

Cirrhinus rubirostris

Ecological Risk Screening Summary

Web Version – 10/31/2012

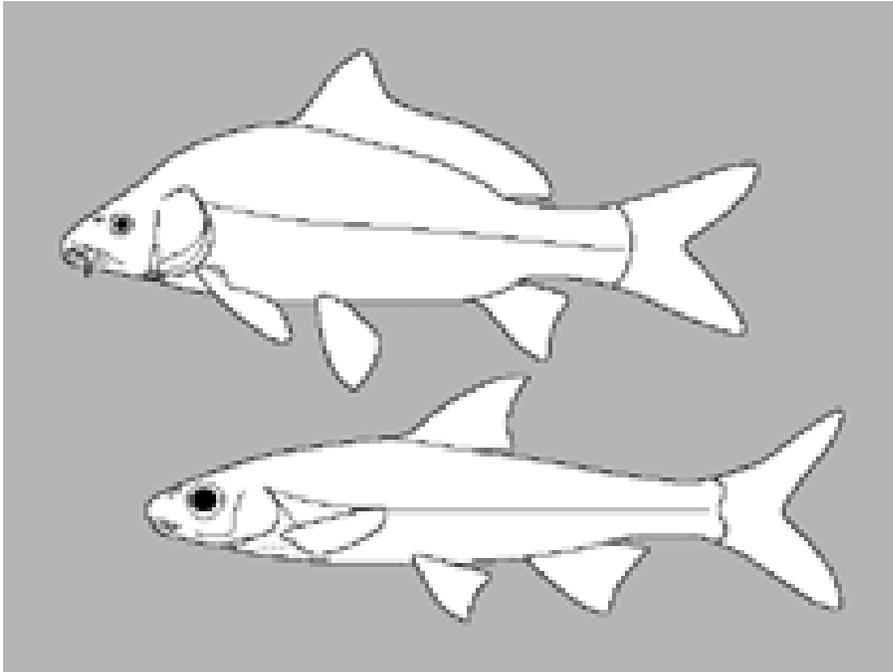


Photo not available.

1 Native Range, and Status in the United States

Native Range

From Froese and Pauly (2011):

“Asia: known only from the Tenasserim River basin of southeastern Myanmar.”

Status in the United States

No known nonindigenous occurrences.

Means of Introductions in the United States

No known means of introductions.

2 Biology and Ecology

Taxonomic Hierarchy and Taxonomic Standing

From ITIS (2011):

Kingdom Animalia
 Phylum Chordata
 Subphylum Vertebrata
 Superclass Osteichthyes
 Class Actinopterygii
 Subclass Neopterygii
 Infraclass Teleostei
 Superorder Ostariophysi
 Order Cypriniformes
 Superfamily Cyprinoidea
 Family Cyprinidae
 Genus *Cirrhinus*
 Species *Cirrhinus rubirostris*

Current Taxonomic Standing: valid

Size, Weight, Age

From Froese and Pauly (2011): “Max length: 17.2 cm SL male/unsexed; (Roberts 1997)”

Environment

From Froese and Pauly (2011): “Freshwater; demersal”

Climate/Range

From Froese and Pauly (2011): “Tropical”

Distribution

From Froese and Pauly (2011):

“Asia: known only from the Tenasserim River basin of southeastern Myanmar.”

Short description

From Froese and Pauly (2011):

“Dorsal spines (total): 0; Dorsal soft rays (total): 10; Vertebrae: 35. *Cirrhinus rubirostris* differs from all other *Cirrhinus* in having both sexes with well-developed rostral tubercles, and rostral tubercles and snout pinkish or rosy red. Rostral barbels absent, maxillary barbels present.”

Biology

From Froese and Pauly (2011): “Inhabit rivers.”

Diseases

None reported.

3 Impacts of Introductions

No known impacts of introductions.

4 Global Distribution



Figure 1. Distribution of *Cirrhinus rubriostri* in the Tenasserim Basin of Myanmar, Burma (Wikimedia.org (2011)).

5 Distribution within the United States

No known distribution within the United States

6 CLIMATCH

Summary of Climate Matching Analysis

The climate match (Australian Bureau of Rural Sciences 2010, 16 climate variables; Euclidean Distance) was Low in the entire U.S. Climate 6 match indicated that the Continental U.S. has a low climate match. The range for a low climate match is 0.0 – 0.005 and the climate match of *Cirrhinus rubirostris* is 0.000.

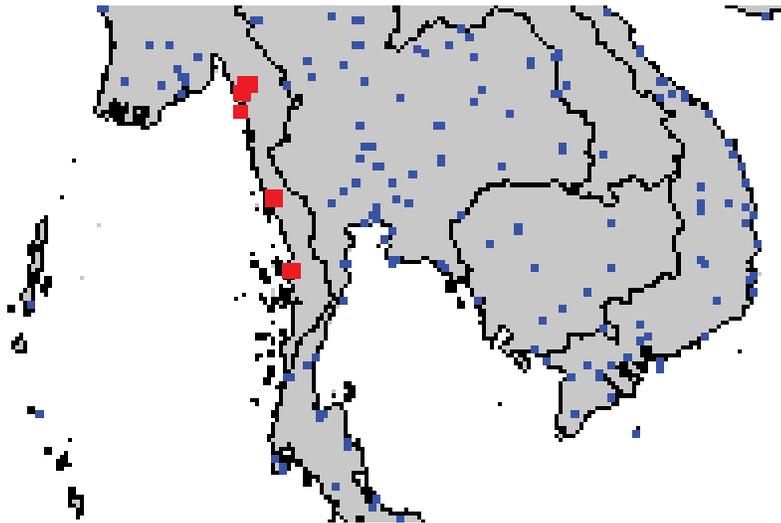


Figure 2. CLIMATCH (Australian Bureau of Rural Sciences 2010) source map showing weather stations selected as source locations (red) and non-source locations (blue) for *Cirrhinus rubirostris* climate matching. Source locations from Froese and Pauly (2011).

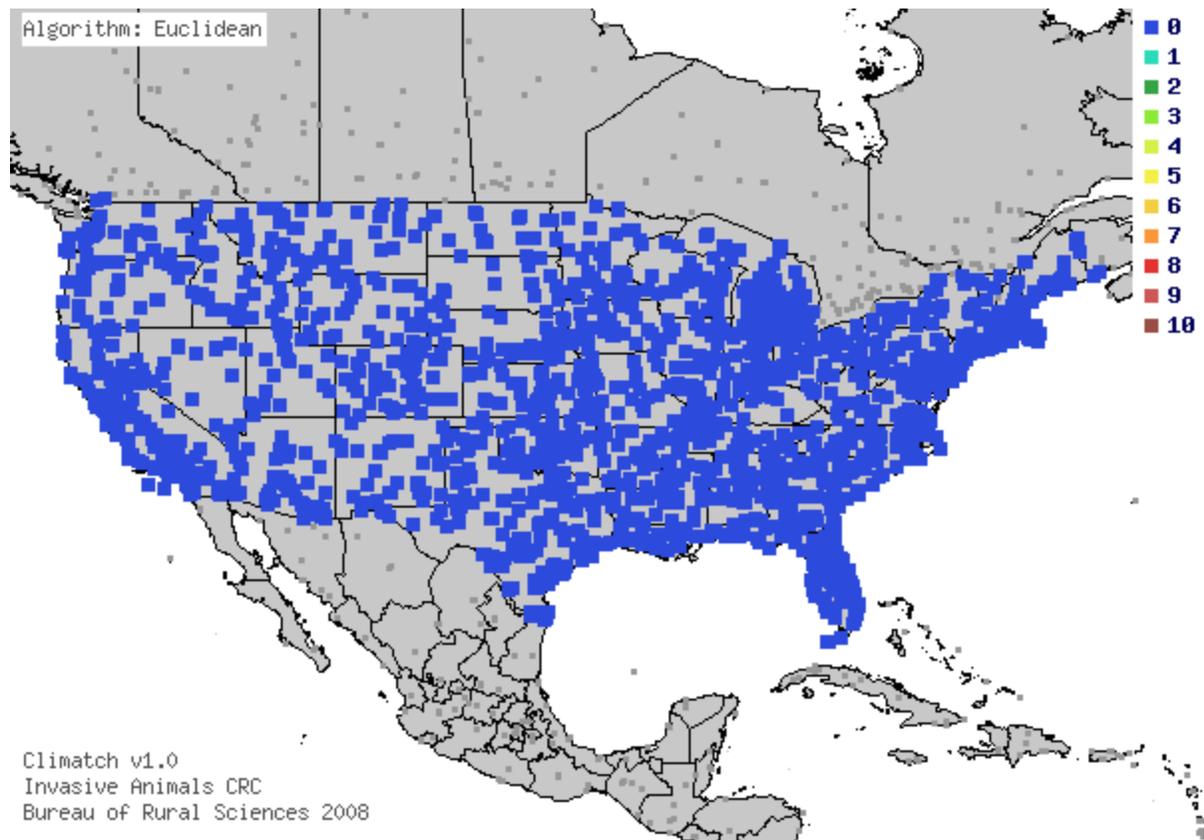


Figure 3. Map of CLIMATCH (Australian Bureau of Rural Sciences 2010) climate matches for *Cirrhinus rubriostri* in the continental United States based on source locations reported by Froese and Pauly (2011). 0= Lowest match, 10=Highest match.

Table 1. CLIMATCH (Australian Bureau of Rural Sciences 2010) climate match scores

CLIMATCH Score	0	1	2	3	4	5	6	7	8	9	10
Count	1958	0	0	0	0	0	0	0	0	0	0
Climate 6 Proportion =	0										
CLIMATCH Score	0	1	2	3	4	5	6	7	8	9	10
Count	1958	0	0	0	0	0	0	0	0	0	0
Climate 6 Proportion = 0.0 (Low)											

7 Certainty of Assessment

Peer-reviewed literature on the biology, ecology, and distribution associated with *Cirrhinus rubriostri* as well as information on its potential invasiveness is extremely limited. More information and research on this species will be needed to strengthen the certainty of this assessment. The risk level is therefore uncertain, and the certainty of this risk is low.

8 Risk Assessment

Summary of Risk to the Continental United States

C. rubirostris is a species native to one river basin in South Asia. There have been no reported introductions of this species outside its native range. This species is not common in either the aquarium or aquaculture industries. The low climate match, low history of invasiveness, combined with the small amount of information about the species create an uncertain overall risk.

Assessment Elements

- **History of Invasiveness (Sec. 3):** Low
- **Climate Match (Sec. 6):** Low
- **Certainty of Assessment (Sec. 7):** Low
- **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.

Australian Bureau of Rural Sciences. CLIMATCH. 2011. Available:
<http://adl.brs.gov.au:8080/Climatch> (Accessed August 2011).

Froese, R. and D. Pauly (Eds.). 2011. *Cirrhinus rubirostris*. FishBase. Available:
<http://www.fishbase.org/summary/Cirrhinus-rubirostris.html> (Accessed August 2011).

GBIF. 2011. *Cirrhinus rubirostris*. Global Biodiversity Information Facility. Available:
<http://data.gbif.org/species/13541254/> (Accessed August 2011).

Google Inc. 2011. Google Earth (Version 6.0.3.2197) [Software]. Available:
<http://www.google.com/intl/en/earth/index.html> (Accessed August 2011).

ITIS. 2011. *Cirrhinus rubirostris*. Integrated Taxonomic Information System. Available:
<http://www.itis.gov/servlet/SingleRpt/SingleRpt> (Accessed August 2011).

Wikimedia.org. 2011. Map of the Tenasserim Basin of Myanmar (Burma), Wikimedia.org. Available:
<http://upload.wikimedia.org/wikipedia/commons/b/b9/Greattenasserimrivermap.png>
(Accessed August 2011).

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.

Roberts, T.R. 1997. Systematic revision of the tropical Asian labeon cyprinid fish genus *Cirrhinus*, with descriptions of new species and biological observations on *C. lobatus*. Nat. Hist. Bull. Siam Soc. 45:171-203.