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Aggregation of the reef-building tube worm *Filogranella elatensis* at Sempora, eastern Sabah, Malaysia

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Reef sites

Aggregation of the reef-building tube worm *Filogranella elatensis* at Semporna, eastern Sabah, Malaysia

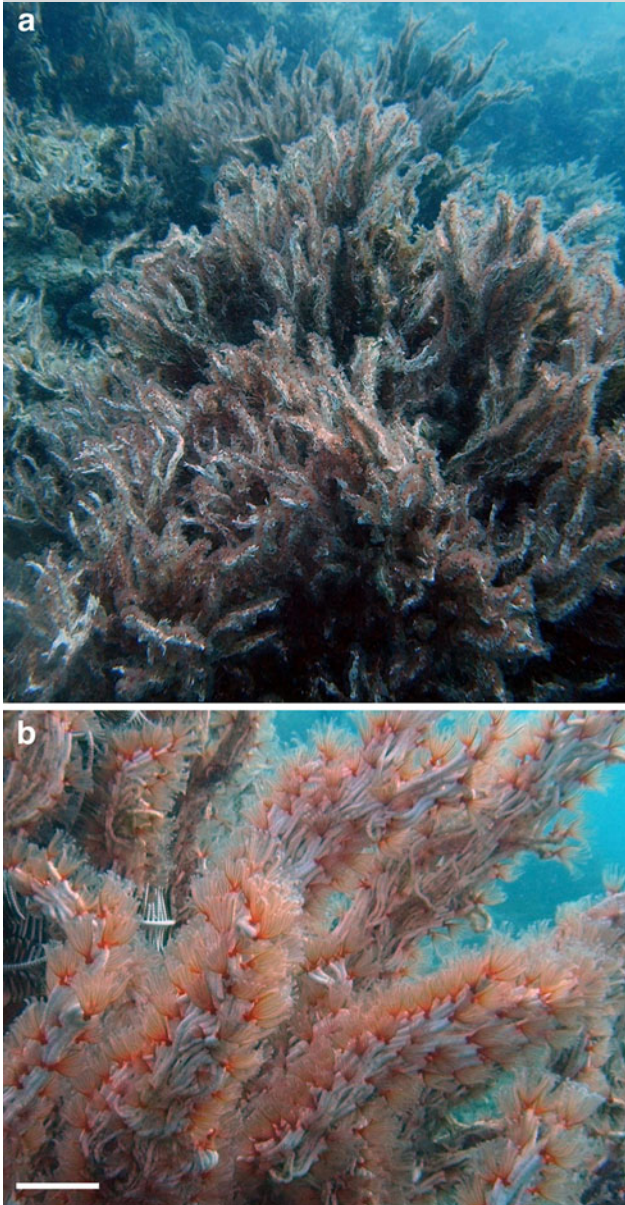


Fig. 1 *Filogranella elatensis* at Bakungan I., eastern Sabah. **a** Field of variable height with hummocky appearance. **b** Close-up: bundles of tubes. Scale bar: 2 cm

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During the Semporna Marine Ecological Expedition in eastern Sabah (SMEE2010), a large field (ca. 15 m long, 3–6 m wide, with a cover of 75–100%) of the reef-building tube worm *Filogranella elatensis* Ben-Eliahu and Dafni, 1979 (Polychaeta: Serpulidae) was encountered on 16 December 2010 along the sheltered upper reef slope of Bakungan I. (N 04°45'11", E 118°29'16"), Darvel Bay, Semporna region, Malaysia (Fig. 1). The aggregation was fragmented and had an overall hummocky appearance. Its depth range varied between 3 and 7 m and its maximum height was approximately 50–60 cm. The various parts of the aggregation did not appear to be attached to the predominantly sandy substrate. As such, the morphology of these “reefs” is reminiscent of aggregations of the genus *Serpula* from temperate and cold waters (Ten Hove and Van den Hurk 1993).

Aggregations of this species are not uncommon (Ten Hove and Kupriyanova 2009) but previously they have not been reported to cover a large area of this size. The first record concerns a colony of 1.5 m wide, described by Ben-Eliahu and Dafni (1979), who suggested that aggregations in these serpulids may be related to pollution and a result of asexual reproduction. However, records from unpolluted areas are also known (Ten Hove and Van den Hurk 1993) and although the reef site in Darvel Bay did not show high coral cover, there was no direct indication for pollution. Similar to previously described serpulid aggregations, this field of tube worms was found in a sheltered habitat.

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