

XIX.—*Report on a Collection of Echinoderms from the Neighbourhood of Zanzibar.*—Part I. By F. JEFFREY BELL, M.A.

THE zeal for the study of natural history which distinguishes H.M. Agent at Zanzibar, Sir Charles Eliot, K.C.M.G., led that diplomatist to obtain the assistance of Mr. Crossland, B.A., who made, *inter alia*, a collection of Echinoderms. As reports on various groups are being or have been made, it seems well that there should be one on the Echinoderms; but I am bound to be brief, since in 1899 a very complete account of the Echinoderm fauna of this area was given by Prof. Ludwig\*, who enumerated 127 species as being known from the district.

It will probably be convenient if on this occasion I adopt the systematic order of Prof. Ludwig's memoir. The Crinoidea and Holothurioidea will be dealt with in the second half of this report.

ASTEROIDEA.

*Astropectinidæ.*

1. *Astropecten Hemprichii*, M. Tr.  
Zanzibar Channel, 8 fath.
2. *Astropecten polycanthus*, M. Tr.  
Zanzibar, 3-5 fath.
3. *Luidia Savignii*, Audouin.  
Wasin, 10 fath.

*Pentagonasteridæ.*

4. *Goniodiscus* yg.

There are several specimens differing in size and in some important points; we have really no knowledge of the growth-changes of species of this genus, and our collections must be much larger before we make any new species.

5. *Pentaceros Lincki*, de Bl.

This is the form catalogued by Prof. Ludwig as *P. muricatus* of Linck, but that zoologist was not a binominalist.  
Zanzibar shore.

\* "Wissenschaftliche Ergebnisse der Reisen in Madagascar u. Ost-Afrika . . . von Dr. A. Voeltzkow. i. 4. Echinodermen des Sansibar-gebietes," *Abb. Senckenb. Ges.* xxi. 4 (1899).

6. *Pentaceros hiulcus*, M. Tr.  
Zanzibar.

7. *Pentaceros* yg., ? *hiulcus*.  
Wasin.

8. *Culcita pentangularis*, Gray.  
Zanzibar.

#### Asterinidæ.

9. *Asterina cepheus*, Val.  
Zanzibar, 10-20 fath.

#### Linckiidæ.

10. *Ophidiaster fuscus*, Gray.

This species is not in Prof. Ludwig's list, and, so far as I know, the only author who has discovered specimens of it since Gray described it is Prof. Studer, who has given an account of his examples in the report on his 'Gazelle' Asteroids (see Phys. Abhand. Berl. Akad. 1884, p. 29). I am permitted to say that in the statement that there are eight rows of plates on the arms the figure 8 was misprinted for 3.

Zanzibar, 3-5 fath.

11. *Leiaster coriaceus*, Peters.

Wasin.

I am indebted to Dr. Meissner, of the Berlin Museum, for kindly comparing the specimens in Mr. Crossland's collection with Peters's types. Peters's description and that given and illustrated by M. de Loriol\* were almost sufficient for me; but I thought it better to ensure accuracy by making a call on Dr. Meissner's kindness.

12. *Linckia Ehrenbergi*, M. Tr.  
Zanzibar.

13. *Linckia marmorata*, Michelin.  
Zanzibar, 10 fath.

14. *Nardoia variolata*, Retzius.  
Zanzibar, shore.

\* Mém. Soc. Phys. Genève, xxix. 4 (1885), p. 37, pl. xiii.

## Pterasteridæ.

15. *Retaster cribrosus*, v. Martens.  
Zanzibar, shore, and Wasin, 7 fath.

## Echinasteridæ.

16. *Mithrodia clavigera*, Lamk.  
Wasin, 10 fath.
17. *Echinaster purpureus*, Gray.  
Wasin.

## OPHIUROIDEA.

It is very curious that there should be only three Ophiuroids: of these one is of great rarity; it was described from specimens collected by H.M.S. 'Alert.'

18. *Ophioplocus imbricatus*, M. Tr.  
Zanzibar.
19. Fragments of what appeared to be *Ophiomyxa australis*, Lütken.
20. *Ophioteropsis elegans*, Bell.  
Found nestling in the arms of a many-armed *Actinometra* from Zanzibar.

## ECHINOIDEA.

## Cidaridæ.

21. *Cidaris metularia*, Lamk.  
Zanzibar; Wasin, 7 fath.
22. *Leiocidaris verticillata*, Lamk.  
Wasin, 10 fath.
23. *Leiocidaris baculosa*, Lamk.  
Wasin, 10 fath.

## Diadematidæ.

24. *Diadema saxatile*, L.  
Wasin, 10 fath.

25. *Astropyga radiata*, Leske.

Wasin, 10 fath.

**Echinidæ.**

26. *Salmacis bicolor*, Ag.

Zanzibar; Wasin, 10 fath.

27. *Salmacis sulcata*, Ag.

Zanzibar, 5 fath.

28. *Hipponoe variegata* \*, Leske.

Zanzibar, 4 fath.

29. *Tripneustes gratilla*, L.

Zanzibar.

30. *Echinostrephus molare*, de Bl.

Zanzibar.

**Echinometridæ.**

31. *Echinometra oblonga*, de Bl.

Zanzibar, shallow water.

32. *Parasalenia gratiosa*, A. Ag.

Wasin, 10 fath.

**Clypeastridæ.**

33. *Clypeaster reticulatus*, L.

Wasin, 10 fath.

34. *Laganum depressum*, Lesson.

Wasin, 10 fath.

35. *Echinodiscus auritus*, Leske.

Wasin.

**Cassidulidæ.**

36. *Echinoneus cyclostomus*, Leske.

Zanzibar and Momba.

\* Misprinted by Prof. Ludwig's printer "*variegosta*."

## Spatangidæ.

37. *Maretia planulata*, Lamk.

Zanzibar, 10-20 fath.

38. *Lovenia elongata*, Gray.

Wasin, 10 fath.

39. *Schizaster gibberulus*, Ag.

Wasin, 7 fath.

This is an addition to Prof. Ludwig's list.

XX.—*Rhynchotal Notes*.—XVIII. Heteroptera.

By W. L. DISTANT.

THE following descriptions of new genera and species of Heteroptera are based on specimens recently acquired by the British Museum. They are principally from the Malayan Archipelago, and were all collected by the late Mr. Doherty, except two species from Key Island received through another source.

## Order RHYNCHOTA.

## Suborder HETEROPTERA.

## Family Pentatomidæ.

Subfam. *PLATASPIDINÆ*.*Coptosoma mirabilis*, sp. n.

Luteous; two large central spots at base of head, a large subcruciform fascia on anterior area of pronotum, three longitudinal fasciæ united posteriorly and widened anteriorly on posterior area of pronotum, the lateral pronotal angles, two transverse discal fasciæ, and the lateral and apical margins of scutellum black, shining; the scutellar area between the two discal fasciæ coarsely brownly punctate; sternum slaty grey, margin of prosternum and legs luteous; abdomen black, lateral margins broadly and inwardly dentately luteous; antennæ luteous, apex fuscous. Head short, broad, moderately rounded between the eyes; lateral margins of pronotum emarginate in front of the lateral angles; scutellum without a basal callosity; body broad, widened posteriorly.

Long. 4 millim.

*Hab.* Halmaheira (*Doherty*, Brit. Mus.).