

***Liagore rubromaculata* (De Hann, 1835), a new record of xanthid crab
(Family Carpiliidae) Ortmann, 1893 (Crustacea: Decapoda: Xanthidae),
off Tuticorin Coast, India**

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Abstract

Liagore rubromaculata (De Hann, 1835) the first occurrence this species of the genus *Liagore*, the incidental by-catch specimen, off Tuticorin coastal waters. By-catch specimen between 08° 53.6'N 78° 16'E and 08° 53.8'N 78° 32'E, water surface below the depth ranges from 305- 310 m. Further study is being essential to be assessing the resource management and assessment of biodiversity of xanthid crab, off Tuticorin coast of India.

Keywords: *Liagore rubromaculata*; New record; Xanthidae; Carpiliidae; Tuticorin coast

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Introduction

The genus *Liagore* De Hann, 1833 have been the most value and bright colorful members of the Xanthidae. The group of members has been the three species viz, *Liagore rubromaculata* (De Hann, 1835), *L. erythematica* (Guinot, 1971) and *L. pulchella* (Ng and Naruse, 2007) from the Indo-Pacific region. *Liagore rubromaculata* the brightly red in colour spots and dots all over the carapace and perioopods. During the periodical assessment of by-catch all marine invertebrates, especially in crustacean xanthid group of specimen, off Tuticorin, the large trawler catchment area of xanthid that was clearly indicate a species of genus *Liagore* with red dot and spots. Only one species, *Liagore rubromaculata* (De Hann, 1835) have been recorded from Tuticorin coast, now newly rare occurrence of Tuticorin coast of India.

Class Crustacea

Order Decapoda

Family Carpiliidae Ortmann, 1893,

Genus *Liagore* De Hann (1833)

Species *rubromaculatus* De Hann (1835)

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Cancer (*Liagore rubromaculata*)

Liagore rubromaculata Alcock, 1898, 67 (2): 67-233

Kemp, 1923; 25 (4): 405-409

Chopra, 1935; 37(4): 463-514

Campbell and Stephenson, 1970; 15(4):235-302, figs 1-49, pl. 22 1

Guinot, 1971; 2, 42(5): 1091-1098

Sakai, 1976; 389, pl. 136, fig 1

Krishnamoorthy, 2009; 304: 24

Type Locality

The carapace length of the male 5.3 cm, breadth 6.9 cm, off Tuticorin coast of India, Gulf of Mannar, between 08° 53.6'N 78° 16'E and 08° 53.8'N 78° 32'E, depth range from 305 to 310 m.

Distribution

Queensland Central East Coast, Northeast coast, Hong Kong, Republic of Singapore and Japan; Extra-limital distribution- east Indo-west Pacific Oceans; Sandheads at Mouth of River Hugli, Royapuram Fish landing region, Chennai (Krishnamoorthy, P. 2009) and Tuticorin coast and it extend to southeast coast of India.

Colour

The presence of distinctive brick-red spots on the dorsal surfaces of the carapace and pereopods.

Diagnosis

Carapace transversely oval, smooth, convex and punctulate; on its surface symmetrically disposed red blots; regions ill defined, only a distinct H-shaped depression located between gastric and cardiac regions. Antero-lateral margin smooth and unarmed. Posterior margin slightly concave. Front broad, divided into 2 lobes, anterior margin of lobe slightly concave near the outer-distal angle. Orbit small, eye-peduncle stout and short. Chelipeds smooth, symmetrical. Merus with several obtuse teeth on dorsal margin. Carpus with inner- and outer-distal angle blunt and produced. Palmsubequal to finger in length. Fingers bearing irregular obtuse teeth on the inner margins. Ambulatory legs elongate, thin and cylindrical; surface smooth and glossy, first leg the longest, the second to fourth pairs gradually decreasing in length; dactyli sharp, provided with short hairs. First pleopod of the male elongate and slender, distal part armed with long hairs on the inner side, and acute granules on the outer side. Male abdomen triangular; third to fifth segments fused, but suture still recognizable; the terminal segment with distal margin bluntly round. Female abdomen oblong.



Figure 1: *Liagore rubromaculata* (De Hann, 1835) Dorsal View.

Remarks

Liagore rubromaculata has been reported as earlier by Kemp (1923) were collected by 'Lady Fraser' at Sand heads and in addition that Guinot (1971) has been reviewed and recorded at Kolkata (Calcutta) a new species *L. erythematica* it seems to new from West Bengal (East coast of India). Ng and Naruse (2007) has been reported *L. pulchella* as third extent species and *L. rubromaculata* from Vanuatu, among only as a fossil species. Now *L. rubromaculata* have been reported for the first time in Tuticorin coast, India at a depth upto 310 m.



Figure 1A: *Liagore rubromaculata* (De Hann, 1835) Ventral View.

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