

MULLIDAE

goatfishes

Parupeneus forsskali

(Fourmanoir and Guézé, 1976)



Photo: Daniel Golani

Relevant synonyms: None Misidentification: None

Meristic formula: D1, VIII D2 7-9; A, I+7;

P, 15-16; V, I+5; LL, 27-28

SHORT DESCRIPTION

Body elongated with pointed snout. Mouth at the lower part of head. Jaws do not reach back the vertical of eye. Large canine teeth on upper jaw followed by stout conical teeth. No canine teeth in the lower jaw. A pair of long barbles on the chin reaching back the operculum edge. Two dorsal fins. The first dorsal spine very small, the 2nd and 3rd spines are the longest. The last rays of the dorsal and anal fins are elongated. Caudal fin forked. Body covered with large scales, three scales between the two dorsal fins.

color: typical body coloration of this species is whitish with brown back and a black longitudinal stripe running from the snout to below the end of second dorsal fin base, plus a black spot on the upper caudal peduncle. The specimens collected in the Mediterranean had pinkish background, probably due to their deep depth of collection.

common size: 5-25 cm (max. 30 cm).

DISTINGUISHING CHARACTERISTICS

- Mullus spp.: no teeth on the upper jaw; no longitudinal black stripe.
- Upeneus spp.: no canine teeth in the upper jaw; no longitudinal black stripe.
- Pseudupeneus prayensis: no longitudinal black stripe.



BIOLOGY / ECOLOGY

Lives in small groups. Feeds on small benthic invertebrates, mainly crustaceans and polychaetes which they detect by probing their barbles in the sand. Eggs and larvae planktonic. The juveniles settle in sandy shores and use them as nursery grounds.

habitat: soft substrate between corals and rocks.

DISTRIBUTION

Worldwide: endemic to the Red Sea and the Gulf of Aden.

Mediterranean: it was first mentioned from the Mediterranean as *Pseudopeneus barberinus* by Lythgoe and Lythgoe (1975), clearly a mistaken record. Later several unsubstantiated records and observations were reported from several locations in the Mediterranean. The first confirmed record is from Lebanon (Bariche *et al.*, 2013) followed by several collections from Israel (Sonin *et al.*, 2013), Rhodes, Greece (Kondylatos and Corsini-Foka, 2017) and Muğla province, Turkey (Yapici and Filiz, 2017), Libya and Tunisia (Capapé *et al.*, 2018).

MODE OF INTRODUCTION

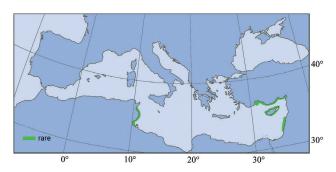
Via the Suez Canal.

ESTABLISHMENT SUCCESS

Prevalent.

IMPORTANCE TO HUMANS

Currently none. If its population increases, it could become an important commercial species.



1st Med. record 2012, Lebanon (Çinar *et al* (2006).

KEY REFERENCES

- Bariche M., Bilecenoglu M. and Azzurro E. 2013. Confirmed presence of the Red Sea goatfish *Parupeneus forsskali* (Fourmanoir and Guézé, 1976) in the Mediterranean Sea. BioInvasions Records, 2(2): 173-175.
- Capapé C., Zaouali J., Ounifi-Ben Amor K. and Ben Amor M. M. 2018. First record of Red sea goatfish Parupeneus forsskali (Osteichthyes: Mullidae) from Tunisian waters (Central Mediterranean Sea) *Annales: Series Historia Naturalis, Scientific and Research Center of the Republic of Slovenia*, 28(2): 107-110.
- Çinar M.E., Bilecenoğlu M., Öztürk B. and Can A. 2006. New records of alien species on the Levantine coast of Turkey. *Aquatic Invasions*, 1: 84-90.
- Iglésias S., Frotté L. 2015. Alien marine fishes in Cyprus: update and new records. *Aquatic Invasions*, 10(4): 425-438.
- Mehanna S., Mahmoud U. and Hassanien E. 2016. First occurrence of the Red Sea goatfish, *Parupeneus forsskali* (Fourmanoir Guz, 1976) in the coastal waters of Egyptian Mediterranean Sea. *International Journal of Fisheries and Aquaculture*, 8(9): 94-97.
- Sonin O., Salameh P., Edelist D. and Golani D. 2013. First record of the Red Sea goatfish, *Parupeneus forsskali* (Perciformes: Mullidae) from the Mediterranean coast of Israel. *Marine Biodiversity Records*, 6: e105.