

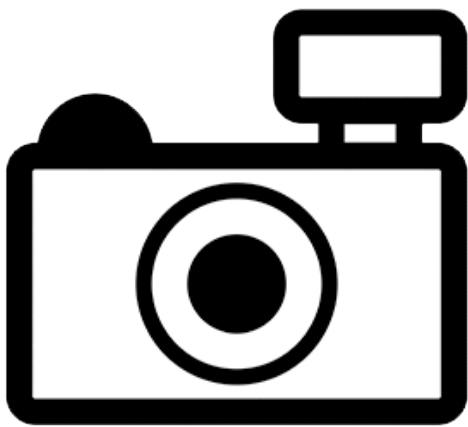
***Barbodes montanoi* (a fish, no common name)**

Ecological Risk Screening Summary

U.S. Fish & Wildlife Service, February 2013

Revised, November 2018

Web Version, 1/31/2019



No Photo Available

1 Native Range and Status in the United States

Native Range

From Froese and Pauly (2018a):

“Asia: Simulao River (center of Mindanao), Philippines.”

Status in the United States

No records of *Barbodes montanoi* in the wild or in trade in the United States were found.

Means of Introductions in the United States

No records of *Barbodes montanoi* in the wild in the United States were found.

Remarks

Literature review was conducted using both *Barbodes montanoi* and the synonym *Puntius montanoi*.

2 Biology and Ecology

Taxonomic Hierarchy and Taxonomic Standing

According to Fricke et al. (2018), *Barbodes montanoi* (Sauvage, 1881) is the current valid name of this species. *Barbodes montanoi* was originally described as *Puntius montanoi* (Sauvage, 1881).

From Froese and Pauly (2018b):

“Biota > Animalia (Kingdom) > Chordata (Phylum) > Vertebrata (Subphylum) > Gnathostomata (Superclass) > [...] Actinopterygii (Class) > Cypriniformes (Order) > Cyprinidae (Family) > Barbinae (Subfamily) > *Barbodes* (Genus) > *Barbodes montanoi* (Species)”

Size, Weight, and Age Range

From Froese and Pauly (2018a):

“Max length: 9.0 cm TL male/unsexed; [Herre 1924]”

Environment

From Froese and Pauly (2018a):

“Freshwater; benthopelagic.”

Climate/Range

From Froese and Pauly (2018a):

“Tropical”

Distribution Outside the United States

Native

From Froese and Pauly (2018a):

“Asia: Simulao River (center of Mindanao), Philippines.”

Introduced

No records of introductions of *Barbodes montanoi* were found.

Means of Introduction Outside the United States

No records of introductions of *Barbodes montanoi* were found.

Short Description

From Froese and Pauly (2018a):

“Dorsal spines (total): 4; Dorsal soft rays (total): 11; Anal spines: 3; Anal soft rays: 7. Back brown. Obtuse snout without pores. 8-9 scales from nape to dorsal; 2 scale rows between ventral origin and lateral line.”

Biology

No information on the biology of *Barbodes montanoi* was found.

Human Uses

No information on the human uses of *Barbodes montanoi* was found.

Diseases

No information on diseases of *Barbodes montanoi* was found. **No records of OIE-reportable diseases were found for *B. montanoi*.**

Threat to Humans

From Froese and Pauly (2018a):

“Harmless”

3 Impacts of Introductions

No records of introductions of *Barbodes montanoi* were found.

4 Global Distribution

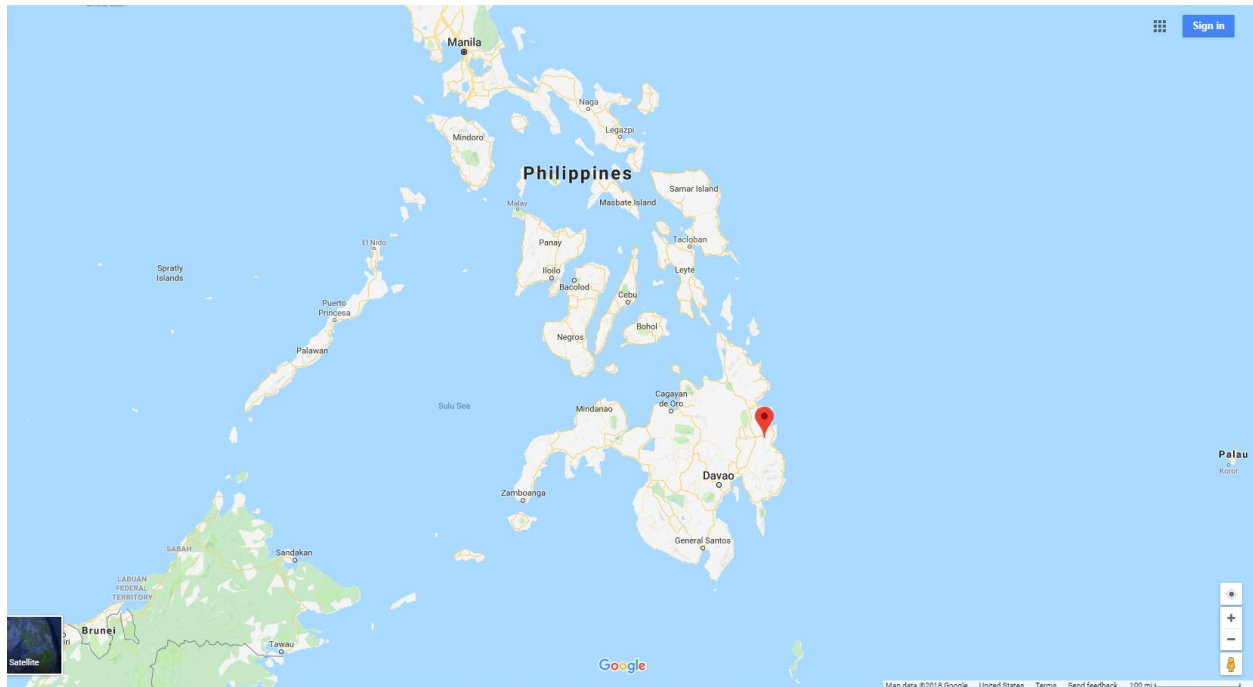


Figure 1. Known global distribution of *Barbodes montanoi*. Location is in Philippines. Map from Google (2018). *B. montanoi* range description given by Froese and Pauly (2018).

5 Distribution Within the United States

No records of *Barbodes montanoi* in the wild in the United States were found.

6 Climate Matching

Summary of Climate Matching Analysis

The climate match for *Barbodes montanoi* was low for the majority of the contiguous United States with small patches of medium match in the southern Florida and southern Louisiana. The Climate 6 score (Sanders et al. 2014; 16 climate variables; Euclidean distance) for the contiguous United States was 0.000, low, with all States having low individual climate scores.

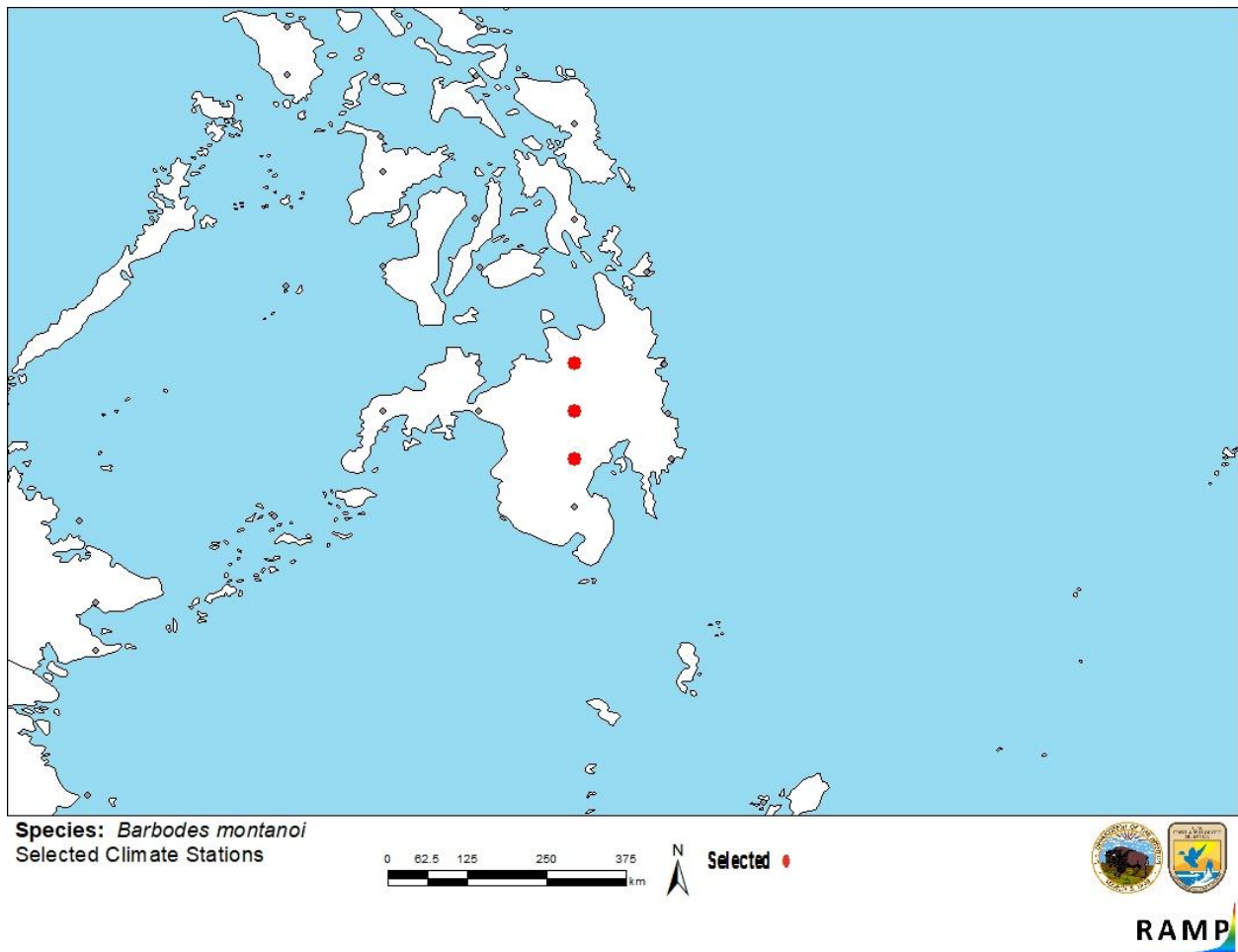


Figure 2. RAMP (Sanders et al. 2018) source map showing weather stations in Asia selected as source locations (red; Philippines) and non-source locations (gray) for *Barbodes montanoi* climate matching. Source point locations were determined based off location descriptions from Froese and Pauly (2018).

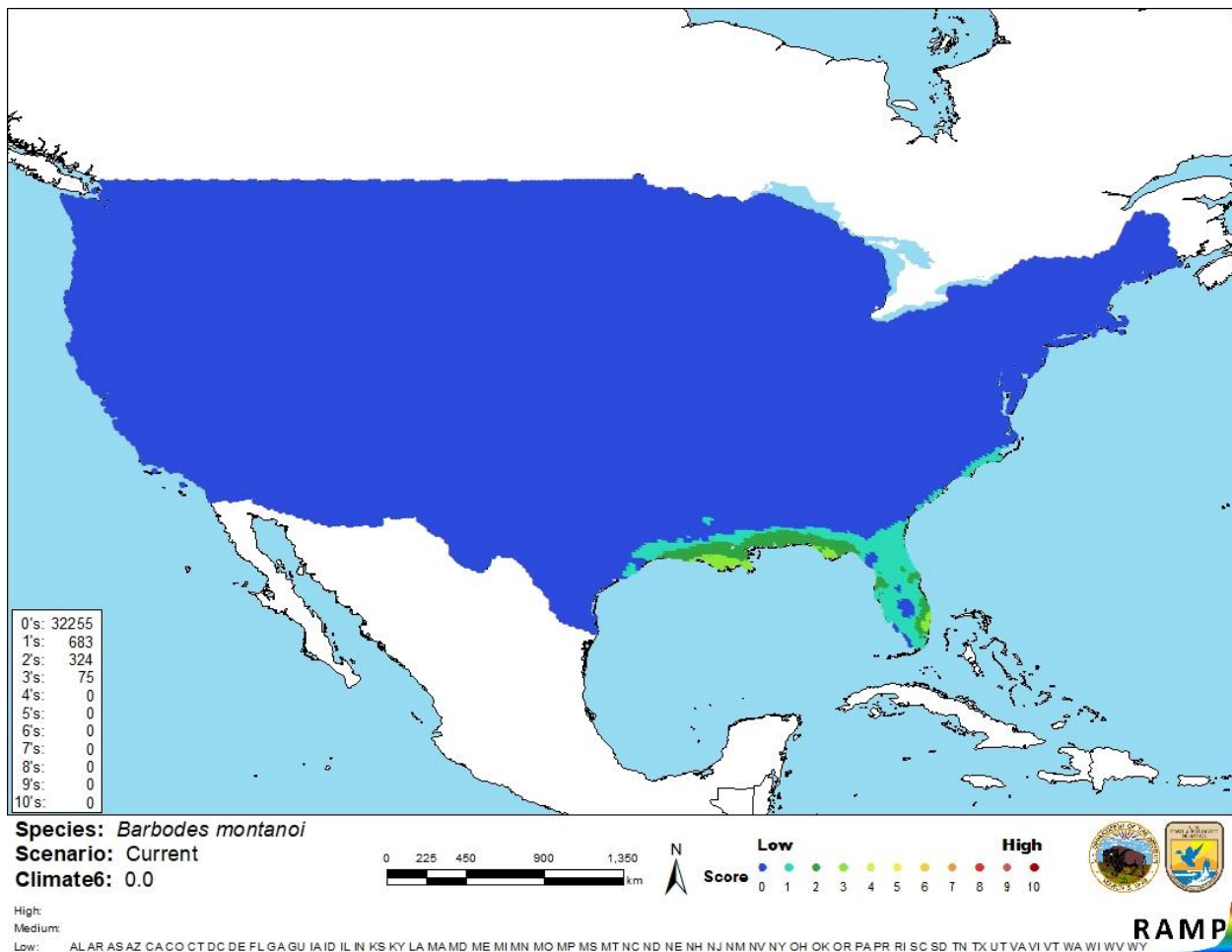


Figure 3. Map of RAMP (Sanders et al. 2018) climate matches for *Barbodes montanoi* in the contiguous United States based on source locations were determined based off location descriptions from Froese and Pauly (2018). 0 = Lowest match, 10 = Highest match.

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

7 Certainty of Assessment

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

8 Risk Assessment

Summary of Risk to the Contiguous United States

Barbodes montanoi is a freshwater fish native to the Philippines. 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 all States having a low individual climate score. 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. 2018a. *Barbodes montanoi* (Sauvage, 1881). FishBase. Available: <http://www.fishbase.org/summary/Barbodes-montanoi.html>. (November 2018).

Froese, R., and D. Pauly, editors. 2018b. *Barbodes montanoi*. In World Register of Marine Species. Available: <http://www.marinespecies.org/aphia.php?p=taxdetails&id=1020013>. (November 2018).

Google. 2018. Google Maps. Google, Inc.

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.

Herre, A. W. C. T. 1924. Distribution of the true freshwater fishes in the Philippines. I. The Philippine Cyprinidae. *The Philippine Journal of Science* 24(3):249–307.

Sauvage, H. E. 1881. Description de quelques poissons de la collection du Muséum d'histoire naturelle. *Bulletin de la Société philomathique de Paris (7th Série)* 5:101–104.