

Short communication

Record of sponge crab, *Sphaerodromia kendalli* (Alcock and Anderson, 1894) (Brachyura: Dromiidae), *Sozhlayuthu kuli*, off Thoothukudi coast of Gulf of Mannar, from southeast coast of India (08° 31.912'N 78° 25.327'E)

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Introduction

MaLay (1993) has reviewed the family: Drommidae De Hann, 1833, a primal brachyuran crabs can arise in tropical and temperate seas of all the most important seacoast. According to Alcock were erected *Sphaerodromia* Alcock, 1899, and *Lasiiodromia* Alcock, 1901 (a replacement name for *Homalodromia* Miers, 1884). Borradaile (1900) established *Dromidiopsis*, and in 1903a, *Dromides* (later absorbed into *Cryptodromia*) and *cryptodroiopsis*, and he redefined *Dromidia* and *Cryptodromia*. Most recently, the genus *Sphaerodromia* Alcock, 1899, has been reviewed by McLay and Crosnier (1991) and McLay (1991).

Thegenus *Parasphaerodromia* Spiridonov, 1992, was erected for a male specimen collected in an isolated seamount in the western Indian Ocean, it has been shown herein to be a synonym of *Dromidia* Stimpson, 1858. Decapod crustacea from the coast of Seychelles Islands were reviewed by McLay and Crosnier (1991) the genus *Sphaerodromia* Alcock, 1899 contains four species, viz., *S. kendalli* (Alcock and Anderson, 1894), *S. nux* Alcock, 1899b, *S. brizops* McLay and Crosnier, 1991 and *S. ducoussoi* sp. nov. *S. lethrinusae* (Takeda and Kurata, 1976). The genus *Sphaerodromia* contains the most primitive species of Dromiidae, the present specimen *Sphaerodromia kendalli* (Alcock and Anderson, 1894) is reported to Thoothukudi coromandel

coast. The male specimen of *S. kendalli* on occurrence of deep (at a depth of 310-318 m) Sozhlayuthu Kuli, Thoothukudi fishing harbour, as an incidental by-catch in the deep-sea trawl fisheries off Thoothukudi coast of Gulf of Mannar.

Material and methods

The present investigation was carried pearl-city coast, India. The male specimen of *S. kendalli* are reported Sozhlayuthu Kuli, 22.3 miles away from Thoothukudi fishing harbour, it's by-catch specimen stale pearl coast by the side of 08° 31.912'N 78° 25.327'E long at a depth of 310-318 m.

Results and discussions

Taxonomy

Infraorder Brachyura Latreille, 1802
Superfamily Dromioidea De Haan, 1833
Family Dromiidae De Haan, 1833
Genus *Sphaerodromia* Alcock, 1899

Species *Sphaerodromia kendalli* (Alcock and Anderson, 1894) (Figs. 2 and 3)

Dromidia kendalli Alcock and Anderson, 1894: 175 (Bay of Bengal)

Sphaerodromia kendalli McLay, 1993: 127, Figures. 2a-I, 15a

Material examined

Male specimen (total length 81.5 mm; carapace length 23.1 mm; weighing about 40 gm) has been collecting through Sozhlayuthu Kuli, 22.3 miles away from Thoothukudi fishing harbour, it's by-catch specimen stale pearl coast by the side of 08° 31.912'N 78° 25.327'E long at a depth of 310-318 m (Figs. 1- 3). More recently collections of dromiid specimens have been prepared during crustacean by-catch biodiversity surveys in Thoothukudi coast of Gulf of Mannar, India. Male specimen, our report is based on the dromiid collection from Thoothukudi Fishing Harbour, Thoothukudi district, India.



Figure 1: Overview map from Off Thoothukudi Coast of Gulf of Mannar, India (08° 31.912'N 78° 25.327'E), 318 M, showing the sampling site of *Sphaerodromia kendalli* (Alcock and Anderson, 1894).



Figure 2: A dorsal view - *Sphaerodromia kendalli*.



Figure 3: Ventral view - *Sphaerodromia kendalli*.

Remarks

The specimens examined harmonize relatively well by the original description and figures provided by Alcock and Anderson, 1896 (pl.24 Fig. 1, 1a). *Sphaerodromia kendalli* were originally described from a male specimen off Thoothukudi coast of Gulf of Mannar at 318 m depth (Alcock and Anderson, 1896, pl.24 Fig. 1, 1a). A pioneer scientist report by (Alcock and Anderson, 1894) and further consequent publications (Alcock, 1900a; 1901; Sakai, 1936; 1976) provided diminutive descriptions of the Indian and Japanese specimens. McLay (1993) has reviewed the family Dromiidae included a detailed re-description of the material collected from the Philippines and Indonesia, in addition that supported with illustrations of the Philippine

material (McLay, 1993: Fig. 2a-i, 15a). *S. kendalli* is most easily distinguished from *S. ducoussoi* in having entire rather than marginally notched later carapace margins.

Diagnosis

Carapace about as wide as long; surface smooth; antero-lateral margin entire, without notches. Orbit with incipient vertical division, not divided horizontally.

Colouration

Dorsal tomentum light tan. Cheliped fingers light pale yellowish in colour.

Distribution

A rare occurrence of sponge crab *S. kendalli*, inedible pearl city coast, India. It extends to the Bay of Bengal, Japan,

Philippines, Southeast Molucca Islands, Indonesia, Madagascar and Seychelles (Alcock and Anderson, 1894; Alcock, 1900, 1901; Balss, 1922, Sakai, 1936; 1976; McLay, 1993; Lewinsohn, 1984).

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