

## *Psalidodon chico*

Assessment by: Alonso, F.



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## Taxonomy

Kingdom	Phylum	Class	Order	Family
Animalia	Chordata	Actinopterygii	Characiformes	Characidae

**Scientific Name:** *Psalidodon chico* (Casciotta & Almirón, 2004)

### Synonym(s):

- *Astyanax chico* Casciotta & Almirón, 2004

### 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>.

## Assessment Information

**Red List Category & Criteria:** Vulnerable B1ab(iii)+2ab(iii) [ver 3.1](#)

**Year Published:** 2022

**Date Assessed:** December 15, 2020

### Justification:

This species is considered in the category Vulnerable according to the criteria B1ab(iii)+2ab(iii): the extent of occurrence (EEO) is estimated to be less than 20,000 km<sup>2</sup> (11,110 km<sup>2</sup>), the area of occupancy (AOO) is estimated to be less than 2,000 km<sup>2</sup>(1,680 km<sup>2</sup>), it is known to exist at no more than 10 locations (four), and there is continuing decline in the area, extent and quality of habitat based primarily on modification and degradation of the habitat by agriculture and other human activities.

## Geographic Range

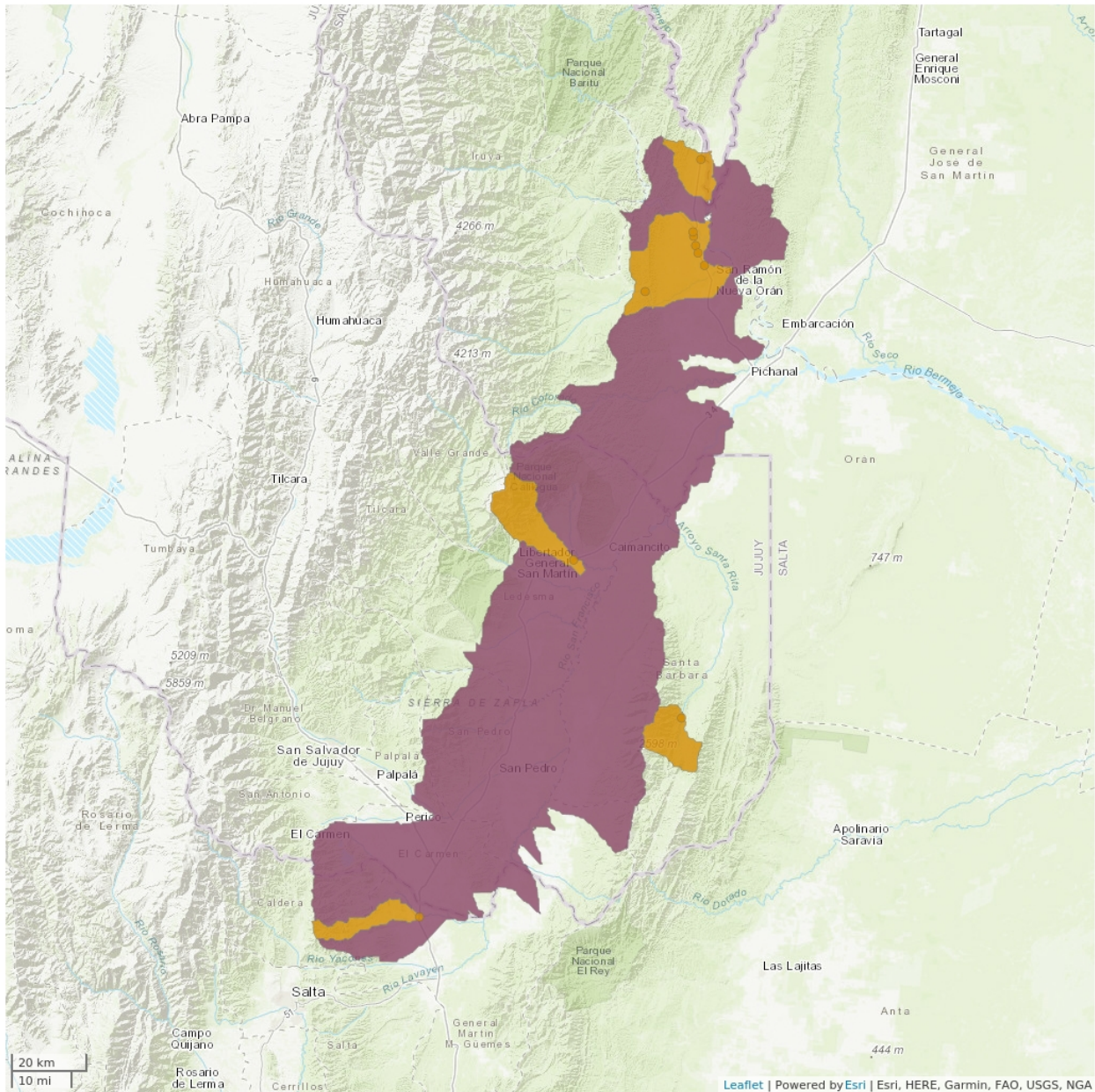
### Range Description:

This species is endemic of the upper Bermejo River basin in the Yungas region in north-west Argentina (Casciotta and Almirón 2004).

### Country Occurrence:

**Native, Extant (resident):** Argentina (Jujuy, Salta)

# Distribution Map

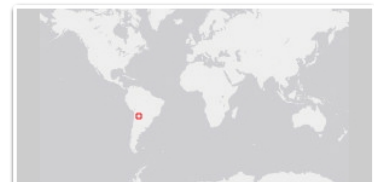


## Legend

- EXTANT (RESIDENT)
- POSSIBLY 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

No data are available on the population trend of this species.

**Current Population Trend:** Unknown

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

This species inhabits in pools forming schools, on rivers and creeks in the Yungas rainforest in the piedmont region of the upper Bermejo River basin (F. Alonso. pers. obs. 2020).

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

## Use and Trade

This species is used as bait by local populations and can be occasionally eaten as food.

## Threats (see Appendix for additional information)

The area where this species inhabits has been severely modified by agriculture, agrochemicals, deforestation, sewage, and diverse human activities.

## Conservation Actions (see Appendix for additional information)

This species is not the target of any conservation measure but it is probably present in some protected areas within its area of distribution.

## Credits

**Assessor(s):** Alonso, F.

**Reviewer(s):** Mirande, J.M.

## Bibliography

Casciotta, J.R. and Almirón, A.E. 2004. *Astyanax chico* sp. n. -- a new species from the río San Francisco basin, northwest of Argentina (Teleostei: Characiformes: Characidae). *Zoologische Abhandlungen; Staatliches Museum für Tierkunde in Dresden* 54: 11-17.

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).

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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)	-	Suitable	-

### Use and Trade

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

End Use	Local	National	International
1. Food - human	Yes	No	No
17. Other (free text)	Yes	No	No

### Threats

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

Threat	Timing	Scope	Severity	Impact Score
1. Residential & commercial development -> 1.1. Housing & urban areas	Ongoing	-	-	Low impact: 3
1. Residential & commercial development -> 1.2. Commercial & industrial areas	Ongoing	-	-	Low impact: 3
1. Residential & commercial development -> 1.3. Tourism & recreation areas	Ongoing	-	-	Low impact: 3
2. Agriculture & aquaculture -> 2.1. Annual & perennial non-timber crops -> 2.1.2. Small-holder farming	Ongoing	-	-	Low impact: 3
2. Agriculture & aquaculture -> 2.1. Annual & perennial non-timber crops -> 2.1.3. Agro-industry farming	Ongoing	-	-	Low impact: 3
2. Agriculture & aquaculture -> 2.2. Wood & pulp plantations -> 2.2.2. Agro-industry plantations	Ongoing	-	-	Low impact: 3
2. Agriculture & aquaculture -> 2.3. Livestock farming & ranching -> 2.3.2. Small-holder grazing, ranching or farming	Ongoing	-	-	Low impact: 3
2. Agriculture & aquaculture -> 2.3. Livestock farming & ranching -> 2.3.3. Agro-industry grazing, ranching or farming	Ongoing	-	-	Low impact: 3

4. Transportation & service corridors -> 4.1. Roads & railroads	Ongoing	-	-	Low impact: 3
5. Biological resource use -> 5.1. Hunting & trapping terrestrial animals -> 5.1.1. Intentional use (species is the target)	Ongoing	-	-	Low impact: 3
7. Natural system modifications -> 7.1. Fire & fire suppression -> 7.1.1. Increase in fire frequency/intensity	Ongoing	-	-	Low impact: 3
7. Natural system modifications -> 7.2. Dams & water management/use -> 7.2.1. Abstraction of surface water (domestic use)	Ongoing	-	-	Low impact: 3
7. Natural system modifications -> 7.2. Dams & water management/use -> 7.2.2. Abstraction of surface water (commercial use)	Ongoing	-	-	Low impact: 3
7. Natural system modifications -> 7.2. Dams & water management/use -> 7.2.3. Abstraction of surface water (agricultural use)	Ongoing	-	-	Low impact: 3
7. Natural system modifications -> 7.2. Dams & water management/use -> 7.2.5. Abstraction of ground water (domestic use)	Ongoing	-	-	Low impact: 3
7. Natural system modifications -> 7.2. Dams & water management/use -> 7.2.6. Abstraction of ground water (commercial use)	Ongoing	-	-	Low impact: 3
7. Natural system modifications -> 7.2. Dams & water management/use -> 7.2.7. Abstraction of ground water (agricultural use)	Ongoing	-	-	Low impact: 3
7. Natural system modifications -> 7.2. Dams & water management/use -> 7.2.9. Small dams	Ongoing	-	-	Low impact: 3
9. Pollution -> 9.1. Domestic & urban waste water -> 9.1.1. Sewage	Ongoing	-	-	Low impact: 3
9. Pollution -> 9.1. Domestic & urban waste water -> 9.1.2. Run-off	Ongoing	-	-	Low impact: 3
9. Pollution -> 9.3. Agricultural & forestry effluents -> 9.3.1. Nutrient loads	Ongoing	-	-	Low impact: 3
9. Pollution -> 9.3. Agricultural & forestry effluents -> 9.3.2. Soil erosion, sedimentation	Ongoing	-	-	Low impact: 3
9. Pollution -> 9.3. Agricultural & forestry effluents -> 9.3.3. Herbicides and pesticides	Ongoing	-	-	Low impact: 3
9. Pollution -> 9.4. Garbage & solid waste	Ongoing	-	-	Low impact: 3
11. Climate change & severe weather -> 11.1. Habitat shifting & alteration	Ongoing	-	-	Low impact: 3
11. Climate change & severe weather -> 11.2. Droughts	Ongoing	-	-	Low impact: 3

## Conservation Actions in Place

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

<b>Conservation Action in Place</b>
In-place research and monitoring
Action Recovery Plan: No
Systematic monitoring scheme: No
In-place land/water protection
Conservation sites identified: No
Percentage of population protected by PAs: 11-20
Occurs in at least one protected area: Yes
Invasive species control or prevention: Not Applicable
In-place species management
Harvest management plan: No
Successfully reintroduced or introduced benignly: No
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

## Conservation Actions Needed

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

<b>Conservation Action Needed</b>
1. Land/water protection -> 1.1. Site/area protection
1. Land/water protection -> 1.2. Resource & habitat protection
2. Land/water management -> 2.1. Site/area management
2. Land/water management -> 2.3. Habitat & natural process restoration
3. Species management -> 3.1. Species management -> 3.1.1. Harvest management
3. Species management -> 3.1. Species management -> 3.1.2. Trade management
4. Education & awareness -> 4.1. Formal education
4. Education & awareness -> 4.2. Training
4. Education & awareness -> 4.3. Awareness & communications



### Conservation Action Needed

5. Law & policy -> 5.1. Legislation -> 5.1.3. Sub-national level

## Research Needed

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

### Research Needed

1. Research -> 1.1. Taxonomy

1. Research -> 1.2. Population size, distribution & trends

1. Research -> 1.3. Life history & ecology

1. Research -> 1.4. Harvest, use & livelihoods

1. Research -> 1.5. Threats

1. Research -> 1.6. Actions

2. Conservation Planning -> 2.1. Species Action/Recovery Plan

2. Conservation Planning -> 2.2. Area-based Management Plan

2. Conservation Planning -> 2.3. Harvest & Trade Management Plan

3. Monitoring -> 3.1. Population trends

3. Monitoring -> 3.2. Harvest level trends

3. Monitoring -> 3.3. Trade trends

3. Monitoring -> 3.4. Habitat trends

## Additional Data Fields

### Distribution

Estimated area of occupancy (AOO) (km<sup>2</sup>): 1680

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>): 11110

Continuing decline in extent of occurrence (EOO): Unknown

Extreme fluctuations in extent of occurrence (EOO): Unknown

Number of Locations: 4

Lower elevation limit (m): 350

Upper elevation limit (m): 1,074

<b>Habitats and Ecology</b>
Continuing decline in area, extent and/or quality of habitat: Yes
Movement patterns: Not a Migrant

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