

***Cyprinus hyperdorsalis* (a carp, no common name)**

Ecological Risk Screening Summary

U.S. Fish & Wildlife Service, October 2012

Revised, December 2018

Web Version, 8/6/2019



Photo: C. Vidthayanon. Licensed under Creative Commons BY-NC 3.0 Unported. Available: <https://www.fishbase.de/photos/PicturesSummary.php?ID=61213&what=species>. (November 30, 2018).

1 Native Range and Status in the United States

Native Range

From Nguyen et al. (2011):

“Known from the Black River (Sông Đà) drainage in northern Viet Nam (Son La and Hoa Binh Provinces) only (Nguyen and Ngo 2001).”

Status in the United States

No records of *Cyprinus hyperdorsalis* in the wild or in trade in the United States were found.

Means of Introductions in the United States

No records of *Cyprinus hyperdorsalis* in the wild in the United States were found.

Remarks

From Nguyen et al. (2011):

“The known habitat is heavily impacted by dam construction; following construction of the Hoa Binh hydropower dam, this species has not been recorded.”

A previous version of this ERSS was published in 2012.

2 Biology and Ecology

Taxonomic Hierarchy and Taxonomic Standing

From Fricke et al. (2018):

“**Current status:** Uncertain as *Cyprinus hyperdorsalis* Nguyen 1991.”

From ITIS (2018):

“Kingdom Animalia
Subkingdom Bilateria
Infrakingdom Deuterostomia
Phylum Chordata
Subphylum Vertebrata
Infraphylum Gnathostomata
Superclass Actinopterygii
Class Teleostei
Superorder Ostariophysi
Order Cypriniformes
Superfamily Cyprinoidea
Family Cyprinidae
Genus *Cyprinus*
Species *Cyprinus hyperdorsalis*”

Size, Weight, and Age Range

No information on the size, weight, or age range of *Cyprinus hyperdorsalis* was found.

Environment

From Froese and Pauly (2018):

“Freshwater; benthopelagic.”

Climate/Range

From Froese and Pauly (2018):

“Tropical”

Distribution Outside the United States

Native

From Nguyen et al. (2011):

“Known from the Black River (Sông Đà) drainage in northern Viet Nam (Son La and Hoa Binh Provinces) only (Nguyen and Ngo 2001).”

Introduced

No records of *Cyprinus hyperdorsalis* introductions were found.

Means of Introduction Outside the United States

No records of *Cyprinus hyperdorsalis* introductions were found.

Short Description

A short description of *Cyprinus hyperdorsalis* was not found.

Biology

From Nguyen et al. (2011):

“It is a freshwater fish, found in flowing rivers.”

Human Uses

From Nguyen et al. (2011):

“Used as a food fish.”

Diseases

Information on diseases of *Cyprinus hyperdorsalis* was not found. **No records of OIE-reportable diseases were found for *C. hyperdorsalis*.**

Threat to Humans

From Froese and Pauly (2018):

“Harmless.”

3 Impacts of Introductions

No records of *Cyprinus hyperdorsalis* introductions were found; therefore, there is no information on impacts of introduction.

4 Global Distribution

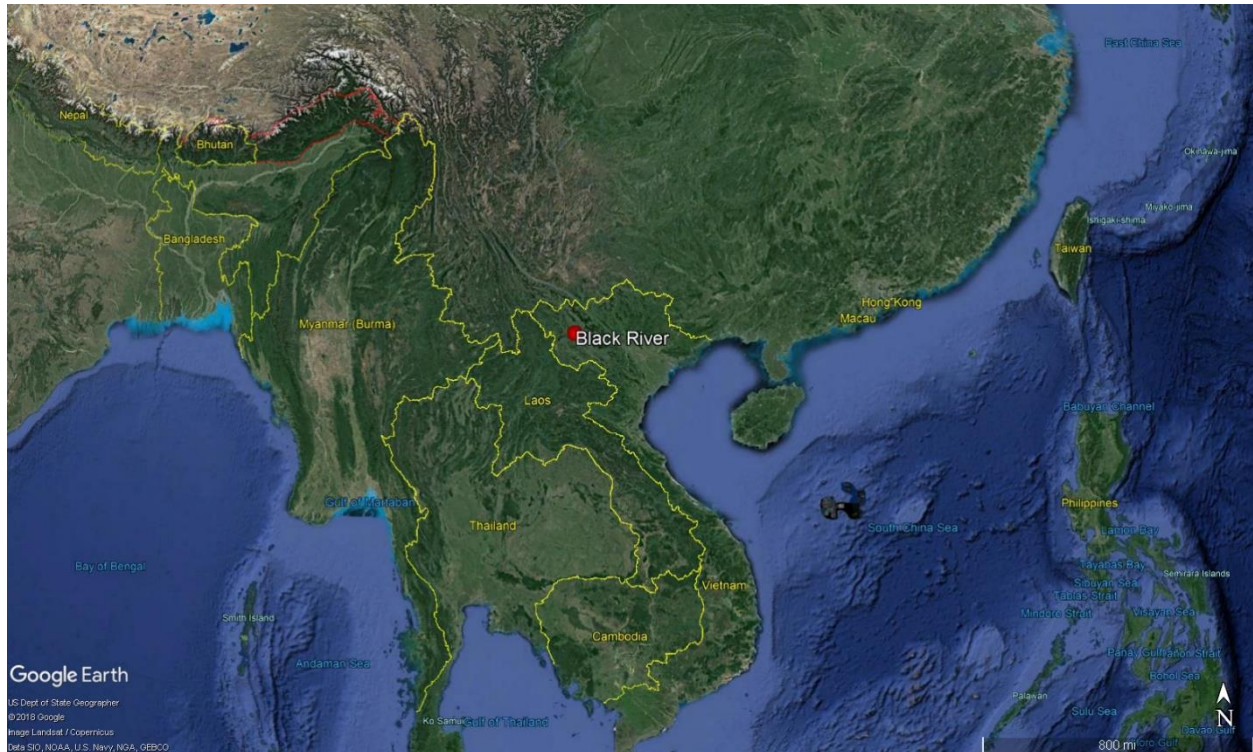


Figure 1. Location of the Black River in Vietnam. According to Nguyen et al. (2011), *Cyprinus hyperdorsalis* is known only from the Black River drainage in Vietnam.

5 Distribution Within the United States

No records of *Cyprinus hyperdorsalis* in the wild in the United States were found.

6 Climate Matching

Summary of Climate Matching Analysis

The climate match for *Cyprinus hyperdorsalis* was mostly low across the contiguous United States. There was an area of medium match in southwest Florida. There were no areas of high match. The Climate 6 score (Sanders et al. 2018; 16 climate variables; Euclidean distance) for contiguous United States was 0.000, low (scores between 0.000 and 0.005, inclusive, are classified as low). All States had low individual Climate 6 scores.

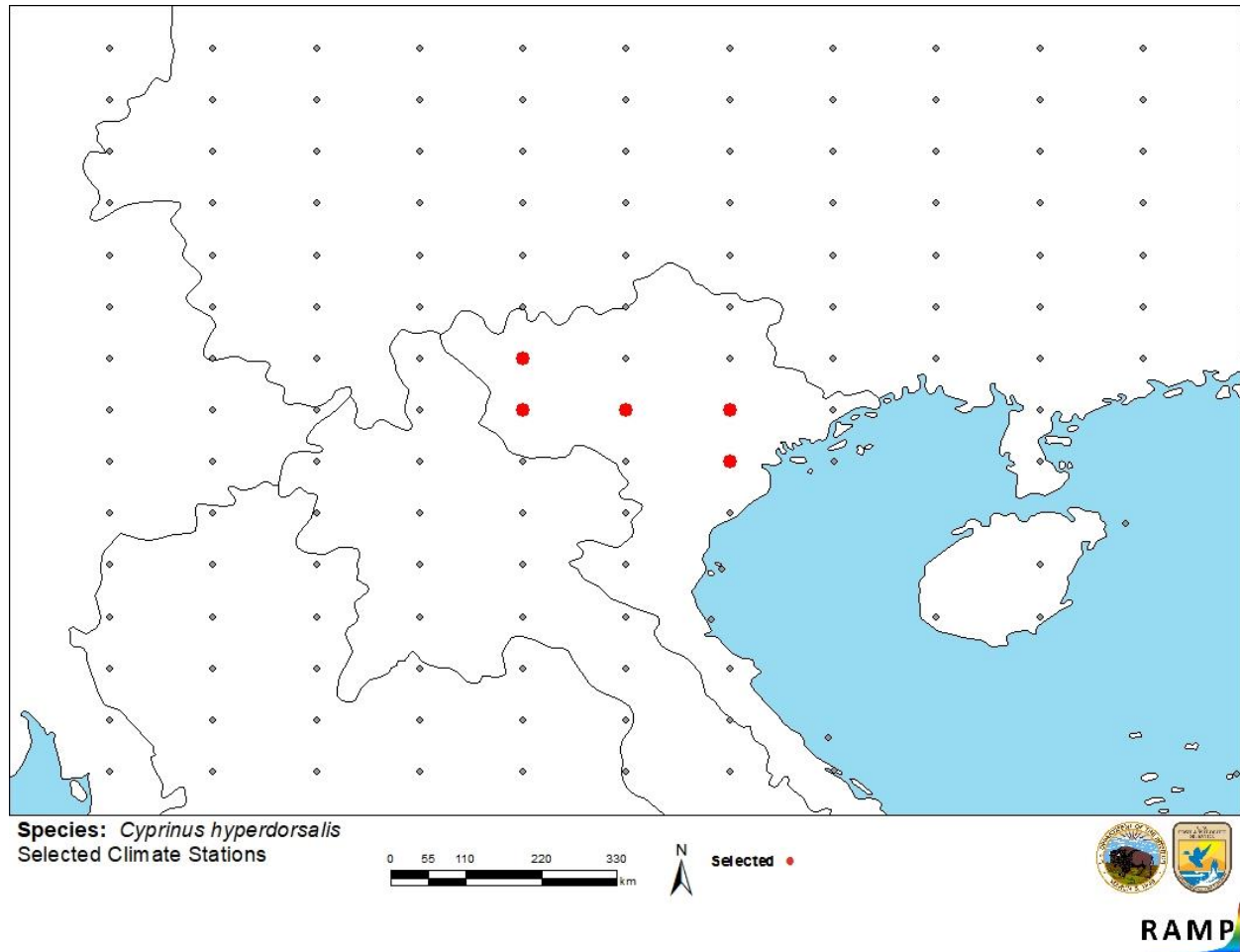


Figure 2. RAMP (Sanders et al. 2018) source map showing weather stations in southeast Asia selected as source locations (red; Vietnam) and non-source locations (gray) for *Cyprinus hyperdorsalis* climate matching. Source locations were chosen to represent the Black River drainage, where the species is found (Nguyen et al. 2011).

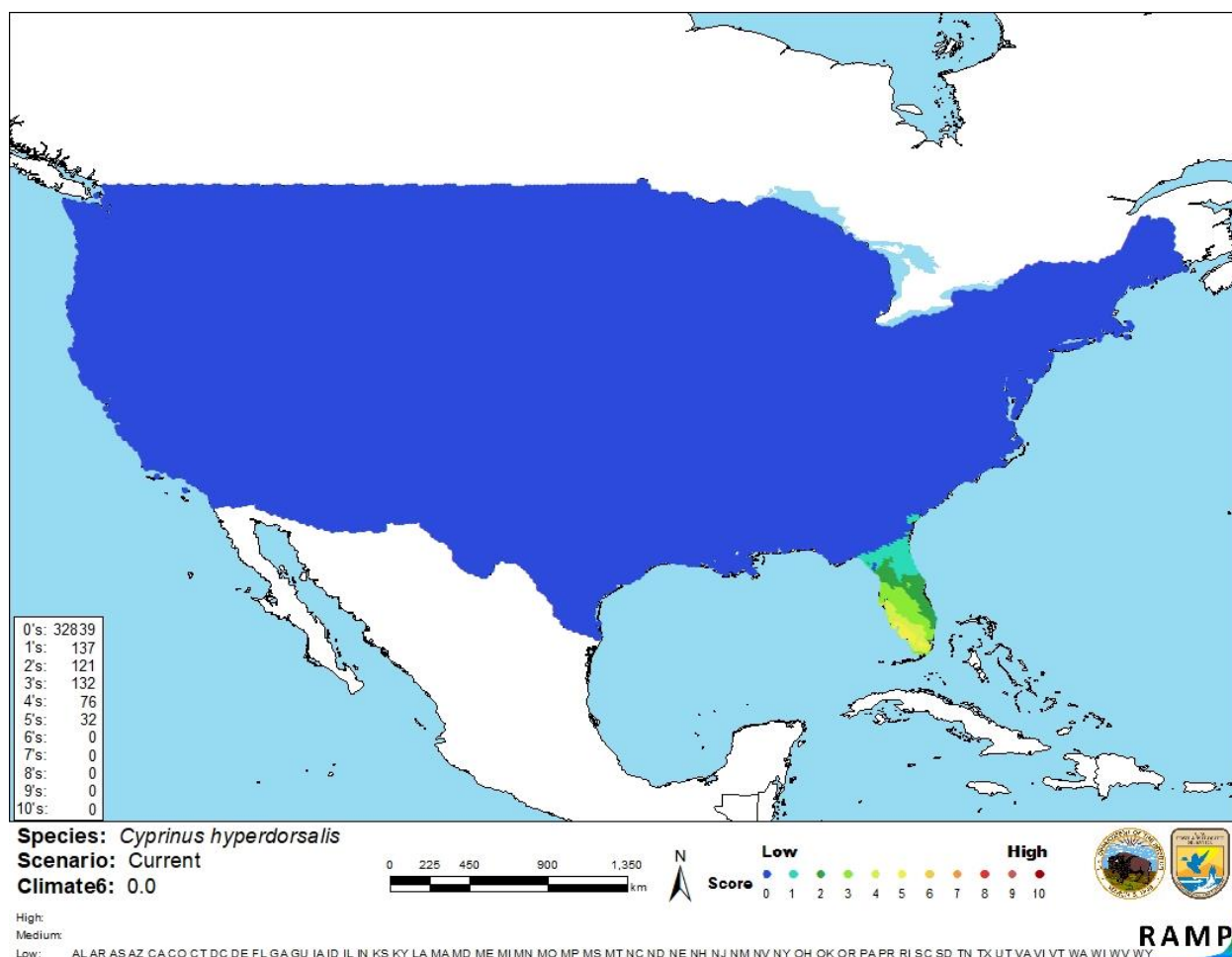


Figure 3. Map of RAMP (Sanders et al. 2018) climate matches for *Cyprinus hyperdorsalis* in the contiguous United States based on source locations reported by Nguyen et al. (2011). Counts of climate match scores are tabulated on the left. 0 = Lowest match, 10 = Highest match.

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
$0.000 \leq X \leq 0.005$	Low
$0.005 < X < 0.103$	Medium
≥ 0.103	High

7 Certainty of Assessment

The certainty of assessment for *Cyprinus hyperdorsalis* is low. Peer-reviewed literature on the biology, ecology, and distribution associated with *C. hyperdorsalis* as well as information on its potential invasiveness is limited. The climate match is based on a text description of the range and not georeferenced observations.

8 Risk Assessment

Summary of Risk to the Contiguous United States

Cyprinus hyperdorsalis is a species of carp native to the Black River basin in northern Vietnam. It is reported as being consumed by the local population but also that the species has not been seen since the construction of dams on the river. The history of invasiveness is uncertain. No records of introduction were found and this species is not found in trade. The contiguous United States had a low climate match except for southwest Florida which had a medium 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. *Cyprinus hyperdorsalis* Nguyen, 1991. FishBase. Available: <https://www.fishbase.de/summary/Cyprinus-hyperdorsalis.html>. (November 2018).
- ITIS (Integrated Taxonomic Information System). 2018. *Cyprinus hyperdorsalis* Nguyen, 1991. Integrated Taxonomic Information System, Reston, Virginia. Available: https://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=688956#null. (November 2018).
- Nguyen, T. H. T., N. S. Van, and D. V. Thinh. 2011. *Cyprinus hyperdorsalis*. The IUCN Red List of Threatened Species 2011: e.T166872A6289730. Available: <https://www.iucnredlist.org/species/166872/6289730>. (November 2018).
- OIE (World Organisation for Animal Health). 2019. OIE-listed diseases, infections and infestations in force in 2019. Available: <http://www.oie.int/animal-health-in-the-world/oie-listed-diseases-2019/>. (August 2019).

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.

Nguyen, V. H., and S. V. Ngo. 2001. Freshwater fish of Viet Nam. Agriculture Publisher, Ha Noi, Vietnam.