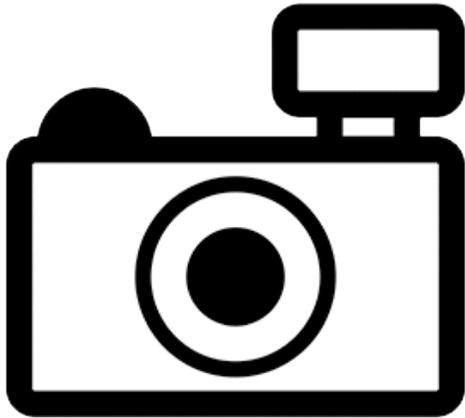


***Cichlasoma orinocense* (a cichlid, no common name)**

Ecological Risk Screening Summary

U.S. Fish & Wildlife Service, August 2011
Revised, November 2018
Web Version, 1/30/2019



No Photo Available

1 Native Range and Status in the United States

Native Range

From Kullander (2003):

“Distribution: South America: Orinoco River basin, in left bank tributaries of the Orinoco River from the Meta River in Colombia to about Ciudad Bolívar in Venezuela.”

Status in the United States

No records of *Cichlasoma orinocense* in the wild or in trade in the United States were found.

Means of Introductions in the United States

No records of *Cichlasoma orinocense* in the wild in the United States were found.

Remarks

No additional remarks.

2 Biology and Ecology

Taxonomic Hierarchy and Taxonomic Standing

According to Fricke et al. (2018), *Cichlasoma orinocense* Kullander 1983 is the original and current valid name of this species.

From ITIS (2018):

“Kingdom Animalia
Subkingdom Bilateria
Infrakingdom Deuterostomia
Phylum Chordata
Subphylum Vertebrata
Infraphylum Gnathostomata
Superclass Actinopterygii
Class Teleostei
Superorder Acanthopterygii
Order Perciformes
Suborder Labroidei
Family Cichlidae
Genus *Cichlasoma*
Species *Cichlasoma orinocense* Kullander, 1983”

Size, Weight, and Age Range

From Froese and Pauly (2018):

“Max length : 10.9 cm SL male/unsexed; [Kullander 2003]”

Environment

From Froese and Pauly (2018):

“Freshwater; benthopelagic. [...]; 26°C - 30°C [assumed to be recommended aquarium temperature] [Baensch and Riehl 1997]”

Climate/Range

From Froese and Pauly (2018):

“Tropical; [...]”

Distribution Outside the United States

Native

From Kullander (2003):

“Distribution: South America: Orinoco River basin, in left bank tributaries of the Orinoco River from the Meta River in Colombia to about Ciudad Bolívar in Venezuela.”

Introduced

No records of introductions of *Cichlasoma orinocense* were found.

Means of Introduction Outside the United States

No records of introductions of *Cichlasoma orinocense* were found.

Short Description

No description of *Cichlasoma orinocense* was found.

Biology

No information on the biology of *Cichlasoma orinocense* was found.

Human Uses

No information on human uses of *Cichlasoma orinocense* were found.

Diseases

No information on diseases of *Cichlasoma orinocense* was found. **No records of OIE-reportable diseases were found for *C. orinocense*.**

Threat to Humans

From Froese and Pauly (2018):

“Harmless”

3 Impacts of Introductions

No records of introductions of *Cichlasoma orinocense* were found.

4 Global Distribution



Figure 1. Map of northern South America showing locations where *Cichlasoma orinocense* has been reported. Locations are in Columbia and Venezuela. Map from GBIF Secretariat (2018).

5 Distribution Within the United States

No records of *Cichlasoma orinocense* in the wild in the United States were found.

6 Climate Matching

Summary of Climate Matching Analysis

The climate match for *Cichlasoma orinocense* was low for the majority of the contiguous United States with patches of medium match in southeastern Texas and most of peninsular Florida. The Climate 6 score (Sanders et al. 2014; 16 climate variables; Euclidean distance) for the contiguous United States was 0.001, low. The range for a low climate score is from 0.0 to 0.005, inclusive. All states had low individual climate scores except for Florida which had a medium individual climate score.

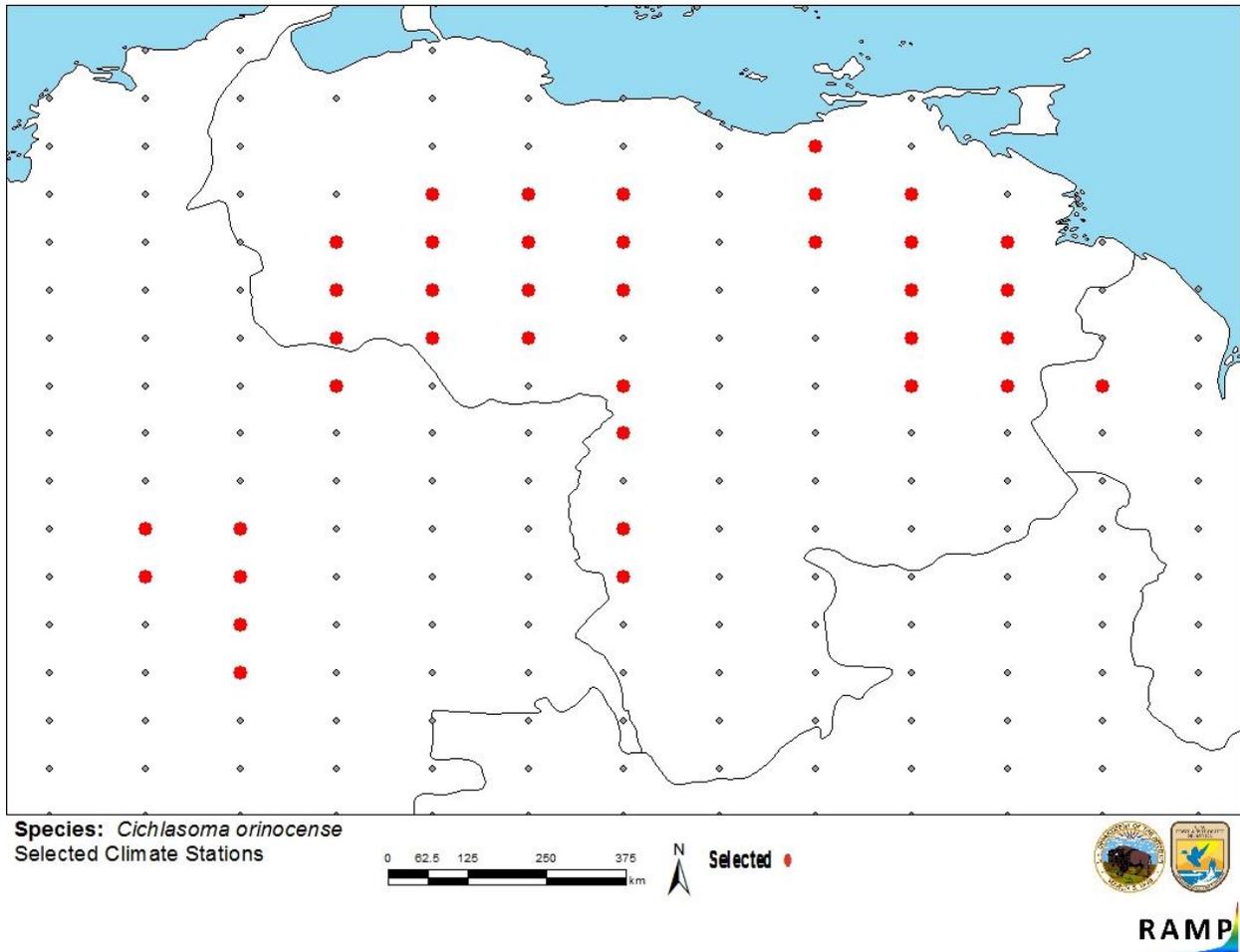


Figure 2. RAMP (Sanders et al. 2018) source map showing weather stations in South America selected as source locations (red; Columbia, Guyana, and Venezuela) and non-source locations (gray) for *Cichlasoma orinocense* climate matching. Source locations from GBIF Secretariat (2018). Selected source locations are within 100 km of one or more species occurrences, and do not necessarily represent the locations of occurrences themselves.

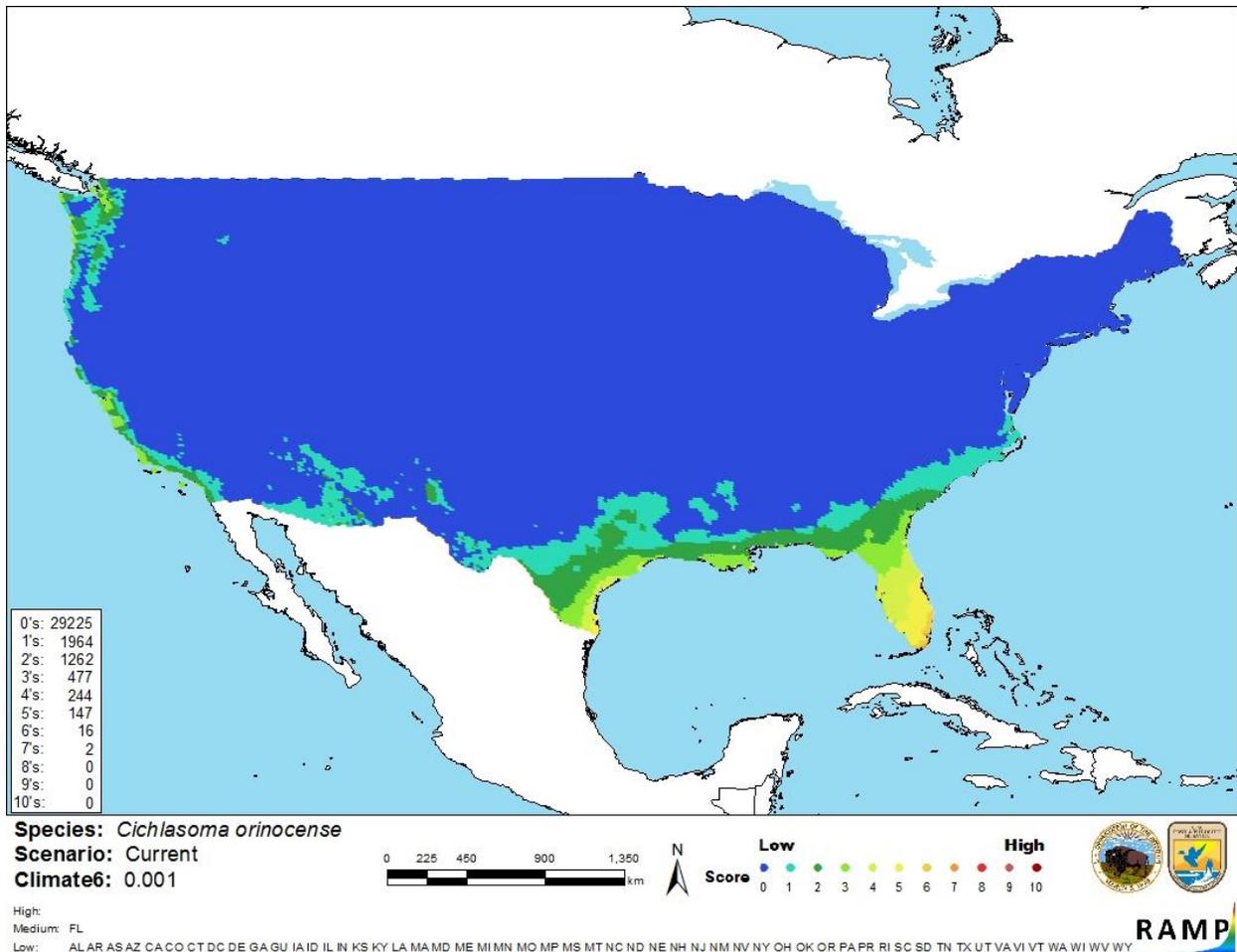


Figure 3. Map of RAMP (Sanders et al. 2018) climate matches for *Cichlasoma orinocense* in the contiguous United States based on source locations reported from GBIF Secretariat (2018). 0 = Lowest match, 10 = Highest match.

The High, Medium, and Low Climate match Categories are based on the following table:

Climate 6: Proportion of (Sum of Climate Scores 6-10) / (Sum of total Climate Scores)	Climate Match Category
$0.000 \leq X < 0.005$	Low
$0.005 < X < 0.103$	Medium
≥ 0.103	High

7 Certainty of Assessment

The certainty of assessment for *Cichlasoma orinocense* is low. There is minimal information available for this species. No information on introductions of *Cichlasoma orinocense* was found.

8 Risk Assessment

Summary of Risk to the Contiguous United States

Cichlasoma orinocense is a Neotropical cichlid fish native to Columbia and Venezuela. The history of invasiveness is uncertain. It has not been reported as introduced or established anywhere in the world. The climate match for the contiguous United States was low with Florida having a medium individual climate match. The certainty of assessment is low. The overall risk assessment category is uncertain.

Assessment Elements

- **History of Invasiveness (Sec. 3): Uncertain**
- **Climate Match (Sec. 6): Low**
- **Certainty of Assessment (Sec. 7): Low**
- **Remarks/Important additional information:** No additional information.
- **Overall Risk Assessment Category: Uncertain**

9 References

Note: The following references were accessed for this ERSS. References cited within quoted text but not accessed are included below in Section 10.

- Fricke, R., W. N. Eschmeyer, and R. van der Laan, editors. 2018. Catalog of fishes: genera, species, references. Available: <http://researcharchive.calacademy.org/research/ichthyology/catalog/fishcatmain.asp>. (November 2018).
- Froese, R., and D. Pauly, editors. 2018. *Cichlasoma orinocense* Kullander, 1983. FishBase. Available: <https://www.fishbase.de/summary/Cichlasoma-orinocense.html>. (November 2018).
- GBIF Secretariat. 2018. GBIF backbone taxonomy: *Cichlasoma orinocense* Kullander, 1983. Global Biodiversity Information Facility, Copenhagen. Available: <https://www.gbif.org/species/2371921>. (November 2018).
- ITIS (Integrated Taxonomic Information System). 2018. *Cichlasoma orinocense* Kullander, 1983. Integrated Taxonomic Information System, Reston, Virginia. Available: https://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=648376#null. (November 2018).
- Kullander, S. O. 2003. Cichlidae (cichlids). Pages 605–654 in R. E. Reis, S. O. Kullander, and C. J. Ferraris, Jr., editors. Checklist of the freshwater fishes of South and Central America. EDIPUCRS, Porto Alegre, Brazil.
- Sanders, S., C. Castiglione, and M. Hoff. 2018. Risk assessment mapping program: RAMP, version 3.1. U.S. Fish and Wildlife Service.

10 References Quoted But Not Accessed

Note: The following references are cited within quoted text within this ERSS, but were not accessed for its preparation. They are included here to provide the reader with more information.

Baensch, H. A., and R. Riehl. 1997. Aquarien atlas, Band 5. Mergus Verlag, Melle, Germany.

Kullander, S. O. 1983. A revision of the South American cichlid genus *Cichlasoma* (Teleostei: Cichlidae). Naturhistoriska Riksmuseet, Stockholm.