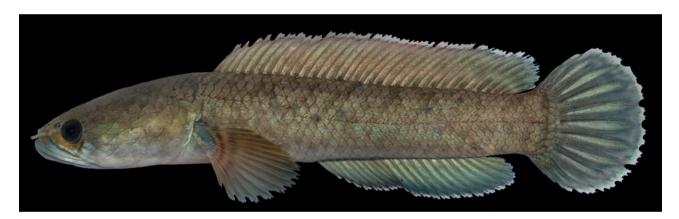
Family Channidae

Snakeheads

Snakeheads are mid-sized to large freshwater fishes that are characterised by an elongate, rounded body that becomes compressed posteriorly, long and spineless dorsal and anal fins, and by paired accessory organs or suprabranchial organs in the upper gill chamber (above and behind the gills) which enable these fishes to breathe air. There are approximately 50 species (plus many undescribed) in the Asian genus Channa and three species in the African genus Parachanna. The fossil record of snakeheads extends from the upper Eocene of Egypt to Central Europe and Asia. The smallest snakeheads reach approximately 100 mm, while the largest reported individual is 1800 mm long. All species are considered thrust predators, with most being piscivorous as adults. Snakeheads inhabit still waters, although some are found in larger rivers or along margins of fast-flowing streams. Most species construct a bubble nest in vegetation,

with the eggs laid and fertilised below the nest so that they float up into the bubbles. Others are mouthbrooders, and some feed their young with unfertilised eggs. One or both adults guard the nest, and young attacking intruders with great ferocity, including humans. Several species are highly valued as food fish within parts of their native ranges, where they are an important part of capture fisheries and aquaculture. They can be transported alive, wrapped in wet clothes or vegetation, and introduced in areas outside their natural distribution. Several Asian species have been introduced outside of their native range. Four snakehead species are thought to have entered North America through the aquarium and live-food fish markets and are now spreading. Channa maculata and C. striata have already established a wide non-native range in the tropics, including Hawaii and Madagascar. Further reading. Walter et al. 2004 (invasion); Murray 2006 (fossil record); Conte-Grand et al. 2017 (molecular diversity).



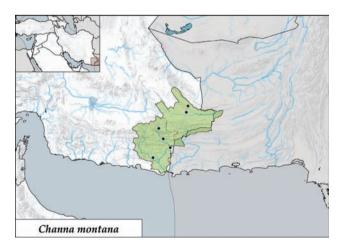
Channa montana; Kaju drainage, Iran; ~100 mm SL. © H. Mousavi-Sabet.

Channa montana

Common name. Baluchi snakehead.

Diagnosis. Distinguished from other freshwater fishes in West Asia by: \circ paired accessory organs or suprabranchial organs in upper gill chamber / \circ 33–35½ soft dorsal rays / \circ 20–22½ anal rays / \circ body roundish and elongate / \circ 41–44 lateral-line scales / \circ many teeth on jaws, vomer and palatines / \circ pelvic origin shortly behind pectoral base and below dorsal origin. Size up to 125 mm SL, likely to grow larger.

Distribution. Iran: Jazmurian (Bampur and Halil) and Mashkid (Rotak) basins shared by Iran and Pakistan. Also in rivers of Makran coast. Indus drainage in Afghanistan, Pakistan, and India, as well as rivers of western India,



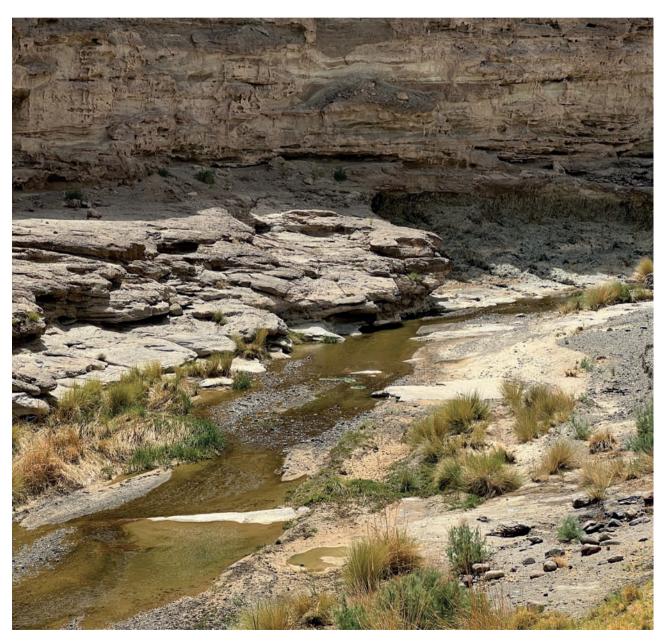
Habitat. A wide range of freshwater habitats often associated with dense submerged vegetation and standing water such as qanats, springs, and streams. Occasionally found in rocky streams without vegetation.

Biology. Forms pairs and guard larvae and small fry. Feeds free-swimming juveniles with eggs by spawning into cloud of juveniles. Single study of species' reproduction suggests that eggs are laid on bottom. Breathes air from surface. Feeds on invertebrates and small fish.

Conservation status. Not evaluated. Declining in Iran due to desiccation of habitats.

Remarks. In West Asia, snakeheads are restricted to Iran, usually identified as Channa gachua, a species described from Bengal in India. Recent molecular studies suggest that more than 20 species may be included in C. gachua. The Baluchi snakehead is very closely related to populations from the Indus and westernmost India. It is identified here as C. montana, a species described from the upper Indus drainage in Afghanistan.

Further reading. Coad 2016a (distribution, biology); Conte-Grand et al. 2017 (diversity of C. gachua).



Streams like this in Iranian Makran are the habitat of Channa montana.