

## A northern range extension for Oldroyd's Fragile Moon Snail, *Calinaticina oldroydii* (Dall, 1897)

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Three specimens of thin-shelled, squat moon snails with wide, deep apertures were collected from offshore waters of Vancouver Island, B.C. These snails are a northern range extension of Oldroyd's Fragile Moon Snail, *Calinaticina oldroydii* (Dall, 1897). Two specimens from Swiftsure Bank, B.C. (Fig. 1 and 2) and a specimen (Fig. 3) from the offshore waters of Barkley Sound, B.C. [48° N], extend the northern range of this species. Tissue was taken and preserved from a frozen snail, *Calinaticina oldroydii* (Dall, 1897), collected from Swiftsure Bank, B.C., May 06, 1999. The tissue has been submitted (2014) for bar-coding.

Dall (1897) reported that the type specimen was collected by Mr. and Mrs. T.S. Oldroyd, in deep water off Catalina Island, California. Dall (1921) presented two illustrations of this species and he placed it in the genus, *Eunatica* Fischer, 1855. Later, Burch and Campbell (1963) proposed a new genus, *Calinaticina*. McLean (1996) reported the distribution as Yachats, Lincoln County, Oregon, south to Islas San Benito, Baja California, Mexico, on soft bottoms, 30-400 m.

Oldroyd's Fragile Moon Snail, *C. oldroydii*, is thin-shelled and relatively large, growing to 70 mm shell height. It has a short spire and three to four inflated whorls. The wide, deep umbilicus has its walls covered with a thin, silky, brown wrinkled periostracum. The inner edge of the umbilicus may be thickened with a shiny, brown margin. The operculum is horny (corneous) and is streaked with growth increments showing as light brown rays.

### References:

Burch, J.Q. and G.B. Campbell. 1963. "A new genus for a deep-water California naticid". *Proc. Malac. Soc. Lond.* 35: 221.

Dall, W.H. 1897. "*Sigaretus oldroydii*, n.sp. New West American Shells". *The Nautilus*. 11(8): 85-86.

Dall, W. H. 1921. "Summary of the marine shell-bearing mollusks of the northwest coast of America, from San Diego, California, to the Polar Sea, mostly contained in the collections of the United States National Museum, with illustrations of hitherto unfigured species". *United States National Museum, Bulletin 112*. 217 pp., 22 pls.

McLean, J.H. 1996. "Taxonomic Atlas of the Benthic Fauna of the Santa Maria Basin and Western Santa Barbara Channel. Vol. 9-The Mollusca Part 2". *The Gastropoda*. 160 pp.



**Fig. 1.** *Calinaticina oldroydii* (Dall, 1897) shell collected from offshore waters of Barkley Sound, B.C. (48°51'N), 50 fm, Sept. 9, 2001. The shell, tilted with the spire down, was 31 mm high; 33.7 mm wide. It was inhabited by a hermit crab. [Deposited at the Royal B.C. Museum (RBCM), Victoria, B.C.]  
**Fig. 2.** *Calinaticina oldroydii* (Dall, 1897) live snail collected from Swiftsure Bank, BC. Shrimp Trawl Survey, Department of Fisheries and Oceans Canada. May 6, 1999. Swiftsure Bank. Station 19, Pacific Management Fisheries Area 121. 48° 35.912' N 125° 16.568' W; 110 m. depth. Shell 23.5 mm high, 30 mm wide. [Deposited at the Royal B.C. Museum (RBCM), Victoria, B.C.] **Fig. 3.** *Calinaticina oldroydii* (Dall, 1897) live snail collected from Swiftsure Bank, B.C., 1972. Shell 39 mm high, 50 mm wide. G.P. Holm Collection. Rick Harbo photos.

### Collection Data:

Fig. 1. Offshore Prawn Trap Survey, Sept. 9, 2001, collected by Hank Buitendyk. Barkley Sound offshore, off Imperial Eagle Channel, 48° 51'N, 125° 29'W; 50 fm (91 m) depth. Deposited at the RBCM.

Fig. 2. Shrimp Trawl Survey, Department of Fisheries and Oceans Canada. May 06, 1999. Swiftsure Bank, Station 19, Pacific Fisheries Management Area 121. Deposited at the RBCM.

Fig. 3. Fishing Trawl Vessel, Our Own, Captain F. Smith, Victoria. Collected in 1972, at Swiftsure Bank; 42 fm (77 m). George P. Holm Collection GH2271-1.