

G. neglectus is the most distinct species among these three (Table 2) since it has a longer trunk and higher body depth at the gill opening; a shorter head, snout, and mouth cleft; and more total vertebrae and preanal vertebrae than the other two species. Moreover, the lack of a mesial series of premaxillary teeth and the bluish color of its iris make *G. neglectus* very different from the others.

On the other hand, *G. leucostigmus* is similar to the present described species in general proportions, counts of predorsal and preanal vertebrae, and dentition (Table 2). However, *G. niphostigmus* differs from *G. leucostigmus* in having a slightly longer trunk (33.1%-34.6% vs. 31.3%-33.3% of TL.), more total vertebrae (140-142 vs. 135-138), a darker ground color (darkish brown vs. reddish brown), and smaller, more numerous spots, besides its unique coloration with whitish snowflake-like patches and an unusual white margin on the anal fin.

Etymology: The new species name "*niphostigmus*" is from the Greek *nipho* (snow) and the Greek *stigma* (a spot), in reference to the whitish snowflake-like patches.

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REFERENCES

- Böhlke EB, JE McCosker, JE Böhlke. 1989. Family Muraenidae. *In* Fishes of the Western North Atlantic. Mem. Sears Found. Mar. Res. 1: 104-206.
- Chen HM, KT Shao, CT Chen. 1994. A review of the muraenid eels (Family Muraenidae) from Taiwan with descriptions of twelve new records. *Zool. Stud.* 33(1): 44-64.
- Chen JTF, HTC Weng. 1967. A review of the apodal fishes of Taiwan. *Ichthyol. Ser. No. 6*, Tunghai Univ., Biol. Bull. 32: 1-86.
- Hatooka K. 1984. Muraenidae. *In* The fishes of the Japanese Archipelago, eds. H Masuda, K Amaoka, C Araga, T Uyeno, T Yoshino. Tokyo: Tokai Univ. Press, pp. 22-26, pls. 25-29.
- Hatooka K, JE Randall. 1992. A new moray eel (*Gymnothorax*: Muraenidae) from Japan and Hawaii. *Japan. J. Ichthyol.* 39(3): 183-190.
- Jordan DS, RE Richardson. 1909. A catalogue of the fishes of the island of Formosa. *Mem. Carneg. Mus.* 4(4): 159-204.
- Tanaka S. 1911. Figures and descriptions of the fishes of Japan, including Riu-Kiu Islands, Bonin Islands, Formosa, Kurile Islands, Korea and southern Sakhalin. Vol. 2, 19-34.

臺灣北部及東部海域之新種鯙類：雪花斑裸胸鯙

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本新種鯙類—雪花斑裸胸鯙，與它的最相似種白斑裸胸鯙間有明顯的不同，其主要區分的特徵在於：雪花斑裸胸鯙遍佈全身的白斑點較小，數量較多且經常匯聚成雪花狀較大的斑塊；魚體底色較深；臀鰭具有明顯的白色邊緣；脊椎骨數140至142。

關鍵詞：鯙科，鯙類，雪花斑裸胸鯙，魚類相，魚類分類。

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