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THREATENED FISHES OF THE WORLD: *Plotosus canius* Hamilton, 1822 (Siluriformes: Plotosidae)

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ABSTRACT

Gray eel catfish *Plotosus canius* is a vulnerable species in Bangladesh. The wild populations are declining as a result of over-exploitation, destruction of spawning grounds, various ecological changes in their natural habitats and lack of appropriate management. Establishment of suitable sanctuaries in selected areas of estuaries, streams, canals and lakes is suggested for the conservation of the populations.

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COMMON NAMES

Gray eel catfish, Canine catfish (Froese and Pauly, 2014)

CONSERVATION STATUS

Vulnerable in Bangladesh (IUCN Bangladesh, 2000)

IDENTIFICATION

Body is elongated, anteriorly depressed and posteriorly compressed (Fig. 1) (IUCN Bangladesh, 2000). Mouth is transverse with a longer upper lip. The snout is rounded. Dorsal spine is serrated on both edges. Pectoral spine is also serrated on both edges. Second dorsal and anal fins confluent with the caudal. D.5-6 (1/4-5); P1.11-12 (1/10-11); P2. 12; Caudal-dorsal-anal, 240-270. There are four pairs of barbels; maxillary is long as nasal and mandibular reaches beyond the gill-opening.

DISTRIBUTION

This fish is widely distributed in Asia, throughout the Indian subcontinent, including the west and south coasts of India

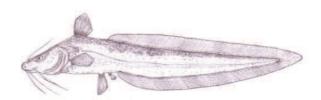


Fig 1. *Plotosus canius* (drawing by the author, Md. Yeamin Hossain)

and off Sri-Lanka eastward along the coasts of Bangladesh and Myanmar, through the Indo-Australian Archipelago and Philippines (Froese and Pauly, 2014). The species has also been reported in Vietnam (Yen and Trong, 1988).

ABUNDANCE

Previously abundant in the brackish water regions including mangrove areas, different rivers, canals, and adjacent to the Sundarbans area of Bangladesh and India, but populations have seriously declined (Patra et al., 2005).

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HABITAT AND BIOLOGY

It inhabits streams, lagoons, brackish water, mangroves, swamps with hard or soft bottoms and feeds on shrimps, insects, mollusks and fishes (Froese and Pauly, 2014). Spawning occurs from February to August, with a peak during May and June (Sinha, 1981). Fecundity varied between 1180 and 2250 (Khan et al., 2002).

THREATS

Populations are declining due to a combination of over-exploitation, destruction of breeding grounds, various ecological changes in its natural habitat and lack of proper management (Mijkherjee et al., 2002; Patra et al., 2005).

CONSERVATION ACTION

Artificial breeding and rearing of the species have been conducted by several research and education institutes in Asian countries (Mijkherjee et al., 2002).

CONSERVATION RECOMMENDATIONS

There is a need to conduct in-depth studies on ecology, biology and stock of the species and enact strict conservation strategies for the protection of the remnant-isolated populations in Asian countries. Establishment of suitable sanctuaries in selected areas of estuaries, streams, canals and lakes is suggested, as well as identification of the causal factors to the decline of the species (Hossain, 2014). Necessary measures should be taken to conserve the species in its preferred habitats (Hossain et al., 2008; 2009). The conservation status of *P. canius* should be improved through effective habitat protection and public awareness programs and ranching.

Sažetak

UGROŽENE VRSTE RIBA U SVIJETU: *Plotosus canius* Hamilton, 1822 (Siluriformes: Plotosidae)

Sivi jeguljoliki som, *Plotosus canius*, je osjetljiva vrsta u Bangladešu. Divlje populacije opadaju kao rezultat pretjeranog iskorištavanja, uništavanja staništa za mrijest kao i raznih ekoloških promjena u njihovom prirodnom staništu te

zbog nedostatka odgovarajućeg gospodarenja. Za očuvanje populacije predlaže se uspostava rezervata u odabranim područjima estuarija, potoka, kanala i jezera.

Ključ**ne rije**č**i**: *Plotosus canius*, sivi jeguljoliki som, osjetljiva vrsta, uspostava rezervata, Azija

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