

# *Aplochiton marinus*

Assessment by: Cussac, V.



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## Taxonomy

Kingdom	Phylum	Class	Order	Family
Animalia	Chordata	Actinopterygii	Osmeriformes	Galaxiidae

**Scientific Name:** *Aplochiton marinus* Eigenmann, 1928

### Taxonomic Source(s):

Fricke, R., Eschmeyer, W.N. and Van der Laan, R. (eds). 2020. Eschmeyer's Catalog of Fishes: genera, species, references. Updated 04 May 2020. Available at: <http://researcharchive.calacademy.org/research/ichthyology/catalog/fishcatmain.asp>.

### Taxonomic Notes:

*Aplochiton marinus* was synonymized with *A. taeniatus* (Fowler 1945, McDowall 1971, McDowall and Nakaya 1987) but Dyer (2000) regards it as a potentially good species. Aló *et al.* (2013) identified *A. marinus* unambiguously (100% accuracy) both from the genetic and morphological viewpoints.

## Assessment Information

**Red List Category & Criteria:** Vulnerable D2 [ver 3.1](#)

**Year Published:** 2022

**Date Assessed:** May 30, 2022

### Justification:

This species is known only from three localities along the Chilean coast. It has an area of occupancy (AOO) of 12 km<sup>2</sup>. Escapees from industrial salmon cage culture are a potential source of competition and predation. This threat could push the species to becoming Critically Endangered or Extinct in a very short time period. Therefore, it is assessed as Vulnerable.

### Previously Published Red List Assessments

1996 – Data Deficient (DD)

<https://dx.doi.org/10.2305/IUCN.UK.1996.RLTS.T1866A8504998.en>

1994 – Insufficiently Known (K)

## Geographic Range

### Range Description:

Eigenmann (1928), McDowall (1971a) and Cussac *et al.* (2004) only indicated one locality for this species: Estero Cutipay. Aló *et al.* (2013) added and documented two other localities, one in Chiloe island and one more in Baker river estuary.

### Country Occurrence:

**Native, Extant (resident):** Chile

# Distribution Map

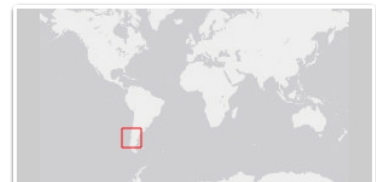


## Legend

■ EXTANT (RESIDENT)

## Compiled by:

IUCN (International Union for Conservation of Nature) 2020



The boundaries and names shown and the designations used on this map do not imply any official endorsement, acceptance or opinion by IUCN.



## Population

This species has been rarely recorded (known from 13 individuals), and its taxonomic validity has been questioned ever since its original description. Aló *et al.* (2013) resurrected the species on the basis of genetic and morphological viewpoints considering only three localities along the Chilean coast.

**Current Population Trend:** Unknown

## Habitat and Ecology (see Appendix for additional information)

This species is known from estuarine environments. There is little information on its habitats and ecology.

**Systems:** Freshwater (=Inland waters), Marine

## Use and Trade (see Appendix for additional information)

There is no use or trade information for this species.

## Threats (see Appendix for additional information)

Escapes from industrial salmon cage culture are a potential source of competition and predation.

## Conservation Actions (see Appendix for additional information)

There are no conservation actions in place for this species.

Taxonomic research is recommended. The taxonomic validity of this species has been questioned ever since its original description. Aló *et al.* (2013) resurrected the species on the basis of genetic and morphological viewpoints.

## Credits

**Assessor(s):** Cussac, V.

**Reviewer(s):** Lyons, T.J.

**Partner(s) and Institution(s):** ABQ BioPark

## Bibliography

Alo, D., Correa, C., Arias, C. and Leyla Cardenas, L. 2013. Diversity of *Aplochiton* Fishes (Galaxiidea) and the Taxonomic Resurrection of *A. marinus*. *PLoS ONE* 8(8): e71577.

Dyer, B.S. 2000. Systematic review and biogeography of the freshwater fishes of Chile. *Estudios Oceanológicos* 19: 77 - 98.

Fowler, H.W. 1945. Fishes of Chile – Systematic Cata- log. *Revista Chilena de Historia Natural*: 1–171.

Groombridge, B. (ed.). 1994. *1994 IUCN Red List of Threatened Animals*. IUCN, Gland, Switzerland and Cambridge, UK.

IUCN. 2022. The IUCN Red List of Threatened Species. Version 2022-2. Available at: [www.iucnredlist.org](http://www.iucnredlist.org). (Accessed: 08 December 2022).

McDowall, R.M. 1971. Fishes of the family Aplochitonidae. *Journal of the Royal Society of New Zealand* 1(1): 31-52.

McDowall, R.M. and Nakaya, K. 1987. Identity of the galaxioid fishes of the genus *Aplochiton* Jenyns from southern Chile. *Japanese Journal of Ichthyology* 34(3): 377-383.

## Citation

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## External Resources

For [Supplementary Material](#), and for [Images and External Links to Additional Information](#), please see the Red List website.

# Appendix

## Habitats

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

Habitat	Season	Suitability	Major Importance?
5. Wetlands (inland) -> 5.1. Wetlands (inland) - Permanent Rivers/Streams/Creeks (includes waterfalls)	Resident	Suitable	Yes
9. Marine Neritic -> 9.10. Marine Neritic - Estuaries	-	Suitable	-

## Threats

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

Threat	Timing	Scope	Severity	Impact Score
2. Agriculture & aquaculture -> 2.4. Marine & freshwater aquaculture -> 2.4.2. Industrial aquaculture	Ongoing	Whole (>90%)	Unknown	Unknown
	Stresses:	1. Ecosystem stresses -> 1.3. Indirect ecosystem effects 2. Species Stresses -> 2.1. Species mortality 2. Species Stresses -> 2.2. Species disturbance 2. Species Stresses -> 2.3. Indirect species effects -> 2.3.2. Competition		

## Conservation Actions in Place

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

Conservation Action in Place
In-place research and monitoring
Action Recovery Plan: No
Systematic monitoring scheme: No
In-place land/water protection
Conservation sites identified: No
Area based regional management plan: No
Occurs in at least one protected area: No
Invasive species control or prevention: No
In-place species management
Harvest management plan: No
Successfully reintroduced or introduced benignly: No

<b>Conservation Action in Place</b>
Subject to ex-situ conservation: No
In-place education
Subject to recent education and awareness programmes: No
Included in international legislation: No
Subject to any international management / trade controls: No

## Research Needed

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

<b>Research Needed</b>
1. Research -> 1.1. Taxonomy

## Additional Data Fields

<b>Distribution</b>
Estimated area of occupancy (AOO) (km <sup>2</sup> ): 12
Continuing decline in area of occupancy (AOO): Unknown
Extreme fluctuations in area of occupancy (AOO): Unknown
Estimated extent of occurrence (EOO) (km <sup>2</sup> ): 28564
Continuing decline in extent of occurrence (EOO): Unknown
Extreme fluctuations in extent of occurrence (EOO): Unknown
Number of Locations: 3
Continuing decline in number of locations: Unknown
Extreme fluctuations in the number of locations: Unknown
Lower elevation limit (m): 0
Upper elevation limit (m): 100
<b>Habitats and Ecology</b>
Continuing decline in area, extent and/or quality of habitat: Unknown
Movement patterns: Full Migrant
Congregatory: Congregatory (and dispersive)

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