is present. Sword is present. Rectangular shield rear view or obscured. Additional detail on *lorica segmentata*.

SCENE LXVI  
**FIGURE 13**
Citizen figure type. Helmet type 14.

SCENE LXVI  
**FIGURE 14**

SCENE LXVI  
**FIGURE 15**
Citizen figure type. Helmet type 14. *Lorica segmentata*. Baldric is present. Sword is present. Rectangular shield with thunderbolts and wings blazon. Additional detail on *lorica segmentata*.

SCENE LXVI  
**FIGURE 16**
Citizen figure type. Helmet type 14.

SCENE LXVI  
**FIGURE 17**
Citizen figure type. Helmet type 14.

SCENE LXVI  
**FIGURE 18**

SCENE LXVI  
**FIGURE 19**

SCENE LXVI  
**FIGURE 20**
Citizen figure type. Bare head. *Lorica segmentata*. Cingulum is absent. Baldric is absent. Sword is absent.

SCENE LXVI  
**FIGURE 21**
Citizen figure type. Bare head. *Lorica segmentata*.

SCENE LXVI  
**FIGURE 22**

SCENE LXVI  
**FIGURE 23**
shield with thunderbolts and wings blazon.

SCENE LXVI  FIGURE 24
Citizen figure type. Helmet type 14. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is absent. Sword is present. Additional detail on 'lorica segmentata'.

SCENE LXVI  FIGURE 25

SCENE LXVI  FIGURE 26

SCENE LXVI  FIGURE 27

SCENE LXVI  FIGURE 28
Slinger. Bare head. Tunic. Sword is absent. Cloak is absent.

SCENE LXVI  FIGURE 29

SCENE LXVI  FIGURE 30

SCENE LXVI  FIGURE 31
Slinger. Bare head. Tunic. Baldric is absent. Sword is present. Cloak is a *sagum*. Oval shield with Roman method of carriage.

SCENE LXVI  FIGURE 32

SCENE LXVI  FIGURE 33
Bare-chested irregular. Bare head. Bare torso. Baldric is absent. Oval shield with Hellenistic method of carriage.

SCENE LXVI  FIGURE 34

SCENE LXVI  FIGURE 35
Bare-chested irregular. Bare head. Bare torso. Baldric is present. Oval shield with Hellenistic method of carriage.

SCENE LXVI  FIGURE 36

SCENE LXVI  FIGURE 37
Dacian. Bare head. Bare torso. Oval shield is unfinished. Mistake in
SCENE LXVI  FIGURE 38
Auxiliary infantryman. Helmet type 25. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is present. Oval shield with Roman method of carriage. Mail edging is ragged, very small lappets, or fringed.

SCENE LXVI  FIGURE 39

SCENE LXVI  FIGURE 40

SCENE LXVI  FIGURE 41
Dacian. Bare head. Tunic. Cloak is a fringed sagum. Oval shield with piles blazon.

SCENE LXVI  FIGURE 42
Dacian. Bare head. Tunic.

SCENE LXVI  FIGURE 43
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE LXVI  FIGURE 44
Dacian. Bare head. Tunic.

SCENE LXVI  FIGURE 45

SCENE LXVI  FIGURE 46

SCENE LXVI  FIGURE 47
Dacian. Bare head.

SCENE LXVI  FIGURE 48
Dacian. Bare head. Tunic.

SCENE LXVI  FIGURE 49
Dacian. Bare head.

SCENE LXVI  FIGURE 50

SCENE LXVI  FIGURE 51
Dacian. Bare head. Oval shield is unfinished. Mistake in detail.

SCENE LXVI  FIGURE 52

SCENE LXVI  FIGURE 53
Dacian. Bare head. Tunic.
SCENE LXVI
Dacian. Bare head.

FIGURE 54

SCENE LXVI
Dacian. Bare head.

FIGURE 55

SCENE LXVII
Dacian. Pilleus. Tunic. Sword is present. Cloak is a fringed sagum. Straight sword present on hip.

FIGURE 1

SCENE LXVII

FIGURE 2

SCENE LXVII
Dacian. Pilleus. Cloak is a fringed sagum. Oval shield is unfinished. Mistake in detail.

FIGURE 3

SCENE LXVII
Dacian. Bare head. Tunic. Cloak is a fringed sagum.

FIGURE 4

SCENE LXVII
Dacian. Bare head.

FIGURE 5

SCENE LXVII
Dacian. Bare head. Tunic. Cloak is a fringed sagum.

FIGURE 6

SCENE LXVII
Dacian. Bare head. Tunic. Cloak is a fringed sagum.

FIGURE 7

SCENE LXVII
Dacian. Bare head. Tunic.

FIGURE 8

SCENE LXVII
Dacian. Bare head. Tunic. Sword is present. Cloak is a fringed sagum. Straight sword present on hip.

FIGURE 9

SCENE LXVIII
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Baldric is absent. Sword is absent.

FIGURE 1

SCENE LXVIII
Citizen figure type. Bare head. 'Lorica segmentata' type 24. Cingulum is present. Apron is absent. Baldric is absent. Sword is present.

FIGURE 2

SCENE LXVIII
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is absent.

FIGURE 3

SCENE LXVIII
Citizen figure type. Bare head. 'Lorica segmentata' type 22. Cingulum is absent.

FIGURE 4

SCENE LXVIII
Citizen figure type. Bare head. 'Lorica segmentata' type 19. Cingulum is present. Baldric is absent. Sword is absent. Mistake in pose.

FIGURE 5
SCENE LXVIII  FIGURE 6
Citizen figure type. Bare head. 'Lorica segmentata' type 19. Cingulum is present. Baldric is absent.

SCENE LXVIII  FIGURE 7
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is absent.

SCENE LXVIII  FIGURE 8
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is absent. Mistake in pose.

SCENE LXVIII  FIGURE 9

SCENE LXVIII  FIGURE 10
Officer. Bare head. Tunic. Cloak is a sagum. Mistake in pose.

SCENE LXVIII  FIGURE 11

SCENE LXVIII  FIGURE 12
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE LXVIII  FIGURE 13

SCENE LXVIII  FIGURE 14
Officer. Bare head. Cloak is a sagum.

SCENE LXVIII  FIGURE 15

SCENE LXVIII  FIGURE 16
Trajan. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE LXVIII  FIGURE 17

SCENE LXVIII  FIGURE 18
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE LXVIII  FIGURE 19
Auxiliary infantryman. Helmet type 26. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Cloak is absent. Mail edging is ragged, very small lappets, or fringed. Additional detail on baldric.
SCENE LXVIII  FIGURE 20

SCENE LXVIII  FIGURE 21

SCENE LXIX  FIGURE 1
Citizen figure type. Bare head. 'Lorica segmentata' type 26. Cingulum is present. Apron is present. Baldric is absent. Sword is absent.

SCENE LXIX  FIGURE 2
Auxiliary infantryman. Helmet type 22.

SCENE LXIX  FIGURE 3
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Cloak is absent.

SCENE LXIX  FIGURE 4
Citizen figure type. Bare head. 'Lorica segmentata' type 26. Cingulum is present. Apron is present. Baldric is absent. Sword is absent.

SCENE LXIX  FIGURE 5
Citizen figure type. Bare head. 'Lorica segmentata'.

SCENE LXIX  FIGURE 6
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Cloak is absent.

SCENE LXIX  FIGURE 7
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Cloak is absent.

SCENE LXIX  FIGURE 8
Citizen figure type. Bare head. 'Lorica segmentata' type 26. Cingulum is present. Apron is present. Baldric is absent.

SCENE LXIX  FIGURE 9
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent.

SCENE LXIX  FIGURE 10
Auxiliary infantryman. Helmet type 22.

SCENE LXIX  FIGURE 11
Citizen figure type. Bare head. 'Lorica segmentata' type 26. Cingulum is present. Baldric is absent. Sword is present.

SCENE LXIX  FIGURE 12
Citizen figure type. Bare head. 'Lorica segmentata' type 26. Cingulum is absent. Baldric is absent.

SCENE LXIX  FIGURE 13
Auxiliary infantryman. Helmet type 22.
SCENE LXIX  FIGURE 14
Citizen figure type. Bare head. 'Lorica segmentata' type 26. Cingulum is present. Baldric is absent. Sword is present.

SCENE LXIX  FIGURE 15
Auxiliary infantryman. Helmet type 22.

SCENE LXIX  FIGURE 16
Citizen figure type. Helmet type 22. 'Lorica segmentata' type 26. Cingulum is present. Baldric is absent.

SCENE LXIX  FIGURE 17

SCENE LXIX  FIGURE 18
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Baldric is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE LXIX  FIGURE 19
Auxiliary infantryman. Helmet type 22.

SCENE LXIX  FIGURE 20
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Oval shield rear view or obscured.

SCENE LXX  FIGURE 1
Archer. Helmet type 29. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE LXX  FIGURE 2
Slinger. Bare head. Tunic. Baldric is absent. Sword is absent. Cloak is a sagum.

SCENE LXX  FIGURE 3
Archer. Helmet type 29. Lorica hamata. Mail chiselling is absent. Baldric is present.

SCENE LXX  FIGURE 4

SCENE LXX  FIGURE 5

SCENE LXX  FIGURE 6
Bare-chested irregular. Bare head. Bare torso. Baldric is absent. Sword is absent. Oval shield with small motifs.

SCENE LXX  FIGURE 7
Archer. Helmet type 29. Lorica hamata. Mail chiselling is absent. Baldric is present.
SCENE LXX  FIGURE 8
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is absent. Oval shield with small motifs.

SCENE LXX  FIGURE 9

SCENE LXX  FIGURE 10
Archers. Helmet type 29. Lorica hamata. Mail chiselling is absent. Baldric is present.

SCENE LXX  FIGURE 11

SCENE LXX  FIGURE 12

SCENE LXX  FIGURE 13
Dacian. Bare head. Tunic. Cloak is absent. Oval shield rear view or obscured.

SCENE LXX  FIGURE 14

SCENE LXX  FIGURE 15
Archers. Helmet type 29. Lorica hamata. Mail chiselling is absent. Baldric is present.

SCENE LXX  FIGURE 16
Archers. Helmet type 29. Lorica hamata. Mail chiselling is present on cast. Baldric is present.

SCENE LXX  FIGURE 17

SCENE LXX  FIGURE 18
Dacian. Bare head. Tunic.

SCENE LXX  FIGURE 19

SCENE LXX  FIGURE 20
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE LXX  FIGURE 21
Dacian. Bare head. Tunic.

SCENE LXX  FIGURE 22
Dacian. Bare head. Tunic.
SCENE LXX          FIGURE 23
Dacian. Bare head.

SCENE LXX          FIGURE 24

SCENE LXX          FIGURE 25
Dacian. Bare head.

SCENE LXX          FIGURE 26
Dacian. Bare head.

SCENE LXX          FIGURE 27
Dacian. Bare head. Tunic.

SCENE LXX          FIGURE 28
Dacian. Bare head.

SCENE LXX          FIGURE 29
Dacian. Bare head. Tunic. Cloak is absent.

SCENE LXX          FIGURE 30
Dacian. Bare head.

SCENE LXX          FIGURE 31
Dacian. Bare head. Tunic.

SCENE LXX          FIGURE 32
Dacian. Bare head.

SCENE LXXI         FIGURE 1

SCENE LXXI         FIGURE 2

SCENE LXXI         FIGURE 3

SCENE LXXI         FIGURE 4
Dacian. Bare head. Tunic.

SCENE LXXI         FIGURE 5
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE LXXI         FIGURE 6
Citizen figure type. Rectangular shield with thunderbolts and wings blazon.

SCENE LXXI         FIGURE 7
Citizen figure type. Rectangular shield with thunderbolts and wings blazon.

SCENE LXXI         FIGURE 8
SCENE LXXI  
**FIGURE 9**
Dacian. Bare head. Tunic. Rectangular shield with thunderbolts and wings blazon.

SCENE LXXI  
**FIGURE 10**
Citizen figure type. Rectangular shield with thunderbolts and wings blazon.

SCENE LXXI  
**FIGURE 11**
Citizen figure type. Rectangular shield with thunderbolts and wings blazon.

SCENE LXXI  
**FIGURE 12**

SCENE LXXI  
**FIGURE 13**

SCENE LXXI  
**FIGURE 14**
Citizen figure type. 'Lorica segmentata' type 23. Cingulum is absent. Baldric is absent. Sword is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE LXXI  
**FIGURE 15**
Citizen figure type. 'Lorica segmentata'. Rectangular shield with thunderbolts and wings blazon.

SCENE LXXI  
**FIGURE 16**
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is absent. Oval shield rear view or obscured. Mail edging is zig-zag. Additional detail on baldric.

SCENE LXXI  
**FIGURE 17**
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Sword is present. Cloak is absent. Oval shield is unfinished. Mail edging is zig-zag. Additional detail on mail. Mistake in detail.

SCENE LXXI  
**FIGURE 18**
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is a sagum. Oval shield with small motifs. Mail edging is zig-zag. Additional detail on mail.

SCENE LXXI  
**FIGURE 19**
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Cloak is absent. Oval shield rear view or obscured.

SCENE LXXI  
**FIGURE 20**
SCENE LXXII  FIGURE 1
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE LXXII  FIGURE 2
Trajan. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE LXXII  FIGURE 3
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE LXXII  FIGURE 4
Auxiliary infantryman. Helmet type 25. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is absent. Sword is absent. Cloak is absent. Oval shield is unfinished. Tunic is fringed. Mail edging is zig-zag. Additional detail on mail. Mistake in detail.

SCENE LXXII  FIGURE 5
Auxiliary infantryman. Helmet type 25. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is absent. Sword is absent. Cloak is absent. Oval shield with wreath blazon. Tunic is fringed. Mail edging is zig-zag. Additional detail on mail.

SCENE LXXII  FIGURE 6
Citizen figure type. Helmet type 14. 'Lorica segmentata'. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent.

SCENE LXXII  FIGURE 7
Citizen figure type. Helmet type 14. 'Lorica segmentata'. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent. Rectangular shield with wreath blazon. Additional detail on 'lorica segmentata'. Mistake in detail.

SCENE LXXII  FIGURE 8

SCENE LXXII  FIGURE 9
Citizen figure type. Helmet type 14. 'Lorica segmentata'. Cingulum is absent. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE LXXII  FIGURE 10
Citizen figure type. Helmet type 14. 'Lorica segmentata' type 7. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE LXXII  FIGURE 11
Citizen figure type. Helmet type 14. 'Lorica segmentata'. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE LXXII  FIGURE 12
Dacian. Bare head.
SCENE LXXII  
**FIGURE 13**
Dacian. Bare head.

SCENE LXXII  
**FIGURE 14**
Citizen figure type. Helmet type 14. 'Lorica segmentata' type 18. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent. Oval shield rear view or obscured. Mistake in figure type characteristics.

SCENE LXXII  
**FIGURE 15**

SCENE LXXII  
**FIGURE 16**

SCENE LXXII  
**FIGURE 17**
Slinger. Bare head. Tunic. Baldric is absent. Sword is absent. Cloak is a sagum. Mistake in detail.

SCENE LXXII  
**FIGURE 18**
Dacian. Bare head. Tunic. Cloak is absent. Oval shield is unfinished. Mistake in detail.

SCENE LXXII  
**FIGURE 19**
Dacian. Bare head. Tunic.

SCENE LXXII  
**FIGURE 20**

SCENE LXXII  
**FIGURE 21**

SCENE LXXII  
**FIGURE 22**
Dacian. Bare head. Tunic. Cloak is a fringed sagum. Oval shield is unfinished. Mistake in detail.

SCENE LXXII  
**FIGURE 23**

SCENE LXXII  
**FIGURE 24**
Auxiliary infantryman. Helmet type 25. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is absent. Sword is absent. Cloak is absent. Oval shield with wreath blazon. Tunic is fringed. Mail edging is ragged, very small lappets, or fringed. Additional detail on mail. Mistake in detail.

SCENE LXXII  
**FIGURE 25**
Dacian. Bare head.

SCENE LXXII  
**FIGURE 26**
SCENE LXXII  FIGURE 27
Auxiliary infantryman. Helmet type 25. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is absent. Sword is absent. Cloak is absent. Oval shield with rings blazon. Additional detail on mail.

SCENE LXXII  FIGURE 28

SCENE LXXII  FIGURE 29
Auxiliary infantryman. Helmet type 25. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is absent. Cloak is absent. Oval shield with Hellenistic method of carriage. Tunic is fringed. Mail edging is ragged, very small lappets, or fringed. Additional detail on mail.

SCENE LXXII  FIGURE 30

SCENE LXXII  FIGURE 31
Dacian. Bare head. Tunic.

SCENE LXXII  FIGURE 32
Dacian. Bare head. Tunic.

SCENE LXXII  FIGURE 33

SCENE LXXII  FIGURE 34
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE LXXII  FIGURE 35

SCENE LXXIII  FIGURE 1
Officer. Bare head. Muscled cuirass. Cloak is a fringed sagum.

SCENE LXXIII  FIGURE 2
Officer. Bare head. Cloak is a sagum.

SCENE LXXIII  FIGURE 3
Trajan. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE LXXIII  FIGURE 4
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent.

SCENE LXXIII  FIGURE 5
Citizen figure type. Helmet type 11. 'Lorica segmentata'. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE LXXIII  FIGURE 6
Officer. Bare head. Muscled cuirass. Cloak is a sagum.
SCENE LXXIII  FIGURE 7
Citizen figure type. Helmet type 11. 'Lorica segmentata'. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE LXXIII  FIGURE 8
Citizen figure type. Helmet type 11. 'Lorica segmentata'. Cingulum is absent. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE LXXIII  FIGURE 9
Citizen figure type. Bare head. 'Lorica segmentata' type 15. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent.

SCENE LXXIII  FIGURE 10
Citizen figure type. Helmet type 11. 'Lorica segmentata'. Cingulum is absent. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE LXXIII  FIGURE 11
Citizen figure type. 'Lorica segmentata' type 15. Cingulum is absent. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE LXXIII  FIGURE 12
Citizen figure type. Helmet type 11. 'Lorica segmentata'. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE LXXIII  FIGURE 13
Citizen figure type. Helmet type 11. 'Lorica segmentata'. Baldric is absent.

SCENE LXXIII  FIGURE 14
Citizen figure type. 'Lorica segmentata'.

SCENE LXXIII  FIGURE 15
Citizen figure type. 'Lorica segmentata'.

SCENE LXXIII  FIGURE 16
Citizen figure type. Helmet type 11. 'Lorica segmentata'. Rectangular shield with thunderbolts and wings blazon.

SCENE LXXIII  FIGURE 17
Citizen figure type. Bare head. 'Lorica segmentata' type 23. Cingulum is absent. Baldric is absent.

SCENE LXXIII  FIGURE 18
Citizen figure type. Helmet type 11. 'Lorica segmentata'. Rectangular shield rear view or obscured.

SCENE LXXIII  FIGURE 19
Citizen figure type. Helmet type 11. 'Lorica segmentata'. Cingulum is absent. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.
SCENE LXXIII

FIGURE 20
Citizen figure type. Bare head. 'Lorica segmentata' type 23. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent.

SCENE LXXXIV

FIGURE 1
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Cloak is absent. Oval shield with wreath blazon.

FIGURE 2
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is absent. Cloak is absent. Oval shield with wreath blazon. Mail edging is ragged, very small lappets, or fringed.

FIGURE 3
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is present. Cloak is absent. Oval shield with Hellenistic method of carriage. Mail edging is ragged, very small lappets, or fringed.

FIGURE 4
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is absent.

FIGURE 5
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is absent.

FIGURE 6
Auxiliary cavalryman. Bare head. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is present. Cloak is a fringed sagum. Oval shield with Hellenistic method of carriage. Horse harness is practical. Mail edging is zig-zag.

FIGURE 7
Auxiliary cavalryman. Bare head. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is absent. Sword is present. Cloak is a sagum. Oval shield with Hellenistic method of carriage. Tunic with tufts. Mail edging is zig-zag.

SCENE LXXV

FIGURE 1
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is absent. Sword is absent. Cloak is absent. Oval shield rear view or obscured. Mail edging is shallow and rounded lappets. Additional detail on baldric.

FIGURE 2
Citizen figure type. Bare head. 'Lorica segmentata'.

FIGURE 3
Auxiliary infantryman. Helmet type 22. Cloak is a sagum.

FIGURE 4
Citizen figure type. Bare head. 'Lorica segmentata'.

FIGURE 5
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling
is surviving on the shaft. Baldric is present. Sword is present. Cloak is a sagum. Oval shield with Roman method of carriage. Mail edging is shallow and rounded lappets.

**SCENE LXXV**  **FIGURE 6**
Standard bearer. Animal skin. *Lorica hamata*. Mail chiselling is present on cast. Sword is absent. Cloak is absent. Mail edging is shallow and rounded lappets.

**SCENE LXXV**  **FIGURE 7**
Citizen figure type. Bare head. *Lorica segmentata*.

**SCENE LXXV**  **FIGURE 8**
Auxiliary infantryman. Helmet type 22.

**SCENE LXXV**  **FIGURE 9**
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

**SCENE LXXV**  **FIGURE 10**
Citizen figure type. Bare head. *Lorica segmentata*.

**SCENE LXXV**  **FIGURE 11**
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

**SCENE LXXV**  **FIGURE 12**
Citizen figure type. Bare head. *Lorica segmentata*.

**SCENE LXXV**  **FIGURE 13**
Standard bearer. Animal skin. *Lorica hamata*. Mail chiselling is present on cast. *Cingulum* is present. Cloak is absent. Mail edging is shallow and rounded lappets.

**SCENE LXXV**  **FIGURE 14**
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

**SCENE LXXV**  **FIGURE 15**
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

**SCENE LXXV**  **FIGURE 16**

**SCENE LXXV**  **FIGURE 17**
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

**SCENE LXXV**  **FIGURE 18**
Trajan. Bare head. Muscled cuirass. Cloak is a sagum.

**SCENE LXXV**  **FIGURE 19**
Officer. Bare head. Sword is present.

**SCENE LXXV**  **FIGURE 20**

**SCENE LXXV**  **FIGURE 21**
Officer. Bare head. Muscled cuirass. Cloak is a sagum.
SCENE LXXV  FIGURE 22

SCENE LXXV  FIGURE 23
Standard bearer. Animal skin. Lorica hamata. Mail chiselling is absent. Cingulum is present. Baldric is absent. Cloak is absent. Mail edging is shallow and rounded lappets.

SCENE LXXV  FIGURE 24

SCENE LXXV  FIGURE 25

SCENE LXXV  FIGURE 26

SCENE LXXV  FIGURE 27

SCENE LXXV  FIGURE 28
Auxiliary infantryman. Helmet type 17. Lorica hamata. Mail chiselling is absent.

SCENE LXXV  FIGURE 29
Dacian. Bare head. Tunic.

SCENE LXXV  FIGURE 30

SCENE LXXV  FIGURE 31
Dacian. Bare head. Tunic.

SCENE LXXV  FIGURE 32
Auxiliary infantryman. Helmet type 17. Lorica hamata. Mail chiselling is absent.

SCENE LXXV  FIGURE 33

SCENE LXXV  FIGURE 34
Auxiliary infantryman. Helmet type 17. Lorica hamata. Mail chiselling is absent. Baldric is absent. Cloak is absent. Oval shield rear view or obscured.

SCENE LXXV  FIGURE 35
Dacian. Bare head.

SCENE LXXV  FIGURE 36
Auxiliary infantryman. Helmet type 17. Lorica hamata. Mail chiselling
is absent. Baldric is present. Cloak is absent. Oval shield with piles blazon.

**SCENE LXXV**  
**FIGURE 37**  
Dacian. Bare head. Tunic.

**SCENE LXXV**  
**FIGURE 38**  
Auxiliary infantryman. Helmet type 17. *Lorica hamata*. Mail chiselling is absent.

**SCENE LXXV**  
**FIGURE 39**  

**SCENE LXXV**  
**FIGURE 40**  

**SCENE LXXV**  
**FIGURE 41**  
Dacian. Bare head.

**SCENE LXXV**  
**FIGURE 42**  
Dacian. *Pilleus*.

**SCENE LXXV**  
**FIGURE 43**  
Dacian. Bare head. Tunic. Cloak is a fringed *sagum*.

**SCENE LXXV**  
**FIGURE 44**  
Dacian. Bare head.

**SCENE LXXV**  
**FIGURE 45**  
Dacian. *Pilleus*.

**SCENE LXXV**  
**FIGURE 46**  

**SCENE LXXV**  
**FIGURE 47**  
Dacian. Bare head.

**SCENE LXXV**  
**FIGURE 48**  
Dacian. Bare head.

**SCENE LXXV**  
**FIGURE 49**  
Dacian. Bare head. Tunic. Cloak is a fringed *sagum*. Oval shield with piles blazon.

**SCENE LXXV**  
**FIGURE 50**  

**SCENE LXXV**  
**FIGURE 51**  
Dacian. Bare head. Oval shield with piles blazon.

**SCENE LXXV**  
**FIGURE 52**  
SCENE LXXV FIGURE 53
Dacian. Bare head. Tunic.

SCENE LXXV FIGURE 54

SCENE LXXV FIGURE 55
Dacian. Pilleus.

SCENE LXXV FIGURE 56

SCENE LXXV FIGURE 57
Dacian. Bare head.

SCENE LXXV FIGURE 58

SCENE LXXV FIGURE 59
Dacian. Bare head. Oval shield rear view or obscured.

SCENE LXXV FIGURE 60

SCENE LXXV FIGURE 61
Dacian. Bare head. Tunic.

SCENE LXXV FIGURE 62
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE LXXV FIGURE 63

SCENE LXXV FIGURE 64
Dacian. Bare head.

SCENE LXXV FIGURE 65

SCENE LXXVI FIGURE 1
Dacian. Pilleus.

SCENE LXXVI FIGURE 2
Dacian. Bare head. Tunic.

SCENE LXXVI FIGURE 3
Dacian. Bare head.

SCENE LXXVI FIGURE 4
Dacian. Bare head. Tunic.

SCENE LXXVI FIGURE 5
Dacian civilian. Bare head.
SCENE LXXVI  
FIGURE 6  
Dacian civilian. Bare head.

SCENE LXXVI  
FIGURE 7  
Dacian. Bare head.

SCENE LXXVI  
FIGURE 8  
Dacian civilian. Bare head.

SCENE LXXVI  
FIGURE 9  
Dacian. Bare head.

SCENE LXXVI  
FIGURE 10  
Dacian civilian. Bare head.

SCENE LXXVI  
FIGURE 11  
Dacian civilian. Bare head.

SCENE LXXVI  
FIGURE 12  
Dacian civilian. Bare head.

SCENE LXXVI  
FIGURE 13  
Dacian civilian. Bare head.

SCENE LXXVI  
FIGURE 14  
Dacian civilian. Bare head.

SCENE LXXVI  
FIGURE 15  
Dacian. Bare head.

SCENE LXXVI  
FIGURE 16  
Dacian civilian. Bare head.

SCENE LXXVI  
FIGURE 17  
Dacian. Bare head. Tunic.

SCENE LXXVI  
FIGURE 18  
Dacian. Bare head.

SCENE LXXVI  
FIGURE 19  
Dacian. Bare head.

SCENE LXXVI  
FIGURE 20  
Dacian civilian. Bare head.

SCENE LXXVII  
FIGURE 1  
Officer. Bare head. Tunic. Cloak is a sagum.

SCENE LXXVII  
FIGURE 2  
Trajan. Bare head. Tunic. Cloak is a sagum.

SCENE LXXVII  
FIGURE 3  
Officer. Bare head. Tunic. Cloak is a sagum.

SCENE LXXVII  
FIGURE 4  
Standard bearer. Bare head. Lorica hamata. Mail chiselling is absent.
Baldric is absent. Cloak is absent.

SCENE LXXVII FIGURE 5
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is a sagum. Mail edging is plain (unfinished). Mistake in detail.

SCENE LXXVII FIGURE 6
Standard bearer. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is a sagum. Mistake in detail.

SCENE LXXVII FIGURE 7
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Baldric is absent. Cloak is a fringed sagum. Mail edging is shallow and rounded lappets.

SCENE LXXVII FIGURE 8
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is a sagum. Tunic is absent. Mail edging is plain (unfinished). Mistake in detail.

SCENE LXXVII FIGURE 9
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Baldric is absent. Cloak is absent.

SCENE LXXVII FIGURE 10
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is absent.

SCENE LXXVII FIGURE 11
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is absent.

SCENE LXXVII FIGURE 12
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is a sagum. Tunic is absent. Mail edging is plain (unfinished). Mistake in detail.

SCENE LXXVII FIGURE 13
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is a sagum.

SCENE LXXVII FIGURE 14
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Baldric is absent. Cloak is absent.

SCENE LXXVII FIGURE 15
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is a sagum. Tunic is absent. Mail edging is ragged, very small lappets, or fringed. Mistake in detail.

SCENE LXXVII FIGURE 16
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is a sagum.
SCENE LXXVIII  
Deity. Oval shield with wreath blazon.

SCENE LXXIX  
Unidentifiable figure. Bare head. Tunic.

SCENE LXXIX  
Unidentifiable figure. Bare head.

SCENE LXXIX  
Classiarius. Bare head. Tunic.

SCENE LXXIX  
Classiarius. Bare head.

SCENE LXXIX  
Trajan. Bare head. Tunic. Cloak is a sagum.

SCENE LXXIX  
Classiarius. Bare head. Knotted tunic.

SCENE LXXIX  
Classiarius. Bare head. Knotted tunic.

SCENE LXXIX  
Classiarius. Bare head. Knotted tunic.

SCENE LXXIX  
Classiarius. Bare head. Knotted tunic.

SCENE LXXIX  
Classiarius. Bare head. Knotted tunic.

SCENE LXXIX  
Classiarius. Bare head. Knotted tunic.

SCENE LXXIX  
Classiarius. Bare head. Knotted tunic.

SCENE LXXIX  
Classiarius. Bare head. Knotted tunic.
SCENE LXXIX  FIGURE 19  
Classiarius. Bare head. Tunic.

SCENE LXXIX  FIGURE 20  
Classiarius. Bare head.

SCENE LXXIX  FIGURE 21  
Classiarius. Bare head. Knotted tunic.

SCENE LXXIX  FIGURE 22  
Classiarius. Bare head.

SCENE LXXIX  FIGURE 23  
Classiarius. Bare head. Knotted tunic.

SCENE LXXIX  FIGURE 24  
Classiarius. Bare head.

SCENE LXXIX  FIGURE 25  
Classiarius. Bare head. Knotted tunic.

SCENE LXXIX  FIGURE 26  
Classiarius. Bare head.

SCENE LXXIX  FIGURE 27  
Classiarius. Bare head. Knotted tunic.

SCENE LXXIX  FIGURE 28  
Classiarius. Bare head.

SCENE LXXIX  FIGURE 29  
Classiarius. Bare head. Knotted tunic.

SCENE LXXX  FIGURE 1  
Roman civilian. Bare head. Cloak is a sagum.

SCENE LXXX  FIGURE 2  
Roman civilian. Bare head. Cloak is a sagum.

SCENE LXXX  FIGURE 3  
Roman civilian. Bare head. Cloak is a sagum.

SCENE LXXX  FIGURE 4  
Roman civilian. Bare head. Cloak is a sagum.

SCENE LXXX  FIGURE 5  
Roman civilian. Bare head. Cloak is a sagum.

SCENE LXXX  FIGURE 6  
Roman civilian. Bare head. Cloak is a sagum.

SCENE LXXX  FIGURE 7  
Roman civilian. Bare head. Cloak is a sagum.
SCENE LXXX
Roman civilian. Bare head. Cloak is a sagum.

SCENE LXXX
Roman civilian. Bare head. Cloak is a sagum.

SCENE LXXX
Roman civilian. Bare head. Cloak is a sagum.

SCENE LXXX
Roman civilian. Bare head. Cloak is a sagum.

SCENE LXXX
Roman civilian. Bare head. Cloak is a sagum.

SCENE LXXX
Roman civilian. Bare head. Cloak is a sagum.

SCENE LXXX
Unarmoured soldier. Bare head. Tunic.

SCENE XXXX
Unarmoured soldier. Bare head.

SCENE T
Trajan. Bare head. Tunic.

SCENE T
Unarmoured soldier. Bare head.

SCENE T
Unarmoured soldier. Bare head.

SCENE T
Unarmoured soldier. Bare head.

SCENE T
Unarmoured soldier. Bare head.

SCENE T
Unarmoured soldier. Bare head.

SCENE T
Unarmoured soldier. Bare head.

SCENE T
Unarmoured soldier. Bare head.

SCENE T
Roman civilian. Bare head.

SCENE T
Roman civilian. Bare head.

SCENE T
Roman civilian. Bare head.
SCENE LXXXI  FIGURE 16
Roman civilian. Bare head. Tunic.

SCENE LXXXI  FIGURE 17
Roman civilian. Bare head.

SCENE LXXXI  FIGURE 18
Roman civilian. Bare head. Tunic.

SCENE LXXXI  FIGURE 19
Roman civilian. Bare head.

SCENE LXXXI  FIGURE 20
Roman civilian. Bare head. Tunic.

SCENE LXXXI  FIGURE 21
Roman civilian. Bare head.

SCENE LXXXII  FIGURE 1
Classiarius. Bare head.

SCENE LXXXII  FIGURE 2
Classiarius. Bare head. Knotted tunic.

SCENE LXXXII  FIGURE 3
Classiarius. Bare head. Knotted tunic.

SCENE LXXXII  FIGURE 4
Classiarius. Bare head.

SCENE LXXXII  FIGURE 5
Classiarius. Bare head. Knotted tunic.

SCENE LXXXIII  FIGURE 1
Roman civilian. Bare head.

SCENE LXXXIII  FIGURE 2
Roman civilian. Bare head.

SCENE LXXXIII  FIGURE 3
Roman civilian. Bare head.

SCENE LXXXIII  FIGURE 4
Roman civilian. Bare head.

SCENE LXXXIII  FIGURE 5
Roman civilian. Bare head.

SCENE LXXXIII  FIGURE 6
Roman civilian. Bare head.

SCENE LXXXIII  FIGURE 7
Roman civilian. Bare head.
SCENE LXXXIII  FIGURE 8
Roman civilian. Bare head.

SCENE LXXXIII  FIGURE 9
Roman civilian. Bare head.

SCENE LXXXIII  FIGURE 10
Roman civilian. Bare head.

SCENE LXXXIII  FIGURE 11
Roman civilian. Bare head.

SCENE LXXXIII  FIGURE 12
Roman civilian. Bare head.

SCENE LXXXIII  FIGURE 13
Roman civilian. Bare head.

SCENE LXXXIII  FIGURE 14
Roman civilian. Bare head.

SCENE LXXXIII  FIGURE 15
Roman civilian. Bare head.

SCENE LXXXIII  FIGURE 16
Roman civilian. Bare head.

SCENE LXXXIII  FIGURE 17
Roman civilian. Bare head.

SCENE LXXXIII  FIGURE 18
Roman civilian. Bare head.

SCENE LXXXIII  FIGURE 19
Roman civilian. Bare head.

SCENE LXXXIII  FIGURE 20
Roman civilian. Bare head.

SCENE LXXXIII  FIGURE 21
Roman civilian. Bare head.

SCENE LXXXIII  FIGURE 22
Roman civilian. Bare head.

SCENE LXXXIII  FIGURE 23
Roman civilian. Bare head.

SCENE LXXXIII  FIGURE 24
Unarmoured soldier. Bare head.

SCENE LXXXIII  FIGURE 25
Roman civilian. Bare head.

SCENE LXXXIII  FIGURE 26
Roman civilian. Bare head.
SCENE LXXXIII  FIGURE 27
Roman civilian. Bare head.

SCENE LXXXIII  FIGURE 28
Roman civilian. Bare head.

SCENE LXXXIII  FIGURE 29
Roman civilian. Bare head.

SCENE LXXXIII  FIGURE 30
Roman civilian. Bare head.

SCENE LXXXIII  FIGURE 31
Roman civilian. Bare head.

SCENE LXXXIV  FIGURE 1
Unarmoured soldier. Bare head.

SCENE LXXXIV  FIGURE 2
Unarmoured soldier. Bare head. Cloak is a sagum.

SCENE LXXXIV  FIGURE 3
Unarmoured soldier. Bare head. Cloak is a sagum.

SCENE LXXXIV  FIGURE 4
Unarmoured soldier. Bare head. Cloak is a sagum.

SCENE LXXXIV  FIGURE 5
Unarmoured soldier. Bare head. Tunic. Cloak is a sagum.

SCENE LXXXIV  FIGURE 6
Lictor. Bare head. Cloak is a sagum.

SCENE LXXXIV  FIGURE 7
Unarmoured soldier. Bare head. Cloak is a sagum.

SCENE LXXXIV  FIGURE 8
Lictor. Bare head.

SCENE LXXXIV  FIGURE 9
Trajan. Bare head. Tunic. Cloak is a sagum.

SCENE LXXXIV  FIGURE 10
Unarmoured soldier. Bare head. Tunic. Cloak is a sagum.

SCENE LXXXIV  FIGURE 11
Unarmoured soldier. Bare head. Tunic. Cloak is a sagum.

SCENE LXXXIV  FIGURE 12
Unarmoured soldier. Bare head. Cloak is a sagum.

SCENE LXXXIV  FIGURE 13
Unarmoured soldier. Bare head. Tunic. Cloak is a sagum.
SCENE LXXXV FIGURE 1
Unarmoured soldier. Bare head. Toga.

SCENE LXXXV FIGURE 2
Sacrificial attendant. Laureate head. Bare torso.

SCENE LXXXV FIGURE 3
Sacrificial attendant. Laureate head. Bare torso.

SCENE LXXXV FIGURE 4
Unarmoured soldier. Laureate head.

SCENE LXXXV FIGURE 5
Unarmoured soldier. Laureate head.

SCENE LXXXV FIGURE 6
Sacrificial attendant. Bare head. Bare torso.

SCENE LXXXV FIGURE 7
Unarmoured soldier. Laureate head. Toga.

SCENE LXXXV FIGURE 8
Sacrificial attendant. Laureate head. Bare torso.

SCENE LXXXV FIGURE 9
Unarmoured soldier. Laureate head.

SCENE LXXXV FIGURE 10
Unarmoured soldier. Laureate head.

SCENE LXXXV FIGURE 11
Unarmoured soldier. Laureate head.

SCENE LXXXV FIGURE 12
Unarmoured soldier. Laureate head. Tunic. Cloak is a paenula.

SCENE LXXXV FIGURE 13
Unarmoured soldier. Laureate head. Cloak is a paenula.

SCENE LXXXV FIGURE 14
Unarmoured soldier. Laureate head. Cloak is a paenula.

SCENE LXXXV FIGURE 15
Unarmoured soldier. Laureate head. Tunic. Cloak is a paenula.

SCENE LXXXV FIGURE 16
Unarmoured soldier. Laureate head. Cloak is a paenula.

SCENE LXXXV FIGURE 17
Unarmoured soldier. Laureate head. Cloak is a paenula.

SCENE LXXXV FIGURE 18
Unarmoured soldier. Laureate head. Cloak is a paenula.

SCENE LXXXV FIGURE 19
Unarmoured soldier. Laureate head. Tunic. Cloak is a paenula.
SCENE LXXXV
Unarmoured soldier. Laureate head. Cloak is a paenula.

SCENE LXXXV
Unarmoured soldier. Laureate head. Cloak is a paenula.

SCENE LXXXV
Unarmoured soldier. Laureate head.

SCENE LXXXV
Unarmoured soldier. Laureate head. Cloak is a paenula.

SCENE LXXXV

SCENE LXXXV
Unarmoured soldier. Laureate head. Tunic. Cloak is a paenula.

SCENE LXXXV
Unarmoured soldier. Laureate head. Cloak is a paenula.

SCENE LXXXV
Unarmoured soldier. Laureate head. Cloak is a paenula.

SCENE LXXXV

SCENE LXXXVI
Unarmoured soldier. Bare head. Tunic. Apron is present. Sword is present. Cloak is a paenula. Oval shield rear view or obscured. Additional detail on scabbard (suspension details or decoration).

SCENE LXXXVI
Unarmoured soldier. Bare head. Tunic.

SCENE LXXXVI
Unarmoured soldier. Helmet type 33. Tunic. Apron is present. Sword is present. Cloak is a paenula.

SCENE LXXXVI
Unarmoured soldier. Helmet type 33. Tunic. Apron is present. Sword is present. Cloak is a paenula. Oval shield with Roman blazon. Additional detail on scabbard (suspension details or decoration).

SCENE LXXXVI
Standard bearer. Bare head.

SCENE LXXXVI
Standard bearer. Bare head. Tunic. Cloak is a paenula.

SCENE LXXXVI
Standard bearer. Bare head. Tunic. Cloak is a paenula.
SCENE LXXXVI FIGURE 8
Unarmoured soldier. Bare head. Tunic. Cloak is a paenula.

SCENE LXXXVI FIGURE 9
Unarmoured soldier. Bare head. Cloak is a paenula.

SCENE LXXXVI FIGURE 10
Trajan. Bare head. Tunic. Cloak is a sagum.

SCENE LXXXVI FIGURE 11
Unarmoured soldier. Bare head. Tunic. Cloak is a sagum.

SCENE LXXXVI FIGURE 12
Sacrificial attendant. Bare head. Tunic.

SCENE LXXXVI FIGURE 13
Unarmoured soldier. Bare head.

SCENE LXXXVI FIGURE 14
Sacrificial attendant. Bare head.

SCENE LXXXVI FIGURE 15
Sacrificial attendant. Bare head. Bare torso.

SCENE LXXXVI FIGURE 16
Roman civilian. Bare head.

SCENE LXXXVI FIGURE 17
Roman civilian. Bare head.

SCENE LXXXVI FIGURE 18
Roman civilian. Bare head.

SCENE LXXXVI FIGURE 19
Roman civilian. Bare head.

SCENE LXXXVI FIGURE 20
Roman civilian. Bare head.

SCENE LXXXVI FIGURE 21
Roman civilian. Bare head.

SCENE LXXXVI FIGURE 22
Roman civilian. Bare head.

SCENE LXXXVI FIGURE 23
Roman civilian. Bare head.

SCENE LXXXVI FIGURE 24
Roman civilian. Bare head.

SCENE LXXXVI FIGURE 25
Roman civilian. Bare head.
SCENE LXXXVI  
FIGURE 26
Roman civilian. Bare head.

SCENE LXXXVI  
FIGURE 27
Roman civilian. Bare head.

SCENE LXXXVI  
FIGURE 28
Roman civilian. Bare head.

SCENE LXXXVI  
FIGURE 29
Roman civilian. Bare head.

SCENE LXXXVI  
FIGURE 30
Roman civilian. Bare head.

SCENE LXXXVI  
FIGURE 31
Roman civilian. Bare head.

SCENE LXXXVII  
FIGURE 1
Unarmoured soldier. Bare head. Tunic. Cloak is a paenula. Oval shield rear view or obscured.

SCENE LXXXVII  
FIGURE 2
Unarmoured soldier. Bare head. Tunic. Cloak is a paenula. Oval shield is unfinished. Mistake in detail.

SCENE LXXXVII  
FIGURE 3
Unarmoured soldier. Helmet type 33. Cloak is a paenula.

SCENE LXXXVII  
FIGURE 4
Unarmoured soldier. Bare head. Tunic. Sword is absent. Cloak is a paenula. Oval shield rear view or obscured.

SCENE LXXXVII  
FIGURE 5
Unarmoured soldier. Helmet type 33. Tunic. Cloak is a paenula. Oval shield rear view or obscured.

SCENE LXXXVII  
FIGURE 6

SCENE LXXXVII  
FIGURE 7
Unarmoured soldier. Bare head. Cloak is a paenula. Oval shield rear view or obscured.

SCENE LXXXVII  
FIGURE 8
Unarmoured soldier. Bare head.

SCENE LXXXVII  
FIGURE 9
Officer. Bare head. Tunic. Cloak is a fringed sagum.

SCENE LXXXVII  
FIGURE 10
Unarmoured soldier. Bare head. Cloak is a paenula. Oval shield is unfinished. Mistake in detail.
SCENE LXXXVII FIGURE 11
Standard bearer. Bare head.

SCENE LXXXVII FIGURE 12
Officer. Bare head.

SCENE LXXXVII FIGURE 13
Standard bearer. Bare head. Mistake in figure type characteristics.

SCENE LXXXVII FIGURE 14
Trajan. Bare head. Tunic. Cloak is a sagum.

SCENE LXXXVII FIGURE 15
Unarmoured soldier. Bare head. Cloak is a paenula.

SCENE LXXXVII FIGURE 16
Standard bearer. Bare head. Cloak is a paenula.

SCENE LXXXVIII FIGURE 1
Officer. Bare head. Tunic. Cloak is a fringed sagum.

SCENE LXXXVIII FIGURE 2
Standard bearer. Bare head. Tunic. Cloak is a paenula.

SCENE LXXXVIII FIGURE 3
Unarmoured soldier. Bare head. Tunic.

SCENE LXXXVIII FIGURE 4
Unarmoured soldier. Bare head. Tunic. Cloak is a paenula. Oval shield is unfinished. Mistake in detail.

SCENE LXXXVIII FIGURE 5
Unarmoured soldier. Bare head. Tunic. Cloak is a paenula. Oval shield is unfinished. Mistake in detail.

SCENE LXXXVIII FIGURE 6
Unarmoured soldier. Bare head. Cloak is a paenula.

SCENE LXXXVIII FIGURE 7
Unarmoured soldier. Bare head. Tunic. Cloak is a fringed sagum.

SCENE LXXXVIII FIGURE 8
Unarmoured soldier. Bare head. Cloak is a paenula.

SCENE LXXXVIII FIGURE 9
Unarmoured soldier. Bare head. Tunic. Cloak is a paenula.

SCENE LXXXVIII FIGURE 10
Unarmoured soldier. Bare head. Tunic. Cloak is a paenula.

SCENE LXXXIX FIGURE 1
Auxiliary cavalryman. Bare head. Tunic. Baldric is present. Sword is absent. Cloak is a sagum. Oval shield rear view or obscured. Horse harness is practical.
SCENE LXXXIX FIGURE 2
Auxiliary cavalryman. Bare head. Lorica hamata. Sword is present. Cloak is a sagum. Horse harness is practical. Tunic is fringed. Mail edging is ragged, very small lappets, or fringed.

SCENE LXXXIX FIGURE 3
Auxiliary cavalryman. Bare head. Tunic. Baldric is present. Sword is present. Cloak is a sagum. Oval shield rear view or obscured. Horse harness is practical.

SCENE LXXXIX FIGURE 4
Auxiliary cavalryman. Bare head. Lorica hamata. Baldric is absent. Sword is absent. Cloak is a sagum. Oval shield rear view or obscured. Horse harness is practical. Mail edging is ragged, very small lappets, or fringed.

SCENE LXXXIX FIGURE 5
Standard bearer. Bare head. Tunic. Baldric is present. Sword is present. Cloak is a sagum. Oval shield rear view or obscured. Horse harness is impractical.

SCENE LXXXIX FIGURE 6
Auxiliary cavalryman. Bare head. Tunic. Cloak is a sagum. Horse harness is impractical.

SCENE LXXXIX FIGURE 7
Auxiliary cavalryman. Bare head. Tunic. Cloak is a sagum.

SCENE LXXXIX FIGURE 8
Officer. Bare head. Tunic. Cloak is a sagum. Horse harness is practical. Mistake in pose.

SCENE LXXXIX FIGURE 9
Trajan. Bare head. Tunic. Cloak is a sagum. Horse harness is practical. Mistake in pose.

SCENE XC FIGURE 1
Roman civilian. Bare head.

SCENE XC FIGURE 2
Roman civilian. Bare head.

SCENE XC FIGURE 3
Roman civilian. Bare head.

SCENE XC FIGURE 4
Roman civilian. Bare head.

SCENE XC FIGURE 5
Roman civilian. Bare head.

SCENE XC FIGURE 6
Roman civilian. Bare head.

SCENE XC FIGURE 7
Roman civilian. Bare head.
SCENE XC  FIGURE 8
Roman civilian. Bare head.

SCENE XC  FIGURE 9
Roman civilian. Bare head.

SCENE XC  FIGURE 10
Roman civilian. Bare head.

SCENE XC  FIGURE 11
Roman civilian. Bare head.

SCENE XC  FIGURE 12
Roman civilian. Bare head.

SCENE XC  FIGURE 13
Roman civilian. Bare head.

SCENE XC  FIGURE 14
Roman civilian. Bare head.

SCENE XC  FIGURE 15
Roman civilian. Bare head.

SCENE XC  FIGURE 16
Roman civilian. Bare head.

SCENE XCI  FIGURE 1
Sacrificial attendant. Bare head. Tunic.

SCENE XCI  FIGURE 2
Sacrificial attendant. Bare head. Tunic.

SCENE XCI  FIGURE 3
Officer. Bare head. Tunic. Cloak is a sagum.

SCENE XCI  FIGURE 4
Trajan. Bare head. Tunic. Cloak is a sagum.

SCENE XCI  FIGURE 5
Roman civilian. Bare head.

SCENE XCI  FIGURE 6
Roman civilian. Bare head.

SCENE XCI  FIGURE 7
Sacrificial attendant. Bare head.

SCENE XCI  FIGURE 8
Roman civilian. Bare head. Bare torso.

SCENE XCI  FIGURE 9
Roman civilian. Bare head.
SCENE XCI FIGURE 10
Roman civilian. Bare head.

SCENE XCI FIGURE 11
Roman civilian. Bare head.

SCENE XCI FIGURE 12
Roman civilian. Bare head.

SCENE XCI FIGURE 13
Sacrificial attendant. Bare head. Bare torso.

SCENE XCI FIGURE 14
Roman civilian. Bare head.

SCENE XCI FIGURE 15
Roman civilian. Bare head.

SCENE XCI FIGURE 16
Roman civilian. Bare head.

SCENE XCI FIGURE 17
Sacrificial attendant. Bare head. Bare torso.

SCENE XCI FIGURE 18
Roman civilian. Bare head.

SCENE XCI FIGURE 19
Roman civilian. Bare head.

SCENE XCI FIGURE 20
Roman civilian. Bare head.

SCENE XCI FIGURE 21
Roman civilian. Bare head.

SCENE XCI FIGURE 22
Roman civilian. Bare head.

SCENE XCI FIGURE 23
Roman civilian. Bare head.

SCENE XCI FIGURE 24
Sacrificial attendant. Bare head. Bare torso.

SCENE XCI FIGURE 25
Roman civilian. Bare head.

SCENE XCI FIGURE 26
Roman civilian. Bare head.

SCENE XCI FIGURE 27
Roman civilian. Bare head.

SCENE XCII FIGURE 1
Unarmoured soldier. Bare head. Apron is absent.
SCENE XCII  FIGURE 2
Unarmoured soldier. Bare head. Apron is present.

SCENE XCII  FIGURE 3
Unarmoured soldier. Bare head. Knotted tunic. **Cingulum** is present. Apron is present.

SCENE XCII  FIGURE 4
Unarmoured soldier. Bare head. Knotted tunic. Apron is present.

SCENE XCII  FIGURE 5
Unarmoured soldier. Bare head. Apron is present.

SCENE XCII  FIGURE 6
Unarmoured soldier. Bare head. Knotted tunic. **Cingulum** is present. Apron is present. Mistake in pose.

SCENE XCII  FIGURE 7
Unarmoured soldier. Bare head. Knotted tunic.

SCENE XCII  FIGURE 8
Unarmoured soldier. Bare head. Apron is present. Mistake in pose.

SCENE XCII  FIGURE 9
Unarmoured soldier. Bare head. Knotted tunic. Apron is present.

SCENE XCII  FIGURE 10
Unarmoured soldier. Bare head.

SCENE XCII  FIGURE 11
Unarmoured soldier. Bare head. Apron is present.

SCENE XCII  FIGURE 12
Unarmoured soldier. Bare head. Apron is present.

SCENE XCIII  FIGURE 1

SCENE XCIII  FIGURE 2
Dacian. Bare head. Tunic.

SCENE XCIII  FIGURE 3
Dacian. Bare head. Tunic. Cloak is a fringed **sagum**. Oval shield rear view or obscured.

SCENE XCIII  FIGURE 4
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE XCIII  FIGURE 5
Dacian. Bare head.

SCENE XCIII  FIGURE 6
Dacian. Bare head. Tunic.
SCENE XCIII FIGURE 7
Dacian. Bare head. Tunic.

SCENE XCIII FIGURE 8

SCENE XCIII FIGURE 9
Dacian. Bare head. Oval shield is unfinished. Mistake in detail.

SCENE XCIII FIGURE 10

SCENE XCIII FIGURE 11
Dacian. Bare head.

SCENE XCIII FIGURE 12
Dacian. Pilleus.

SCENE XCIII FIGURE 13
Dacian. Bare head.

SCENE XCIII FIGURE 14
Dacian. Bare head. Tunic.

SCENE XCIII FIGURE 15
Dacian. Bare head.

SCENE XCIII FIGURE 16
Dacian. Bare head. Oval shield rear view or obscured.

SCENE XCIII FIGURE 17
Dacian. Bare head. Oval shield rear view or obscured.

SCENE XCIII FIGURE 18
Dacian. Bare head.

SCENE XCIII FIGURE 19
Dacian. Bare head. Oval shield with piles blazon.

SCENE XCIII FIGURE 20
Dacian. Bare head. Oval shield is unfinished. Mistake in detail.

SCENE XCIII FIGURE 21

SCENE XCIII FIGURE 22

SCENE XCIII FIGURE 23
Dacian. Bare head. Tunic.

SCENE XCIII FIGURE 24
Dacian. Bare head. Tunic.
SCENE XCIII  FIGURE 25  

SCENE XCIII  FIGURE 26  

SCENE XCIII  FIGURE 27  

SCENE XCIII  FIGURE 28  
Dacian. Bare head. Tunic.

SCENE XCIII  FIGURE 29  

SCENE XCIII  FIGURE 30  
Dacian. Bare head. Tunic.

SCENE XCIII  FIGURE 31  

SCENE XCIII  FIGURE 32  

SCENE XCIII  FIGURE 33  

SCENE XCIII  FIGURE 34  

SCENE XCIII  FIGURE 35  

SCENE XCIII  FIGURE 36  

SCENE XCIII  FIGURE 37  

SCENE XCIV  FIGURE 1  

SCENE XCIV  FIGURE 2  

SCENE XCIV  FIGURE 3  

SCENE XCIV  FIGURE 4  

SCENE XCIV  FIGURE 5  
Dacian. Bare head. Tunic.
SCENE XCIV  FIGURE 6

SCENE XCIV  FIGURE 7

SCENE XCIV  FIGURE 8

SCENE XCIV  FIGURE 9

SCENE XCIV  FIGURE 10

SCENE XCIV  FIGURE 11

SCENE XCIV  FIGURE 12
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE XCIV  FIGURE 13

SCENE XCIV  FIGURE 14

SCENE XCIV  FIGURE 15

SCENE XCIV  FIGURE 16

SCENE XCIV  FIGURE 17
Auxiliary infantryman. Helmet type 26. Lorica hamata. Mail chiselling is absent. Cloak is absent.


Dacian. Bare head. Tunic. Cloak is a fringed sagum. Oval shield with piles blazon.


Dacian. Bare head. Tunic.

Dacian. Bare head. Tunic. Cloak is a fringed sagum. Oval shield with piles blazon.


Dacian. Bare head. Tunic. Cloak is a fringed sagum. Oval shield with wreath blazon.


Auxiliary infantryman. Helmet type 26. Lorica hamata. Mail chiselling is absent. Cloak is absent.

Dacian. Bare head. Tunic. Cloak is a fringed sagum. Oval shield with piles blazon.
SCENE XCV

FIGURE 8

SCENE XCV

FIGURE 9
Dacian. Bare head. Tunic.

SCENE XCV

FIGURE 10
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE XCV

FIGURE 11

SCENE XCV

FIGURE 12
Citizen figure type. Helmet type 6. 'Lorica segmentata'.

SCENE XCV

FIGURE 13

SCENE XCV

FIGURE 14
Citizen figure type. Helmet type 6. 'Lorica segmentata' type 11. Rectangular shield rear view or obscured.

SCENE XCV

FIGURE 15
Citizen figure type. Helmet type 6. 'Lorica segmentata'. Rectangular shield rear view or obscured.

SCENE XCV

FIGURE 16
Citizen figure type. Helmet type 19.

SCENE XCV

FIGURE 17
Citizen figure type. Helmet type 19.

SCENE XCV

FIGURE 18
Citizen figure type. Helmet type 19.

SCENE XCVI

FIGURE 1

SCENE XCVI

FIGURE 2

SCENE XCVI

FIGURE 3
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE XCVI

FIGURE 4
SCENE XCVI  FIGURE 5

SCENE XCVI  FIGURE 6

SCENE XCVI  FIGURE 7
Citizen figure type. Helmet type 10. 'Lorica segmentata'. Cingulum is absent. Baldric is absent. Sword is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE XCVI  FIGURE 8
Citizen figure type. Helmet type 10. 'Lorica segmentata' type 21. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent. Rectangular shield rear view or obscured.

SCENE XCVI  FIGURE 9
Citizen figure type. Helmet type 10. 'Lorica segmentata'. Cingulum is absent. Baldric is absent.

SCENE XCVI  FIGURE 10
Dacian. Bare head. Tunic.

SCENE XCVI  FIGURE 11
Citizen figure type. Helmet type 10. 'Lorica segmentata'. Cingulum is absent. Baldric is absent.

SCENE XCVII  FIGURE 1
Trajan. Bare head. Muscled cuirass. Cloak is a sagum. Horse harness is impractical. Mistake in detail.

SCENE XCVII  FIGURE 2
Unarmoured soldier. Bare head. Knotted tunic.

SCENE XCVII  FIGURE 3
Auxiliary cavalryman. Helmet type 25. Lorica hamata. Mail chiselling is absent. Baldric is absent. Cloak is a sagum.

SCENE XCVII  FIGURE 4
Unarmoured soldier. Bare head. Knotted tunic. Mail edging is zig-zag.

SCENE XCVII  FIGURE 5

SCENE XCVII  FIGURE 6
Unarmoured soldier. Bare head. Knotted tunic.

SCENE XCVII  FIGURE 7

SCENE XCVII  FIGURE 8
Auxiliary cavalryman. Helmet type 6. Lorica hamata. Mail chiselling is
absent. Cloak is a sagum. Oval shield with wreath blazon.

**SCENE XCVII**

**FIGURE 9**

Unarmoured soldier. Bare head. Knotted tunic.

**SCENE XCVIII**

**FIGURE 1**

Citizen figure type. Bare head. *Lorica segmentata*. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent. Rectangular shield with thunderbolts and wings blazon.

**SCENE XCVIII**

**FIGURE 2**

Citizen figure type. Bare head. *Lorica segmentata*. Cingulum is absent. Baldric is absent. Sword is absent. Rectangular shield with thunderbolts and wings blazon.

**SCENE XCVIII**

**FIGURE 3**

Citizen figure type. Bare head. *Lorica segmentata* type 16. Baldric is absent. Rectangular shield rear view or obscured.

**SCENE XCVIII**

**FIGURE 4**

Citizen figure type. Bare head. *Lorica segmentata*. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent. Rectangular shield with thunderbolts and wings blazon.

**SCENE XCVIII**

**FIGURE 5**

Citizen figure type. Bare head. *Lorica segmentata*. Cingulum is absent. Apron is absent. Sword is absent. Rectangular shield is unfinished. Mistake in detail.

**SCENE XCVIII**

**FIGURE 6**

Citizen figure type. Bare head. *Lorica segmentata* type 16. Baldric is absent. Sword is absent. Rectangular shield rear view or obscured.

**SCENE XCVIII**

**FIGURE 7**

Citizen figure type. Bare head. *Lorica segmentata* type 16. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent. Rectangular shield with tendrils blazon.

**SCENE XCVIII**

**FIGURE 8**

Citizen figure type. Bare head. *Lorica segmentata*. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent. Rectangular shield with thunderbolts and wings blazon.

**SCENE XCVIII**

**FIGURE 9**


**SCENE XCVIII**

**FIGURE 10**

Officer. Bare head. Muscled cuirass. Cloak is a sagum.

**SCENE XCVIII**

**FIGURE 11**


**SCENE XCVIII**

**FIGURE 12**

SCENE XCIX  FIGURE 1
Sacrificial attendant. Bare head. Bare torso.

SCENE XCIX  FIGURE 2
Officer. Bare head. Muscled cuirass. Cloak is a paenula.

SCENE XCIX  FIGURE 3
Sacrificial attendant. Bare head. Tunic.

SCENE XCIX  FIGURE 4
Sacrificial attendant. Bare head. Tunic.

SCENE XCIX  FIGURE 5
Unarmoured soldier. Bare head. Tunic. Cloak is a sagum.

SCENE XCIX  FIGURE 6
Trajan. Bare head. Tunic. Cloak is a paenula.

SCENE XCIX  FIGURE 7
Unarmoured soldier. Bare head. Cloak is a sagum.

SCENE XCIX  FIGURE 8
Unarmoured soldier. Bare head. Tunic. Cloak is a fringed sagum.

SCENE XCIX  FIGURE 9
Unarmoured soldier. Bare head. Cloak is a fringed sagum.

SCENE C  FIGURE 1
Dacian. Flat-topped hat. Tunic.

SCENE C  FIGURE 2
Dacian. Flat-topped hat. Tunic. Cloak is absent.

SCENE C  FIGURE 3
Sarmatian. Bare head. Kaftan.

SCENE C  FIGURE 4
Sarmatian. Bare head. Kaftan.

SCENE C  FIGURE 5
Sarmatian. Bare head. Kaftan.

SCENE C  FIGURE 6
German. Bare torso. Cloak is a fringed sagum.

SCENE C  FIGURE 7
Dacian. Bare head. Tunic.

SCENE C  FIGURE 8
Dacian. Flat-topped hat. Tunic. Cloak is a fringed sagum.

SCENE C  FIGURE 9
Dacian. Bare head.

SCENE C  FIGURE 10
German. Nodus hairstyle. Bare torso. Cloak is a fringed sagum.
SCENE C  FIGURE 11
Dacian. Bare head. Tunic.

SCENE C  FIGURE 12
German. Nodus hairstyle. Bare torso. Cloak is a fringed sagum.

SCENE C  FIGURE 13
German. Nodus hairstyle.

SCENE C  FIGURE 14
German. Nodus hairstyle.

SCENE C  FIGURE 15
Officer. Bare head. Cloak is a sagum.

SCENE C  FIGURE 16
Officer. Bare head. Tunic. Cloak is a sagum.

SCENE C  FIGURE 17
Officer. Bare head. Cloak is a sagum.

SCENE C  FIGURE 18
Trajan. Bare head. Tunic. Cloak is a sagum.

SCENE C  FIGURE 19
Auxiliary infantryman. Helmet type 17. Lorica hamata. Mail chiselling is absent. Cloak is absent.

SCENE C  FIGURE 20
Officer. Bare head. Tunic. Cloak is a sagum.

SCENE C  FIGURE 21
Officer. Bare head. Tunic. Cloak is a fringed sagum.

SCENE C  FIGURE 22

SCENE CI  FIGURE 1
Citizen figure type. 'Lorica segmentata'. Cingulum is present. Apron is present. Rectangular shield rear view or obscured.

SCENE CI  FIGURE 2
Citizen figure type. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is absent. Sword is present. Rectangular shield with thunderbolts and wings blazon.

SCENE CI  FIGURE 3
Citizen figure type. Helmet type 32. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is absent. Sword is present. Rectangular shield with thunderbolts and wings blazon.

SCENE CI  FIGURE 4
Citizen figure type. Helmet type 32. 'Lorica segmentata'. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.
SCENE CI  FIGURE 5
Citizen figure type. Helmet type 32. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is absent. Sword is present. Rectangular shield with thunderbolts and wings blazon.

SCENE CI  FIGURE 6
Citizen figure type. Helmet type 32. 'Lorica segmentata'. Rectangular shield rear view or obscured.

SCENE CI  FIGURE 7
Citizen figure type. Helmet type 32. 'Lorica segmentata'. Cingulum is present. Apron is present. Sword is present. Rectangular shield with thunderbolts and wings blazon.

SCENE CI  FIGURE 8
Citizen figure type. 'Lorica segmentata'. Baldric is absent. Rectangular shield rear view or obscured.

SCENE CI  FIGURE 9
Citizen figure type. Helmet type 32. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is absent. Rectangular shield rear view or obscured.

SCENE CI  FIGURE 10
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Baldric is absent. Sword is present. Rectangular shield with thunderbolts and wings blazon.

SCENE CI  FIGURE 11
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is absent. Apron is absent. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE CI  FIGURE 12
Citizen figure type. Helmet type 32. 'Lorica segmentata'. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE CI  FIGURE 13
Officer. Bare head. Tunic. Cloak is a sagum.

SCENE CI  FIGURE 14
Citizen figure type. Helmet type 32. 'Lorica segmentata' type 23. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE CI  FIGURE 15
Officer. Bare head. Tunic. Cloak is a sagum.

SCENE CI  FIGURE 16
Citizen figure type. Helmet type 32. 'Lorica segmentata' type 24. Cingulum is present. Apron is present. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE CII  FIGURE 1
Auxiliary cavalryman. Bare head. Lorica hamata. Mail chiselling is
absent. Baldric is present. Sword is present. Cloak is absent. Oval shield rear view or obscured. Horse harness is impractical. Tunic is fringed. Mail edging is zig-zag.

SCENE CII FIGURE 2
Auxiliary cavalryman. Bare head. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is absent. Cloak is a sagum. Oval shield rear view or obscured. Horse harness is impractical. Tunic is fringed. Mail edging is zig-zag.

SCENE CII FIGURE 3
Trajan. Bare head. Tunic. Cloak is a sagum. Horse harness is impractical.

SCENE CII FIGURE 4
Sacrificial attendant. Bare head. Tunic.

SCENE CII FIGURE 5
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE CII FIGURE 6
Unidentifiable figure. Bare head.

SCENE CII FIGURE 7
Musician. Animal skin.

SCENE CII FIGURE 8
Citizen figure type. Bare head. 'Lorica segmentata'.

SCENE CII FIGURE 9
Musician. Animal skin.

SCENE CII FIGURE 10
Sacrificial attendant. Bare head. Bare torso.

SCENE CII FIGURE 11
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is absent.

SCENE CII FIGURE 12

SCENE CII FIGURE 13

SCENE CII FIGURE 14
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE CII FIGURE 15

SCENE CII FIGURE 16
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is absent. Baldric is absent. Sword is absent. Rectangular shield rear view or obscured.
SCENE CII  FIGURE 17

SCENE CII  FIGURE 18
Citizen figure type. Bare head. *Lorica segmentata*. Baldric is absent.

SCENE CII  FIGURE 19
Citizen figure type. *Lorica segmentata*. Cingulum is absent. Apron is present. Baldric is absent. Sword is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE CII  FIGURE 20
Citizen figure type. Bare head. *Lorica segmentata*. Rectangular shield rear view or obscured.

SCENE CII  FIGURE 21
Citizen figure type. Bare head. *Lorica segmentata*. Rectangular shield rear view or obscured.

SCENE CII  FIGURE 22
Citizen figure type. Bare head. *Lorica segmentata*.

SCENE CII  FIGURE 23
Citizen figure type. Bare head. *Lorica segmentata*. Apron is present. Baldric is absent. Rectangular shield with wreath blazon.

SCENE CII  FIGURE 24
Citizen figure type. Bare head. *Lorica segmentata* type 11. Baldric is absent.

SCENE CII  FIGURE 25
Citizen figure type. Bare head. *Lorica segmentata* type 11. Baldric is absent.

SCENE CII  FIGURE 26
Citizen figure type. Bare head. *Lorica segmentata*.

SCENE CII  FIGURE 27
Citizen figure type. Bare head. *Lorica segmentata* type 11. Cingulum is absent. Baldric is absent. Sword is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE CII  FIGURE 28
Citizen figure type. Bare head. *Lorica segmentata*. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE CIII  FIGURE 1
Unarmoured soldier. Laureate head. Tunic. Cloak is absent.

SCENE CIII  FIGURE 2
Sacrificial attendant. Laureate head. Bare torso. Cloak is absent.

SCENE CIII  FIGURE 3
Unarmoured soldier. Laureate head. Knotted tunic. Cloak is absent.
SCENE CIII FIGURE 4
Sacrificial attendant. Laureate head. Tunic. Cloak is absent.

SCENE CIII FIGURE 5
Unarmoured soldier. Laureate head. Tunic. Cloak is absent.

SCENE CIII FIGURE 6
Sacrificial attendant. Laureate head. Knotted tunic. Cloak is absent.

SCENE CIII FIGURE 7
Sacrificial attendant. Bare head. Tunic. Cloak is absent.

SCENE CIII FIGURE 8
Sacrificial attendant. Laureate head. Tunic.

SCENE CIII FIGURE 9
Musician. Laureate head. Tunic. Cloak is a sagum.

SCENE CIII FIGURE 10
Sacrificial attendant. Bare head. Tunic.

SCENE CIII FIGURE 11
Unarmoured soldier. Laureate head. Tunic. Cloak is a paenula.

SCENE CIII FIGURE 12
Trajan. Laureate head. Toga.

SCENE CIII FIGURE 13
Musician. Veiled head. Tunic. Cloak is a sagum.

SCENE CIII FIGURE 14
Unarmoured soldier. Laureate head. Tunic. Cloak is a paenula.

SCENE CIII FIGURE 15
Officer. Laureate head. Toga.

SCENE CIII FIGURE 16
Musician. Laureate head. Tunic. Cloak is a fringed sagum.

SCENE CIII FIGURE 17
Unarmoured soldier. Laureate head. Tunic. Cloak is a paenula.

SCENE CIII FIGURE 18
Unarmoured soldier. Laureate head. Tunic. Cloak is a paenula.

SCENE CIII FIGURE 19
Musician. Laureate head. Tunic. Cloak is a fringed sagum.

SCENE CIII FIGURE 20
Unarmoured soldier. Laureate head. Knotted tunic. Cloak is a paenula.

SCENE CIII FIGURE 21
Unarmoured soldier. Laureate head. Knotted tunic. Cloak is absent.

SCENE CIII FIGURE 22
Unarmoured soldier. Laureate head. Knotted tunic. Cloak is absent.
SCENE CIII  
Unarmoured soldier. Laureate head. Knotted tunic. Cloak is absent.

SCENE CIII  
Unarmoured soldier. Laureate head. Tunic. Cloak is absent.

SCENE CIII  
Unarmoured soldier. Laureate head. Knotted tunic. Cloak is absent.

SCENE CIII  
Unarmoured soldier. Laureate head. Knotted tunic. Cloak is absent.

SCENE CIV  
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE CIV  
Lictor. Bare head.

SCENE CIV  
Trajan. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE CIV  
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE CIV  
Citizen figure type. 'Lorica segmentata'.

SCENE CIV  

SCENE CIV  
Citizen figure type. Helmet type 10. 'Lorica segmentata'. Baldric is absent. Rectangular shield rear view or obscured.

SCENE CIV  
Citizen figure type. Helmet type 10. 'Lorica segmentata' type 12. Cingulum is absent. Baldric is absent. Sword is absent. Rectangular shield rear view or obscured.

SCENE CIV  

SCENE CIV  
Citizen figure type. Helmet type 10. 'Lorica segmentata' type 12. Cingulum is absent. Apron is absent. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE CIV  

SCENE CIV  
Citizen figure type. Helmet type 9. 'Lorica segmentata'. Cingulum is absent. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.
SCENE CIV  
Figure 13  

SCENE CIV  
Figure 14  
Citizen figure type. Helmet type 10. 'Lorica segmentata' type 12. Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent. Rectangular shield is unfinished. Mistake in detail.

SCENE CIV  
Figure 15  
Citizen figure type. Helmet type 10. 'Lorica segmentata'. Cingulum is absent. Apron is present. Baldric is absent. Sword is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE CIV  
Figure 16  

SCENE CIV  
Figure 17  
Citizen figure type. Helmet type 10. 'Lorica segmentata' type 12. Baldric is absent. Rectangular shield rear view or obscured.

SCENE CIV  
Figure 18  
Citizen figure type. Helmet type 10. 'Lorica segmentata'. Apron is present. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE CIV  
Figure 19  
Citizen figure type. Helmet type 10. 'Lorica segmentata'. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE CIV  
Figure 20  

SCENE CIV  
Figure 21  
Citizen figure type. Helmet type 10. 'Lorica segmentata'. Rectangular shield with thunderbolts and wings blazon.

SCENE CIV  
Figure 22  
Auxiliary cavalryman. Helmet type 26. Lorica hamata. Mail chiselling is absent. Cloak is a sagum. Oval shield rear view or obscured. Horse harness is impractical. Mail edging is zig-zag.

SCENE CIV  
Figure 23  

SCENE CIV  
Figure 24  

SCENE CIV  
Figure 25  
Citizen figure type. Helmet type 10. 'Lorica segmentata' type 12.
Cingulum is absent. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

**SCENE CIV**  
**FIGURE 26**  

**SCENE CIV**  
**FIGURE 27**  

**SCENE CIV**  
**FIGURE 28**  

**SCENE CIV**  
**FIGURE 29**  

**SCENE CIV**  
**FIGURE 30**  

**SCENE CIV**  
**FIGURE 31**  

**SCENE CIV**  
**FIGURE 32**  

**SCENE CV**  
**FIGURE 1**  
Auxiliary infantryman. Helmet type 25. Lorica hamata. Mail chiselling is absent. Sword is present. Cloak is a sagum. Oval shield rear view or obscured. Mail edging is ragged, very small lappets, or fringed.

**SCENE CV**  
**FIGURE 2**  
Standard bearer. Helmet type 25. Lorica hamata. Mail chiselling is absent. Sword is present. Cloak is a fringed sagum. Oval shield with Roman method of carriage. Mail edging is ragged, very small lappets, or fringed.

**SCENE CV**  
**FIGURE 3**  
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

**SCENE CV**  
**FIGURE 4**  
Trajan. Bare head. Muscled cuirass. Cloak is a sagum.

**SCENE CV**  
**FIGURE 5**  
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is a sagum. Mail edging is ragged, very small lappets, or fringed.
SCENE CV

FIGURE 6
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE CV

FIGURE 7
Auxiliary infantryman. Helmet type 7. Lorica hamata. Mail chiselling is absent. Cloak is a fringed sagum. Oval shield with Roman blazon. Mail edging is ragged, very small lappets, or fringed.

SCENE CV

FIGURE 8
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Baldric is absent. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE CVI

FIGURE 1
Citizen figure type. Bare head. 'Lorica segmentata'. Apron is present. Baldric is present. Sword is present.

SCENE CVI

FIGURE 2
Citizen figure type. Helmet type 26. 'Lorica segmentata'. Cingulum is absent. Apron is absent. Baldric is present. Sword is present. Rectangular shield with thunderbolts and wings blazon.

SCENE CVI

FIGURE 3
Citizen figure type. Helmet type 26. 'Lorica segmentata'. Baldric is absent. Rectangular shield rear view or obscured.

SCENE CVI

FIGURE 4
Citizen figure type. Helmet type 26. 'Lorica segmentata' type 1. Cingulum is present. Baldric is present. Sword is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE CVI

FIGURE 5
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is absent. Mistake in detail.

SCENE CVI

FIGURE 6
Citizen figure type. Helmet type 26. 'Lorica segmentata'. Cingulum is absent. Baldric is absent. Rectangular shield rear view or obscured.

SCENE CVI

FIGURE 7
Citizen figure type. Helmet type 3. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is present. Sword is present. Rectangular shield with thunderbolts and wings blazon. Additional detail on helmet.

SCENE CVI

FIGURE 8
Citizen figure type. Helmet type 26. 'Lorica segmentata' type 18. Baldric is present. Rectangular shield with thunderbolts and wings blazon.

SCENE CVI

FIGURE 9
Citizen figure type. Helmet type 26. 'Lorica segmentata'.

SCENE CVI

FIGURE 10
Citizen figure type. Helmet type 3. 'Lorica segmentata'. Baldric is present. Rectangular shield with thunderbolts and wings blazon.
Additional detail on helmet.

SCENE CVI FIGURE 11
Citizen figure type. Helmet type 26. 'Lorica segmentata'. Cingulum is absent. Baldric is present. Sword is absent. Rectangular shield rear view or obscured.

SCENE CVI FIGURE 12
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE CVI FIGURE 13
Citizen figure type. Helmet type 3. 'Lorica segmentata'. Cingulum is absent. Baldric is present. Rectangular shield with thunderbolts and wings blazon. Additional detail on helmet.

SCENE CVI FIGURE 14
Citizen figure type. Helmet type 3. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is present. Sword is absent. Rectangular shield with thunderbolts and wings blazon. Additional detail on helmet.

SCENE CVI FIGURE 15
Citizen figure type. Helmet type 3. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is present. Sword is present. Rectangular shield with thunderbolts and wings blazon. Additional detail on helmet.

SCENE CVI FIGURE 16
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is present. Rectangular shield is unfinished. Mistake in detail.

SCENE CVI FIGURE 17

SCENE CVI FIGURE 18
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is present. Sword is present. Rectangular shield with thunderbolts and wings blazon.

SCENE CVI FIGURE 19
Citizen figure type. Helmet type 3. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is present. Sword is present. Rectangular shield with thunderbolts and wings blazon. Additional detail on helmet.

SCENE CVI FIGURE 20
Citizen figure type. Bare head. 'Lorica segmentata'. Rectangular shield with thunderbolts and wings blazon.

SCENE CVI FIGURE 21
Citizen figure type. Helmet type 3. 'Lorica segmentata'. Baldric is present. Rectangular shield with thunderbolts and wings blazon. Additional detail on helmet.
SCENE CVI  
**FIGURE 22**
Citizen figure type. Bare head. *Lorica segmentata*. Cingulum is absent. Apron is absent. Baldric is present. Sword is present. Rectangular shield with thunderbolts and wings blazon.

SCENE CVI  
**FIGURE 23**

SCENE CVI  
**FIGURE 24**

SCENE CVI  
**FIGURE 25**

SCENE CVI  
**FIGURE 26**

SCENE CVI  
**FIGURE 27**

SCENE CVI  
**FIGURE 28**
Musician. Animal skin. Lorica hamata. Mail chiselling is absent. Baldric is present. Cloak is absent. Mail edging is ragged, very small lappets, or fringed. Additional detail on baldric.

SCENE CVI  
**FIGURE 29**
Standard bearer. Animal skin. Lorica hamata. Mail chiselling is absent. Baldric is present. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE CVI  
**FIGURE 30**
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE CVI  
**FIGURE 31**
Standard bearer. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is a sagum. Mail edging is ragged, very small lappets, or fringed.

SCENE CVI  
**FIGURE 32**
Citizen figure type. Helmet type 3. Additional detail on helmet.

SCENE CVI  
**FIGURE 33**
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE CVI  
**FIGURE 34**
Standard bearer. Animal skin. Over-tunic. Mail chiselling is absent. Cingulum is present. Apron is present. Sword is absent. Cloak is absent. Mistake in figure type characteristics.
SCENE CVI  
FIGURE 35
Musician. Animal skin. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE CVI  
FIGURE 36
Unidentifiable figure. Animal skin. Lorica hamata. Mail chiselling is absent. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE CVI  
FIGURE 37
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE CVII  
FIGURE 1
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Baldric is present. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE CVII  
FIGURE 2
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is absent. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE CVII  
FIGURE 3
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE CVII  
FIGURE 4
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is a sagum. Oval shield with piles blazon. Mail edging is ragged, very small lappets, or fringed.

SCENE CVII  
FIGURE 5
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE CVII  
FIGURE 6
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Baldric is absent. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE CVIII  
FIGURE 1
Citizen figure type. Bare head. 'Lorica segmentata'.

SCENE CVIII  
FIGURE 2
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is absent.

SCENE CVIII  
FIGURE 3
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is absent.

SCENE CVIII  
FIGURE 4
Auxiliary infantryman. Helmet type 25. Lorica hamata. Mail chiselling
is absent. Cloak is absent.

**SCENE CVIII**  
Figure 5  
Citizen figure type. Bare head. *Lorica segmentata*. Cingulum is present. Apron is present. Baldric is present. Sword is present. Rectangular shield with thunderbolts and wings blazon.

**SCENE CVIII**  
Figure 6  
Auxiliary infantryman. Helmet type 25. *Lorica hamata*. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

**SCENE CVIII**  
Figure 7  
Citizen figure type. Bare head. *Lorica segmentata*.

**SCENE CVIII**  
Figure 8  

**SCENE CVIII**  
Figure 9  
Citizen figure type. Bare head. *Lorica segmentata*. Cingulum is absent. Baldric is present. Sword is absent. Rectangular shield with thunderbolts and wings blazon.

**SCENE CVIII**  
Figure 10  
Auxiliary infantryman. Helmet type 25. *Lorica hamata*. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is absent. Oval shield rear view or obscured. Mail edging is ragged, very small lappets, or fringed.

**SCENE CVIII**  
Figure 11  
Citizen figure type. Bare head. *Lorica segmentata*. Apron is present. Baldric is present.

**SCENE CVIII**  
Figure 12  

**SCENE CVIII**  
Figure 13  
Auxiliary infantryman. Helmet type 25. *Lorica hamata*. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is absent. Oval shield rear view or obscured. Mail edging is ragged, very small lappets, or fringed.

**SCENE CVIII**  
Figure 14  
Citizen figure type. Bare head. *Lorica segmentata*. Cingulum is present. Apron is present. Baldric is present. Sword is present. Rectangular shield with thunderbolts and wings blazon.

**SCENE CVIII**  
Figure 15  
Slinger. Bare head. Tunic. Cloak is a sagum. Oval shield with wreath blazon.

**SCENE CVIII**  
Figure 16  
Citizen figure type. Bare head. *Lorica segmentata*. Cingulum is present. Baldric is present. Sword is present.
SCENE CVIII  FIGURE 17
Citizen figure type. Bare head. 'Lorica segmentata'.

SCENE CVIII  FIGURE 18
Slinger. Bare head. Tunic. Baldric is absent. Sword is absent. Cloak is a sagum. Oval shield with wreath blazon.

SCENE CVIII  FIGURE 19
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is present. Sword is present.

SCENE CVIII  FIGURE 20
Slinger. Bare head. Tunic. Cloak is a sagum.

SCENE CVIII  FIGURE 21
Standard bearer. Animal skin. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is present. Cloak is absent. Mail edging is ragged, very small lappets, or fringed. Mistake in detail.

SCENE CVIII  FIGURE 22
Bare-chested irregular. Bare head. Bare torso. Baldric is present. Sword is present. Mistake in detail.

SCENE CVIII  FIGURE 23
Standard bearer. Animal skin. Over-tunic. Mail chiselling is present on cast. Cingulum is present. Apron is present. Sword is present. Cloak is absent. Mistake in figure type characteristics.

SCENE CVIII  FIGURE 24
Bare-chested irregular. Bare head. Bare torso. Baldric is absent. Mistake in detail.

SCENE CVIII  FIGURE 25
Standard bearer. Bare head. Lorica hamata. Mail chiselling is absent. Sword is present. Cloak is a sagum. Mail edging is ragged, very small lappets, or fringed.

SCENE CVIII  FIGURE 26
Bare-chested irregular. Bare head. Bare torso. Baldric is present. Sword is present. Oval shield with Roman method of carriage.

SCENE CVIII  FIGURE 27
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE CVIII  FIGURE 28
Archer. Helmet type 29. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present.

SCENE CVIII  FIGURE 29
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE CVIII  FIGURE 30
Archer. Helmet type 29. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Mail edging is ragged, very small
lappets, or fringed.

SCENE CVIII  FIGURE 31
Archer. Helmet type 29. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Mail edging is ragged, very small lappets, or fringed.

SCENE CIX  FIGURE 1
Unidentifiable figure. Animal skin. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is absent. Mail edging is ragged, very small lappets, or fringed. Mistake in detail.

SCENE CIX  FIGURE 2
Musician. Animal skin. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE CIX  FIGURE 3
Officer. Bare head. Muscled cuirass. Cloak is a fringed sagum.

SCENE CIX  FIGURE 4
Auxiliary infantryman. Helmet type 19. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is a sagum. Oval shield with palmettes blazon. Mail edging is ragged, very small lappets, or fringed.

SCENE CIX  FIGURE 5
Citizen figure type. Bare head. "Lorica segmentata". Cingulum is absent. Baldric is absent. Sword is absent.

SCENE CX  FIGURE 1
Citizen figure type. Bare head. "Lorica segmentata" type 11. Cingulum is absent. Baldric is present. Sword is present.

SCENE CX  FIGURE 2
Citizen figure type. Bare head. "Lorica segmentata". Cingulum is present. Apron is present.

SCENE CX  FIGURE 3
Citizen figure type. Bare head. "Lorica segmentata". Cingulum is present. Apron is present. Baldric is present. Sword is present.

SCENE CX  FIGURE 4
Citizen figure type. Bare head. "Lorica segmentata" type 11. Cingulum is present. Apron is present. Baldric is present. Sword is present.

SCENE CX  FIGURE 5
Citizen figure type. Bare head. "Lorica segmentata". Baldric is absent.

SCENE CX  FIGURE 6
Citizen figure type. Bare head. "Lorica segmentata" type 11. Cingulum is present. Baldric is present. Sword is present.

SCENE CX  FIGURE 7
Citizen figure type. Bare head. "Lorica segmentata" type 11. Cingulum is present. Apron is present. Baldric is present. Sword is present.
SCENE CXI  FIGURE 1
Auxiliary infantryman. Helmet type 7. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is present. Cloak is a fringed sagum. Oval shield with Hellenistic method of carriage. Mail edging is ragged, very small lappets, or fringed.

SCENE CXI  FIGURE 2
Auxiliary infantryman. Helmet type 7. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Sword is present. Cloak is a fringed sagum. Mail edging is ragged, very small lappets, or fringed.

SCENE CXI  FIGURE 3
Auxiliary infantryman. Helmet type 7. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is a fringed sagum. Oval shield is unfinished. Mail edging is ragged, very small lappets, or fringed.

SCENE CXI  FIGURE 4
Dacian. Bare head. Tunic. Cloak is a fringed sagum. Oval shield with tendrils blazon.

SCENE CXI  FIGURE 5
Dacian. Bare head.

SCENE CXI  FIGURE 6

SCENE CXI  FIGURE 7

SCENE CXI  FIGURE 8
Dacian. Bare head. Tunic. Cloak is a fringed sagum.

SCENE CXI  FIGURE 9
Dacian. Bare head. Tunic. Cloak is a fringed sagum. Oval shield with palmettes blazon.

SCENE CXI  FIGURE 10

SCENE CXI  FIGURE 11
Dacian. Bare head. Oval shield with piles blazon.

SCENE CXI  FIGURE 12

SCENE CXI  FIGURE 13
Dacian. Pilleus. Tunic. Cloak is a fringed sagum.

SCENE CXI  FIGURE 14
SCENE CXI  FIGURE 15  
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE CXII  FIGURE 1  
Dacian. Bare head. Tunic.

SCENE CXII  FIGURE 2  

SCENE CXII  FIGURE 3  
Dacian. Bare head. Tunic.

SCENE CXII  FIGURE 4  

SCENE CXII  FIGURE 5  
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is present. Cloak is a fringed sagum. Oval shield with Roman blazon. Tunic is absent. Mail edging is plain (unfinished). Mistake in figure type characteristics.

SCENE CXII  FIGURE 6  

SCENE CXII  FIGURE 7  
Dacian. Bare head. Tunic.

SCENE CXII  FIGURE 8  

SCENE CXII  FIGURE 9  

SCENE CXII  FIGURE 10  

SCENE CXII  FIGURE 11  

SCENE CXII  FIGURE 12  
Dacian. Bare head. Tunic.

SCENE CXII  FIGURE 13  

SCENE CXII  FIGURE 14  
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE CXII  FIGURE 15  
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is present. Cloak is
a fringed sagum. Mail edging is plain (unfinished). Mistake in figure type characteristics.

SCENE CXII  FIGURE 16
Dacian. Bare head. Tunic.

SCENE CXII  FIGURE 17
Dacian. Bare head. Tunic. Cloak is a fringed sagum. Oval shield with piles blazon.

SCENE CXII  FIGURE 18
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE CXIII  FIGURE 1
Auxiliary infantryman. Helmet type 23. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Cloak is a fringed sagum. Oval shield with palmettes blazon. Mail edging is ragged, very small lappets, or fringed. Additional detail on helmet.

SCENE CXIII  FIGURE 2

SCENE CXIII  FIGURE 3
Standard bearer. Animal skin. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is present. Cloak is absent. Mail edging is ragged, very small lappets, or fringed. Mistake in detail.

SCENE CIV  FIGURE 7

SCENE CIV  FIGURE 8
Citizen figure type. Helmet type 10. Lorica segmentata type 12. Cingulum is absent. Baldric is absent. Sword is absent. Rectangular shield rear view or obscured.

SCENE CIV  FIGURE 9

SCENE CIV  FIGURE 10

SCENE CIV  FIGURE 11

SCENE CIV  FIGURE 12
SCENE CIV  
FIGURE 13  

SCENE CIV  
FIGURE 14  
Citizen figure type. Helmet type 10. 'Lorica segmentata' type 12.  
Cingulum is absent. Apron is absent. Baldric is absent. Sword is absent. Rectangular shield is unfinished. Mistake in detail.

SCENE CIV  
FIGURE 15  
Citizen figure type. Helmet type 10. 'Lorica segmentata'. Cingulum is absent. Apron is present. Baldric is absent. Sword is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE CIV  
FIGURE 16  
Citizen figure type. Helmet type 10. 'Lorica segmentata' type 12.  
Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE CIV  
FIGURE 17  
Citizen figure type. Helmet type 10. 'Lorica segmentata' type 12.  
Baldric is absent. Rectangular shield rear view or obscured.

SCENE CIV  
FIGURE 18  
Citizen figure type. Helmet type 10. 'Lorica segmentata'. Apron is present. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE CIV  
FIGURE 19  
Citizen figure type. Helmet type 10. 'Lorica segmentata'. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE CIV  
FIGURE 20  
Citizen figure type. Helmet type 10. 'Lorica segmentata' type 12.  
Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE CIV  
FIGURE 21  
Citizen figure type. Helmet type 10. 'Lorica segmentata'. Rectangular shield with thunderbolts and wings blazon.

SCENE CIV  
FIGURE 22  
Auxiliary cavalryman. Helmet type 26. Lorica hamata. Mail chiselling is absent. Cloak is a sagum. Oval shield rear view or obscured. Horse harness is impractical. Mail edging is zig-zag.

SCENE CIV  
FIGURE 23  
Citizen figure type. Helmet type 10. 'Lorica segmentata' type 12.  
Baldric is absent. Rectangular shield is unfinished. Mistake in detail.

SCENE CIV  
FIGURE 24  
Citizen figure type. Helmet type 10. 'Lorica segmentata' type 12.  
Cingulum is absent. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE CIV  
FIGURE 25  
Citizen figure type. Helmet type 10. 'Lorica segmentata' type 12.
Cingulum is absent. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

**SCENE CIV**  
**FIGURE 26**  

**SCENE CIV**  
**FIGURE 27**  

**SCENE CIV**  
**FIGURE 28**  

**SCENE CIV**  
**FIGURE 29**  

**SCENE CIV**  
**FIGURE 30**  

**SCENE CIV**  
**FIGURE 31**  

**SCENE CIV**  
**FIGURE 32**  

**SCENE CV**  
**FIGURE 1**  
Auxiliary infantryman. Helmet type 25. Lorica hamata. Mail chiselling is absent. Sword is present. Cloak is a sagum. Oval shield rear view or obscured. Mail edging is ragged, very small lappets, or fringed.

**SCENE CV**  
**FIGURE 2**  
Standard bearer. Helmet type 25. Lorica hamata. Mail chiselling is absent. Sword is present. Cloak is a fringed sagum. Oval shield with Roman method of carriage. Mail edging is ragged, very small lappets, or fringed.

**SCENE CV**  
**FIGURE 3**  
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

**SCENE CV**  
**FIGURE 4**  
Trajan. Bare head. Muscled cuirass. Cloak is a sagum.

**SCENE CV**  
**FIGURE 5**  
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is a sagum. Mail edging is ragged, very small lappets, or fringed.
SCENE CV 
FIGURE 6
Officer. Bare head. Muscled cuirass. Cloak is a *sagum*.

SCENE CV 
FIGURE 7
Auxiliary infantryman. Helmet type 7. *Lorica hamata*. Mail chiselling is absent. Cloak is a fringed *sagum*. Oval shield with Roman blazon. Mail edging is ragged, very small lappets, or fringed.

SCENE CV 
FIGURE 8
Auxiliary infantryman. Bare head. *Lorica hamata*. Mail chiselling is absent. Baldric is absent. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE CVI 
FIGURE 1
Citizen figure type. Bare head. *Lorica segmentata*. Apron is present. Baldric is present. Sword is present.

SCENE CVI 
FIGURE 2

SCENE CVI 
FIGURE 3

SCENE CVI 
FIGURE 4

SCENE CVI 
FIGURE 5
Citizen figure type. Bare head. *Lorica segmentata*. Baldric is absent. Mistake in detail.

SCENE CVI 
FIGURE 6

SCENE CVI 
FIGURE 7

SCENE CVI 
FIGURE 8

SCENE CVI 
FIGURE 9

SCENE CVI 
FIGURE 10
Additional detail on helmet.

Scene CVI  Figure 11
Citizen figure type. Helmet type 26. 'Lorica segmentata'. Cingulum is absent. Baldric is present. Sword is absent. Rectangular shield rear view or obscured.

Scene CVI  Figure 12
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

Scene CVI  Figure 13
Citizen figure type. Helmet type 3. 'Lorica segmentata'. Cingulum is absent. Baldric is present. Rectangular shield with thunderbolts and wings blazon. Additional detail on helmet.

Scene CVI  Figure 14
Citizen figure type. Helmet type 3. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is present. Sword is absent. Rectangular shield with thunderbolts and wings blazon. Additional detail on helmet.

Scene CVI  Figure 15
Citizen figure type. Helmet type 3. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is present. Sword is present. Rectangular shield with thunderbolts and wings blazon. Additional detail on helmet.

Scene CVI  Figure 16
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is present. Rectangular shield is unfinished. Mistake in detail.

Scene CVI  Figure 17

Scene CVI  Figure 18
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is present. Sword is present. Rectangular shield with thunderbolts and wings blazon.

Scene CVI  Figure 19
Citizen figure type. Helmet type 3. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is present. Sword is present. Rectangular shield with thunderbolts and wings blazon. Additional detail on helmet.

Scene CVI  Figure 20
Citizen figure type. Bare head. 'Lorica segmentata'. Rectangular shield with thunderbolts and wings blazon.

Scene CVI  Figure 21
Citizen figure type. Helmet type 3. 'Lorica segmentata'. Baldric is present. Rectangular shield with thunderbolts and wings blazon. Additional detail on helmet.
SCENE CVI

FIGURE 22
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is absent. Apron is absent. Baldric is present. Sword is present. Rectangular shield with thunderbolts and wings blazon.

FIGURE 23
Citizen figure type. Helmet type 3. 'Lorica segmentata'. Cingulum is absent. Baldric is present. Sword is present. Rectangular shield with thunderbolts and wings blazon. Additional detail on helmet.

FIGURE 24
Citizen figure type. Helmet type 3. 'Lorica segmentata'. Baldric is absent. Additional detail on helmet.

FIGURE 25

FIGURE 26
Citizen figure type. Helmet type 3. 'Lorica segmentata'. Apron is present. Baldric is absent. Rectangular shield with thunderbolts and wings blazon. Additional detail on helmet.

FIGURE 27
Citizen figure type. Helmet type 3. 'Lorica segmentata'. Additional detail on helmet.

FIGURE 28
Musician. Animal skin. Lorica hamata. Mail chiselling is absent. Baldric is present. Cloak is absent. Mail edging is ragged, very small lappets, or fringed. Additional detail on baldric.

FIGURE 29
Standard bearer. Animal skin. Lorica hamata. Mail chiselling is absent. Baldric is present. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

FIGURE 30
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

FIGURE 31
Standard bearer. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is a sagum. Mail edging is ragged, very small lappets, or fringed.

FIGURE 32
Citizen figure type. Helmet type 3. Additional detail on helmet.

FIGURE 33
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

FIGURE 34
Standard bearer. Animal skin. Over-tunic. Mail chiselling is absent. Cingulum is present. Apron is present. Sword is absent. Cloak is absent. Mistake in figure type characteristics.
SCENE CVI  FIGURE 35
Musician. Animal skin. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE CVI  FIGURE 36
Unidentifiable figure. Animal skin. Lorica hamata. Mail chiselling is absent. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE CVI  FIGURE 37
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE CVII  FIGURE 1
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Baldric is present. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE CVII  FIGURE 2
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is absent. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE CVII  FIGURE 3
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE CVII  FIGURE 4
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is a sagum. Oval shield with piles blazon. Mail edging is ragged, very small lappets, or fringed.

SCENE CVII  FIGURE 5
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE CVII  FIGURE 6
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Baldric is absent. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE CVIII  FIGURE 1
Citizen figure type. Bare head. 'Lorica segmentata'.

SCENE CVIII  FIGURE 2
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is absent.

SCENE CVIII  FIGURE 3
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is absent.

SCENE CVIII  FIGURE 4
Auxiliary infantryman. Helmet type 25. Lorica hamata. Mail chiselling
is absent. Cloak is absent.

SCENE CVIII FIGURE 5  
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is present. Sword is present. Rectangular shield with thunderbolts and wings blazon.

SCENE CVIII FIGURE 6  
Auxiliary infantryman. Helmet type 25. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE CVIII FIGURE 7  
Citizen figure type. Bare head. 'Lorica segmentata'.

SCENE CVIII FIGURE 8  
Auxiliary infantryman. Helmet type 25. Lorica hamata. Mail chiselling is absent. Cloak is absent.

SCENE CVIII FIGURE 9  
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is absent. Baldric is present. Sword is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE CVIII FIGURE 10  
Auxiliary infantryman. Helmet type 25. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is absent. Oval shield rear view or obscured. Mail edging is ragged, very small lappets, or fringed.

SCENE CVIII FIGURE 11  
Citizen figure type. Bare head. 'Lorica segmentata'. Apron is present. Baldric is present.

SCENE CVIII FIGURE 12  
Auxiliary infantryman. Helmet type 25. Lorica hamata. Mail chiselling is absent. Cloak is absent.

SCENE CVIII FIGURE 13  
Auxiliary infantryman. Helmet type 25. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Oval shield rear view or obscured. Mail edging is ragged, very small lappets, or fringed.

SCENE CVIII FIGURE 14  
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is present. Sword is present. Rectangular shield with thunderbolts and wings blazon.

SCENE CVIII FIGURE 15  
Slinger. Bare head. Tunic. Cloak is a sagum. Oval shield with wreath blazon.

SCENE CVIII FIGURE 16  
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Baldric is present. Sword is present.
SCENE CVIII  FIGURE 17
Citizen figure type. Bare head. *Lorica segmentata*.

SCENE CVIII  FIGURE 18
Slinger. Bare head. Tunic. Baldric is absent. Sword is absent. Cloak is a *sagum*. Oval shield with wreath blazon.

SCENE CVIII  FIGURE 19
Citizen figure type. Bare head. *Lorica segmentata*. Cingulum is present. Apron is present. Baldric is present. Sword is present.

SCENE CVIII  FIGURE 20
Slinger. Bare head. Tunic. Cloak is a *sagum*.

SCENE CVIII  FIGURE 21
Standard bearer. Animal skin. *Lorica hamata*. Mail chiselling is surviving on the shaft. Baldric is present. Sword is present. Cloak is absent. Mail edging is ragged, very small lappets, or fringed. Mistake in detail.

SCENE CVIII  FIGURE 22
Bare-chested irregular. Bare head. Bare torso. Baldric is present. Sword is present. Mistake in detail.

SCENE CVIII  FIGURE 23
Standard bearer. Animal skin. Over-tunic. Mail chiselling is present on cast. Cingulum is present. Apron is present. Sword is present. Cloak is absent. Mistake in figure type characteristics.

SCENE CVIII  FIGURE 24
Bare-chested irregular. Bare head. Bare torso. Baldric is absent. Mistake in detail.

SCENE CVIII  FIGURE 25
Standard bearer. Bare head. *Lorica hamata*. Mail chiselling is absent. Sword is present. Cloak is a *sagum*. Mail edging is ragged, very small lappets, or fringed.

SCENE CVIII  FIGURE 26
Bare-chested irregular. Bare head. Bare torso. Baldric is present. Sword is present. Oval shield with Roman method of carriage.

SCENE CVIII  FIGURE 27
Officer. Bare head. Muscled cuirass. Cloak is a *sagum*.

SCENE CVIII  FIGURE 28
Archer. Helmet type 29. *Lorica hamata*. Mail chiselling is absent. Baldric is present. Sword is present.

SCENE CVIII  FIGURE 29
Officer. Bare head. Muscled cuirass. Cloak is a *sagum*.

SCENE CVIII  FIGURE 30
Archer. Helmet type 29. *Lorica hamata*. Mail chiselling is absent. Baldric is present. Sword is present. Mail edging is ragged, very small...
lappets, or fringed.

**SCENE CVIII** **FIGURE 31**
Archer. Helmet type 29. *Lorica hamata*. Mail chiselling is absent. Baldric is present. Sword is present. Mail edging is ragged, very small lappets, or fringed.

**SCENE CIX** **FIGURE 1**
Unidentifiable figure. Animal skin. *Lorica hamata*. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is absent. Mail edging is ragged, very small lappets, or fringed. Mistake in detail.

**SCENE CIX** **FIGURE 2**
Musician. Animal skin. *Lorica hamata*. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

**SCENE CIX** **FIGURE 3**
Officer. Bare head. Muscled cuirass. Cloak is a fringed *sagum*.

**SCENE CIX** **FIGURE 4**
Auxiliary infantryman. Helmet type 19. *Lorica hamata*. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is a *sagum*. Oval shield with palmettes blazon. Mail edging is ragged, very small lappets, or fringed.

**SCENE CIX** **FIGURE 5**
Citizen figure type. Bare head. *Lorica segmentata*. Cingulum is absent. Baldric is absent. Sword is absent.

**SCENE CX** **FIGURE 1**
Citizen figure type. Bare head. *Lorica segmentata* type 11. Cingulum is absent. Baldric is present. Sword is present.

**SCENE CX** **FIGURE 2**
Citizen figure type. Bare head. *Lorica segmentata*. Cingulum is present. Apron is present.

**SCENE CX** **FIGURE 3**
Citizen figure type. Bare head. *Lorica segmentata*. Cingulum is present. Apron is present. Baldric is present. Sword is present.

**SCENE CX** **FIGURE 4**
Citizen figure type. Bare head. *Lorica segmentata* type 11. Cingulum is present. Apron is present. Baldric is present. Sword is present.

**SCENE CX** **FIGURE 5**
Citizen figure type. Bare head. *Lorica segmentata*. Cingulum is present. Baldric is absent.

**SCENE CX** **FIGURE 6**
Citizen figure type. Bare head. *Lorica segmentata* type 11. Cingulum is present. Baldric is present. Sword is present.

**SCENE CX** **FIGURE 7**
Citizen figure type. Bare head. *Lorica segmentata* type 11. Cingulum is present. Apron is present. Baldric is present. Sword is present.
SCENE CXI  FIGURE 1
Auxiliary infantryman. Helmet type 7. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is present. Cloak is a fringed sagum. Oval shield with Hellenistic method of carriage. Mail edging is ragged, very small lappets, or fringed.

SCENE CXI  FIGURE 2
Auxiliary infantryman. Helmet type 7. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Sword is present. Cloak is a fringed sagum. Mail edging is ragged, very small lappets, or fringed.

SCENE CXI  FIGURE 3
Auxiliary infantryman. Helmet type 7. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is a fringed sagum. Oval shield is unfinished. Mail edging is ragged, very small lappets, or fringed.

SCENE CXI  FIGURE 4
Dacian. Bare head. Tunic. Cloak is a fringed sagum. Oval shield with tendrils blazon.

SCENE CXI  FIGURE 5
Dacian. Bare head.

SCENE CXI  FIGURE 6

SCENE CXI  FIGURE 7

SCENE CXI  FIGURE 8
Dacian. Bare head. Tunic. Cloak is a fringed sagum.

SCENE CXI  FIGURE 9
Dacian. Bare head. Tunic. Cloak is a fringed sagum. Oval shield with palmettes blazon.

SCENE CXI  FIGURE 10

SCENE CXI  FIGURE 11
Dacian. Bare head. Oval shield with piles blazon.

SCENE CXI  FIGURE 12

SCENE CXI  FIGURE 13
Dacian. Pilleus. Tunic. Cloak is a fringed sagum.

SCENE CXI  FIGURE 14
SCENE CXI  
**FIGURE 15**  
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE CXII  
**FIGURE 1**  
Dacian. Bare head. Tunic.

SCENE CXII  
**FIGURE 2**  

SCENE CXII  
**FIGURE 3**  
Dacian. Bare head. Tunic.

SCENE CXII  
**FIGURE 4**  

SCENE CXII  
**FIGURE 5**  
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is present. Cloak is a fringed sagum. Oval shield with Roman blazon. Tunic is absent. Mail edging is plain (unfinished). Mistake in figure type characteristics.

SCENE CXII  
**FIGURE 6**  

SCENE CXII  
**FIGURE 7**  
Dacian. Bare head. Tunic.

SCENE CXII  
**FIGURE 8**  

SCENE CXII  
**FIGURE 9**  

SCENE CXII  
**FIGURE 10**  

SCENE CXII  
**FIGURE 11**  

SCENE CXII  
**FIGURE 12**  
Dacian. Bare head. Tunic.

SCENE CXII  
**FIGURE 13**  

SCENE CXII  
**FIGURE 14**  
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE CXII  
**FIGURE 15**  
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is present. Cloak is
a fringed sagum. Mail edging is plain (unfinished). Mistake in figure type characteristics.

SCENE CXII  FIGURE 16
Dacian. Bare head. Tunic.

SCENE CXII  FIGURE 17
Dacian. Bare head. Tunic. Cloak is a fringed sagum. Oval shield with piles blazon.

SCENE CXII  FIGURE 18
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE CXIII  FIGURE 1
Auxiliary infantryman. Helmet type 23. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Cloak is a fringed sagum. Oval shield with palmettes blazon. Mail edging is ragged, very small lappets, or fringed. Additional detail on helmet.

SCENE CXIII  FIGURE 2
Auxiliary infantryman. Helmet type 21. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Cloak is a sagum. Oval shield with wreath blazon. Mail edging is ragged, very small lappets, or fringed. Additional detail on helmet.

SCENE CXIII  FIGURE 3
Standard bearer. Animal skin. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is present. Cloak is absent. Mail edging is ragged, very small lappets, or fringed. Mistake in detail.

SCENE CXIII  FIGURE 4
Standard bearer. Animal skin. Lorica hamata. Mail chiselling is surviving on the shaft. Cloak is absent. Mail edging is ragged, very small lappets, or fringed. Mistake in detail.

SCENE CXIII  FIGURE 5
Auxiliary infantryman. Helmet type 4. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is present. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE CXIII  FIGURE 6
Auxiliary infantryman. Helmet type 7. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Sword is present. Mail edging is ragged, very small lappets, or fringed.

SCENE CXIII  FIGURE 7

SCENE CXIII  FIGURE 8
Auxiliary infantryman. Helmet type 4. Lorica hamata. Mail chiselling is absent. Cloak is absent.

SCENE CXIII  FIGURE 9
Citizen figure type. Helmet type 31. Lorica segmentata. Cingulum is
absent. Baldric is present. Sword is absent. Rectangular shield with Roman method of carriage.

**SCENE CXIII**
**FIGURE 10**
Slinger. Bare head. Tunic. Baldric is absent. Sword is absent. Cloak is a *sagum*.

**SCENE CXIII**
**FIGURE 11**
Dacian. Bare head. Tunic.

**SCENE CXIII**
**FIGURE 12**
Slinger. Bare head. Tunic. Cloak is a *sagum*.

**SCENE CXIII**
**FIGURE 13**
Dacian. Bare head. Tunic.

**SCENE CXIII**
**FIGURE 14**
Auxiliary infantryman. Helmet type 22. *Lorica hamata*. Mail chiselling is present on cast. Baldric is present. Sword is absent. Oval shield with tendrils blazon. Mail edging is ragged, very small lappets, or fringed.

**SCENE CXIII**
**FIGURE 15**

**SCENE CXIII**
**FIGURE 16**
Citizen figure type. Helmet type 22. *'Lorica segmentata'* . Cingulum is absent. Baldric is present. Rectangular shield with thunderbolts and wings blazon.

**SCENE CXIII**
**FIGURE 17**

**SCENE CXIII**
**FIGURE 18**
Auxiliary infantryman. Helmet type 22. *Lorica hamata*. Mail chiselling is present on cast. Baldric is present. Sword is absent. Cloak is absent. Oval shield is unfinished. Mistake in detail.

**SCENE CXIII**
**FIGURE 19**

**SCENE CXIII**
**FIGURE 20**
Auxiliary infantryman. Helmet type 31. *Lorica hamata*. Mail chiselling is present on cast. Baldric is present. Sword is present. Cloak is a *sagum*. Oval shield with Hellenistic method of carriage. Mail edging is ragged, very small lappets, or fringed.

**SCENE CXIII**
**FIGURE 21**
Dacian. Bare head. Tunic.

**SCENE CXIII**
**FIGURE 22**
Dacian. Bare head. Tunic. Oval shield rear view or obscured.
SCENE CXIII  FIGURE 23
Slinger. Bare head. Tunic. Cloak is a sagum.

SCENE CXIII  FIGURE 24
Dacian. Bare head. Tunic.

SCENE CXIII  FIGURE 25

SCENE CXIII  FIGURE 26
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE CXIII  FIGURE 27
Dacian. Bare head. Tunic.

SCENE CXIII  FIGURE 28

SCENE CXIII  FIGURE 29
Dacian. Bare head.

SCENE CXIII  FIGURE 30

SCENE CXIII  FIGURE 31
Dacian. Bare head. Oval shield rear view or obscured.

SCENE CXIII  FIGURE 32
Dacian. Bare head. Oval shield with piles blazon.

SCENE CXIV  FIGURE 1
Auxiliary infantryman. Helmet type 7. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Cloak is a fringed sagum. Oval shield with small motifs. Mail edging is ragged, very small lappets, or fringed.

SCENE CXIV  FIGURE 2
Auxiliary infantryman. Helmet type 12. Lorica hamata. Mail chiselling is absent. Cloak is absent.

SCENE CXIV  FIGURE 3
Officer. Bare head. Muscled cuirass. Cloak is a fringed sagum.

SCENE CXIV  FIGURE 4
Trajan. Bare head. Muscled cuirass. Sword is present. Cloak is a sagum.

SCENE CXIV  FIGURE 5
Auxiliary infantryman. Helmet type 12. Lorica hamata. Mail chiselling is absent. Cloak is absent.

SCENE CXIV  FIGURE 6
Officer. Bare head. Muscled cuirass.
SCENE CXIV  FIGURE 7

SCENE CXIV  FIGURE 8
Auxiliary infantryman. Helmet type 15. *Lorica hamata*. Mail chiselling is present on cast. Cloak is a fringed *sagum*. Oval shield rear view or obscured. Mail edging is ragged, very small lappets, or fringed.

SCENE CXIV  FIGURE 9

SCENE CXIV  FIGURE 10
Citizen figure type. Helmet type 15. *Lorica segmentata* type 5. Apron is present. Baldric is present.

SCENE CXIV  FIGURE 11
Auxiliary infantryman. Helmet type 15. *Lorica hamata*. Mail chiselling is absent. Baldric is present. Cloak is absent.

SCENE CXIV  FIGURE 12

SCENE CXIV  FIGURE 13
Auxiliary infantryman. Helmet type 12. *Lorica hamata*. Mail chiselling is present on cast. Cloak is absent. Mail edging is shallow and rounded lappets.

SCENE CXIV  FIGURE 14
Auxiliary infantryman. Helmet type 12. *Lorica hamata*. Mail chiselling is present on cast. Baldric is present. Cloak is absent. Oval shield rear view or obscured. Mail edging is shallow and rounded lappets.

SCENE CXIV  FIGURE 15

SCENE CXIV  FIGURE 16

SCENE CXIV  FIGURE 17

SCENE CXV  FIGURE 1
SCENE CXV  FIGURE 2
Archer. Helmet type 29. Lorica squamata. Baldric is present. Sword is present. Mail edging is ragged, very small lappets, or fringed.

SCENE CXV  FIGURE 3

SCENE CXV  FIGURE 4
Archer. Helmet type 29. Lorica squamata. Baldric is present. Sword is present.

SCENE CXV  FIGURE 5
Archer. Helmet type 29. Lorica squamata. Baldric is present. Sword is present.

SCENE CXV  FIGURE 6
Citizen figure type. Helmet type 21. Lorica segmentata. Cingulum is present. Apron is present. Baldric is present. Sword is present. Rectangular shield with thunderbolts and wings blazon.

SCENE CXV  FIGURE 7

SCENE CXV  FIGURE 8
Citizen figure type. Helmet type 21. Lorica segmentata. Cingulum is present. Apron is present. Baldric is present. Sword is present. Rectangular shield with thunderbolts and wings blazon.

SCENE CXV  FIGURE 9

SCENE CXV  FIGURE 10

SCENE CXV  FIGURE 11
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Sword is present. Cloak is absent. Oval shield with Roman blazon. Mail edging is ragged, very small lappets, or fringed. Additional detail on mail.

SCENE CXV  FIGURE 12

SCENE CXV  FIGURE 13
Bare-chested irregular. Bare head. Bare torso. Baldric is absent. Sword is absent. Oval shield with small motifs.
SCENE CXV  
**FIGURE 14**  
Citizen figure type. Helmet type 21. 'Lorica segmentata'. Cingulum is absent. Baldric is present. Sword is present. Rectangular shield with thunderbolts and wings blazon.

SCENE CXV  
**FIGURE 15**  
Bare-chested irregular. Bare head. Bare torso. Oval shield with small motifs.

SCENE CXV  
**FIGURE 16**  
Dacian. Bare head. Tunic. Cloak is a fringed *sagum*.

SCENE CXV  
**FIGURE 17**  

SCENE CXV  
**FIGURE 18**  
Dacian. Bare head. Oval shield with small motifs.

SCENE CXV  
**FIGURE 19**  
Dacian. *Pilleus*. Cloak is a fringed *sagum*. Oval shield with piles blazon.

SCENE CXV  
**FIGURE 20**  
Dacian. Bare head. Tunic. Cloak is a fringed *sagum*. Oval shield with piles blazon.

SCENE CXV  
**FIGURE 21**  
Dacian. Bare head. Cloak is a fringed *sagum*.

SCENE CXV  
**FIGURE 22**  

SCENE CXV  
**FIGURE 23**  
Dacian. Bare head. Tunic. Cloak is a fringed *sagum*. Oval shield with palmettes blazon.

SCENE CXV  
**FIGURE 24**  
Dacian. Bare head. Tunic. Cloak is a fringed *sagum*.

SCENE CXV  
**FIGURE 25**  
Dacian. Bare head. Tunic. Cloak is a fringed *sagum*. Oval shield rear view or obscured.

SCENE CXV  
**FIGURE 26**  
Dacian. Bare head. Cloak is a fringed *sagum*. Oval shield with tendrils blazon.

SCENE CXV  
**FIGURE 27**  
Dacian. Bare head. Cloak is a fringed *sagum*.

SCENE CXV  
**FIGURE 28**  
Dacian. Bare head.
SCENE CXV  FIGURE 29
Dacian. Bare head. Tunic. Cloak is a fringed sagum. Oval shield with piles blazon.

SCENE CXV  FIGURE 30

SCENE CXV  FIGURE 31
Dacian. Bare head.

SCENE CXV  FIGURE 32
Dacian. Bare head. Tunic.

SCENE CXV  FIGURE 33

SCENE CXV  FIGURE 34
Dacian. Bare head. Oval shield with tendrils blazon.

SCENE CXV  FIGURE 35
Dacian. Bare head.

SCENE CXV  FIGURE 36
Dacian. Bare head. Tunic. Cloak is a fringed sagum.

SCENE CXV  FIGURE 37
Dacian. Bare head. Cloak is a fringed sagum. Oval shield rear view or obscured.

SCENE CXVI  FIGURE 1

SCENE CXVI  FIGURE 2
Dacian. Bare head.

SCENE CXVI  FIGURE 3
Dacian. Bare head. Tunic. Cloak is a fringed sagum.

SCENE CXVI  FIGURE 4
Dacian. Pilleus. Tunic. Cloak is a fringed sagum.

SCENE CXVI  FIGURE 5
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE CXVI  FIGURE 6
Dacian. Bare head.

SCENE CXVI  FIGURE 7
Citizen figure type. Bare head. 'Lorica segmentata' type 23. Cingulum is present. Apron is present. Baldric is present. Sword is present.

SCENE CXVI  FIGURE 8
Dacian. Bare head. Cloak is a fringed sagum.
SCENE CXVI  FIGURE 9
Citizen figure type. Bare head. 'Lorica segmentata' type 20. Cingulum is present. Apron is present.

SCENE CXVI  FIGURE 10
Dacian. Pilleus. Tunic. Cloak is a fringed sagum.

SCENE CXVI  FIGURE 11
Dacian. Bare head.

SCENE CXVI  FIGURE 12
Citizen figure type. Bare head. 'Lorica segmentata' type 20. Cingulum is absent. Baldric is present. Sword is present.

SCENE CXVI  FIGURE 13
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is absent. Baldric is present.

SCENE CXVI  FIGURE 14

SCENE CXVI  FIGURE 15

SCENE CXVI  FIGURE 16
Citizen figure type. Helmet type 21. 'Lorica segmentata'. Baldric is present.

SCENE CXVI  FIGURE 17

SCENE CXVI  FIGURE 18

SCENE CXVII  FIGURE 1
Citizen figure type. Bare head. 'Lorica segmentata' type 20. Cingulum is present. Apron is present. Baldric is present. Sword is present.

SCENE CXVII  FIGURE 2
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is absent.

SCENE CXVII  FIGURE 3
Citizen figure type. Bare head. 'Lorica segmentata'.

SCENE CXVII  FIGURE 4
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is
present. Apron is present. Baldric is present. Sword is present.

SCENE CXVII  FIGURE 5
Citizen figure type. Bare head. 'Lorica segmentata' type 20. Baldric is present. Sword is present.

SCENE CXVII  FIGURE 6
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Baldric is present. Sword is present.

SCENE CXVII  FIGURE 7
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is absent.

SCENE CXVII  FIGURE 8
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is present. Sword is present.

SCENE CXVII  FIGURE 9
Citizen figure type. Bare head. 'Lorica segmentata' type 20. Cingulum is present. Baldric is present. Sword is absent.

SCENE CXVII  FIGURE 10
Citizen figure type. Bare head. 'Lorica segmentata'. Apron is present. Baldric is present.

SCENE CXVII  FIGURE 11
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is present.

SCENE CXVII  FIGURE 12
Citizen figure type. Bare head. 'Lorica segmentata'.

SCENE CXVII  FIGURE 13
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is absent. Baldric is present. Sword is present.

SCENE CXVII  FIGURE 14
Citizen figure type. Bare head. 'Lorica segmentata' type 20. Cingulum is present. Apron is present. Baldric is present. Sword is present.

SCENE CXVII  FIGURE 15
Citizen figure type. Bare head. 'Lorica segmentata' type 20. Cingulum is absent. Baldric is present. Sword is present.

SCENE CXVII  FIGURE 16
Citizen figure type. Bare head. 'Lorica segmentata' type 20. Cingulum is present. Apron is present. Baldric is present. Sword is absent.

SCENE CXVII  FIGURE 17
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is absent. Baldric is absent.

SCENE CXVII  FIGURE 18
Citizen figure type. Bare head. 'Lorica segmentata' type 18. Cingulum is present. Apron is present. Baldric is present.
SCENE CXVII  FIGURE 1
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE CXVII  FIGURE 2
Standard bearer. Bare head.

SCENE CXVII  FIGURE 3
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE CXVII  FIGURE 4
Trajan. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE CXVII  FIGURE 5
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE CXVII  FIGURE 6
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Cloak is a sagum. Oval shield with wreath blazon. Mail edging is ragged, very small lappets, or fringed.

SCENE CXVII  FIGURE 7
Dacian. Pilleus. Tunic. Cloak is a fringed sagum.

SCENE CXVII  FIGURE 8
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is present. Cloak is a fringed sagum. Oval shield rear view or obscured. Mail edging is ragged, very small lappets, or fringed.

SCENE CXVII  FIGURE 9
Auxiliary infantryman. Bare head.

SCENE CXVII  FIGURE 10
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is a sagum. Oval shield with wreath blazon. Mail edging is ragged, very small lappets, or fringed.

SCENE CXVII  FIGURE 11
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Cloak is absent. Oval shield with tendrils blazon. Mail edging is ragged, very small lappets, or fringed.

SCENE CXVII  FIGURE 12
Auxiliary infantryman. Bare head.

SCENE CXVII  FIGURE 13
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE CXVII  FIGURE 14
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Sword is present. Cloak is a fringed sagum. Oval shield with Roman blazon. Mail edging is ragged,
very small lappets, or fringed.

**SCENE CXVIII**  
**FIGURE 15**  
Auxiliary infantryman. Bare head. *Lorica hamata*. Mail chiselling is present on cast. Cloak is a fringed *sagum*. Oval shield with Roman method of carriage. Mail edging is ragged, very small lappets, or fringed.

**SCENE CXVIII**  
**FIGURE 16**  
Auxiliary infantryman. Bare head. *Lorica hamata*. Mail chiselling is absent. Cloak is absent. Oval shield rear view or obscured. Mail edging is ragged, very small lappets, or fringed.

**SCENE CXVIII**  
**FIGURE 17**  
Auxiliary infantryman. Bare head. *Lorica hamata*. Mail chiselling is absent. Cloak is a *sagum*. Mail edging is ragged, very small lappets, or fringed.

**SCENE CXVIII**  
**FIGURE 18**  
Auxiliary infantryman. Bare head. *Lorica hamata*. Mail chiselling is present on cast. Baldric is present. Sword is present. Cloak is a *sagum*. Oval shield with Hellenistic method of carriage. Mail edging is ragged, very small lappets, or fringed.

**SCENE CXVIII**  
**FIGURE 19**  
Auxiliary infantryman. Bare head. *Lorica hamata*. Mail chiselling is present on cast. Baldric is present. Cloak is a fringed *sagum*. Oval shield with wreath blazon. Mail edging is ragged, very small lappets, or fringed.

**SCENE CXVIII**  
**FIGURE 20**  
Auxiliary infantryman. Bare head. *Lorica hamata*. Mail chiselling is present on cast. Baldric is present. Cloak is a fringed *sagum*. Oval shield with tendrils blazon. Mail edging is ragged, very small lappets, or fringed.

**SCENE CXVIII**  
**FIGURE 21**  
Auxiliary infantryman. Bare head. *Lorica hamata*. Mail chiselling is present on cast. Cloak is a *sagum*. Mail edging is ragged, very small lappets, or fringed.

**SCENE CXVIII**  
**FIGURE 22**  
Auxiliary infantryman. Bare head. *Lorica hamata*. Mail chiselling is absent. Cloak is a fringed *sagum*. Oval shield with Roman blazon. Mail edging is ragged, very small lappets, or fringed.

**SCENE CXIX**  
**FIGURE 1**  
Dacian. Bare head. Tunic. Cloak is a fringed *sagum*.

**SCENE CXIX**  
**FIGURE 2**  
Dacian. *Pilleus*. Tunic. Cloak is a fringed *sagum*.

**SCENE CXIX**  
**FIGURE 3**  

**SCENE CXIX**  
**FIGURE 4**  
Dacian. Bare head. Tunic. Cloak is a fringed *sagum*. 
SCENE CXX FIGURE 5
Dacian. Bare head. Tunic. Cloak is a fringed sagum.

SCENE CXX FIGURE 1
Dacian. Bare head. Tunic.

SCENE CXX FIGURE 2
Dacian. Bare head. Tunic. Cloak is a fringed sagum.

SCENE CXX FIGURE 3
Dacian. Bare head. Tunic. Cloak is a fringed sagum.

SCENE CXX FIGURE 4
Dacian. Bare head. Tunic.

SCENE CXX FIGURE 5
Dacian. Pilleus. Tunic. Cloak is a fringed sagum.

SCENE CXX FIGURE 6

SCENE CXX FIGURE 7
Dacian. Pilleus. Tunic. Cloak is a fringed sagum.

SCENE CXX FIGURE 8
Dacian. Bare head. Tunic.

SCENE CXX FIGURE 9

SCENE CXX FIGURE 10
Dacian. Bare head.

SCENE CXX FIGURE 11
Dacian. Pilleus. Tunic. Cloak is a fringed sagum.

SCENE CXX FIGURE 12
Dacian. Pilleus. Tunic. Cloak is a fringed sagum.

SCENE CXX FIGURE 13

SCENE CXX FIGURE 14

SCENE CXX FIGURE 15
Dacian. Pilleus. Tunic. Cloak is a fringed sagum.

SCENE CXX FIGURE 16
Dacian. Bare head. Tunic.

SCENE CXX FIGURE 17
Dacian. Bare head. Tunic. Cloak is a fringed sagum.
SCENE CXX
   FIGURE 18
   Dacian. Pilleus. Tunic. Cloak is a fringed sagum.

SCENE CXX
   FIGURE 19

SCENE CXX
   FIGURE 20

SCENE CXX
   FIGURE 21
   Dacian. Pilleus. Tunic. Cloak is a fringed sagum.

SCENE CXXI
   FIGURE 1
   Dacian. Bare head. Tunic. Cloak is a fringed sagum.

SCENE CXXI
   FIGURE 2

SCENE CXXI
   FIGURE 3
   Dacian. Bare head. Tunic.

SCENE CXXI
   FIGURE 4
   Dacian. Pilleus. Tunic. Cloak is a fringed sagum.

SCENE CXXII
   FIGURE 1
   Dacian. Bare head. Tunic. Cloak is a fringed sagum.

SCENE CXXII
   FIGURE 2
   Dacian. Pilleus.

SCENE CXXII
   FIGURE 3
   Dacian. Bare head. Tunic. Cloak is a fringed sagum.

SCENE CXXII
   FIGURE 4
   Dacian. Bare head. Tunic.

SCENE CXXII
   FIGURE 5
   Dacian. Bare head. Tunic. Cloak is a fringed sagum.

SCENE CXXII
   FIGURE 6
   Dacian. Bare head. Tunic.

SCENE CXXII
   FIGURE 7
   Dacian. Bare head.

SCENE CXXII
   FIGURE 8

SCENE CXXII
   FIGURE 9
   Dacian. Bare head.

SCENE CXXII
   FIGURE 10
   Dacian. Bare head. Tunic.
SCENE CXXII  
FIGURE 11  
Dacian. Bare head. Tunic.

SCENE CXXII  
FIGURE 12  
Dacian. Bare head.

SCENE CXXII  
FIGURE 13  
Dacian. Bare head. Tunic.

SCENE CXXII  
FIGURE 14  
Dacian. Bare head. Tunic. Cloak is a fringed sagum.

SCENE CXXII  
FIGURE 15  
Dacian. Bare head.

SCENE CXXII  
FIGURE 16  
Dacian. Bare head. Tunic.

SCENE CXXII  
FIGURE 17  
Dacian. Bare head. Tunic.

SCENE CXXII  
FIGURE 18  
Dacian. Bare head.

SCENE CXXII  
FIGURE 19  
Dacian. Bare head. Tunic. Cloak is a fringed sagum.

SCENE CXXII  
FIGURE 20  
Dacian. Bare head.

SCENE CXXII  
FIGURE 21  
Dacian. Bare head. Tunic.

SCENE CXXII  
FIGURE 22  
Dacian. Pilleus. Tunic. Cloak is a fringed sagum.

SCENE CXXII  
FIGURE 23  
Dacian. Bare head. Tunic.

SCENE CXXIII  
FIGURE 1  
Citizen figure type. Helmet type 14. 'Lorica segmentata' type 5. Cingulum is present. Apron is absent. Baldric is present. Sword is present. Rectangular shield with thunderbolts and wings blazon.

SCENE CXXIII  
FIGURE 2  
Citizen figure type. Helmet type 14. 'Lorica segmentata' type 5. Baldric is absent.

SCENE CXXIII  
FIGURE 3  
Citizen figure type. Helmet type 14. 'Lorica segmentata' type 5. Cingulum is absent. Baldric is absent.

SCENE CXXIII  
FIGURE 4  
Citizen figure type. Helmet type 14. 'Lorica segmentata'. Cingulum is absent. Baldric is absent. Sword is present. Rectangular shield with thunderbolts and wings blazon.
SCENE CXXIII  
FIGURE 5
Citizen figure type. Helmet type 14. 'Lorica segmentata' type 5. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE CXXIII  
FIGURE 6
Citizen figure type. Helmet type 13. 'Lorica segmentata'. Cingulum is absent. Apron is absent. Baldric is present. Sword is present. Rectangular shield with thunderbolts and wings blazon. Additional detail on baldric.

SCENE CXXIII  
FIGURE 7
Citizen figure type. Helmet type 14. 'Lorica segmentata' type 5. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE CXXIII  
FIGURE 8
Citizen figure type. Helmet type 21. 'Lorica segmentata' type 5. Cingulum is absent. Baldric is absent.

SCENE CXXIII  
FIGURE 9
Citizen figure type. Helmet type 21. 'Lorica segmentata' type 5. Cingulum is absent. Baldric is absent.

SCENE CXXIII  
FIGURE 10
Citizen figure type. Helmet type 14. 'Lorica segmentata' type 5. Cingulum is absent. Apron is absent. Baldric is present. Sword is present. Rectangular shield with thunderbolts and wings blazon. Additional detail on baldric.

SCENE CXXIII  
FIGURE 11
Citizen figure type. Helmet type 21. 'Lorica segmentata' type 5. Baldric is absent.

SCENE CXXIII  
FIGURE 12
Citizen figure type. Helmet type 21. 'Lorica segmentata' type 5. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE CXXIII  
FIGURE 13
Citizen figure type. Helmet type 21. 'Lorica segmentata' type 5. Baldric is absent.

SCENE CXXIII  
FIGURE 14
Standard bearer. Animal skin. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is absent. Cloak is a fringed sagum. Mail edging is ragged, very small lappets, or fringed. Mistake in detail.

SCENE CXXIII  
FIGURE 15
Musician. Animal skin. Lorica hamata. Mail chiselling is present on cast. Sword is absent. Cloak is a sagum. Mail edging is ragged, very small lappets, or fringed.
SCENE CXXIII  FIGURE 16
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE CXXIII  FIGURE 17
Standard bearer. Animal skin. Lorica hamata. Mail chiselling is absent. Cloak is a sagum. Mail edging is ragged, very small lappets, or fringed.

SCENE CXXIII  FIGURE 18
Auxiliary infantryman. Helmet type 18. Lorica hamata. Mail chiselling is surviving on the shaft. Cloak is a sagum. Mail edging is ragged, very small lappets, or fringed.

SCENE CXXIII  FIGURE 19
Trajan. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE CXXIII  FIGURE 20
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE CXXIII  FIGURE 21
Dacian. Bare head. Tunic.

SCENE CXXIII  FIGURE 22
Dacian. Bare head. Tunic.

SCENE CXXIII  FIGURE 23
Dacian. Bare head. Tunic. Cloak is a fringed sagum.

SCENE CXXIII  FIGURE 24
Dacian. Bare head. Tunic.

SCENE CXXIII  FIGURE 25
Dacian. Bare head. Tunic.

SCENE CXXIII  FIGURE 26
Dacian. Bare head. Tunic.

SCENE CXXIII  FIGURE 27
Dacian. Bare head. Tunic.

SCENE CXXIII  FIGURE 28
Dacian. Bare head. Tunic.

SCENE CXXIII  FIGURE 29
Dacian. Bare head.

SCENE CXXIII  FIGURE 30
Dacian. Bare head. Tunic. Cloak is a fringed sagum.

SCENE CXXIII  FIGURE 31
Dacian. Bare head. Tunic.

SCENE CXXIII  FIGURE 32
Dacian. Bare head. Tunic.
SCENE CXXIV  FIGURE 1
Citizen figure type. Bare head. 'Lorica segmentata' type 24. Baldric is absent.

SCENE CXXIV  FIGURE 2
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE CXXIV  FIGURE 3
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Sword is present. Cloak is absent. Mail edging is ragged, very small lappets, or fringed. Additional detail on scabbard (suspension details or decoration).

SCENE CXXIV  FIGURE 4
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is present. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE CXXIV  FIGURE 5
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is absent. Baldric is present. Sword is present.

SCENE CXXV  FIGURE 1
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Baldric is present. Cloak is a sagum.

SCENE CXXV  FIGURE 2
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Cloak is a sagum.

SCENE CXXV  FIGURE 3
Auxiliary infantryman. Helmet type 22. Cloak is a sagum.

SCENE CXXV  FIGURE 4
Auxiliary infantryman. Helmet type 22. Cloak is a sagum.

SCENE CXXV  FIGURE 5
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Cloak is a sagum.

SCENE CXXV  FIGURE 6
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is a sagum. Mail edging is ragged, very small lappets, or fringed.

SCENE CXXV  FIGURE 7
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE CXXV  FIGURE 8
Trajan. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE CXXV  FIGURE 9
SCENE CXXV  
FIGURE 10
Standard bearer. Animal skin. **Lorica hamata.** Mail chiselling is absent.

SCENE CXXV  
FIGURE 11
Standard bearer. Animal skin. **Lorica hamata.** Mail chiselling is absent.

SCENE CXXV  
FIGURE 12
Auxiliary infantryman. Helmet type 22. **Lorica hamata.** Mail chiselling is absent. Cloak is a **sagum.**

SCENE CXXV  
FIGURE 13
Auxiliary infantryman. Helmet type 22. **Lorica hamata.** Mail chiselling is absent. Cloak is a **sagum.**

SCENE CXXV  
FIGURE 14
Standard bearer. Animal skin. **Lorica hamata.** Mail chiselling is absent.

SCENE CXXV  
FIGURE 15
Citizen figure type. Helmet type 22. 'Lorica segmentata'. Cingulum is absent. Baldric is absent. Rectangular shield with thunderbolts and wings blazon.

SCENE CXXV  
FIGURE 16
Standard bearer. Animal skin. **Lorica hamata.** Mail chiselling is absent.

SCENE CXXV  
FIGURE 17
Auxiliary infantryman. Helmet type 22. **Lorica hamata.** Mail chiselling is absent. Cloak is a **sagum.**

SCENE CXXV  
FIGURE 18
Auxiliary infantryman. Helmet type 22. **Lorica hamata.** Mail chiselling is absent. Cloak is a **sagum.**

SCENE CXXV  
FIGURE 19
Auxiliary infantryman. Helmet type 22. **Lorica hamata.** Mail chiselling is absent. Baldric is present. Sword is present. Cloak is a fringed **sagum.** Oval shield with piles blazon. Mail edging is ragged, very small lappets, or fringed.

SCENE CXXV  
FIGURE 20
Auxiliary infantryman. Helmet type 22. **Lorica hamata.** Mail chiselling is absent.

SCENE CXXVI  
FIGURE 1
Auxiliary infantryman. Helmet type 22. **Lorica hamata.** Mail chiselling is present on cast. Baldric is present. Sword is present. Cloak is absent. Oval shield is unfinished. Mistake in detail.

SCENE CXXVI  
FIGURE 2
Auxiliary infantryman. Helmet type 22. **Lorica hamata.** Mail chiselling is present on cast. Baldric is absent. Sword is absent. Cloak is absent. Oval shield is unfinished. Mail edging is ragged, very small lappets, or fringed. Mistake in detail.
SCENE CXXVI  FIGURE 3
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is present on cast. Cloak is absent.

SCENE CXXVI  FIGURE 4
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is present on cast. Baldric is absent. Sword is absent. Cloak is a sagum. Oval shield is unfinished. Mail edging is ragged, very small lappets, or fringed. Mistake in detail.

SCENE CXXVI  FIGURE 5

SCENE CXXVI  FIGURE 6
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Cloak is absent. Oval shield rear view or obscured.

SCENE CXXVI  FIGURE 7
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is present on cast. Baldric is absent. Sword is absent. Cloak is a sagum. Oval shield rear view or obscured. Mail edging is ragged, very small lappets, or fringed.

SCENE CXXVI  FIGURE 8
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Cloak is absent. Oval shield rear view or obscured.

SCENE CXXVI  FIGURE 9
Auxiliary infantryman.

SCENE CXXVI  FIGURE 10
Auxiliary infantryman. Helmet type 22. Oval shield rear view or obscured.

SCENE CXXVI  FIGURE 11
Auxiliary infantryman.

SCENE CXXVI  FIGURE 12

SCENE CXXVI  FIGURE 13
Auxiliary infantryman. Helmet type 22. Cloak is absent. Oval shield rear view or obscured.

SCENE CXXVI  FIGURE 14
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Cloak is absent. Oval shield with palmettes blazon. Mail edging is ragged, very small lappets, or fringed.

SCENE CXXVI  FIGURE 15
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling
is surviving on the shaft. Baldric is absent. Cloak is absent.

**SCENE CXXVII**  **FIGURE 1**
Citizen figure type. Helmet type 22. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is present. Sword is present.

**SCENE CXXVII**  **FIGURE 2**
Citizen figure type. Bare head. 'Lorica segmentata'. Cingulum is present. Baldric is absent. Sword is absent. Mistake in pose.

**SCENE CXXVII**  **FIGURE 3**
Citizen figure type. Bare head. 'Lorica segmentata' type 18. Baldric is absent.

**SCENE CXXVII**  **FIGURE 4**
Citizen figure type. Helmet type 20. 'Lorica segmentata'.

**SCENE CXXVII**  **FIGURE 5**
Citizen figure type. Helmet type 20. 'Lorica segmentata'. Cingulum is present. Apron is present. Baldric is present. Sword is present.

**SCENE CXXVII**  **FIGURE 6**
Citizen figure type. Bare head. 'Lorica segmentata' type 18. Baldric is present.

**SCENE CXXVII**  **FIGURE 7**
Citizen figure type. Bare head. 'Lorica segmentata' type 11. Cingulum is present. Baldric is absent. Sword is absent.

**SCENE CXXVII**  **FIGURE 8**
Citizen figure type. Bare head. 'Lorica segmentata'. Baldric is present.

**SCENE CXXVII**  **FIGURE 9**
Citizen figure type. Bare head. 'Lorica segmentata' type 11. Cingulum is present. Baldric is absent. Sword is absent.

**SCENE CXXVII**  **FIGURE 10**
Citizen figure type. Bare head. 'Lorica segmentata' type 18. Cingulum is present. Baldric is absent.

**SCENE CXXVII**  **FIGURE 11**
Citizen figure type. Bare head. 'Lorica segmentata' type 18. Cingulum is present. Baldric is present. Sword is present. Additional detail on scabbard (suspension details or decoration).

**SCENE CXXVII**  **FIGURE 12**
Citizen figure type. Bare head. 'Lorica segmentata' type 18. Cingulum is present. Baldric is absent.

**SCENE CXXVII**  **FIGURE 1**
Auxiliary infantryman. Helmet type 20. Lorica hamata. Mail chiselling is present on cast. Cloak is a sagum. Oval shield rear view or obscured. Mail edging is ragged, very small lappets, or fringed.
SCENE CXXVIII  FIGURE 2
Auxiliary infantryman. Helmet type 20. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Sword is present. Cloak is a sagum. Oval shield with Hellenistic method of carriage. Mail edging is ragged, very small lappets, or fringed. Additional detail on scabbard (suspension details or decoration).

SCENE CXXVIII  FIGURE 3
Auxiliary infantryman. Helmet type 20. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Sword is present. Cloak is a sagum. Oval shield with wreath blazon. Mail edging is ragged, very small lappets, or fringed.

SCENE CXXIX  FIGURE 1
Citizen figure type. Bare head. Lorica segmentata type 20. Cingulum is present. Baldric is present. Sword is present.

SCENE CXXIX  FIGURE 2
Citizen figure type. Bare head. Lorica segmentata type 20. Cingulum is absent. Baldric is present. Sword is present.

SCENE CXXIX  FIGURE 3
Citizen figure type. Bare head. Lorica segmentata type 20. Cingulum is present. Apron is absent. Baldric is present. Sword is absent.

SCENE CXXIX  FIGURE 4
Citizen figure type. Bare head. Lorica segmentata type 20. Cingulum is present. Baldric is absent. Sword is absent.

SCENE CXXIX  FIGURE 5
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Cloak is absent. Mail edging is ragged, very small lappets, or fringed. Additional detail on mail. Mistake in figure type characteristics.

SCENE CXXIX  FIGURE 6
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Cloak is absent. Mail edging is ragged, very small lappets, or fringed. Mistake in figure type characteristics.

SCENE CXXX  FIGURE 1
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE CXXX  FIGURE 2
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE CXXX  FIGURE 3
Trajan. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE CXXX  FIGURE 4
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE CXXX  FIGURE 5
Dacian. Bare head. Tunic.
SCENE CXXX

FIGURE 6
Dacian. Bare head. Tunic.

SCENE CXXX

FIGURE 7
Dacian. Bare head. Tunic. Cloak is a fringed sagum.

SCENE CXXXI

FIGURE 1
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is surviving on the shaft. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE CXXXI

FIGURE 2
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is present. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE CXXXI

FIGURE 3
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is absent. Cloak is absent. Oval shield with tendrils blazon. Mail edging is ragged, very small lappets, or fringed.

SCENE CXXXI

FIGURE 4
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is absent. Sword is absent. Cloak is a fringed sagum. Oval shield with tendrils blazon. Mail edging is ragged, very small lappets, or fringed.

SCENE CXXXI

FIGURE 5
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Cloak is a sagum.

SCENE CXXXI

FIGURE 6
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is absent. Sword is absent. Cloak is a fringed sagum. Oval shield with wreath blazon. Mail edging is ragged, very small lappets, or fringed.

SCENE CXXXI

FIGURE 7
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is surviving on the shaft. Sword is absent. Cloak is a fringed sagum. Oval shield is unfinished. Mail edging is ragged, very small lappets, or fringed. Mistake in detail.

SCENE CXXXI

FIGURE 8
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is surviving on the shaft. Cloak is a sagum.

SCENE CXXXI

FIGURE 9
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is surviving on the shaft. Sword is absent. Cloak is a fringed sagum. Oval shield with Hellenistic method of carriage. Mail edging is ragged, very small lappets, or fringed.

SCENE CXXXI

FIGURE 10
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling
is surviving on the shaft. Sword is absent. Cloak is a fringed sagum. Mail edging is ragged, very small lappets, or fringed.

**SCENE CXXXI**  
**FIGURE 11**  
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is absent. Cloak is a fringed sagum. Oval shield with Hellenistic method of carriage. Mail edging is ragged, very small lappets, or fringed.

**SCENE CXXXI**  
**FIGURE 12**  
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is absent. Cloak is a fringed sagum. Oval shield with Hellenistic method of carriage. Mail edging is ragged, very small lappets, or fringed.

**SCENE CXXXII**  
**FIGURE 1**  
Dacian. Bare head. Tunic.

**SCENE CXXXII**  
**FIGURE 2**  

**SCENE CXXXII**  
**FIGURE 3**  
Dacian. Bare head. Tunic. Cloak is a fringed sagum. Oval shield with piles blazon.

**SCENE CXXXII**  
**FIGURE 4**  

**SCENE CXXXII**  
**FIGURE 5**  
Dacian. Bare head. Oval shield rear view or obscured.

**SCENE CXXXII**  
**FIGURE 6**  
Dacian. Bare head. Tunic. Cloak is a fringed sagum. Oval shield rear view or obscured.

**SCENE CXXXII**  
**FIGURE 7**  
Dacian. Bare head. Oval shield rear view or obscured.

**SCENE CXXXII**  
**FIGURE 8**  
Dacian. Bare head. Tunic. Cloak is a fringed sagum.

**SCENE CXXXII**  
**FIGURE 9**  
Dacian. Bare head.

**SCENE CXXXII**  
**FIGURE 10**  
Dacian. Bare head. Tunic. Cloak is a fringed sagum.

**SCENE CXXXII**  
**FIGURE 11**  
Dacian. Bare head. Oval shield with piles blazon.

**SCENE CXXXIII**  
**FIGURE 1**  
Dacian. Bare head. Tunic.

**SCENE CXXXIII**  
**FIGURE 2**  
SCENE CXXXIII FIGURE 3  
Dacian. Bare head. Tunic.

SCENE CXXXIII FIGURE 4  
Dacian. Bare head. Tunic. Cloak is a fringed sagum. Oval shield rear view or obscured.

SCENE CXXXIII FIGURE 5  
Citizen figure type. Helmet type 20. 'Lorica segmentata'. Cingulum is present. Baldric is present.

SCENE CXXXIII FIGURE 6  
Dacian. Bare head. Oval shield rear view or obscured.

SCENE CXXXIII FIGURE 7  

SCENE CXXXIII FIGURE 8  
Dacian. Bare head. Oval shield rear view or obscured.

SCENE CXXXIII FIGURE 9  

SCENE CXXXIV FIGURE 1  
Dacian. Bare head. Tunic.

SCENE CXXXIV FIGURE 2  
Dacian. Bare head. Tunic.

SCENE CXXXIV FIGURE 3  

SCENE CXXXIV FIGURE 4  

SCENE CXXXIV FIGURE 5  

SCENE CXXXIV FIGURE 6  

SCENE CXXXIV FIGURE 7  
Dacian. Bare head. Tunic.

SCENE CXXXIV FIGURE 8  
Dacian. Bare head. Tunic.

SCENE CXXXIV FIGURE 9  

SCENE CXXXIV FIGURE 10  
SCENE CXXXIV  FIGURE 11
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE CXXXIV  FIGURE 12
Dacian. Bare head. Tunic. Cloak is a fringed sagum. Oval shield with rings blazon.

SCENE CXXXIV  FIGURE 13

SCENE CXXXIV  FIGURE 14
Dacian. Bare head. Tunic. Cloak is a fringed sagum. Oval shield with rings blazon.

SCENE CXXXIV  FIGURE 15
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Cloak is absent.

SCENE CXXXIV  FIGURE 16
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent.

SCENE CXXXIV  FIGURE 17

SCENE CXXXIV  FIGURE 18
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Baldric is absent. Cloak is absent.

SCENE CXXXIV  FIGURE 19
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent.

SCENE CXXXIV  FIGURE 20

SCENE CXXXIV  FIGURE 21
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Cloak is absent.

SCENE CXXXIV  FIGURE 22
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Oval shield rear view or obscured.

SCENE CXXXIV  FIGURE 23
Dacian. Bare head. Tunic.

SCENE CXXXIV  FIGURE 24

SCENE CXXXIV  FIGURE 25
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is absent. Cloak is absent. Oval shield with rings blazon.
SCENE CXXXIV  FIGURE 26

SCENE CXXXIV  FIGURE 27
Dacian. Bare head. Tunic.

SCENE CXXXIV  FIGURE 28
Dacian. Bare head. Tunic.

SCENE CXXXIV  FIGURE 29

SCENE CXXXIV  FIGURE 30
Dacian. Bare head. Tunic.

SCENE CXXXV  FIGURE 1

SCENE CXXXV  FIGURE 2

SCENE CXXXV  FIGURE 3

SCENE CXXXVI  FIGURE 1
Dacian. Bare head. Tunic. Cloak is a fringed *sagum*.

SCENE CXXXVI  FIGURE 2

SCENE CXXXVI  FIGURE 3
Dacian. Bare head.

SCENE CXXXVI  FIGURE 4
Dacian. Bare head. Tunic. Cloak is a fringed *sagum*.

SCENE CXXXVI  FIGURE 5
Dacian. Bare head. Oval shield rear view or obscured.

SCENE CXXXVI  FIGURE 6
Dacian. Bare head.

SCENE CXXXVI  FIGURE 7
Dacian. Bare head.

SCENE CXXXVI  FIGURE 8
Dacian. Bare head. Tunic. Cloak is a fringed *sagum*. Oval shield rear view or obscured.

SCENE CXXXVI  FIGURE 9
Dacian. Bare head.
SCENE CXXXVI  
Dacian. Bare head. Cloak is a fringed sagum.

SCENE CXXXVI  
Dacian. Bare head.

SCENE CXXXVI  
Dacian. Bare head. Tunic. Cloak is a fringed sagum. Oval shield with piles blazon.

SCENE CXXXVI  
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Cloak is a sagum. Oval shield rear view or obscured.

Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Baldric is absent. Sword is absent. Cloak is a sagum. Oval shield with Hellenistic method of carriage. Mail edging is ragged, very small lappets, or fringed. Additional detail on mail.

Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent.

Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is absent. Sword is absent. Cloak is a sagum. Oval shield rear view or obscured. Mail edging is ragged, very small lappets, or fringed. Additional detail on mail.

Citizen figure type. Helmet type 22. Lorica segmentata' type 5.

Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Cloak is a sagum. Oval shield rear view or obscured. Tunic is fringed. Mail edging is ragged, very small lappets, or fringed.

Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Cloak is a sagum.

Officer. Bare head. Muscled cuirass. Cloak is a sagum.

Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is absent. Cloak is absent. Oval shield rear view or obscured. Tunic is fringed. Mail edging is ragged, very small lappets, or fringed.

Officer. Bare head. Muscled cuirass. Cloak is a sagum.

Trajan. Bare head. Muscled cuirass. Cloak is a sagum.
SCENE CXXXVII  FIGURE 8
Standard bearer. Animal skin. Lorica hamata. Mail chiselling is absent. Cloak is absent. Tunic is fringed. Mail edging is ragged, very small lappets, or fringed.

SCENE CXXXVII  FIGURE 9

SCENE CXXXVII  FIGURE 10
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Baldric is present. Cloak is absent. Oval shield rear view or obscured.

SCENE CXXXVII  FIGURE 11
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Oval shield with palmettes blazon. Tunic is fringed. Mail edging is ragged, very small lappets, or fringed.

SCENE CXXXVII  FIGURE 12
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Oval shield rear view or obscured.

SCENE CXXXVII  FIGURE 13
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent.

SCENE CXXXVII  FIGURE 14
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Cloak is absent. Oval shield rear view or obscured.

SCENE CXXXVII  FIGURE 15
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is absent. Oval shield with wreath blazon. Tunic is fringed. Mail edging is ragged, very small lappets, or fringed.

SCENE CXXXVII  FIGURE 16

SCENE CXXXVII  FIGURE 17

SCENE CXXXVII  FIGURE 18
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Cloak is absent.

SCENE CXXXVII  FIGURE 19
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is absent. Cloak is absent. Oval shield rear view or obscured.

SCENE CXXXVIII  FIGURE 1
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is surviving on the shaft. Sword is absent. Cloak is absent. Horse harness
is practical. Mail edging is ragged, very small lappets, or fringed.

**SCENE CXXXVIII**  **FIGURE 2**
Citizen figure type. Bare head. *Lorica segmentata* type 5. Baldric is absent. Horse harness is practical.

**SCENE CXXXVIII**  **FIGURE 3**
Auxiliary infantryman. Bare head. *Lorica hamata*. Mail chiselling is surviving on the shaft. Baldric is absent. Cloak is absent. Horse harness is practical.

**SCENE CXXXIX**  **FIGURE 1**
Dacian cavalryman. Bare head. Tunic. Horse harness is impractical.

**SCENE CXXXIX**  **FIGURE 2**

**SCENE CXXXIX**  **FIGURE 3**
Dacian. *Pilleus*.

**SCENE CXXXIX**  **FIGURE 4**

**SCENE CXXXIX**  **FIGURE 5**
Dacian. Bare head. Tunic. Cloak is a fringed *sagum*.

**SCENE CXXXIX**  **FIGURE 6**
Dacian. Bare head. Tunic.

**SCENE CXXXIX**  **FIGURE 7**
Dacian. Bare head. Oval shield with palmettes blazon.

**SCENE CXXXIX**  **FIGURE 8**
Dacian. Bare head. Oval shield rear view or obscured.

**SCENE CXXXIX**  **FIGURE 9**
Dacian. Bare head. Tunic. Cloak is a fringed *sagum*. Oval shield with palmettes blazon.

**SCENE CXXXIX**  **FIGURE 10**
Dacian. Bare head.

**SCENE CXXXIX**  **FIGURE 11**
Dacian. Bare head.

**SCENE CXXXIX**  **FIGURE 12**

**SCENE CXL**  **FIGURE 1**
Dacian. Bare head. Tunic.

**SCENE CXL**  **FIGURE 2**
Dacian. Bare head.
SCENE CXL  FIGURE 3
Dacian. Bare head.

SCENE CXL  FIGURE 4

SCENE CXL  FIGURE 5
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE CXL  FIGURE 6
Dacian. Bare head.

SCENE CXL  FIGURE 7
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE CXL  FIGURE 8
Dacian. Bare head. Tunic.

SCENE CXL  FIGURE 9
Dacian. Bare head. Tunic. Oval shield rear view or obscured.

SCENE CXL  FIGURE 10
Dacian. Bare head. Tunic. Cloak is a fringed sagum. Oval shield rear view or obscured.

SCENE CXL  FIGURE 11

SCENE CXL  FIGURE 12
Dacian. Bare head.

SCENE CXL  FIGURE 13
Dacian. Bare head. Tunic. Cloak is a fringed sagum. Oval shield rear view or obscured.

SCENE CXL  FIGURE 14
Dacian. Bare head.

SCENE CXL  FIGURE 15
Dacian. Bare head. Tunic. Cloak is a fringed sagum.

SCENE CXL  FIGURE 16
Dacian. Bare head. Tunic. Cloak is a fringed sagum. Oval shield rear view or obscured.

SCENE CXL  FIGURE 17
Dacian. Bare head. Tunic.

SCENE CXL  FIGURE 18
Dacian. Bare head. Tunic. Cloak is a fringed sagum.

SCENE CXL  FIGURE 19
Dacian. Bare head. Tunic. Cloak is a fringed sagum.
SCENE CXLI

FIGURE 1
Auxiliary infantryman. Helmet type 16. Lorica hamata. Mail chiselling is absent. Baldric is absent. Sword is absent. Cloak is a sagum. Mail edging is ragged, very small lappets, or fringed.

SCENE CXLI

FIGURE 2
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is absent. Cloak is a sagum. Oval shield rear view or obscured. Mail edging is ragged, very small lappets, or fringed.

SCENE CXLI

FIGURE 3
Auxiliary infantryman. Helmet type 16. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is a sagum. Oval shield rear view or obscured. Mail edging is ragged, very small lappets, or fringed.

SCENE CXLI

FIGURE 4
Auxiliary infantryman. Bare head. Cloak is a sagum.

SCENE CXLI

FIGURE 5
Officer. Bare head. Muscled cuirass. Cloak is a sagum.

SCENE CXLI

FIGURE 6
Officer. Bare head. Cloak is a sagum.

SCENE CXLI

FIGURE 7
Trajan. Bare head. Muscled cuirass. Cloak is a fringed sagum.

SCENE CXLI

FIGURE 8

SCENE CXLI

FIGURE 9
Auxiliary infantryman. Helmet type 16. Lorica hamata. Mail chiselling is present on cast. Cloak is a sagum. Oval shield with Roman blazon. Mail edging is ragged, very small lappets, or fringed.

SCENE CXLI

FIGURE 10
Auxiliary infantryman. Helmet type 16. Lorica hamata. Mail chiselling is absent. Cloak is a sagum.

SCENE CXLI

FIGURE 11

SCENE CXLI

FIGURE 12
Auxiliary infantryman. Helmet type 16. Lorica hamata. Mail chiselling is absent. Cloak is a sagum. Oval shield with tendrils blazon. Mail edging is ragged, very small lappets, or fringed.

SCENE CXLI

FIGURE 13
Dacian. Pilleus.

SCENE CXLI

FIGURE 14

SCENE CXLI

FIGURE 15
Dacian. Pilleus.
SCENE CXLI FIGURE 16

SCENE CXLI FIGURE 1
Auxiliary cavalryman. Helmet type 26. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Sword is absent. Cloak is a sagum. Oval shield rear view or obscured. Horse harness is impractical. Mail edging is ragged, very small lappets, or fringed. Additional detail on baldric.

SCENE CXLI FIGURE 2
Auxiliary cavalryman. Helmet type 26. Lorica hamata. Mail chiselling is absent. Cloak is a sagum. Oval shield with tendrils blazon. Horse harness is impractical. Mail edging is ragged, very small lappets, or fringed.

SCENE CXLI FIGURE 3

SCENE CXLI FIGURE 4

SCENE CXLI FIGURE 5
Auxiliary cavalryman. Helmet type 17. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is absent. Cloak is absent. Oval shield with tendrils blazon. Horse harness is practical. Mail edging is ragged, very small lappets, or fringed.

SCENE CXLII FIGURE 1
Auxiliary cavalryman. Helmet type 17. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Sword is absent. Cloak is absent. Oval shield with tendrils blazon. Horse harness is impractical. Mail edging is ragged, very small lappets, or fringed.

SCENE CXLII FIGURE 2
Auxiliary cavalryman. Helmet type 17. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is absent. Cloak is absent. Oval shield with tendrils blazon. Horse harness is impractical. Mail edging is ragged, very small lappets, or fringed. Additional detail on baldric. Mistake in detail.

SCENE CXLII FIGURE 3

SCENE CXLII FIGURE 4
SCENE CXLIV  FIGURE 1

SCENE CXLIV  FIGURE 2

SCENE CXLIV  FIGURE 3

SCENE CXLIV  FIGURE 4

SCENE CXLV  FIGURE 1
Auxiliary cavalryman. Helmet type 17. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is absent. Cloak is a sagum. Oval shield with wreath blazon. Mail edging is ragged, very small lappets, or fringed.

SCENE CXLV  FIGURE 2

SCENE CXLV  FIGURE 3
Auxiliary cavalryman. Helmet type 17. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is absent. Cloak is absent. Oval shield rear view or obscured. Tunic with tufts. Mail edging is zig-zag.

SCENE CXLV  FIGURE 4
Auxiliary cavalryman. Helmet type 17. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is absent. Cloak is a sagum. Oval shield with palmettes blazon. Horse harness is practical. Mail edging is ragged, very small lappets, or fringed. Mistake in pose.

SCENE CXLV  FIGURE 5
Auxiliary cavalryman. Helmet type 17. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is absent. Cloak is absent. Oval shield rear view or obscured. Tunic with tufts. Mail edging is ragged, very small lappets, or fringed.

SCENE CXLV  FIGURE 6
Auxiliary cavalryman. Helmet type 17. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is absent. Cloak is a sagum. Oval shield with wreath blazon. Horse harness is impractical. Mail edging is ragged, very small lappets, or fringed. Mistake in detail.

SCENE CXLV  FIGURE 7

SCENE CXLV  FIGURE 8
Auxiliary cavalryman. Helmet type 17. Lorica hamata. Mail chiselling is
surviving on the shaft. Baldric is present. Cloak is absent. Oval shield with palmettes blazon. Mail edging is ragged, very small lappets, or fringed. Mistake in pose.

SCENE CXLV FIGURE 9
Auxiliary cavalryman. Helmet type 22. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is present. Cloak is absent. Oval shield with tendrils blazon. Horse harness is impractical. Mail edging is ragged, very small lappets, or fringed. Mistake in detail.

SCENE CXLV FIGURE 10

SCENE CXLV FIGURE 11

SCENE CXLV FIGURE 12
Auxiliary cavalryman. Helmet type 22. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Cloak is absent. Oval shield with wreath blazon. Horse harness is impractical. Mail edging is ragged, very small lappets, or fringed. Mistake in detail.

SCENE CXLV FIGURE 13
Auxiliary cavalryman. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Cloak is absent. Oval shield with wreath blazon. Horse harness is practical. Mail edging is zig-zag. Additional detail on mail. Mistake in pose.

SCENE CXLVI FIGURE 1
Auxiliary infantryman. Helmet type 17. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is present. Cloak is absent. Tunic is fringed. Mail edging is ragged, very small lappets, or fringed. Additional detail on helmet. Mistake in detail.

SCENE CXLVI FIGURE 2
Auxiliary infantryman. Bare head. Lorica hamata. Mail chiselling is surviving on the shaft. Sword is present. Cloak is a sagum. Mail edging is ragged, very small lappets, or fringed.

SCENE CXLVI FIGURE 3
Dacian. Bare head. Tunic. Cloak is a fringed sagum.

SCENE CXLVI FIGURE 4
Auxiliary infantryman. Helmet type 17. Lorica hamata. Mail chiselling is surviving on the shaft. Cloak is a fringed sagum. Oval shield rear view or obscured. Tunic with tufts. Mail edging is ragged, very small lappets, or fringed. Additional detail on helmet.

SCENE CXLVI FIGURE 5
Dacian. Bare head. Tunic.
SCENE CXLVI FIGURE 6

SCENE CXLVI FIGURE 7
Dacian. Bare head. Tunic.

SCENE CXLVI FIGURE 8
Dacian. Bare head. Tunic. Cloak is a fringed sagum.

SCENE CXLVI FIGURE 9
Auxiliary infantryman. Helmet type 17. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is absent. Sword is absent. Cloak is absent. Oval shield with wreath blazon. Mail edging is zig-zag. Additional detail on mail.

SCENE CXLVI FIGURE 10
Dacian. Bare head. Tunic. Cloak is a fringed sagum.

SCENE CXLVII FIGURE 1
Citizen figure type. 'Lorica segmentata'. Cingulum is absent. Apron is absent. Baldric is absent. Sword is present. Rectangular shield with thunderbolts and wings blazon. Mistake in detail.

SCENE CXLVII FIGURE 2
Unidentifiable figure.

SCENE CXLVII FIGURE 3
Unidentifiable figure.

SCENE CXLVII FIGURE 4
Unidentifiable figure.

SCENE CXLVII FIGURE 5
Unidentifiable figure. Cloak is a sagum.

SCENE CXLVII FIGURE 6
Unidentifiable figure.

SCENE CXLVII FIGURE 7
Unidentifiable figure.

SCENE CXLVII FIGURE 8
Unidentifiable figure. Cloak is a sagum.

SCENE CXLVII FIGURE 9
Unidentifiable figure.

SCENE CXLVII FIGURE 10
Unidentifiable figure.

SCENE CXLVII FIGURE 11
Unidentifiable figure. Cloak is a sagum.
SCENE CXLVII  FIGURE 12
Unidentifiable figure.

SCENE CXLVII  FIGURE 13
Unidentifiable figure.

SCENE CXLVII  FIGURE 14
Unidentifiable figure.

SCENE CXLVII  FIGURE 15
Unidentifiable figure.

SCENE CXLVII  FIGURE 16
Unidentifiable figure.

SCENE CXLVII  FIGURE 17
Unidentifiable figure.

SCENE CXLVII  FIGURE 18
Unidentifiable figure.

SCENE CXLVII  FIGURE 19
Citizen figure type. 'Lorica segmentata'. Baldric is absent. Rectangular shield rear view or obscured.

SCENE CXLVII  FIGURE 20
Unidentifiable figure.

SCENE CXLVII  FIGURE 21
Unidentifiable figure.

SCENE CXLVII  FIGURE 22
Unidentifiable figure. Cloak is a sagum.

SCENE CXLVII  FIGURE 23
Unidentifiable figure.

SCENE CXLVIII  FIGURE 1

SCENE CXLVIII  FIGURE 2
Auxiliary infantryman. Helmet type 17. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is absent. Oval shield rear view or obscured.

SCENE CXLVIII  FIGURE 3
Auxiliary infantryman. Helmet type 17. Lorica hamata. Mail chiselling is absent. Cloak is absent. Oval shield rear view or obscured.

SCENE CXLVIII  FIGURE 4
Auxiliary infantryman. Helmet type 17. Lorica hamata. Mail chiselling is absent. Cloak is absent. Oval shield rear view or obscured.
SCENE CXLVIII  FIGURE 5
Auxiliary infantryman. Helmet type 17. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is absent. Oval shield rear view or obscured.

SCENE CXLVIII  FIGURE 6
Dacian. Bare head. Tunic.

SCENE CXLVIII  FIGURE 7
Auxiliary infantryman. Helmet type 17. Lorica hamata. Mail chiselling is absent. Baldric is absent. Cloak is absent.

SCENE CXLVIII  FIGURE 8
Auxiliary infantryman. Helmet type 17. Lorica hamata. Mail chiselling is present on cast. Baldric is present. Sword is present. Cloak is absent. Oval shield with wreath blazon. Mail edging is ragged, very small lappets, or fringed.

SCENE CXLVIII  FIGURE 9

SCENE CXLVIII  FIGURE 10
Auxiliary infantryman. Helmet type 17. Lorica hamata. Mail chiselling is absent. Cloak is absent.

SCENE CXLVIII  FIGURE 11
Auxiliary infantryman. Helmet type 17. Lorica hamata. Mail chiselling is absent. Baldric is present. Sword is present. Cloak is absent. Oval shield with piles blazon. Tunic with tufts. Mail edging is zig-zag.

SCENE CXLVIII  FIGURE 12
Auxiliary infantryman. Helmet type 17. Lorica hamata. Mail chiselling is absent. Baldric is absent. Cloak is absent. Tunic with tufts. Mail edging is zig-zag.

SCENE CXLVIII  FIGURE 13
Auxiliary infantryman. Helmet type 17. Lorica hamata. Mail chiselling is absent. Cloak is absent.

SCENE CXLVIII  FIGURE 14
Dacian. Bare head. Tunic.

SCENE CXLVIII  FIGURE 15
Auxiliary infantryman. Lorica hamata. Mail chiselling is absent. Baldric is present. Cloak is absent. Oval shield with piles blazon. Tunic with tufts.

SCENE CXLVIII  FIGURE 16
Auxiliary infantryman. Lorica hamata. Mail chiselling is absent. Baldric is present. Cloak is absent. Oval shield with wreath blazon.

SCENE CXLVIII  FIGURE 17
Auxiliary infantryman. Helmet type 17. Lorica hamata. Mail chiselling is absent. Cloak is absent. Oval shield rear view or obscured.
SCENE CXLVIII   FIGURE 18
Auxiliary infantryman. Helmet type 17. Lorica hamata. Mail chiselling is absent. Cloak is absent.

SCENE CXLVIII   FIGURE 19
Auxiliary infantryman. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Cloak is absent. Oval shield with piles blazon. Tunic with tufts. Mail edging is ragged, very small lappets, or fringed.

SCENE CXLVIII   FIGURE 20
Auxiliary infantryman. Helmet type 17. Lorica hamata. Mail chiselling is surviving on the shaft. Cloak is absent. Oval shield rear view or obscured.

SCENE CL   FIGURE 1
Auxiliary infantryman. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is absent. Cloak is absent. Oval shield rear view or obscured. Mail edging is plain (unfinished). Mistake in detail.

SCENE CL   FIGURE 2

SCENE CL   FIGURE 3

SCENE CL   FIGURE 4
Auxiliary infantryman. Helmet type 22. Lorica hamata. Mail chiselling is present on cast. Cloak is absent.

SCENE CL   FIGURE 5

SCENE CL   FIGURE 6
Deity.

SCENE CL   FIGURE 7
Dacian. Pilleus. Bare torso. Mistake in figure type characteristics.

SCENE CL   FIGURE 8
Dacian. Pilleus. Bare torso. Mistake in figure type characteristics.

SCENE CL   FIGURE 9
Auxiliary infantryman. Helmet type 17. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Cloak is absent. Mail edging is ragged, very small lappets, or fringed.

SCENE CL   FIGURE 10
Dacian. Bare head. Tunic. Cloak is a fringed sagum.
SCENE CL  
FIGURE 11

SCENE CL  
FIGURE 12
Dacian. Bare head.

SCENE CL  
FIGURE 13
Auxiliary infantryman. Helmet type 17. *Lorica hamata*. Mail chiselling is present on cast.

SCENE CL  
FIGURE 14

SCENE CLI  
FIGURE 1
Auxiliary infantryman. Helmet type 17. *Lorica hamata*. Mail chiselling is surviving on the shaft. Baldric is present. Sword is present. Cloak is absent. Oval shield is unfinished. Mail edging is zig-zag. Mistake in detail.

SCENE CLI  
FIGURE 2

SCENE CLI  
FIGURE 3

SCENE CLI  
FIGURE 4
Auxiliary infantryman. Helmet type 22. *Lorica hamata*. Mail chiselling is surviving on the shaft. Baldric is present. Sword is present. Cloak is absent. Mail edging is zig-zag.

SCENE CLI  
FIGURE 5

SCENE CLI  
FIGURE 6
Dacian. Bare head. Tunic. Cloak is a fringed *sagum*. Oval shield with palmettes blazon.

SCENE CLI  
FIGURE 7
Dacian. Bare head. Tunic. Cloak is a fringed *sagum*.

SCENE CLI  
FIGURE 8

SCENE CLI  
FIGURE 9
SCENE CLI  FIGURE 10
Dacian. Bare head. Tunic. Cloak is a fringed sagum. Oval shield with tendrils blazon.

SCENE CLII  FIGURE 1
Auxiliary infantryman. Helmet type 17. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is absent. Cloak is absent.

SCENE CLII  FIGURE 2

SCENE CLII  FIGURE 3
Auxiliary infantryman. Lorica hamata. Mail chiselling is present on cast. Cloak is absent.

SCENE CLII  FIGURE 4
Dacian. Bare head. Tunic.

SCENE CLII  FIGURE 5
Auxiliary infantryman. Lorica hamata. Mail chiselling is absent. Cloak is absent. Oval shield with tendrils blazon.

SCENE CLII  FIGURE 6

SCENE CLIII  FIGURE 7
Auxiliary infantryman. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is present. Cloak is absent. Oval shield with Roman blazon. Tunic is absent. Mail edging is zig-zag. Mistake in detail.

SCENE CLIII  FIGURE 1
Auxiliary infantryman. Helmet type 17. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is present. Cloak is absent. Oval shield rear view or obscured. Mail edging is zig-zag.

SCENE CLIII  FIGURE 2
Auxiliary infantryman. Helmet type 17. Lorica hamata. Mail chiselling is surviving on the shaft. Baldric is present. Sword is present. Cloak is absent. Oval shield rear view or obscured. Tunic is absent. Mail edging is zig-zag. Mistake in detail.

SCENE CLIII  FIGURE 3

SCENE CLIV  FIGURE 1
Auxiliary infantryman. Bare head. Tunic. Baldric is absent. Sword is absent. Cloak is a sagum. Oval shield rear view or obscured. Tunic
Mistake in detail.

SCENE CLIV  FIGURE 2
Auxiliary infantryman. Bare head.

SCENE CLIV  FIGURE 3
Auxiliary infantryman. Bare head. Cloak is a sagum.

SCENE CLIV  FIGURE 4
Auxiliary infantryman. Bare head.

SCENE CLIV  FIGURE 5
Auxiliary infantryman. Bare head.

SCENE CLIV  FIGURE 6

SCENE CLIV  FIGURE 7
Auxiliary infantryman. Bare head.

SCENE CLIV  FIGURE 8
Auxiliary infantryman. Bare head. Cloak is a sagum.

SCENE CLIV  FIGURE 9
Auxiliary infantryman. Bare head.

SCENE CLIV  FIGURE 10
Auxiliary infantryman. Bare head. Tunic. Baldric is absent. Sword is absent. Cloak is a fringed sagum. Oval shield rear view or obscured. Tunic is absent. Mistake in detail.

SCENE CLIV  FIGURE 11
Auxiliary infantryman. Bare head.

SCENE CLIV  FIGURE 12
Auxiliary infantryman. Bare head. Tunic. Tunic is absent. Mistake in detail.

SCENE CLIV  FIGURE 13
Auxiliary infantryman. Bare head.

SCENE CLIV  FIGURE 14
Auxiliary infantryman. Bare head. Tunic. Cloak is a sagum. Oval shield rear view or obscured.

SCENE CLIV  FIGURE 15
Auxiliary infantryman. Bare head.

SCENE CLIV  FIGURE 16
Auxiliary infantryman. Bare head. Cloak is a sagum.

SCENE CLV  FIGURE 1
Roman civilian. Bare head.
SCENE CLV FIGURE 2
Roman civilian. Bare head.

SCENE CLV FIGURE 3
Roman civilian. Bare head.

SCENE CLV FIGURE 4
Roman civilian. Bare head.

SCENE CLV FIGURE 5
Roman civilian. Bare head.

SCENE CLV FIGURE 6
Roman civilian. Bare head.

SCENE CLV FIGURE 7
Roman civilian. Bare head.

SCENE CLV FIGURE 8
Roman civilian. Bare head.
Appendix 2: 'Loricae Segmentatae'.

Banded armour worn by the citizen soldiers on the spiral frieze has been categorised according to chest and upper back plate fittings (Types 1-26; see Fig.13). Drawings accompanying this appendix are modelled on XVIII, 5.

1. Chest plates fastened together by two horizontal buckled straps which are attached to one plate by a studded lobate-hinged fitting. Back plates with two or three studded double-lobate fittings. IV, XI, XII, XIII, XVIII. Pl.10-1, 16.

2. Chest plates fastened together by a horizontal tie on a curvilinear fitting. Four studs surround the latter. IV, XV. Pl.4-5.

3. Chest plates fastened together by a horizontal tie in a reef-knot. The ends of the tie are attached to the plates by studded rectangular fittings. XXXIX. Pl.37, 38.

4. Chest plates fastened together by an upper knotted tie and a lower buckled strap. Both fastenings are attached to the plates by curvilinear, studded fittings. XL.

5. Chest and back are represented with four plates each, divided up by a vertical and a horizontal joint. The upper and lower plates are horizontally attached in pairs by a strip with a stud at both ends. X, XI, XVI, XVII, XIX, XX, XL, XLIII, XLIX, LX, CXIV, CXXIII, CXXXVII, CXXXVIII. Pl.9, 15, 17, 53, 106.

6. Chest and back, each with a pair of vertically joined plates, have one horizontally attachment strip. Above and below the latter are two large studs positioned over the joint. XIX.

7. Chest and back plates attached by two horizontal strips, between which is one large stud positioned over the vertical joint. XXVII, LXXII. Pl.78.

8. Chest and back each with a pair of plates. Four studs appear on the chest, two on each plate. XXI. Pl.18.

9. Chest and back each divided into four plates. One stud in each quarter. LXXXV.
10. Chest and back plates joined by one horizontal plain rectangular fitting. 
   XLIX, LV.

   XCV, CII, CVI, CX, CXXVII.

12. Chest and back plates with an edges vertical joint. Attached by 
   horizontal rectangular fittings with a medial ridge, two on the 
   chest, three on the back. 
   LXII, CIV.

13. Edged vertical joint between plates with one horizontal fitting 
    linking the two plates. The fitting has two studs on it. 
    XXIV.

14. Plain vertical joint fastened by two edged rectangular plates, each 
    with a pair of studs. 
    LI, LII. 
    Pl.47.

15. Chest and back plates with plain vertical joint and fastened by 
    three rectangular fittings, each with four corner studs. The 
    fittings also appear on the girdle plates. 
    LXXIII. 
    Pl.83.

16. Chest with two and back with three long, narrow rectangular 
    fittings, each with a medial ridge over the vertical plate joint. 
    XCVIII.

17. Plates horizontally fastened by an upper plain curvilinear fitting 
    and a lower plain rectangular piece. 
    XLII, XLIX, CXV. 
    Pl.41.

18. Plates horizontally fastened by two curvilinear fittings, each with 
    one or two studs. 
    XXVI, XXXIX, XLIX, LVI, LXXII, CVI, CVII, CXXVII. 
    Pl.37, 50, 79.

19. Plates with an edged vertical joint and fastened by two curvilinear 
    plates, each with a vertical medial ridge and four studs. Fittings 
    also appear on the girdle plates. 
    LXVIII. 
    Pl.73.

20. Plates with an edged vertical joint and fastened by two curvilinear 
    fittings, each with a horizontal hinge or beading over the joint. 
    Fittings also appear on the girdle plates. 
    CXVI, CXVII, CXXIX. 
    Pl.111.

21. Plates fastened by two plain curvilinear fittings with dove-tail 
    ends. 
    XCVI, CXIV.
22. Plates with a beaded vertical joint and fastened by one curvilinear fitting with four corner studs. Fittings also appear on the girdle plates.
LXVIII.
Pl.73.

23. Plates fastened by one chest and two back rectangular fittings with toothed ends and a pair of studs. Fittings also appear on the girdle plates.
LXV, LXVI, LXXI, LXXIII, CI, CXVI.
Pl.64, 77, 83.

24. Plates with a beaded vertical joint, fastened by one plain curvilinear, toothed fitting. Beading extends down the joint between girdle plates.
LXVI, LXVIII, CI, CXXIV.
Pl.66-7.

25. Plates fastened by two ridged and toothed curvilinear fittings. Rectangular fittings with corner studs fasten the girdle plates.
LXV, LXVI.
Pl.66.

26. Plates with either no fastenings or one or two horizontal strips with studded ends. The girdle plates have studded rectangular rosette fittings.
LX, LXXIX.
Pl.53, 74.

These variations of fittings group into seven super-categories: lobate (Type 1), tie (2-6, 26), stud (7-9), rectangular (10-6), rectangular and curvilinear (17), curvilinear (18-22) and toothed (23-5) fastenings (Fig.14).
Appendix 3: Helmets

Helmets are primarily categorised by whether or not they have a frontal brow plate on the bowl; a ridge or peak on the front and forward sides of the bowl; or a ridge or peak all round the bowl. The latter feature may be horizontal or at an angle, higher at the front than at the back. The apex of the bowl further defines the helmet type because it can be plain and featureless, have a standing ring, a crest, or a point. The bowl may or may not be divided up by ribs or have decorative features such as a wreath or studs. The neck flange may curve down and be large, or squared off and small. Some helmets belong to specific figure types, the archers and Sarmatians, and others are only seen from above because they are not being worn (Fig. 11-2).

Scenes in which each type is to be found are as follows.

1. XIV, XVIII, XXIV, XL, XLVI, LXXXV.
2. XXI, XXIV, XXVIII, XL.
3. LIV, CVI.
4. XXIV, LIV, CXIII.
5. XXII.
6. XCV, XCVII.
7. CV, CXL, CXIII, CXIV.
8. XI, XVIII, XXI.
9. XIII.
10. XCV, XCVI, CIV.
11. LXXIII.
12. CXIV.
13. LXII, CXXIII.
14. LXI, LXII, LXIII, LXVI, LXXII, CXXIII.
15. CXIV.
16. XXIV, XXIX, LXI, CXV, CXLI.
17. XXXII, XL, LXXV, C, CXLII, CXLIII, CXLV, CXLVI, CXLVII, CL, CLI, CLII, CLIII.
18. XXXII, LXII, CXXIII.
19. XCV, CIX.
20. XXIV, XXV, XXXVI, XL, LX, CXXVII, CXXVIII, CXXXIII.
21. CXIII, CXV, CXVI, CXXIII.
22. X, XXIII, XXX, XL, LIV, LX, LXV, LXVI, LXIX, LXX, LXXI, LXXV, CVII, CXIII, CXV, CXVI, CXXVI, CXXVII, CXLV, CL, CLI, CLII.
23. XXXVIII, CXIII.
24. XVIII.
25. XIV, XXIV, XXXVI, XL, XLI, XLII, XLI, XLVI, LXXI, LXXII, XCVII, CV, CVIII.
26. XXIV, XXXVI, XXXVII, XXXVIII, XL, XLI, LXI, LXII, LXIII, LXIV, XCV, XCVI, CVI, CXI, CXLII.
27. XXI.
28. XXXVI.
29. LXX, CVIII, CXV.
30. XXXI, XXXVII, LXXI.
31. XL, CXIII.
32. IV, XXXIII, XLVII, LXI, CI.
33. XXXIII, XL, XLII, LIV, LXXXVI.
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Appendix 4: Shield Blazons

A. Rectangular Shield Blazons (Fig. 16)

1. Thunderbolts and wings. Thunderbolts radiating out from the shield boss and eale-wings on the sides of the boss. With or without small additional motifs: stars, crescents and 'L' shapes. Pl. 18, 30, 41, 66, 77-9

2. Wreath. Laurel wreath encircling the boss, with or without fillets trailing below. Sometimes provided with additional small motifs. Pl. 5, 77.


B. Oval Shield Blazons (Fig. 17-20)

1. Roman. 'Roman' motifs of thunderbolts, wings, eagle with fulmen, lupercal or combinations of these. Pl. 28-9, 41, 57, 63, 69, 99.

2. Wreath. Laurel wreath encircling the boss, with or without fillets and small additional motifs of stars and crescents. Alternatively, circular wreaths appear above, below and flanking the boss. Pl. 12, 36, 41, 91, 112, 114, 117.

3. Tendrils. Dominant pattern of curling tendril decoration over the whole field, with or without rosettes and other small motifs. Pl. 49, 77, 81, 84, 114, 118.

4. Palmette. Sprays of palmette fronds above, below and flanking the boss. Pl. 36, 113, 118.

5. Rings. Concentric rings encircling the boss, with or without small motifs. Some of these may represent unfinished laurel wreath blazons. Pl. 74, 79.

6. Piles. Dominant triangular motifs above and below the boss, and sometimes flanking it in addition. With or without additional small motifs and tendrils. Pl. 25, 27, 41, 77, 91, 104, 119.

7. Small Motifs. Blazon with only the small motifs alluded to above: stars, crescents, peltae, hearts, torques and 0-b motifs. Pl. 76

C. Oval Shield Blazon Percentages

Figures in the tables for Roman shields include auxiliary infantry and cavalry, bare-chested irregulars, and slingers. Dacian figures include Dacian infantry and cavalry, and Germans. The first set are quantities and percentages calculated for all the oval shields whilst the second table is adjusted after the exclusion of unfinished blazons.

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<td>60 30%</td>
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<td>Tendrils</td>
<td>25 12%</td>
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<td>Palmettes</td>
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<td>Rings</td>
<td>5 2.5%</td>
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<td>Piles</td>
<td>42 20.5%</td>
<td>80 44%</td>
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<td>19 9%</td>
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