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A Preliminary List of Polychaetes (Annelida) Collected by the Biological Expedition to the Northern Mariana Islands, Micronesia

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Abstract Seventeen families of polychaetes were collected during the biological expedition to the northern Mariana Islands in 1992, namely, Spionidae, Chaetopteridae, Cirratulidae, Capitellidae, Ophellidae, Phyllodocidae, Polynoidae, Chrysopetalidae, Syllidae, Nereidae, Glyceridae, Amphinomidae, Eunicidae, Lumbrineridae, Terebellidae, Serpulidae and Spirorbidae. All of them are records from the northern Marianas for the first time.

Key words: Polychaetes, rocky intertidal, northern Mariana Islands.

In May and June 1992, the Natural History Museum and Institute, Chiba (NHMIC), conducted an expedition to the Northern Mariana Islands in cooperation with the Department of Natural Resources (the Commonwealth of the Northern Mariana Islands) and University of Guam Marine Laboratory. During the expedition, a considerable number of specimens of polychaetes were collected from rocky intertidal and subtidal areas. Here, we preliminary list these species, although their identification is incomplete due to lack of literature and comparative materials. Information on tropical polychaete fauna has generally been very poor, in particular with regard to the Northern Marianas. The present paper gives basic data on the specimens deposited at the Museum for future detailed taxonomic study.

Methods

Collections were made on Anatahan, Guguan, Pagan, Agrihan, Maug East, Maug West, Maug North, and Uracas Islands of the Northern Marianas (see Asakura *et al.* (1994), for detailed map and location of sampling stations). The specimens were collected by Akira Asakura (AA in the list) and Taiji Kurozumi (TK) of the Natural History Museum and Institute, Chiba, and are deposited at the museum. The following authorities were used for identification; Day (1967), Fauchald (1977), Imajima (1972, 1976, 1977, 1982), Imajima and Higuchi (1975), Imajima and Hove (1984). The identification, however, is incomplete, and the unidentified species are enumerated as "sp." or "gen. sp." under the generic or family assignment.

List of Collected Species

Family Spionidae

1. *Polydora* sp.

Material examined. MAUG EAST-st.A, RI, 2 June, AA; MAUG EAST-st.A, on coral *Pocillopora* sp., 2 June, AA; MAUG NORTH-st.F, RI, on coral *Pocillopora* sp., 3 June, AA.

Family Chaetopteridae

2. Chaetopteridae gen. sp.

Material examined. GUGUAN-st. B, RI, on algae C, 17 May, AA.

Family Cirratulidae

3. *Cirriformia* sp.

Material examined. GUGUAN-st. B, RI, on algae, 17 May, AA; GUGUAN-st.B, RI on algae, 17 May, AA; GUGUAN-st.B, RI, 17 May, TK; URACAS-st.A, RI, on algae, 6 June, AA.

4. Cirratulidae gen. sp.

Material examined. GUGUAN-st. B, RI, 17

May, TK.

Family Capitellidae

5. Capitellidae gen. sp.

Material examined. ANATAHAN-st.B, RI, 12 May, AA; GUGUAN-st.B, RI on algae, 17 May, AA.

Family Ophellidae

6. *Polyophthalmus pictus* (Dujardin, 1839)

Material examined. GUGUAN-st. B, RI, on algae, 17 May, AA; GUGUAN-st.B, RI, 18 May, TK.

Distribution. Tropical Atlantic from the English Channel to the Gulf of Mexico and tropical west Africa, Mediterranean Sea, Red Sea, Indo-west Pacific including Japan, west Canada, southern California, and Madagascar (Day, 1967).

Family Phyllodocidae

7. *Anaitides* sp.

Material examined. MAUG NORTH-st.F, RI, on algae, 3 June, AA; MAUG EAST-st.C, 3m deep, on coral *Pocillopora* sp., 5 June, TK.

8. Phyllodocidae gen. sp.

Material examined. MAUG WEST-st.E, RI, 4 June, AA; MAUG EAST, on coral *Pocillopora* sp., 5 June, TK.

Family Polynoidae

9. *Eurythoe* sp.

Material examined. GUGUAN-st. B, RI on algae, 17 May, AA; GUGUAN-st.B, RI, 17 May, TK.

10. *Lepidonotus* sp.

Material examined. MAUG NORTH-st.F, RI, 3 June, AA.

11. Polynoidae gen. sp.

Material examined. MAUG EAST-st.A, RI, 2 June, TK; URACAS-st.A, RI, 6 June, AA; URACAS-st.A, RI, on algae, 6 June, AA.

Family Chrysopetalidae

12. Chrysopetalidae gen. sp.

Material examined. URACAS-st. A, RI, on algae, 6 June, AA.

Family Syllidae

13. Syllidae gen. spp.

Several species belonging to this family were collected, although even genera and number of species could not be determined.

Material examined. ANATAHAN-st.B, RI , 12 May, AA; GUGUAN-st.B, RI on algae, 17 May, AA; GUGUAN-st.B, RI on algae, 17 May, AA; GUGUAN-st.B, RI, 17 May, TK; AGRIHAN-st.B, RI, 29 May, AA; MAUG EAST-st. A, RI, on algae, 2 June, AA; MAUG EAST-st.A, RI, on algae, 2 June, AA; MAUG EAST-st.A, RI, 2 June, AA; MAUG EAST-st.C, 3m deep, 2 June, TK; MAUG EAST-st.C, 3m deep, 2 June, AA; MAUG NORTH-st.F, RI, 3 June, AA; MAUG WEST-st.E, RI, 4 June, AA; MAUG EAST-st.B, on coral *Pocillopora* sp., 5 June, TK; URACAS-st.A, RI, on algae, 6 June, AA; URACAS-st. A, RI, on algae, 6 June, AA.

Family Nereidae

14. *Nereis nichollsi* Kott, 1951

Material examined. ANATAHAN-st.B, RI, 12 May, AA; GUGUAN-st.B, RI, on algae, 17 May, AA; MAUG EAST-st.A, RI, on algae, 2 June, AA; MAUG EAST-st.A, RI, 2 June, AA; MAUG NORTH-st.F, RI, 3 June, AA; MAUG WEST-st. E, RI, 4 June, AA; MAUG EAST-st.B, on coral *Pocillopora* sp., 5 June, TK; URACAS-st.A, RI, on algae, 6 June, AA; URACAS-st.A, tide pool, 6 June, TK; URACAS-st.A, RI, on algae, 6 June, AA.

Distribution. Red Sea and Indo-west Pacific including Australia and Japan (Imajima, 1972).

15. *Platynereis* sp.

Material examined. MAUG WEST-st.E, RI, 4 June, AA; URACAS-st.A, tide pool, 6 June, TK.

16. Nereidae gen. sp.

Material examined. GUGUAN-st. B, RI, on algae, 17 May, AA; URACAS-st.A, RI, 6 June, AA.

Family Glyceridae

17. *Glycera* sp.

Material examined. MAUG EAST-st.A, RI, on algae, 2 June, AA; URACAS-st.A, RI, on algae, 6 June, AA.

Family Amphinomidae

18. Amphinomidae gen. sp.

Material examined. GUGUAN-st. B, RI on algae, 17 May, AA; GUGUAN-st.B, RI on algae, 17 May, AA.

Family Eunicidae

19. *Nematonereis unicornis* (Grube, 1840)

Material examined. GUGUAN-st. B, RI, on algae, 17 May, AA.

Distribution. Southern Atlantic, Mediterranean, Suez Canal, and tropical Indo-west Pacific (Day, 1967).

20. *Eunice* sp.

Material examined. GUGUAN-st. B, RI, on algae, 17 May, AA; MAUG EAST-st.C, 3 m deep, RI, 2 June, TK; MAUG EAST-st.A, 2 June, AA.

21. *Lysidice* sp.

Material examined. GUGUAN-st. B, RI, 17 May, TK; MAUG EAST-st.A, RI, 2 June, AA.

22. *Palola* sp.

Material examined. MAUG EAST-st.A, RI, 2 June, AA; MAUG NORTH-st.F, RI, 3 June, AA; MAUG EAST-st.C, 3 m deep, on coral *Pocillopora* sp., 5 June, TK.

23. Eunicidae gen. sp.

Material examined. MAUG EAST-st.A, RI, on algae, 2 June, AA; MAUG EAST-st.B, 3 m deep, on coral *Pocillopora* sp., 5 June, TK.

Family Lumbrineridae

24. *Lumbrinereis* sp.

Material examined. MAUG EAST-st. B, 3 m deep, on coral *Pocillopora* sp., 5 June, TK.

Family Terebellidae

25. *Eupolymnia* sp.

Material examined. GUGUAN-st.B, RI, on algae, 17 May, AA; PAGAN-st.C, 3 m deep, 26 May, TK; URACAS-st.A, RI, on algae, 6 June, AA.

Family Serpulidae

26. *Vermiliopsis* sp.

Material examined. MAUG EAST-st.A, RI, June, AA.

27. *Serpula* sp.

Material examined. MAUG EAST-st.B, 3 m deep, on coral *Pocillopora* sp., 5 June, TK.

28. Serpulidae gen. spp.

Material examined. MAUG EAST-st.B, 3 m deep, on coral *Pocillopora* sp., 5 June, TK.

Family Spirorbidae

29. *Spirobranchus giganteus* (Pallas, 1766)

Material examined. MAUG EAST-st.A, RI, 2 June, TK; MAUG EAST-st.B, 3 m deep, on coral *Pocillopora* sp., 5 June, TK.

Distribution. West Indies, Suez, tropical Indian Ocean, Japan and New Caledonia (Day, 1967).

30. Spirorbidae gen. sp.

Material examined. GUGUAN-st. B, RI, 17 May, TK.

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