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Figure 1. Silver tetradrachm of King Philip II of Macedonia (359-336 BC), mint of Pella/Amphipolis. Obverse: laureate head of Zeus I. Reverse: youth with palm branch on horse pacing r. Diam. 23mm, wt. 14.2g. Barber Institute Coin Collection G005.

Fig. 2. Orich sestertius of Trajan (AD 98-117), mint of Rome. Obverse: IMP CAES NERVAE TRAIANO NAVG GER DAC P M TR P COS V P P laureate bust in r. profile. Reverse: S P Q R OPTIMO PRINCIPI S C Trajan thrusts spear at Dacian. Diam. 32mm, wt. 23.08g. Barber Institute Coin Collection R1104.

Fig. 3. Gold solidus of Justin II (565-78), mint of Constantinople. Obverse: D N IVSTI-NVS PP AVG facing bust of Justin with helmet, holding in r. hand globe surmounted by Victory and in l. hand shield. Reverse: VICTORI-A-AVGGG H CONOB Constantinopolis holding sceptre in r. hand and globe with cross in l. hand. Diam. 21mm, wt. 4.46g. Barber Institute Coin Collection B1134.



Fig. 4. Gold solidus of Emperor Anastasios (AD 491-518), mint of Constantinople. Obverse: D N ANASTAS IVS PERP AVG facing bust with diademed helmet, cuirass, spear in r. hand and shield with horse and rider in l. Reverse: VICTORI A AVGGG[] CONOB Victory standing l. with long cross. Diam. 20mm, wt. 4.39g. Barber Institute Coin Collection B0001.

Fig. 5. Bronze coin of Arcadius (383-408), mint of Antioch. Obverse: [ ] [ ] ARCADI laureate bust in r. profile. Reverse: GLORIA-ROMANORUM ANTB emperor riding r. and raising r. arm. Diam. 17mm, wt. 3.16g. Barber Institute Coin Collection LR375.

Fig. 6. Silver ceremonial issue of Leo III (717-41), mint of Constantinople. Obverse: δNDLEO N PAMvL facing bust with helmet with cross, and with spear over shoulder in r. hand and shield in l. hand. Reverse: VICTORIA AV gv CONOB cross on base and three steps. Diam. 19mm, wt. 5.58g. Barber Institute Coin Collection B4517 (clipped).





Fig. 7. Class 13 copper trachy of Andronikos III (1328-41), mint of Thessaloniki. Obverse: Palaeologan monogram. Reverse: B Andronikos riding r., star upper r. field; no inscription. No diam. or wt. given. Reproduced from Bendall, S. and Donald, P.J. 1979 *The Later Palaeologan Coinage 1282-1453*, 242-43, coin no 13. Nb for the coins in figs 7, 8, and 9 this thesis follows the DOC designation of obverse and reverse, which is the opposite to that of Bendall and Donald.

Fig. 8. Class 12 copper trachy of Andronikos III (1328-41), mint of Thessaloniki. Obverse: bust of St Demetrios holding spear over shoulder with r. hand, no inscription. Reverse: B. Andronikos riding r., star in upper r. field. No diam. or wt. given. Reproduced from Bendall, S. and Donald, P.J. 1979 *The Later Palaeologan Coinage 1282-1453*, 242-43, coin no 14.

Fig. 9. Class 14 copper trachy of Andronikos III (1328-41), mint of Thessaloniki. Obverse: St Demetrios in military tunic riding r., star in upper r. and l. fields, no inscription. Reverse: B. Andronikos riding r., star upper r. field. No diam. or wt. given. Reproduced from Bendall, S. and Donald, P.J. 1979 *The Later Palaeologan Coinage 1282-1453*, 242-43, coin no 15.



Fig. 10. Aspron trachy nomisma in electrum of John II (1118-43), mint of Constantinople. Obverse: IC XC Christ seated on backless throne and raising r. hand in blessing. Reverse: ΙΩ|ΔCC|ΠΟ|ΤΗ ΟΑ|CΓ|ΡΩ|ΙΓ John on l. with St George on r. holding patriarchal cross between them. Diam. 33mm, wt. 4.14g. Barber Institute Coin Collection B5629.

Fig. 11. Class IV gold histamenon of Constantine IX (1042-55), mint of Constantinople. Obverse: +IhCXICRCXRCSNANTIhM bust of Christ Pantokrator. Reverse: +CΩNSTANT NOSbASILEUSRm facing bust of Constantine holding globus cruciger in r. hand and sheathed sword in l., star in r. and l. fields. Diam. 25mm, wt. 4.36g. Barber Institute Coin Collection B5349.

Fig. 12. Silver miliaresion of Constantine IX (1042-55), mint of Constantinople. Obverse: MP ΘV +ΔECΠOI NACΩZ OIC Virgin orans standing. Reverse: EVCERH MONOMAXON Constantine in armour, standing with long cross in r. hand and sheathed sword in l. Diam. 30mm, wt. 2.76g. Barber Institute Coin Collection B5356.



Fig. 13. Portrait of Basil II (976-1025), from the *Psalter of Basil II*, Venice, the Marcian Library; Cod. Gr. 17. (Reproduced from Talbot Rice, D. 1959, *The Art of Byzantium*, plate XI.)



Fig. 14. The Barberini Ivory, c. 6<sup>th</sup> century. The central panel depicts the emperor, with a consul in the left panel, Christ above, and an embassy from India in the lower panel. (Paris, Musée du Louvre. Talbot Rice, D. 1959, *The Art of Byzantium*, plate 19.)





Fig. 15. Class I gold histamenon of Isaac I (1057-59), mint of Constantinople. Obverse: +IhSXISNCX RCNANTIH M Christ seated on backless throne, with r. hand raised in blessing and l. holding Gospels. Reverse: +ICAAKIOC RACIAE VCPOM Isaac standing in armour, holding labarum in r. hand and sheathed sword in l. Diam. 26mm, wt. 4.41g. Barber Institute Coin Collection B5365.

Fig. 16. Class II gold histamenon of Isaac I (1057-59), mint of Constantinople. Obverse: +IhSXISNCX RCNANTIH M Christ seated on backless throne, with r. hand raised in blessing and l. holding Gospels. Reverse: +ICAAKIOC RACIAEVCPOM Isaac standing in armour, with drawn sword over r. shoulder and sheath in l. hand. Diam. 28mm, wt. 4.42g. Barber Institute Coin Collection B5367.

Fig. 17. Silver miliaresion of Michael VII (1071-78), mint of Constantinople. Obverse: +ΘKEROHΘEI TQC ΩΔΟVΛΩ Virgin orans standing between MP ΘV. Reverse: +MIXAHΛ RACIA OΔKA Michael standing wearing breastplate and military dress, with long cross in r. hand and sheathed sword in l. Diam. 28mm, wt. 2.43g. Barber Institute Coin Collection B5468.



Fig. 18. Class II miliaresion in billon of Nikephoros III (1078-81), mint of Constantinople. Obverse: +ΘΚΕΡΟΗΘ' ΤCΩΔΟVΛΩ Virgin orans standing. Reverse: +ΝΙΚΗΦΔΕC ΤΩΡΟΤΑΝ' Nikephoros standing, wearing crown, breastplate and armour, holding long cross in r. hand and sheathed sword in l. Diam. 25mm, wt. 1.8g. BZC.1956.23.229. Copyright Dumbarton Oaks, Byzantine Collection, Washington, DC.

Fig. 19. Aspron trachy nomisma in silver of Michael VIII (1259-82), mint of Nicaea. Obverse: X|M Archangel Michael with sword on shoulder in r. hand. Reverse: X|MΔE OΑ|ΓΟΡ full-length figures of emperor on l. and St George on r. Michael holds sceptre cruciger in r. hand and saint holds sword or shield in l. hand. They hold labarum on globe between them. Diam. 27mm, wt. 1.67g. BZC.1969.74. Copyright Dumbarton Oaks, Byzantine Collection, Washington, DC.



Fig. 20. Histamenon in billon of Alexios I (1081-1118), mint of Thessaloniki (?). Obverse: ΚΕΡΟ ΛΛΕΙΩ bust of Christ holding Gospels in l. hand. Reverse: Μ ΔC|C|Π|Τ|Η St Demetrios in military dress standing on l. with sword in l. hand; Alexios on r. in jewelled loros. They hold patriarchal cross between them. Diam. 25mm, wt. 4.09g. Barber Institute Coin Collection B5532.

Fig. 21. Type B half tetarteron noummion in copper of John II (1118-43), mint of Thessaloniki (?). Obverse: ΟΔΗΜΗ ΤΠΙΟC St Demetrios in military dress with spear in r. hand and shield in l. Reverse: +ΙΩ ΔC C John in non-military dress with labarum-headed sceptre in r. hand and globus cruciger in l. Diam. 16mm, wt. 2.3g. Barber Institute Coin Collection B5685.

Fig. 22. Aspron trachy nomisma in electrum of Manuel I (1143-80), mint of Constantinople. Obverse: IC XC Christ standing with Gospels in l. hand. Reverse: ΜΑΝΟΥΗΛ ΟΘΕΟΔΩΡΟΣ Manuel in non-military dress on l. holding sheathed sword in r. hand. St Theodore in military tunic and breastplate on r. holding sheathed sword in l. hand. They hold patriarchal cross between them. Diam. 31mm, wt. 4.14g. Barber Institute Coin Collection B5701.



Fig. 23. Type B tetarteron noummion in bronze of Andronikos I (1183-85), mint of Thessaloniki (?). Obverse: Ο|ΛΓ|Ο|ΣΓ|Ε ΩΡ|Γ|Σ St George in breastplate holding spear in r. hand and shield with lys motif in l. Reverse: ΑΝΔΡ.ΝΙΚ.Σ [ΔΕ ΣΠΟΤΗΣ?] Andronikos in non-military dress holding labarum in r. hand and patriarchal cross in l. *Manus Dei* upper r. field. Diam. 21mm, wt. 3.33g. Barber Institute Coin Collection B5844.

Fig 24. Gold nomisma hyperpyron of Isaac II (1185-95), mint of Constantinople. Obverse: ΜΡ ΘΥ Virgin seated on throne holding head of Christ on her breast. Reverse: ΙΣΑΑΚΙΟΣ ΔΕΣΠΙ Χ|ΑΡ or ΟΑ|ΧΜΙ Χ|Μ. Isaac standing on l. wearing stemma, divitision and loros, holding sceptre cruciger in r. hand. Archangel Michael standing on r. wearing military tunic, breastplate and sagion. They hold between them sheathed sword, hilt upwards; *Manus Dei* upper central field. Diam 29mm, wt. 4.33g. Barber Institute Coin Collection B5865.

Fig. 25. Bronze terarteron noummion of Alexios III (1195-1204), mint of Thessaloniki (?). Obverse: Ο|ΓΕ|ΩΡ Γ|Ο|Σ St George in military tunic, breastplate and sagion with spear in r. hand over l. shoulder; sword in l. hand. Reverse: ΑΛΕΞ|ΙΟ|Σ ΔΕΣΠΟΤΗΣ Alexios in non-military dress holding labarum in r. hand and globus cruciger in l. Diam. 20mm, wt. 4.12g. Barber Institute Coin Collection B5950.





Fig. 26. Type B aspron trachy nomisma in electrum of Theodore I (1205/08-21), mint of Nicaea. Obverse: IC XC Christ seated on throne holding Gospels in l. hand. Reverse: ΘΕΟΔΩΡΟCΔΕCΠΟΤ Ο, ΘΕΟΔΩΡΟC Theodore in non-military dress on l. holding sheathed sword point down in r. hand. St Theodore in military tunic, breastplate and sagion on r. holding sheathed sword point down in l. hand. They hold long shaft with star between them. Diam. 30mm, wt. 4.31g. Barber Institute Coin Collection B6075.

Fig. 27. Type B aspron trachy nomisma in billon of John III (1221-54), mint of Magnesia. Obverse: Ο|Α|Γ|Ι|Ο|C Γ|Ε|Ω|Ρ St George wearing military tunic, breastplate and sagion holding spear in r. hand and shield in l. Reverse: ΙΩΔΕ John on l. in non-military dress holding labarum-headed sceptre in r. hand and globus cruciger in l. Christ on r. crowns John, and holds Gospels in l. hand. Diam. 25mm, wt. 2.0g. Barber Institute Coin Collection B6094.

Fig. 28. Type Q aspron trachy nomisma in billon of John III (1221-54), mint of Magnesia. Obverse: ΟΑ|Δ|Η ΜΙ|ΤΡ|Ι|C St Demetrios wearing military tunic, breastplate and sagion holding sword on shoulder with r. hand and shield with l. Reverse: ]ΙCΟΔΟΥΚΑC John standing wearing stemma, divitision and loros, holding labarum-headed sceptre in r. hand and globus cruciger in l. Diam. 23mm, wt. 2.94g. Barber Institute Coin Collection B6572 (addenda).



Fig. 29. Type A tetarteron noummion in bronze of John III (1221-54), mint of Magnesia. Obverse: no inscription; square of four interlaced bands, decorated with pellets. Reverse: ΙΩ|ΔΕC|ΠO|TH|C Ο|ΔOY|KA|C John in stemma, military tunic, breastplate and sagion, holding drawn sword on shoulder with l. hand, sheath in r. Diam. 22mm, wt. 3.45g. Barber Institute Coin Collection B6097. (Obverse photographed on right in Barber catalogue.)

Fig. 30. Type C tetarteron noummion in bronze of John III (1221-54), mint of Magnesia. Obverse: O A Γ O P St George in military tunic, breastplate and sagion, holding spear on shoulder in r. hand and shield in l. Reverse: ΙΩ|ΔΕC|ΠO|TH|C Ο|ΔOY|KA|C John wearing stemma, divitision and loros holding labarum in r. hand and *anexikakia* in l. Diam. 19mm, wt. 1.61g. Barber Institute Coin Collection B6101.

Fig. 31. Type C aspron trachy nomisma in billon of Theodore II (1254-58), mint of Magnesia. Obverse: O|A|Γ|O|C Θ|E|O|Δ|Ω|P|O|C St Theodore wearing military tunic, breastplate and sagion, holding spear in r. hand and shield in l. Reverse: Θ|E|O|Δ|Ω|P|O|C Δ|E|C|Π|O|T|H|C O|Λ|A|C|K|A|P|I|C or O ΔOYKAC but only Θ|E|O|Δ|Ω|P|O|C Π|O|T|H|O|A|C visible. Emperor wearing stemma, divitision and loros holding labarum in r. hand and globus with patriarchal cross in l. Diam. 29mm, wt. 4.71g. Barber Institute Coin Collection B6108. (Pierced.)



Fig. 32. Type D aspron trachy nomisma in billon of Theodore II (1254-58), mint of Magnesia. Obverse: IC XC O EMMANOUHA, but only OE|MM Λ|N visible. Bust of Christ holding scroll in l. hand. Reverse: ΘΕΟΔΩΡΟΣ ΔΕCΠΙΟΤΗC Ο ΔΟΥΚΑC Ο ΑΓΙΟC ΤΡΥΦΩΝ but only ΤΡΥ|Φ|ΔΕ|Π visible. Theodore on l. in non-military dress holding labarum in r. hand. St Tryphon on r., wearing military tunic, breastplate and sagion and holding sceptre in l. hand. They hold between them lys on long shaft. Diam. 31mm, wt. 2.85g. Barber Institute Coin Collection B6106.

Fig. 33. Type C aspron trachy nomisma in electrum of Theodore Angelos (1225/7-30), mint of Thessaloniki. Obverse: ΜΡ ΘΥ Virgin seated on throne, holding head of Christ on her breast. Reverse: IC XC ΘΕΟΔΩΡΟC ΔΟΥΚΑC Theodore on l. wearing stemma, divitision and loros holding sheathed sword in r. hand and *anexikakia* in l. Christ on r. with Gospels in l. hand crowns emperor. Diam. 30mm, wt. 3.27g. Barber Institute Coin Collection B6117.

Fig. 34. Type C aspron trachy nomisma in billon of Theodore Angelos (1225/7-30), mint of Thessaloniki. Obverse: ΜΡ ΘΥ Virgin seated on throne holding head of Christ on her breast. Reverse: ΘΕΟΔΩΡΟC ΔΕCΠΙΤ Ο ΑΓΙΟC ΘΕΟΔΩΡ emperor in non-military dress on l. holding sheathed sword in r. hand; St Theodore on r. wearing military tunic, breastplate and sagion holds lance in l. hand. Between them they hold cross in circle. Diam. 32.7 mm, wt. 3.08g. Barber Institute Coin Collection B6118. (Pierced.)



Fig. 35. Type B aspron trachy nomisma in silver of Theodore Angelos (?1225/7-30), mint of Thessaloniki. Obverse: ΜΡ ΘΥ ΗΑΓΗ|ΟC ΩΡΗΤ|ΗC|Α full-length figure of Virgin orans. Reverse: ΘΕΟΔΩΡΟCΔΕCΠΙΟ Ο ΑΓΙΟC ΔΙΜΙΤΡΙΟC Theodore standing on l. and St Demetrios on r. Saint presents walled city to emperor. *Manus Dei* upper central field. Diam. 29mm, wt. 1.95g. BZC.1960.88.4206. Copyright Dumbarton Oaks, Byzantine Collection, Washington, DC.

Fig. 36. Type F aspron trachy nomisma in billon of Theodore Angelos (?1225/7-30), mint of Thessaloniki. Obverse: Ο|ΑΓ|ΙΟ|C ΔΗ|Μ|ΡΙ|ΤΡΙ|ΟC St Demetrios seated on backless throne, with sword hilt in r. hand and sheath in l. across knees. Reverse: ΘΕΟΔΩΡΟCΔΕC. ΜΡ ΘΥ half-length figures of Theodore on l. and Virgin holding between them patriarchal cross on globe. Emperor holds sceptre cruciger in r. hand; *Manus Dei* upper l. field. Diam. 31mm, wt. 2.69g. BZC. 1960.88.4147. Copyright Dumbarton Oaks, Byzantine Collection, Washington, DC.





Fig. 37. Tetarteron noummion in bronze (variety B) of Theodore Angelos (1225/7-30), mint of Thessaloniki. Obverse: vertical inscription only: +ΘΕ ΟΔΩΡΟΣ ΔΕΣΠΟΤ ΗΣΟΔΟΥ ΚΑC. Reverse: ΘΕΟΔΩΡΟΣΔΕC ΠΟΤ ΑΓΗΟCΔΗΜΗΤΡΟC Theodore in non-military dress on l. and St Demetrios in military tunic, breastplate and sagion on r. holding patriarchal cross-crosslet on three steps between them. Emperor holds *anexikakia* in l. hand, saint holds sword on shoulder in r. hand and shield in l. Diam. 23mm, wt. 3.1g. Barber Institute Coin Collection B6121. (Obverse photographed on right in Barber catalogue.)

Fig. 38. Type B aspron trachy nomisma in silver of Manuel Komnenos Doukas (1230-37), mint of Thessaloniki. Obverse: ΜΡ ΘΥ Virgin seated on backless throne holding head of Christ on her breast. Reverse: ΜΑΝΟΥΗΛΔΕCΠ Χ|ΑΡ or Χ|Μ Manuel on l. wearing stemma, divitision and loros holding sceptre cruciger in r. hand; Archangel Michael on r. wearing military tunic, breastplate and sagion holding labarum-headed sceptre in l. hand. They hold sheathed sword between them. Diam. 27mm, wt. 3.27g. Barber Institute Coin Collection B6124.

Fig. 39. Type A aspron trachy nomisma in billon of Manuel Komnenos Doukas (1230-37), mint of Thessaloniki. Obverse: Ο|ΑΓΙ|ΟC Δ|ΗΜ|ΙΤ|ΡΟC St Demetrios wearing military tunic, breastplate and sagion holding spear in r. hand and ? sword in l. Reverse: ΜΑΝΟΥΗΛΔΕC ΙC ΧC Manuel in non-military dress on l., holding sceptre cruciger in r. hand and *anexikakia* in l.; crowned by Christ holding Gospels in l. hand. Diam. 32mm, wt. 2.79g. Barber Institute Coin Collection B6122.



Fig. 40. Type C aspron trachy nomisma in billon of Manuel Komnenos Doukas (1230-37), mint of Thessaloniki. Obverse: ΜΡ ΘΥ bust of Virgin orans. Reverse: ΜΑΝΟΥΗΛΔΕΥ ΟΑ(ΔΙΜΙΤΡΙΟΥ) ΓΙΟΥC Manuel on l. holding sceptre cruciger in r. hand and St Demetrios (?) on r. with spear in l. hand. Saint hands globus with patriarchal cross to emperor. Diam. 17mm, wt. 0.64g. Barber Institute Coin Collection B6125. (Clipped.)

Fig. 41. Type B aspron trachy nomisma in billon, series I, of John Komnenos Doukas (1237-42), mint of Thessaloniki. Obverse: Γ|ΟΑ|Δ|Θ|ΕΟ St Theodore wearing military tunic, breastplate and sagion with spear in r. hand and shield in l. Lys in r. and l. fields. Reverse: ΙΩΑΝΗCΔC (sic) ΚΙΤ ΟΔΕΥ John wearing stemma, divitision and loros on l. holding labarum-headed sceptre in r. hand and *anexikakia* in l. St Demetrios in military tunic, breastplate and sagion on r. holding sword in l. hand crowns emperor. Diam 29mm, wt. 4.56g. Barber Institute Coin Collection B 6127.

Fig. 42. Aspron trachy nomisma in billon of Demetrios Komnenos Doukas (1244-46), mint of Thessaloniki. Obverse: ΙC ΧC ΟΕΜΜΑΝΟΥΗΛ bust of Christ holding scroll in l. hand. Reverse: ΧΑΡ Χ|Μ Archangel Michael holding labarum on long shaft in r. hand and globus cruciger in l. Diam. 29mm, wt. 2.8g. Barber Institute Coin Collection B6131.



Fig. 43. Type G aspron trachy nomisma in billon of Manuel Komnenos Doukas (1230-37), mint of Thessaloniki. Obverse: X|AP X|M Archangel Michael unsheathing sword with r. hand; sheath in l. hand. Reverse: MANUHΛΔEC(ΠOT)I ΠOΛIC|ΘECCA|ΛON|IKH Manuel on l. with St Demetrios, both seated on throne, holding between them model of Thessaloniki. Manuel holds labarum-headed sceptre in r. hand; saint holds sword resting over shoulder in l. hand. Diam. 30mm, wt. 3.81g. BZC.1956.23.4216. Copyright Dumbarton Oaks, Byzantine Collection, Washington, DC.

Fig. 44. Type Q aspron trachy nomisma in billon, series III, small module, of John Komnenos Doukas (1237-42), mint of Thessaloniki. Obverse: radiate cross, no inscription. Reverse: ΔE full-length figure of John in military dress, holding sword over shoulder with r. hand and castle with three towers representing Thessaloniki with l. Diam. 20mm, wt. 1.12g. BZC.1960.88.4264. Copyright Dumbarton Oaks, Byzantine Collection, Washington, DC.



Fig. 45. Type D aspron trachy nomisma in billon of John III (1246-54), mint of Thessaloniki. Obverse: Γ|OΛ|ΔH|MH TΠI|OC St Demetrios with sword in r. hand and sheath across knees in l. Reverse: IΩ O|Δ|OV John in military tunic, breastplate and sagion holding labarum in r. hand and *anexikakia* in l. Diam. 25mm, wt. 1.49g. BZC.1960.88.4260. Copyright Dumbarton Oaks, Byzantine Collection, Washington, DC.

Fig. 46. Type I aspron trachy nomisma in billon of John III (1246-54), mint of Thessaloniki. Obverse: Γ|OA|ΓE|Ω P|ΓI|O|C bust of St George with spear in r. hand resting over l. shoulder and shield in l. hand. Reverse: Δ|Π|T IΩ Δ|M|TP half-length figures of John and St Demetrios holding between them cross-in-circle surmounting triangular decoration on long shaft. Diam. 29mm, wt. 2.07g. BZC.1960.88.4110. Copyright Dumbarton Oaks, Byzantine Collection, Washington, DC.





Fig. 47. Aspron trachy nomisma in billon of Theodore II (1254-58), mint of Thessaloniki. Obverse: large cross with floreate ends, no inscription. Reverse: Λ|K|O|ΛA|CKA|PI|C ΘEOΔ|ΩP O|Δ|M|T|P Theodore on l., and St Demetrios on r. holding spear on shoulder with l. hand. Between them they hold model of walled city. Diam. 29mm, wt. 2.86g. BZC.1960.88.4115. Copyright Dumbarton Oaks, Byzantine Collection, Washington, DC.

Fig. 48. Type 25 copper trachy of Michael VIII (1259-82), mint of Constantinople. Obverse: M Θ Virgin seated on throne and holding medallion of Christ. Reverse: X|M|ΔEC|ΠO|T|S O|ΠA|ΔE|OΛ|OΓ|S emperor in loros holding drawn sword across body. Diam. not given, wt. 1.37g. BZC.1960.88.4342. Copyright Dumbarton Oaks, Byzantine Collection, Washington, DC.



Fig. 49. Steatite icon with three military saints; Byzantine (Constantinople?), 12<sup>th</sup> century. St Theodore Stratelates is shown on the left, St George in the centre, and St Demetrios on the right. 17.5 x 13.4 x 0.8cm. Natsional'nyi Zapovidnik "Khersones Tavriis'kyi", Sevastopil', Ukraine (84/36 445). Reproduced from Evans, H.C. and Wixom, W.D. (eds) *The Glory of Byzantium. Art and Culture of the Middle Byzantine Era AD 843-1261*, New York 1997, p. 300-01, fig. 203.



Fig. 50. Type III gold hyperpyron of Michael VIII (1259-82), mint of Constantinople. Obverse: ΜΡ ΘΥ Virgin within walls of Constantinople. Reverse: ΜΑ|Μ|ΔΕC Π|ΟΤΙ ΙC ΧC Archangel Michael presents emperor to Christ. Diam. 27mm, wt. 3.5g. Barber Institute Coin Collection B6144.

Fig. 51. Type 8 copper trachy of Michael VIII (1259-82), mint of Constantinople. Obverse: ΜΡ ΘΥ Virgin orans standing. Reverse: Michael standing on l. with St George on r., holding labarum between them; no inscription visible. Diam. 22mm, wt. 1.73g. Barber Institute Coin Collection B6161.

Fig. 52. Type 9 copper trachy of Michael VIII (1259-82), mint of Constantinople. Obverse: Ο|Α|Γ|Ι|S ΔΗ|Μ|ΤΡ|S St Demetrios standing holding spear and shield. Reverse: Χ|Μ|Δ|Ε Μ ΘΥ|Ο|Π|Α|Ε|ΟΓ Michael on l. crowned by Virgin. Diam. 24mm, wt. 2.54g. Barber Institute Coin Collection B6162. (Clipped.)



Fig. 53. Type 11 copper trachy of Michael VIII (1259-82), mint of Constantinople. Obverse: O|A|Γ|I|S ΓE|ΩPΓ|I|S half-figure of St George holding spear and shield. Reverse: X|M|ΔE|CΠ|OT O|ΠA|ΩΓ|I emperor holding patriarchal cross with St Constantine. Diam. 25mm, wt. 1.69g. Barber Institute Coin Collection B6166. (Clipped.)

Fig. 54. Type 19 copper trachy of Michael VIII (1259-82), mint of Constantinople. Obverse: MP ΘV Virgin orans. Reverse: X|M|Δ|E|C|Π O|ΠA|ΔE|O|Γ|S emperor seated on throne with sword across knees. Diam. 24 mm, wt. 1.93g. Barber Institute Coin Collection B6168. (Pierced.)

Fig. 55. Type 38 copper trachy of Michael VIII (1259-82), mint of Thessaloniki (?). Obverse: Γ|OA|ΔI MH|TPI|OC St Demetrios with sword over r. shoulder and shield in l. hand. Reverse: emperor on l. holding long cross with Archangel Michael. (Inscription not visible.) Diam. 25mm, wt. 2.97g. Barber Institute Coin Collection B6176.





Fig. 56. Type 43 copper trachy of Michael VIII (1259-82), mint of Thessaloniki (?). Obverse: patriarchal cross with stars in upper quarters and lys in lower; no inscription. Reverse: ΜΙΧΑΗΛ ΔΕCΠ ΔΗΜ Michael on l. and St Demetrios on r. holding between them model city surmounted by lys. Emperor holds labarum-headed sceptre in r. hand and saint holds spear in l. hand. Wt. 2.15g. BZC.1960.88.4382. Copyright Dumbarton Oaks, Byzantine Collection, Washington, DC. (Diam. not in DOC.)

Fig. 57. Type 53 copper trachy of Michael VIII (1259-82), mint of Thessaloniki (?). Obverse: Γ|ΟΑ|Δ|Η ΜΗ|ΤΡ|Ι|Ο|C St Demetrios seated with sword across knees. Reverse: Μ|Ι|Ο|Π|Α|Λ|Ε|Ο(?) ΔΕC|Π|Ο emperor standing holding patriarchal cross and *anexikakia*. Wt. 2.68g. BZC.1960.125.1672. Copyright Dumbarton Oaks, Byzantine Collection, Washington, DC. (Diam. not in DOC.)



Fig. 58. Class 2 copper trachy of Andronikos II (1282-1328), mint of Constantinople. Obverse: ANΔ head of Christ surrounded by four crosses and four stars. Reverse: Archangel Michael presents kneeling emperor to Christ seated on r. (No inscription.) Diam. 23.8mm, wt. 2.05g. Barber Institute Coin Collection B6200.

Fig. 59. Type 14 copper trachy of Andronikos II (1282-1328) with Michael IX (1294-1320), mint of Constantinople. Obverse: Archangel Michael standing holding sword. Reverse: emperors standing holding patriarchal cross. No inscriptions decipherable obverse or reverse. Diam. 25mm, wt. 2.45g. Barber Institute Coin Collection B 6293.

Fig. 60. Class 9 copper assarion of Andronikos II (1282-1328) with Michael IX (1294-1320), mint of Constantinople. Obverse: half-figure of Archangel Michael holding sceptre in r. hand and globus cruciger in l. No inscription visible. Reverse: AVTOK PΩMEON IC XC bust of Christ blessing kneeling emperors. Diam. 19mm, wt. 1.32g. Barber Institute Coin Collection B6321.





Fig. 61. Class 11 copper trachy of Andronikos II (1282-1328), mint of Constantinople. Obverse: OA|Θ|E Δ|Ω|P|S St Theodore holding spear or sword in r. hand and shield in l. Reverse: ANΔP XM Andronikos standing on l. holding cross sceptre and Archangel Michael standing on r. holding trifurcate sceptre. Between them they hold labarum. Wt. 2.04g. BZC.1977.22. Copyright Dumbarton Oaks, Byzantine Collection, Washington, DC. (Diam. not given in DOC.)

Fig. 62. Class 2 copper trachy of Andronikos II (1282-1328), mint of Thessaloniki (?). Obverse: OA|Λ|ΔI MH|TP half-figure of St Demetrios with sword in r. hand and shield in l. Reverse: A/NΔ/N/I winged emperor standing holding sceptre and globus cruciger. Wt. 2.99g. BZC.1956.23.2868. Copyright Dumbarton Oaks, Byzantine Collection, Washington, DC. (Diam. not given in DOC.)





Fig. 63. Class 8 copper trachy of Andronikos II (1282-1328), mint of Thessaloniki (?). Obverse: six-petalled flower, no inscription. Reverse: ANK ΔΠ Andronikos on l. and St Demetrios on r. holding haloed cross between them; emperor holds sceptre in r. hand and saint sword in l. Wt. 0.74g. BZC.1960.88.4491. Copyright Dumbarton Oaks, Byzantine Collection, Washington, DC. (Diam. not given in DOC.)

Fig. 64. Class 1 half-stavraton in silver of John V (1341-91), mint of Constantinople. Obverse: ΔMH|T St Demetrios galloping r. Reverse: Ιω bust of John holding sceptre cruciger in l. hand. Wt. 3.88g. BZC.1960.88.4746. Copyright Dumbarton Oaks, Byzantine Collection, Washington, DC. (Diam. not given in DOC.)



Fig. 65. Silver half-basilicon (heavy series) of Andronikos III (1328-41), mint of Constantinople. Obverse: O|A|Γ|I|O|S Δ|H|MH|TP|O|S St Demetrios standing holding spear in r. hand and shield in l. Reverse: M|P Θ|V A|N|Δ|N|K|S Andronikos standing l. with hand raised to Virgin on r. Diam. 16mm, wt. 0.84g. Barber Institute Coin Collection B6350. (Double-pierced.)

Fig. 66. Silver basilicon (heavy series) of Andronikos III (1328-41), mint of Constantinople. Obverse: IC XC Christ seated on high-backed throne holding Gospels on knee. Reverse: A|N|Δ|P|NI|KO|C Γ|O|A Δ|H|MH|TP|I|O|C Andronikos standing on l. with St Demetrios who holds cross on chest. Diam. 20mm, wt. 1.77g. Barber Institute Coin Collection B6351. (Pierced.)

Fig. 67. Class 2 silver basilicon (light series) of Andronikos III (1328-41), mint of Constantinople. Obverse: IC XC Christ standing with r. hand raised in blessing. Reverse: Δ|H|MH|TP|I|O|C Γ|O|A ANΔPONIKOC St Demetrios standing l. holding cross on chest, with Andronikos standing r. Diam. 20 mm, wt. 1.2g. Barber Institute Coin Collection B6353.



Fig. 68. Class 1 copper assarion of Andronikos III (1328-41), mint of Constantinople. Obverse: ΟΑΓΕ ΩΡΓΙΣ half-figure of St George in armour holding spear in r. hand and shield in l. Reverse: ΑΝΔΡΝΚ half-figure of Andronikos holding cross-sceptre in r. hand and globus cruciger in l. Diam. 21mm, wt. 2.96g. Barber Institute Coin Collection B6363.

Fig. 69. Class 4 billon tornese of Andronikos III (1328-41), mint of Constantinople. Obverse: +ΠΟΛΙΤΙΚΟΝ ΜΘ bust of Virgin. Reverse: ΑΝΔΡΝ ΓΟΑ ΔΜΗΝ three-quarter figures of Andronikos on l. and St Demetrios on r. holding cross on chest. Diam. 17mm, wt. 0.71g. Barber Institute Coin Collection B6366.

Fig. 70. Copper assarion of John V (1341-91), mint of Thessaloniki. Obverse: John standing on l. holding sceptre in r. hand. St Demetrios on r. with l. hand on chest. Reverse: Anna of Savoy standing under arch, surrounded by stars. Diam. 18mm, wt. 1.59g. Barber Institute Coin Collection B6583. (Obverse and reverse images reversed in catalogue; no inscriptions.)



Fig. 71. Class 15 copper trachy of Andronikos III (1328-41), mint of Thessaloniki. Obverse: monogram and lattice pattern; no inscription. Reverse: Andronikos riding r. and holding labarum-headed sceptre in r. hand; star upper r. field. No diam. or wt. Reproduced from Bendall, S. and Donald, P.J. 1979 *The Later Palaeologan Coinage 1282-1453*, 254-55, coin no 1.

Fig. 72. Class 8 basilicon in silver of John V (1341-91), mint of Constantinople. Obverse: ΙΩC|XΩ|B O|ΠΛ|A John riding r. and holding cross-sceptre. Reverse: ΙΩC|XΩ|E OΠΛ|Θ John riding r. and holding cross-sceptre. No diam. or wt. Reproduced from Bendall, S. and Donald, P.J. 1979 *The Later Palaeologan Coinage 1282-1453*, 144-45, coin no 7.

Fig. 73. Class 4 copper assarion of John V (1341-91), mint of Thessaloniki. Obverse: John standing on l. holding sceptre cruciger in r. hand and *anexikakia* or cross in l. Building in r. field. Reverse: on l. three figures in military dress thrusting spears into St Demetrios seated on r. Diam. 18mm, wt. 1.5 - 2.5g. Inscriptions unclear. Reproduced from Bendall, S. and Donald, P.J. 1979 *The Later Palaeologan Coinage 1282-1453*, 262-63, coin no 5.





Fig. 74. Copper follis of Andronikos IV (1376-79) and John V (1341-91), mint of Constantinople. Obverse: emperor with cross over r. shoulder and St Demetrios riding r. Reverse: +ΑΝΔΡΟΝΙΚΟΥΔΕΠΙΟΤΟΥ Palaeologan monogram. Diam. 19mm, wt. 0.81g. Barber Institute Coin Collection B6382. DOC classifies the Palaeologan monogram as the obverse.

Fig. 75. Copper follis of Manuel II (1391-1425) for John V (1382-87), mint of Thessaloniki. Obverse: Manuel and St Demetrios riding r. Reverse: +ΜΑΝΟΗ [ΑΔΕΚ] ΠΟΤΙC Palaeologan monogram. Diam. 16mm, wt. 0.81g. Barber Institute Coin Collection B6453.

Fig. 76. Copper follis of Manuel II (1391-1425), while co-emperor at Thessaloniki (1382-87), for John V. Obverse: Δ|ΗΜ|ΤΡ St Demetrios standing with shield in r. hand. Reverse: no inscription. Bust of emperor, bearded and nimbate, holding sceptre cruciger on l. shoulder. Diam. 16mm, wt. 1.09g. Barber Institute Coin Collection B6458. (Obverse on right in Barber catalogue.)



Fig. 77. Half-stavraton in silver of Manuel II (1391-1425), mint of Constantinople. Obverse: St Demetrios galloping r., brandishing sword; *Manus Dei* upper r. field; no inscription. Reverse: +MANOVHΛ..EN (sic) XΩTΩΘV(?) ΠICTOC BACIAEVC bust of Manuel holding sceptre cruciger in r. hand. Wt. 3.48g. (Pierced.) BZC.1956.23.4743. Copyright Dumbarton Oaks, Byzantine Collection, Washington, DC. (Diam. not given in DOC.)



Fig. 78. Preliminary drawing of John VIII (1425-48) by Pisanello. Musée du Louvre, Département des Arts Graphiques, M1 1062R; F. Reiset Gift. Reproduced from E. Georganteli and B. Cook, *Encounters: Travel and Money in the Byzantine World*, p. 67, 2006.

Fig. 79. Bronze medal of John VIII (1425-48) by Pisanello (c. 1395-c. 1455). Obverse: +ΙΩΑΝΝΗC.ΒΑCΙΑΕVC.ΚΑΙ.ΑΥΤΟΚΡΑΤΩΡ.ΡΩΜΑΙΩΝ.Ο. ΠΑΛΑΙΟΛΟΓΟC John in tall hat portrayed in r. profile. Reverse: ΟΡΥC.ΠΙCΑΝΙ.ΠΙCΤΟΡΙC. ΕΡΓΟΝ.ΤΟΥ.ΠΙCΑΝΟΝ.ΖΩΓΡΑΦΟΝ. Mounted figure of John on r., halted before tall cross. Second mounted figure on l. Diam. 103 mm. British Museum, Department of Coins and Medals, George III, Naples 9.

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