

南海软珊瑚两新种

(腔肠动物:八放珊瑚亚纲)

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南海辽阔,属于热带和亚热带海域。软珊瑚种类多,生长好,特别在礁盘上成片地生长,成为优势种,是珊瑚礁生态中主要类群之一。

中国科学院南海海洋研究所于1964年和1978年分别在北部湾和中沙群岛黄岩岛进行生物调查,发现了一些尚未报道过的种类。本文所描述的美丽伞花软珊瑚 *Umbellulifera formosa* 和穗状异花软珊瑚 *Xenia spicata* 就是其中的两新种。模式标本保存于中国科学院南海海洋研究所。

棘软珊瑚科 NEPHTHYIDAE

美丽伞花软珊瑚 *Umbellulifera formosa*, 新种 (图 1:1—4)

群体为乔木状,奶黄色。大的群体高 11.6 厘米,柄宽 1.06 厘米;小的群体高 6.9 厘米,柄宽 0.61 厘米。冠部呈伞形花序状,分枝上有横条纹。柄部圆柱状。基部为扁平的匍匐根。羽状体 4—6 对。

骨针分布在冠部和柄部的外皮。冠部的骨针呈针状,具有突起。大致有两种类型:(1)突起较长的骨针,长约 0.5—1.23 毫米(图 1:4);(2)突起短小的骨针,长约 0.3—0.82 毫米(图 1:3)。柄部的骨针为放射状,长约 0.05—0.15 毫米(图 1:2)。

模式标本:正模标本(编号 As-1),副模标本(编号 As-2),北部湾,1964 年 8 月。

讨论:本种与 *U. striata* 相近似,分支上都有横条纹,骨针形状大致相似,但后者明显地不同于前者,其差别如下:(1)骨针比较短(最长为 0.1 毫米);(2)没有突起短小的骨针;(3)羽状体 2—3 对。

异软珊瑚科 XENIIDAE

穗状异花软珊瑚 *Xenia spicata*, 新种 (图 1:5, 图 2:1—2)

群体小,乳白色。高约 3.5 厘米,宽 2.5 厘米。柄部从共同的基底生长。水螅体不收缩,比较纤细,长 6—9 毫米,宽 1 毫米(不包括触手)。

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图1 1.美丽伞花软珊瑚,新种 *Umbellulifera formosa*, sp. nov. 2.美丽伞花软珊瑚柄部骨针 (spicules of stalk) 3—4.美丽伞花软珊瑚冠部骨针 (spicules of capitulum) 5.穗状异花软珊瑚,新种 *Xenia spicata*, sp. nov.

触手呈谷穗状,长5—6毫米,宽0.6毫米,其向口面(图2:1)除基部有呈三角形的空隙外,整个都被羽状体覆盖。羽状体呈小的尖圆锥形;其反口面(图2:2)比较平滑,羽状体18—24个。

骨针呈小的圆形或椭圆形,直径约0.01—0.02毫米。

模式标本:正模标本(编号As-3),副模标本(编号As-4),中沙群岛黄岩岛,1978年5月。

讨论:本种与 *X. delicata* 相近似,水螅体的形状大小都大致相似,但不同在于新种的触手向口面除基部有三角形空隙外全覆盖羽状体,而后者的触手向口面只在两侧覆盖

羽状体,中间有空隙。

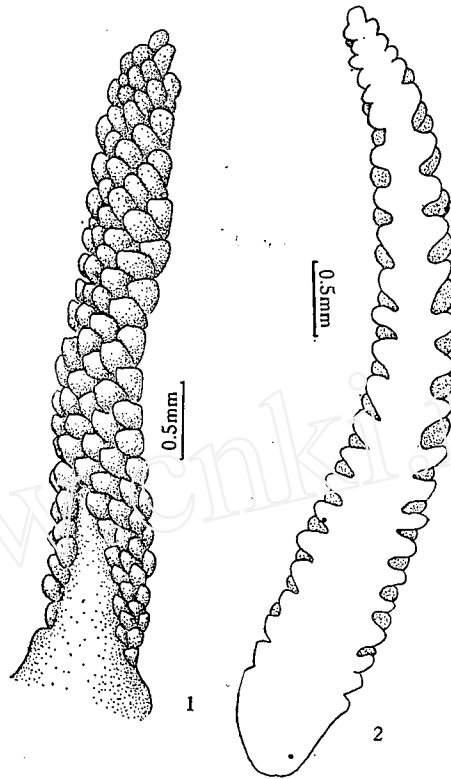


图2 穗状异花软珊瑚,新种 *Xenia spicata*, sp. nov.
1.触手的向口面 (oral surface of tentacle); 2.触手的反口面 (aboral surface of tentacle).

TWO NEW SPECIES OF ALCYONACEA FROM SOUTH CHINA SEA

(COELENTERATA: OCTOCORALLIA)

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In 1964 and 1978, the South China Sea Institute of Oceanology, Academia Sinica, had carried out marine biological investigations in Beibu Gulf and in Huangyan Island of the Zhongsha Islands. Some new species of Alcyonacea were discovered. This paper deals with two of them, namely, *Umbellulifera formosa*, sp. nov. and *Xenia spicata*, sp. nov.

The type specimens are deposited in the South China Sea Institute of Oceanology, Academia Sinica.

NEPHTHYIDAE

Umbellulifera formosa, sp. nov. (fig. 1: 1—4).

Colony arboriform, yellowish cream. The big colony 11.6 cm high, stalk 1.06 cm thick, and the small one 6.9 cm high, stalk 0.61 cm thick. Capitulum umbel-like, with some transverse streaks on branch. Stalk cylindrical. Base a flat stolon. Pinnules 4—6 pairs.

Spicules of the capitulum needle-like, in two types: (1) those with longer prominences, about 0.5—1.23 mm long (fig. 1:4), and (2) those with short and small prominences, about 0.3—0.82 mm long (fig. 1:3). Spicules of the stalk radialized, about 0.05—0.15 mm long (fig. 1: 2).

Holotype (no. As-1) and paratype (no. As-2), Beibu Gulf, August 1964.

This new species is very similar to *U. striata* in having some transverse streaks on branch and in the shape of spicules, but differs distinctly from the latter in the following aspects: (1) spicules with prominences longer and of 2 types rather than 1, some with short and small prominences; (2) pinnules 4—6 pairs instead of 2—3 pairs.

XENIIDAE

Xenia spicata, sp. nov. (fig. 1: 5, fig. 2: 1—2).

Colony small, palish cream, about 3.5 cm high and 2.5 cm wide. Stalk arising from a common base. Polyps not retractable, about 6—9 mm long and 1 mm wide (exclusive of the tentacle).

Tentacle in form of a spike, about 5—6 mm long and 0.6 mm wide at base; the oral surface (fig. 2: 1) wholly covered with pinnules except a triangular space at the base, pinnules in form of small pointed cones; the aboral surface comparatively smooth (fig. 2: 2), with 18—24 pinnules.

Spicules in form of small circles or ovals, about 0.01—0.02 mm in diameter.

Holotype (no. As-3) and paratype (no. As-4), Huangyan Island of Zhongsha Islands, China, May 1978.

This new species is similar to *X. delicata* in the shape and size of polyp, but differs distinctly from it by the oral surface of tentacle being wholly covered with pinnules except a triangular space at base, whereas in the latter, the oral surface of tentacle covered with pinnules on both sides, with a bare space at the medium.