

Scientific note

Unusual record of the fathead sculpin *Psychrolutes marmoratus* in inshore shallow waters of North Patagonia

(Teleostei, Psychrolutidae)

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The fish family Psychrolutidae comprises nine genera and approximately 37 species, which are characterized by having large fleshy heads and bodies that taper into small, flat tails with naked skin (Günther 1861). They predominantly inhabit deep waters (~200 m to 1500 m) of the continental slope of both hemispheres (Froese & Pauly 2019). In the sub-Antarctic waters of South America, the Psychrolutidae are represented by three species: *Cottunculus granulatus* (Karrer, 1968) from the Atlantic coast (22°44' S) and around the Falkland/Malvinas Islands, through the southern cone of South America to the Gulf of Penas (47°31' S) (Lima & Mincarone 2004, Reyes 2007); *Psychrolutes sio* (Nelson, 1980) from northern Peru (03°47' S) to the Gulf of Penas (47°31' S) (Nelson et al. 1985, Reyes 2007); and *Psychrolutes marmoratus* (Gill, 1889) from Chile (40°34' S) around the southern tip of South America to 35°30' S, Argentina, including the Falkland/Malvinas slope (Nelson 1977, Pequeño 1981). They are bathydemersal species that usually occur at depths of 93–2000 m, 150–2000 m, and 45–523 m, respectively (Nelson & Nakamura 1980, Nelson et al. 1985, Reyes 2007, Laptikhovskiy et al. 2017). However, Nelson (1977) reported that *P. marmoratus* occurs at depths of 29–146 m, which could be related to Norman's report (1937) of a small specimen (10 cm length), which was collected between 14 and 78 m by a small beam trawl in the Strait of Magellan. Without reliable records of *P. marmoratus* from shallow coastal waters, Pequeño (1981) listed this species only for deeper water of the continental shelf and upper slope. This information was supported by Ojeda (1983), who found a specimen off the Pacific coast of southern South America (52° S) at 233 m depth. Nowadays, *P. marmoratus* is known as part of the trawl fishery bycatch of the Pa-

tagonian hake (*Merluccius australis*) in southern Chile. Here we report a rare record of *P. marmoratus* from a shallow channel of North Patagonia. The specimen was photographed and collected at 19 m depth in November 2011 at Huemules Island (45°54.933' S, 73°39.682' W) (Fig. 1a). The specimen (~20 cm TL) exhibited the characteristic branched cirri on the head and the irregular pattern of coloration with dark blotches described by Nelson (1977) (Fig. 1b–c). Our finding represents the first well-documented record of this rare species from inshore shallow waters of North Patagonia, suggesting that this species could be more common in coastal waters than previously thought.

References

- Froese, R. & Pauly, D. 2019. FishBase. World Wide Web electronic publication. version 12/2019. <http://www.fishbase.org>.
- Günther, A. 1861. Catalogue of the acanthopterygian fishes in the collection of the British Museum, Vol. 3. London (Taylor & Francis).
- Laptikhovskiy, V., Reid, B. & Brickle, P. 2017. Spawning in a cold bath: reproduction of polar and deep-sea fish family Psychrolutidae. *Journal of Fish Biology* 90: 1283–1296.
- Lima, A. T. & Mincarone, M. M. 2004. Occurrence of *Cottunculus granulatus* Karrer, 1968 (Scorpaeniformes: Psychrolutidae) in southern Brazil. *Comunicações do Museu de Ciências e Tecnologia da PUCRS, Série Zoológica* 17(1): 39–43.
- Nelson, J. S. 1977. Fishes of the southern hemisphere genus *Neophrynichthys* (Scorpaeniformes: Cottidae), with descriptions of two new species from New Zealand and Macquarie Island. *Journal of the Royal Society of New Zealand* 7(4): 485–511.

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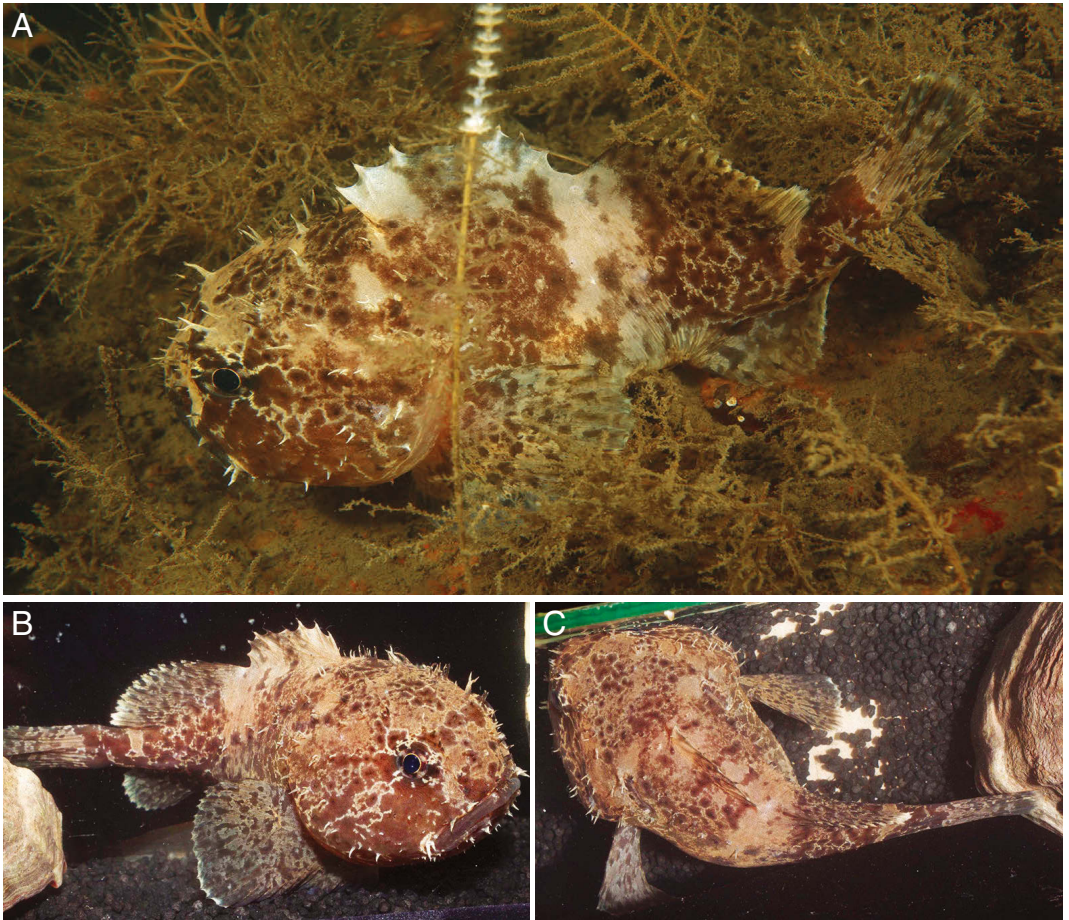


Fig. 1. *Psychrolutes marmoratus* (Gill, 1889) from shallow water of North Patagonia. **A.** *P. marmoratus*, Huemules Island, at 19 m depth, photo: G. Försterra. **B** and **C.** Lateral and dorsal views of *P. marmoratus*, respectively, ~ 20 cm TL.

-- & Nakamura, I. 1980. Distribution, morphology, and taxonomy of the psychrolutid fish *Cottunculus granulatus* (Karrer) from the southwestern Atlantic. Canadian Journal of Zoology 58: 982-990.

-- , Chirichigno, N. & Balbontin, F. 1985. New material of *Psychrolutes sio* (Scorpaeniformes, Psychrolutidae) from the eastern Pacific of South America and comments on the taxonomy of *Psychrolutes inermis* and *Psychrolutes macrocephalus* from the eastern Atlantic of Africa. Canadian Journal of Zoology 63: 444-451.

Norman, J. R. 1937. Coast fishes. Part II. The Patagonian region. Discovery Reports 16: 1-150.

Ojeda, P. 1983. Distribución latitudinal y batimétrica de la ictiofauna demersal del extreme austral de Chile. Revista Chilena de Historia Natural 56: 61-70.

Pequeño, G. 1981. The rare fish *Neophrynichthys marmoratus* Regan, 1913, in the southern slope of Chile. Journal of Natural History 15: 965-970.

Reyes, P. 2007. Peces abisales de la "Triple Unión", lugar de contacto de las placas Antártica, Sudamericana y de Nazca (archipiélago patagónico noroccidental). Revista de Biología Marina y Oceanografía 42(1): 37-47.

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