

刺柄珊瑚属已知种的检索表

- 1 (4) 珊瑚骨骼多枝状
- 2 (3) 珊瑚骨骼呈分枝状丛状, 分枝细长, 拥挤 硬刺柄珊瑚 *Hydnophora rigida*
- 3 (2) 珊瑚骨骼基部皮壳状, 上表面多枝状 腐蚀刺柄珊瑚 *Hydnophora exesa*
- 4 (1) 珊瑚骨骼块状
- 5 (6) 珊瑚骨骼表面有不规则突起, 小丘上的主要隔片数目不定, 也不与次要隔片相间排列
..... 邻基刺柄珊瑚 *Hydnophora contignatio*
- 6 (5) 珊瑚骨骼表面无不规则突起, 小丘上的主要隔片 6—10 个, 且与次要隔片相间排列
..... 小角刺柄珊瑚 *Hydnophora microconos*

硬刺柄珊瑚 *Hydnophora rigida* (Dana, 1846) (图版 XXXII 图 3、5)

- Merulina rigida* Dana, 1846, p. 276, pl. 17, fig. 1. (cited after Wijsman-Best)
- Hydnophora rigida* (Dana), Vaughan, 1918, *Dept. Mar. Biol. Pub. Carnegie Inst. Wash.*, **9**, p. 122, pl. 48, figs. 2—3.
- Hydnophora rigida* (Dana), Faustino, 1927, *Bur. Sci. Monog. Manila*, **22**, p. 151, pl. 37, fig. 1.
- Hydnophora rigida* (Dana), Matthai, 1928, *Brit. Mus. (Nat. Hist.) Cat. Madre. Corals*, **7**, p. 157, pl. 18, fig. 4; pl. 49, fig. 8.
- Hydnophora rigida* (Dana), Yabe, Sugiyama & Eguchi, 1936, *Sci. Rep. Tohoku Imp. Univ.*, 2nd Ser. (Geol.), Special **1**, p. 40, pl. 30, fig. 5; pl. 34, fig. 2.
- Hydnophora rigida* (Dana), Umbgrove, 1939, *Zool. Med. Mus. Leiden*, **22**, p. 34.
- Hydnophora rigida* (Dana), Umbgrove, 1940, *Zool. Med. Mus. Leiden*, **22**, p. 284, pl. 25, fig. 1.
- Hydnophora rigida* (Dana), Wells, 1954, *U. S. Geol. Sur. Prof., Paper 260 - I*, p. 463.
- Hydnophora rigida* (Dana), Nemenzo, 1959, *Nat. Appl. Sci. Bul.*, **16** (1—4), p. 104, pl. 12, fig. 1.
- Hydnophora rigida* (Dana), Ma, 1959, *Oceanog. Sinica*, Special **1**, pl. 230, fig. 2.
- Hydnophora rigida* (Dana), Wijsman-Best, 1972, *Bijdr. Dierk.*, **42** (1), p. 53, pl. 12, fig. 4.
- Hydnophora rigida* (Dana), Chevalier, 1975, *Exp. Franc. Recifs Corall. Nouvelle Calédonie*, **7**, p. 191, pl. 15, figs. 1, 3; pl. 17, figs. 2—4.
- Hydnophora rigida* (Dana), Wijsman-Best, 1976, *Zool. Med.*, **50** (4), p. 58, pl. 8, fig. 2.
- Hydnophora rigida* (Dana), Veron, Pichon & Wijsman-Best, 1977, *Aust. Inst. Mar. Sci. Monog.*, Ser. **3**, p. 124, figs. 238—246.
- Hydnophora rigida* (Dana), 邹仁林, 1978, 科学出版社, p. 98, pl. 6, fig. 2.
- Hydnophora rigida* (Dana), Best & Suharsono, 1991, *Zool. Med. Leiden*, **65** (26), p. 336, fig. 2.
- Hydnophora rigida* (Dana), Veron, 1993, Univ. Hawaii Press, p. 430, figs. 1—3.

Merulina laxa Dana, 1846, p. 276, pl. 16, fig. 3. (cited after Wijsman-Best)

Merulina laxa Dana, Matthai, 1924, *Mem. Ind. Mus. Calcutta*, **8**, p. 29, pl. 3, fig. 7; pl. 4, figs. 5, 6.

Merulina laxa Dana, Faustino, 1927, *Bur. Sci. Monog. Manila*, **22**, p. 166, pl. 45, fig. 1.

Merulina laxa Dana, Matthai, 1928, *Brit. Mus. (Nat. Hist.) Cat. Madre. Corals*, **7**, p. 135.

Merulina laxa Dana, Yabe, Sugiyama & Eguchi, 1936, *Sci. Rep. Tohoku Imp. Univ., 2nd Ser. (Geol.)*, Special **1**, p. 41, pl. 27, figs. 3, 4.

Merulina laxa Dana, Umbgrove, 1939, *Zool. Med. Mus. Leiden*, **22**, p. 35, pl. 6, figs. 1, 2.

Merulina laxa Dana, Ma, 1959, *Oceanog. Sinica*, Special **1**, pl. 230, fig. 1.

Merulina laxa Dana, Nemenzo, 1959, *Nat. Appl. Sci. Bul.*, **16** (1—4), p. 127, pl. 21, fig. 2.

Merulina laxa Dana, 邹仁林等, 1975, 科学出版社, p. 59, pl. 12, fig. 1.

Merulina laxa Dana, Chevalier, 1975, *Exp. Franc. Recifs Corall. Nouvelle Caledonie*, **7**, p. 197, pl. 15, fig. 2; pl. 17, figs. 5, 6.

Merulina laxa Dana, 邹仁林, 1978, 科学出版社, p. 99.

标本采集地: 三来西瑁岛、小东海、全富岛、晋卿岛、华光礁、中建岛、北礁、仁爱礁、舰长礁、半月礁。

特征: 珊瑚骨骼多枝丛状, 分枝拥挤, 细而长, 形状不规则 (有扁平、扇形、掌状、翅形或二分叉等形状)。非珊瑚杯表面, 隔片壁在分枝基、中部形成小丘状, 分枝末梢小丘不明显。小丘之间有深浅、阔狭不等的谷。轴柱在谷底, 无一定中心。主要隔片为尖三角形, 两侧有颗粒, 与次要隔片相间排列。

生活时为黄褐色。

地理分布: 尼科巴, 新加坡, 印度尼西亚, 菲律宾, 帛琉群岛, 新喀里多尼亚, 斐济, 大堡礁, 琉球群岛; 我国台湾、海南岛、西沙群岛和南沙群岛。

注释: Veron, Pichon 和 Wijsmann-Best (1977, p. 124) 认为 *Merulina prolifera* Quelch, *Hydnophora columallata* Rehberg, *Clavarina composita* Rehberg, *Hydnophora mayeri* Hoffmeister, *Hydnophora ramosa* Nemenzo 均是本种的同物异名。

硬刺柄珊瑚 *Hydnophora rigida* (Dana) 丢失标志性的丘特征, 就错误地认为是不同属的狭裸肋珊瑚 (*Merulina laxa* Dana) 了 (Veron, Pichon & Best, 1977, p. 124), 同时又指出, 尽管二个种名的厘订者都是 Dana, 而且发表 *Merulina laxa* 在同一页 (p. 276) 之先, *Hydnophora rigida* 在后, 根据国际动物命名法 (ICZN) 的第 24 条 a 款及荐则 24A, 为保证命名法的稳定性与普遍性, Veron 等人采用硬刺柄珊瑚 *Hydnophora rigida* (Dana) 作为有效种名, 而狭裸肋珊瑚 *Merulina laxa* 作同物异名处理。

从 1977 年以来, 20 余年研究石珊瑚分类的学者们约定俗成, 都采用硬刺柄珊瑚作为有效种名。从野外经验, 作者认为硬刺柄珊瑚的幼体可能小丘状的特征不明显, 又可

能是分枝的顶梢部分的小丘状特征尚未充分发育形成的原因,以致造成前人在分类上的混乱,为此作者同意 Veron 等人的意见,硬刺柄珊瑚作为有效种名。

腐蚀刺柄珊瑚 *Hydnophora exesa* (Pallas, 1766) (图版XXXII 图1)

- Madrepora exesa* Pallas, 1766, p. 290. (cited after Scheer)
- Madrepora exesa* Pallas, Scheer, 1991, *Senckenb. biol.*, **71** (4/6), p. 386.
- Hydnophora exesa* (Pallas), Gardiner, 1899, *Proc. Zool. Soc. London*, p. 745, pl. 48, figs. 2, 3.
- Hydnophora exesa* (Pallas), Vaughan, 1918, *Dept. Mar. Biol. Pub. Carnegie Inst. Wash.*, **9**, p. 121, pl. 47, figs. 2—2a; pl. 48, fig. 1.
- Hydnophora exesa* (Pallas), Matthai, 1924, *Mem. Ind. Mus. Calcutta*, **8**, p. 27, pl. 5, fig. 6.
- Hydnophora exesa* (Pallas), Faustino, 1927, *Bur. Sci. Monog. Manila*, **22**, p. 149, pl. 36, figs. 1, 2.
- Hydnophora exesa* (Pallas), Matthai, 1928, *Brit. Mus. (Nat. Hist.) Cat. Madre. Corals*, **7**, p. 140, pl. 14, fig. 5; pl. 15, figs. 1, 2; pl. 16, figs. 1—4; pl. 17, fig. 3.
- Hydnophora exesa* (Pallas), Yabe, Sugiyama & Eguchi, 1936, *Sci. Rep. Tohoku Imp. Univ.*, 2nd Ser. (Geol.), Special **1**, p. 39, pl. 25, fig. 7; pl. 29, fig. 2; pl. 29, fig. 2; pl. 30, fig. 2.
- Hydnophora exesa* (Pallas), Ma, 1937, *Mem. Nat. Inst. Acad. Sinica Zool.*, **1**, p. 99, pl. 22, figs. 1, 2; pl. 23, figs. 1, 2.
- Hydnophora exesa* (Pallas), Eguchi, 1938, *Palao Trop. Biol. Stat. Studies*, **1** (3), p. 350.
- Hydnophora exesa* (Pallas), Umbgrove, 1939, *Zool. Med. Mus. Leiden*, **22**, p. 34.
- Hydnophora exesa* (Pallas), sensu Searle, 1956, non *H. exesa* (Pallas), *Mal. Nat. Jour.*, **11** (1—2), p. 21, pl. 27B.
- Hydnophora exesa* (Pallas), Nemenzo, 1959, *Nat. Appl. Sci. Bul.*, **16** (1—4), p. 103, pl. 11, fig. 1.
- Hydnophora exesa* (Pallas), Ma, 1959, *Oceanog. Sinica*, Special **1**, p. 56, pl. 239, fig. 1; pl. 241, fig. 1; pl. 242, fig. 1.
- Hydnophora exesa* (Pallas), Wijsman-Best, 1972, *Zool. Med.*, **42** (1), p. 51, pl. 13, figs. 1—4.
- Hydnophora exesa* (Pallas), Scheer & Pillai, 1974, *Zoologica*, **122**, p. 52.
- Hydnophora exesa* (Pallas), 邹仁林等, 1975, 科学出版社, p. 49, pl. 14, fig. 2.
- Hydnophora exesa* (Pallas), Chevalier, 1975, *Exp. Franc. Recifs Corall. Nouvelle Calédonie*, **7**, p. 175, pl. 14, figs. 1—6; pl. 16, figs. 2—6; pl. 18, fig. 1; pl. 41, fig. 4.
- Hydnophora exesa* (Pallas), Wijsman-Best, 1976, *Zool. Med.*, **50** (4), p. 57, pl. 8, fig. 1.
- Hydnophora exesa* (Pallas), Pillai & Scheer, 1974, *Zoologica*, **126**, p. 60.
- Hydnophora exesa* (Pallas), Veron, Pichon & Wijsman-Best, 1977, *Aust. Inst. Mar. Sci. Monog.*, Ser. **3**, p. 129, figs. 247—254.
- Hydnophora exesa* (Pallas), Veron, 1981, *Proc. 1st. Internat. Mar. Biol. Workshop*, **1**, p. 120.
- Hydnophora exesa* (Pallas), Scheer & Pillai, 1983, *Zoologica*, **133**, p. 128, pl. 31, figs. 4, 5; pl.