

Calcatedessa* gen.n. a new genus sister to *Grammedessa

Correia & Fernandes (Heteroptera, Pentatomidae, Edessinae)

based on a cladistic analysis

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Supplementary material

List of characters and support plates

This appendix presents two support plates (see below) which indicate some characters and states of characters, outside and inside brackets respectively.

HEAD:

- 01. Presence of lines of punctation on the dorsal surface of the head: (0) absent; (1) present
- 02. Presence of black longitudinal stripes on the dorsal surface of the head: (0) absent; (1) present [Fig. B]
- 03. Presence of black spots on bucculae: (0) absent; (1) present

THORAX:

- 04. Punctation and spots on anterolateral margins of pronotum with the same pattern of the surrounding area: (0) present [Fig. A]; (1) absent [Fig. B]
- 05. Carination on pronotum anterolateral margins: (0) carinate; (1) not carinate
- 06. Inclination of humeral angles: (0) dorsally bent, passing pronotal disk; (1) level with pronotal disk
- 07. Ventral surface of humeral angles: (0) convex; (1) concave
- 08. Punctation on the ventral side of humeral angles: (0) absent; (1) present [Fig. F]
- 09. Shape of humeral angles: (0) not wing-shaped; (1) wing-shaped [Fig. C]
- 10. Shape of the apex of humeral angles: (0) rounded; (1) globular; (2) spiniform [Fig. D]; (3) dentiform [Fig. C]; (4) truncated
- 11. Distribution of spots on pronotum: (0) distributed along pronotal disk [Fig. B]; (1) distributed only on posterior margin [Fig. E]
- 12. Color of corium: (0) unicolorous; (1) variegated

13. Contrasting punctation and spots on costal margin of corium: (0) present; (1) absent
[Fig. A]

14. Row of black spots along anterior 1/3 of the costal margin of corium: (0) absent; (1) present [Fig. E]

15. Peritreme length: (0) long, reaching $\frac{3}{4}$ of the length between ostiole and lateral margin of thorax; (1) short, reaching half of the length between ostiole and lateral margin of thorax

16. Punctation on lateral area of the evaporatorium: (0) absent; (1) present [Fig. F]

17. Spots associated with the punctation of the lateral areas of the evaporatorium: (0) absent, (1) present [Fig. F]

18. Height of mesosternal carina: (0) as high as the metasternal process; (1) higher than the metasternal process

19. Length of the metasternal process: (0) short, not surpassing mesocoxae; (1) long, surpassing mesocoxae

20. Shape of the apex of metasternal process: (0) cuneiform; (1) sulcate; (2) bifurcated; (3) discoidal; (4) conical

21. Metasternal process, black spots: (0) absent; (1) present

LEGS:

22. Color of the tarsi and tibiae: (0) unicolorous; (1) contrasting, tarsi darker than tibiae
[Fig. G]

ABDOMEN:

23. Color of the posterior margin of the posterolateral angles of the connexival segment VII: (0) concolorous with connexivum; (1) with a black contrasting stain

24. Development of the posterolateral angles of the connexival segment VII about segment VI: (0) as developed as segment VI (1) more developed than segment VI [Fig. F]

25. Posterolateral angles of segment VII: (0) not twisted; (1) twisted

26. Spots on abdominal sterna: (0) absent; (1) present [Fig. F]

27. Presence of contrasting dark-green spots surrounding spiracles: (0) absent; (1) present [Fig. G]

28. Position of the abdominal trichobothria on segments IV and V: (0) both trichobothria laterally dislocated in relation to spiracles; (1) both trichobothria aligned with spiracles; (2) one trichobothrium laterally dislocated and other in line with spiracles

MALE, PYGOPHORE:

29. Inner surface of the ventral rim of the posterolateral angles: (0) not excavated; (1) deeply excavated [Fig. H]

30. Presence of a pair of triangular carinas on the middle of the ventral rim of the posterolateral angles: (0) absent; (1) present

31. Apex of the posterolateral angles: (0) not carinate; (1) carinate [Fig. I]

32. Punctuation on inner margin of the ventral rim of the posterolateral angles: (0) absent; (1) present

33. Folding on inner margin of the ventral rim of the posterolateral angles: (0) absent; (1) present [Fig. J]

34. Slight tumescence on inner margin of the ventral rim of the posterolateral angles: (0) absent; (1) present [Fig. J]

35. Superior processes of the genital cup: (0) absent; (1) present [Fig. J]

36. Superior processes of the genital cup: (0) pedunculate; (1) partially or completely fused to the wall [Fig. J]

- 37. Posterior surface of the proctiger: (0) inclined frontward; (1) inclined backward
- 38. Lateral sides of the proctiger: (0) not constricted; (1) constricted [Fig. J]
- 39. Superior half of the posterior face of proctiger: (0) not projected; (1) posteriorly projected [Fig. J]
- 40. Keel on the median line of the posterior face of proctiger: (0) absent; (1) present
- 41. Shape of the keel of proctiger: (0) narrow, blade-like; (1) tumescent [Fig. I]
- 42. Shape of the ventral margin of proctiger, in caudal view: (0) not projected, flat; (1) posteriorly projected, tumescent

FEMALE:

- 43. Posterior projection of segment VII: (0) not exceeding laterotergites IX; (1) exceeding laterotergites IX
- 44. Dark spots on genital plates: (0) absent; (1) present
- 45. Length of the lateral margins of valvifers VIII: (0) not surpassing the length of the mesial margins; (1) surpassing the length of the mesial margins
- 46. Valvifers VIII medially: (0) juxtaposed; (1) not juxtaposed



