



Dactylogyrids (Monogenoidea, Polyonchoinea) parasitizing the gills of snappers (Perciformes, Lutjanidae): Proposal of *Haliotrematoides* n. gen. and descriptions of new and previously described species from marine fishes of the Red Sea, the eastern and Indo-west Pacific Ocean, Gulf of Mexico and Caribbean Sea

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Abstract

Twenty six of 28 species of snappers (Lutjanidae), examined for dactylogyrids (Monogenoidea) from the Red Sea, the Indo-west and eastern Pacific Ocean, the Gulf of Mexico and the Caribbean Sea, were infected: 18 species with *Euryhaliotrema* spp., 17 with species of *Haliotrematoides* **n. gen.** and eight with species of undetermined dactylogyrid genera. Two species of fusiliers (Caesionidae) and one species of porgy (Sparidae) were also examined and found positive for species of *Haliotrematoides*. *Haliotrematoides* **n. gen.**, supported by both 18S rDNA and 28S rDNA analyses, was proposed for 15 new and 15 previously described species of *Haliotrema* (*s. l.*) from lutjanid, caesionid and sparid hosts: *Haliotrematoides hatzenbuehlerae* **n. sp.**, *Haliotrematoides brachyflagellocirrus* **n. comb.**, *Haliotrematoides caesionis* **n. comb.**, *Haliotrematoides calcaris* **n. comb.**, *Haliotrematoides cornigerum* **n. comb.**, *Haliotrematoides gracilihamus* **n. comb.**, *Haliotrematoides guttati* **n. comb.**, *Haliotrematoides heteracantha* **n. comb.**, *Haliotrematoides isolens* **n. sp.**, *Haliotrematoides lanx* **n. sp.**, *Haliotrematoides longihamus* **n. comb.**, *Haliotrematoides longitubocirrus* **n. comb.**, *Haliotrematoides magnigastrohamus* **n. comb.**, *Haliotrematoides mastigion* **n. sp.**, *Haliotrematoides mediohamides* **n. sp.**, *Haliotrematoides mediohamus* **n. comb.**, *Haliotrematoides nagibinae* **n. sp.**, *Haliotrematoides noncalcaris* **n. comb.**, *Haliotrematoides noncalcaroides* **n. sp.**, *Haliotrematoides novaecaledoniae* **n. sp.**, *Haliotrematoides overstreeti* **n. sp.**, *Haliotrematoides parvicirrus* **n. comb.**, *Haliotrematoides patellacirrus* **n. comb.**, *Haliotrematoides plectridium* **n. sp.**, *Haliotrematoides potens* **n. sp.**, *Haliotrematoides prolixohamus* **n. sp.**, *Haliotrematoides shenzhenensis* **n. comb.**, *Haliotrematoides spinatus* **n. sp.**, *Haliotrematoides tainophallus* **n. sp.**, *Haliotrematoides zhukovi* **n. sp.** The new genus was characterized by dactylogyrids having 1) an unique hook distribution with pairs 1, 2, 3, 7 on the peduncle or trunk of the body, pair 5 associated with the point and distal shaft of the ventral anchors, and pairs 4 and 6 located at the level of the anchor bases or shifted anteriorly to the union of the haptor and peduncle; 2) dorsal anchors lacking well-developed deep roots and having perforated bases, elongate relatively straight shafts, and superficial grooves on the distal portions of the shafts and/or points; 3) ventral anchors with developed basal roots, an elongate shaft, and superficial grooves along the distal portions of the shafts and/or points; 4) a ventral bar usually with two submedial pockets along the anterior margin; and 5) a copulatory complex lacking an accessory piece. New host and locality records for some previously described species were reported.

Key words: Monogenoidea, Dactylogyridae, *Haliotrematoides* **n. gen.**, Lutjanidae, *Lutjanus* spp., *Caesio cuning*, *Pterocaesio marri*, *Calamus brachysomus*, *Haliotrematoides hatzenbuehlerae* **n. sp.**, *Haliotrematoides brachyflagellocirrus* **n. comb.**, *Haliotrematoides caesionis* **n. comb.**, *Haliotrematoides calcaris* **n. comb.**, *Haliotrematoides cornigerum* **n. comb.**, *Haliotrematoides gracilihamus* **n. comb.**, *Haliotrematoides guttati* **n. comb.**, *Haliotrematoides heteracantha* **n. comb.**, *Haliotrematoides isolens* **n. sp.**, *Haliotrematoides lanx* **n. sp.**, *Haliotrematoides longihamus* **n. comb.**, *Haliotrematoides longitubocirrus* **n. comb.**, *Haliotrematoides magnigastrohamus* **n. comb.**, *Haliotrematoides mastigion* **n. sp.**, *Haliotrematoides mediohamides* **n. sp.**, *Haliotrematoides mediohamus* **n. comb.**, *Haliotrematoides nagibinae* **n. sp.**, *Haliotrematoides noncalcaris* **n. comb.**, *Haliotrematoides noncalcaroides* **n. sp.**, *Haliotrematoides novaecaledoniae* **n. sp.**, *Haliotrematoides overstreeti* **n. sp.**, *Haliotrematoides parvicirrus* **n. comb.**, *Haliotrematoides patellacirrus* **n. comb.**, *Haliotrematoides plectridium* **n. sp.**, *Haliotrematoides potens* **n. sp.**, *Haliotrematoides prolixohamus* **n. sp.**, *Haliotrematoides shenzhenensis* **n. comb.**, *Haliotrematoides spinatus* **n. sp.**, *Haliotrematoides tainophallus* **n. sp.**, *Haliotrematoides zhukovi* **n. sp.**