

AMPLIACIONES DEL AMBITO

New records of helminths parasitic on Peruvian Amazonian fishes (Osteichthyes)

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The following new records for helminths parasitic on Peruvian Amazon fishes have been established:

1- *Anacanthorus thatcheri* Boeger & Kritsky 1988, Monogenea; Dactylogyridae; Anacanthorinae. Host: *Pygocentrus nattereri* Kner. Site of infection: Gill filaments. New geographic range: Perú, Brazil. Former range: Brazil (Thatcher 1991). Voucher specimens: No 707 CHURP.

2- *Anacanthorus reginae* Boeger & Kritsky 1988, Monogenea; Dactylogyridae; Anacanthorinae. Host: *Pygocentrus nattereri* Kner. Site of infection: Gill filaments. New geographic range: Perú, Brazil. Former range: Brazil (Thatcher 1991). Voucher specimens: No 710 CHURP.

3- *Anacanthorus stachophallus* Kritsky, Boeger & Van Every 1992, Monogenea; Dactylogyridae; Anacanthorinae. Host: *Pygocentrus nattereri* Kner. Site of infection: Gill filaments. New geographic range: Perú, Brazil. Former range: Brazil (Kritsky *et al.* 1992). Voucher specimens: No 720 CHURP.

4- *Notozothecium penetratum* Boeger & Kritsky 1988, Monogenea; Dactylogyridae; Ancyrocephalinae. Host: *Pygocentrus nattereri* Kner. Site of infection: Gill filaments. New geographic range: Perú, Brazil. Former range: Brazil (Thatcher 1991). Voucher specimens: No 709 CHURP.

5- *Amphitecium calycimun* Boeger & Kritsky 1988, Monogenea; Dactylogyridae; Ancyrocephalinae. Host: *Pygocentrus nattereri*

ri Kner. Site of infection: Gill filaments. New geographic range: Perú, Brazil. Former range: Brazil (Thatcher 1991). Voucher specimens: No 708 CHURP.

6- *Amphitecium camelum* Boeger & Kritsky 1988, Monogenea; Dactylogyridae; Ancyrocephalinae. Host: *Pygocentrus nattereri* Kner. Site of infection: Gill filaments. New geographic range: Perú, Brazil. Former range: Brazil (Thatcher 1991). Voucher specimens: No 716 CHURP.

7- *Notozothecium mizellei* Boeger & Kritsky 1988, Monogenea; Dactylogyridae; Ancyrocephalinae. Host: *Pygocentrus nattereri* Kner. Site of infection: Gill filaments. New geographic range: Perú, Brazil. Former range: Brazil (Thatcher 1991). Voucher specimens: No 715 CHURP.

8- *Rhinoxenus piranhus* Kritsky, Boeger & Thatcher 1988, Monogenea; Dactylogyridae; Ancyrocephalinae. Host: *Pygocentrus nattereri* Kner. Site of infection: nasal cavities. New geographic range: Perú, Brazil. Former range: Brazil (Thatcher 1991). Voucher specimens: No 714 CHURP.

9- *Urocleidoides eremitus* Kritsky, Thatcher & Boeger 1986, Monogenea; Dactylogyridae; Ancyrocephalinae. Host: *Hoplias malabaricus* (Bloch). Site of infection: Gill filaments. New geographic range: Perú, Brazil. Former range: Brazil (Thatcher 1991). Voucher specimens: 711 CHURP.

10- *Diplectanum piscinarius* Kritsky & Thatcher 1984, Monogenea; Diplectanidae.

Host: *Plagioscion squamosissimus* (Heckel). Site of infection: Gill filaments. New geographic range: Perú, Brazil. Former range: Brazil (Thatcher 1991). Voucher specimens: No 713 CHURP.

11- *Diplectanum pescadae* Kritsky & Thatcher 1984, Monogenea; Diplectanidae. Host: *Plagioscion squamosissimus* (Heckel). Site of infection: Gill filaments. New geographic range: Perú, Brazil. Former range: Brazil (Thatcher 1991). Voucher specimens: No 712 CHURP.

12- *Diplectanum decorum* Kritsky & Thatcher 1984, Monogenea; Diplectanidae. Host: *Plagioscion squamosissimus* (Heckel). Site of infection: Gill filaments. New geographic range: Perú, Brazil. Former range: Brazil (Thatcher 1991). Voucher specimens: No 717 CHURP.

13- *Thometrema overstreeti* (Brooks, Mayes & Thorson 1979), Trematoda; Derogenidae. Host: *Hoplias malabaricus* (Bloch). Site of infection: Intestine. New geographic range: Perú, Colombia, Brazil, Argentina. Former range: Colombia, Brazil, Argentina (Thatcher 1991). Voucher specimens: No 718 CHURP.

14- *Brasicystis benneti* Thatcher 1979. Trematoda: Didymozoidae. Host: *Plagioscion squamosissimus* (Heckel). Site of infection: Mouth, gills. New geographic range: Perú, Brazil. Former range: Brazil (Thatcher 1991). Voucher specimens: No 724.

15- *Bacudacnitis grandistomis* Ferraz & Thatcher 1988. Nematoda; Cucullanidae. Host: *Oxidoras niger* (Valenciennes). Site of infection: Intestine. New geographic range: Perú, Brazil. Former range: Brazil (Thatcher 1991). Voucher specimens: No 719 CHURP.

16- *Rhadinorhynchus plagioscionis* Thatcher 1980. Acanthocephala: Rhadinorhynchidae. Host: *Plagioscion squamosissimus* (Heckel). Site of infection: Intestine. New geographic range: Perú, Brazil. Former range: Brazil. (Thatcher 1991). Voucher specimens: No 722.

COMMENTS

These species were collected during a parasitological survey of Peruvian Amazonian teleosts. *Pygocentrus nattereri* (= *Serrasalmus nattereri*), *Oxidoras niger* and *Plagioscion squamosissimus* were collected from white waters of the Amazonian River near Iquitos, Loreto, Perú. Only *Hoplias malabaricus* was collected from black-waters of Tambopata river, Tambopata-Candamo Natural Wildlife Reserve, Madre de Dios, Perú. Fish nomenclature has been based in Ortega and Vari (1986) and Gery (1977). Methods for collection and preparation of helminth for study are those described by Kritsky and Boeger (1986). The helminths parasitics were deposited in the Colección Helminológica de la Universidad Ricardo Palma (CHURP).

One of the species recorded, *Thometrema overstreeti* is a generalist parasitic of fishes (Erythrinidae, Pimelodidae and Potamotrygonidae) widely distributed in the Amazonian drainages. The others helminths parasites are restricted to one host species.

The similarity of this helminth fauna on fishes from Perú and Brazil must be due to the fact that the hosts occurs in the Amazonian drainages of both countries.

Recently, Boeger and Kritsky (1988) studied the variation in monogenean communities occurring on gills of *Pygocentrus nattereri* in the Brazilian Amazon. Twenty-four species comprising seven genera of Dactylogyridae have been described from this host.

To date, eight species of Monogeneans parasitic on Peruvian Amazonian Teleosts are known (Tantalean *et al.* 1985; Iannacone and Luque 1991). This report increase the number to 20. The digenean, nematode and acanthocephalan fauna of Peruvian freshwater fishes is scanty: only 12 species are known (Tantalean *et al.* 1985, 1992). This research increased the number to 16.

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REFERENCES

- Boeger, W.A. & D.C. Kritsky. 1988. Neotropical Monogenea. 12. Dactylogyridae from *Serrasalmus nattereri* (Cypriniformes, Serrasalminae) and aspects of their morphologic variation and distribution in the Brazilian Amazon. Proc. Helminthol. Soc. Wash. 55: 188-213.
- Géry, J. 1977. Characoids of the World. T.F.H., New Jersey. 672 p.
- Iannacone, J. & J.L. Luque. 1991. Monogeneos parásitos del "Paiche" *Arapaima gigas* (C.) y del "Turushuqui" *Oxidoras niger* (V.) en la Amazonia Peruana. Boletín de Lima (Perú) 76: 43-48.
- Kritsky, D.C. & W.A. Boeger. 1986. Neotropical Monogenea. 8. Revision of *Urocleidoides* (Dactylogyridae, Ancyrocephalinae). Proc. Helminthol. Soc. Wash. 53: 1-37.
- Kritsky, D.C., W.A. Boeger & L.R. Van Every. 1992. Neotropical Monogeneoidea. 17. *Anacanthorus* Mizelle and Price, 1965 (Dactylogyridae, Anacanthorinae) from Characoid fishes of the Central Amazon. J. Helminthol. Soc. Wash. 59: 25-51.
- Ortega, H. & R.P. Vari. 1986. Annotated Checklist of the Freshwater Fishes of Peru. Smiths. Cont. Zool. 437: 1-25.
- Tantaleán, M., A. Huiza & E. Hurtado. 1985. Helmintos parásitos de peces de agua dulce del Perú. Inst. Invest. para el Desarrollo Social del Antiplano Puno, Perú, 43 p.
- Tantaleán, M., L.B. Sarmiento & A. Huiza. 1992. Digeneos (Trematoda) del Perú. Boletín de Lima (Perú) 80: 47-84.
- Thatcher, V.E. 1991. Amazon Fish Parasites. Amazoniana 11: 263-572.

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