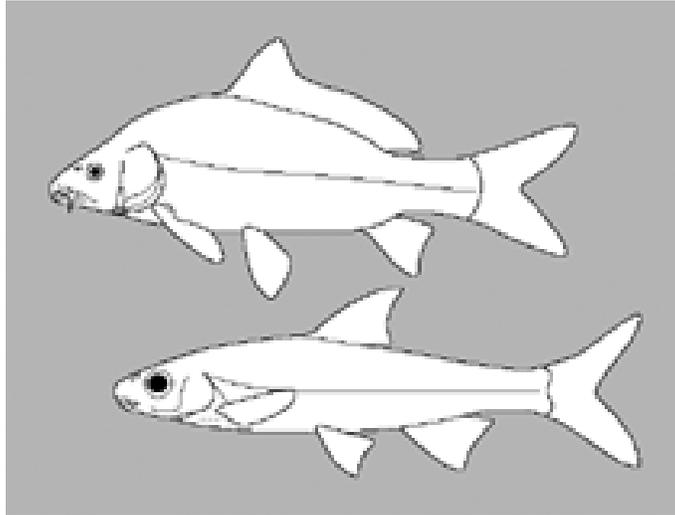


Cyprinus centralus

Ecological Risk Screening Summary

Web Version – 10/01/2012



No image available for this species; drawing shows typical fish in this Family (Froese and Pauly 2011).

1 Native Range, and Status in the United States

Native Range

From Tuyet et al. (2004):

“Vietnam – Phongnha - Kembang karst area.”

“Of the fish species there are some endemic ones in the Phongnha Kembang karst area such as: *Cyprinus centralus*, ...”

Status in the United States

No occurrences documented within the United States.

Means of Introductions to the United States

No introductions documented outside of native range.

2 Biology and Ecology

Taxonomic Hierarchy and Taxonomic Standing

From ITIS (2011):

“Kingdom Animalia
Phylum Chordata
Subphylum Vertebrata
Superclass Osteichthyes
Class Actinoptergii
Subclass Neopterygii
Infraclass Teleostei
Superorder Ostariophysi
Order Cypriniformes
Superfamily Cyprinoidea
Family Cyprinidae
Genus *Cyprinus*
Species *Cyprinus centralus*”

Taxonomic Standing: Valid

Environment

From Froese and Pauly (2011): “Benthopelagic; freshwater”

Climate/Range

Tropical (Froese and Pauly 2011)

Distribution

From Froese and Pauly (2011): “Asia: Vietnam”

Human uses

None reported.

Diseases

None reported.

Threat to humans

From Froese and Pauly (2011): “Harmless”

3 Impacts of Introductions

No introductions have been documented for this species.

4 Global Distribution



Figure 1 (above). Known endemic occurrence of *Cyprinus centralus* in Vietnam according to Tuyet et al. (2004). Map from Google Earth (2011).

5 Distribution within the United States

No known distribution within the United States

6 CLIMATCH

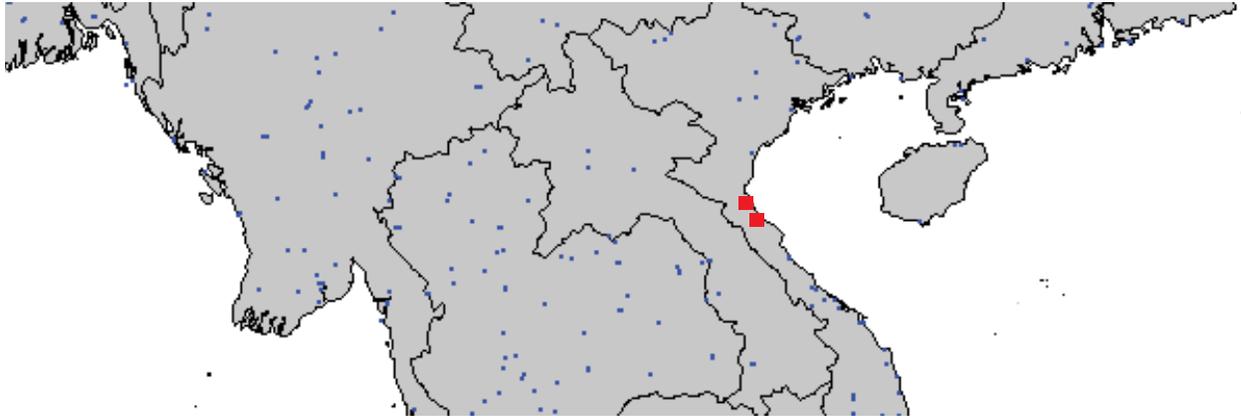


Figure 2 (above). CLIMATCH (Australian Bureau of Rural Sciences 2011) source map showing weather stations selected as source locations (red) and non-source locations (blue) for *C. centralus* climate matching. Source locations from Tuyet et al. (2004).

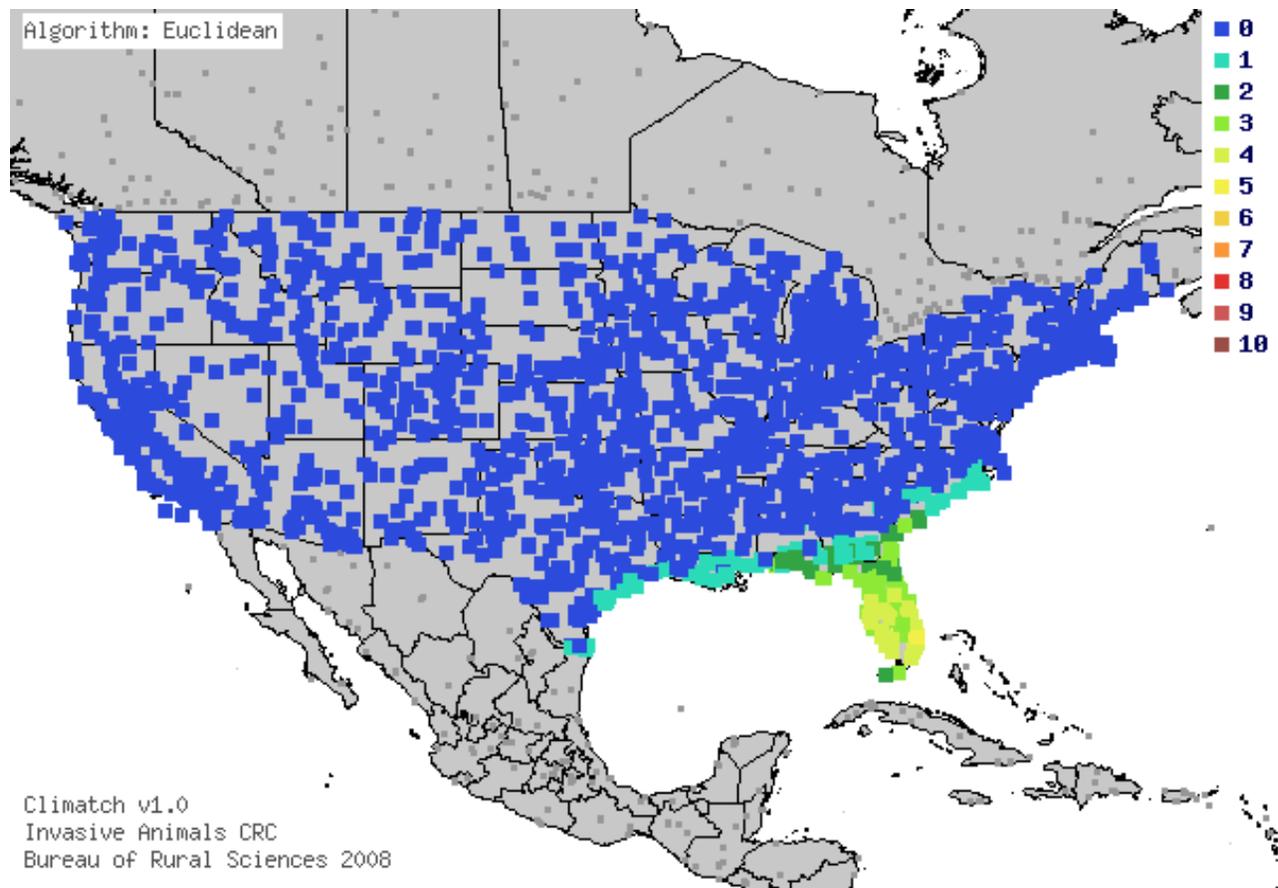


Figure 3 (above). Map of CLIMATCH (Australian Bureau of Rural Sciences 2011) climate matches for *C. centralus* in the continental United States based on source locations reported by Tuyet et al. (2004). 0= Lowest match, 10=Highest match.

Table 1 (below). CLIMATCH (Australian Bureau of Rural Sciences 2011) climate match scores

CLIMATCH Score	0	1	2	3	4	5	6	7	8	9	10
Count	1782	68	37	42	40	5	0	0	0	0	0
Climate 6 Proportion =			0								

7 Certainty of Assessment

Peer-reviewed literature on the biology, ecology, and distribution associated with *Cyprinus centralus* as well as information on its potential invasiveness is 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

The overall risk assessment category for *Cyprinus centralus* is uncertain. There is little information available for this species. Because of this, certainty of assessment is low. Climatch data is indicated a low match based on locality estimation from Tuyet et al. (2004).

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. 2011. CLIMATCH. Available:
<http://adl.brs.gov.au:8080/Climatch> (Accessed January 2011).

Froese, R. and D. Pauly (Eds). 2011. *Cyprinus centralus*. FishBase. Available:
<http://www.fishbase.org/Summary/speciesSummary.php?ID=61688&genusname=Cyprinus&speciesname=centralus&AT=cyprinus+centralus&lang=English> (Accessed September 2011).

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

ITIS. 2011. *Cyprinus centralus*. Integrated Taxonomic Information System. Available:
http://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=688949 (Accessed September 2011).

Tuyet, D., T.V. Tran, and P.K. Tuy. 2004. Characteristics of Humid Tropical Karst Of Vietnam. Proceedings of the International Transdisciplinary Conference on Development and Conservation of Karst Regions, Hanoi, Vietnam. Available:
<http://homepages.ulb.ac.be/~batelaan/publications/trans-karst2004proceedings.pdf#page=250> (Accessed September 2011).