

7 SP L A 1 in Bight 98

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City of San Diego

PROVISIONAL SPECIES VOUCHER SHEET

Provisional Name: *Diplocirrus* sp SD 1

Taxon: Flabelligeridae

Taxonomist: R. Rowe

Authority:

Date: 9 Nov 98

Common Synonyms:

Specimen(s):	STATION	DATE	DEPTH	STORAGE	LOCATION	VIAL #
Bight98 (S.D.Bay)	2227	27July98	8.8 m.	DLZ		2049

Characters: (Based on an entire, typical Bight 1998, San Diego Bay specimen with approximately 45 setigers and 19mm total length.)

1. Anterior nine setigers somewhat inflated w/o distinct intersegmental furrows. Intersegmental furrows more defined and the body tapers beginning on the tenth setiger. Posterior setigers well defined, near moniliform in appearance (Fig. 1)
2. Body covered with flask shaped papillae (Fig.4). Papillae arranged in a random pattern, very dense posteriorly, but with open areas between them on the dorsum and ventrum especially on anterior setigers.
3. Up to four notosetae in each fascicle of the first setiger elongated and directed forward forming a minimal cephalic cage. (The elongate notosetae are missing on one or both sides of some individuals.) (Fig.2)
4. Notosetae long thin, tapering with widely spaced crossbars. Neurosetae shorter, but long and thin, with similar crossbars and minutely hooked, blunt tips. (Fig.3 & 4)
5. Eight branchiae present on retractile buccal lobe. Four outer ones large, squared and laterally adhered to each other. Four inner branchiae are cirriform, similar in length and free from one another.
6. Anal opening subterminal, dorsal, and without accessory structures.

Illustrations:

Fig. 2 Anterior dorsolateral view

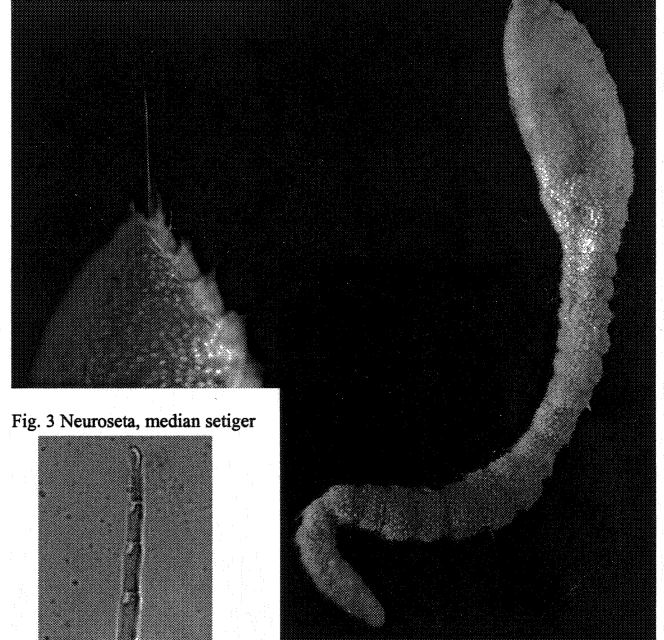


Fig. 3 Neuroseta, median setiger

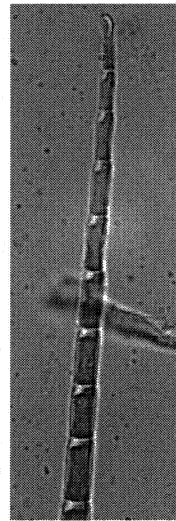
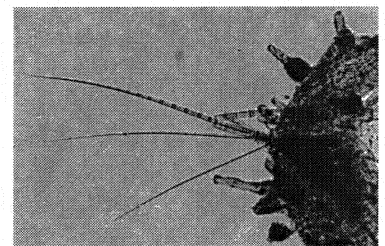


Fig. 4 Median notopodium



Related Species & Other Comments:

Preliminary literature search reveals that this species is nearest *Diplocirrus capensis* Day, 1961 and has similar cephalic cage, setae, body form, and papillation. *D. sp SD 1* has four each of two types of branchiae while *D. capensis* was described with eight subequal branchial filaments. Fauchald, 1972 describes a species (*D. micans*) of this genus from deep water (>450 fms) off western Mexico that differs in papillae structure and distribution, setae, number of segments, and other characters. An unpublished description of specimens identical to *D. sp SD 1* collected April 1995 from Aqua Hedionda Lagoon (north San Diego County), was provided by Larry Lovell.

References:

- Day, J.H. 1967. A monograph on the Polychaeta of Southern Africa. Part II. Sedentaria. Brit. Mus. (Nat. Hist.), Publ. no.656:664-666.
- Day, J.H. 1973. New Polychaeta from Beaufort, with a key to all species recorded from North Carolina. NOAA Tech. Rept. NMFS Circ. 375:105-107.
- Fauchald, K. 1972. Benthic polychaetous annelids from deep water off western Mexico and adjacent areas in the eastern Pacific Ocean. Allan Hancock Monogr. Mar. Biol. 7:214-219 & 508-509.

1. CLASS POLYCHAETA

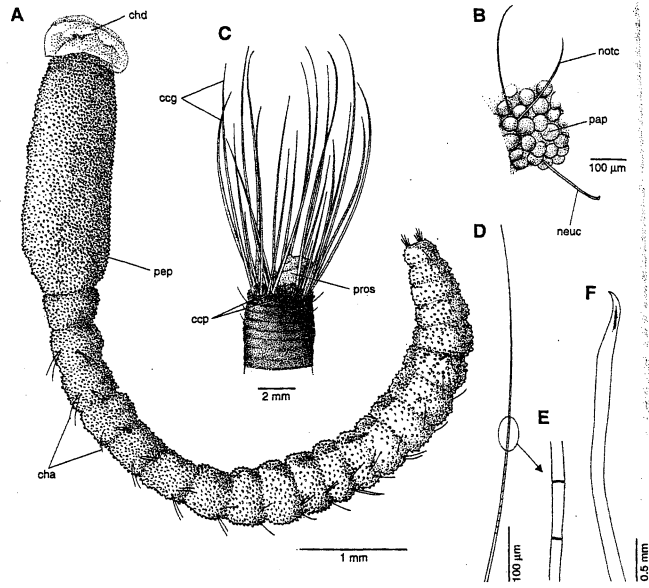


Figure 1.116 Family Flabelligeridae. A, B, *Diplocirrus* species: A, entire animal, dorso-lateral view; B, chaetae and papillae of chaetiger 15. C, anterior end of *Therochaeta* species showing the cephalic cage, dorsal view. D-F, chaetae from chaetiger 20 of *Pherusa* species: D, barred capillary with details of surface shown in E; F, spine. bra, branchiae; cog, capillary chaetae forming cephalic cage; ccp, cephalic cage papillae; cha, chaetae; chd, cephalic hood; neuc, neurochaeta; notc, notochaeta; pap, papilla; pep, papillate epidermis; pros, prostomium. [K. Nolan]