

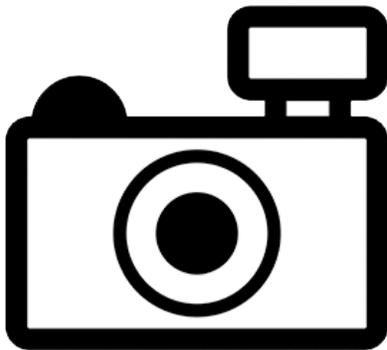
***Labeo pellegrini* (a carp, no common name)**

Ecological Risk Screening Summary

U.S. Fish and Wildlife Service, May 2012

Revised, May 2018

Web Version, 6/29/2018



No Photo Available

1 Native Range and Status in the United States

Native Range

From Froese and Pauly (2018):

“Africa: Juba River in Ethiopia.”

From Eschmeyer et al. (2018):

“[...] Lugh Ferrandi region, Ganale River, Juba River system, Somalia [...]”

Status in the United States

This species has not been reported as introduced or established in the United States. There is no indication that this species is in trade in the United States.

Means of Introduction into the United States

This species has not been reported as introduced or established in the United States.

Remarks

From Eschmeyer et al. (2018):

“Questionably a synonym of *Labeo mesops* Günther 1868 -- (Reid 1985:77 [...]).”

2 Biology and Ecology

Taxonomic Hierarchy and Taxonomic Standing

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 *Labeo*
Species *Labeo pellegrini* Zolezzi, 1939”

“Current Standing: valid”

Size, Weight, and Age Range

No information available.

Environment

From Froese and Pauly (2018):

“Freshwater; benthopelagic.”

Climate/Range

From Froese and Pauly (2018):

“Tropical”

Distribution Outside the United States

Native

From Froese and Pauly (2018):

“Africa: Juba River in Ethiopia.”

From Eschmeyer et al. (2018):

“[...] Lugh Ferrandi region, Ganale River, Juba River system, Somalia [...]”

Introduced

No introductions of this species have been reported.

Means of Introduction Outside the United States

No introductions of this species have been reported.

Short Description

No information available.

Biology

No information available.

Human Uses

No information available.

Diseases

No information available. No OIE-reportable diseases have been documented for this species.

Threat to Humans

From Froese and Pauly (2018):

“Harmless”

3 Impacts of Introductions

No information available. No introductions of this species have been reported.

4 Global Distribution

No georeferenced occurrences are available for *L. pellegrini* (GBIF Secretariat 2017).



Figure 1. Map of the Juba (Jubba) River system in Ethiopia, Somalia, and Kenya. *L. pellegrini* is reported from this river system. Image: Kmusser, elevation data from SRTM, drainage basin from USGS, all other features from Vector Map. Licensed under Creative Commons BY-SA 3.0. Available: <https://commons.wikimedia.org/w/index.php?curid=10519328>. (May 2018).

5 Distribution within the United States

This species has not been reported in the United States.

6 Climate Matching

Summary of Climate Matching Analysis

The climate match (Sanders et al. 2014; 16 climate variables; Euclidean Distance) was low throughout the contiguous United States, reflected with a Climate 6 score of 0. Scores of 0.005 and below are classified as low match. The highest climate match score was 3 out of 10, occurring in southern Arizona.

No georeferenced occurrences were available for *L. pellegrini*, so the source location for the climate match was estimated from a verbal description of a single collection location (GBIF Secretariat 2017). The accuracy of the climate matching analysis is limited by the unavailability of georeferenced occurrences, and may underestimate the climate match.

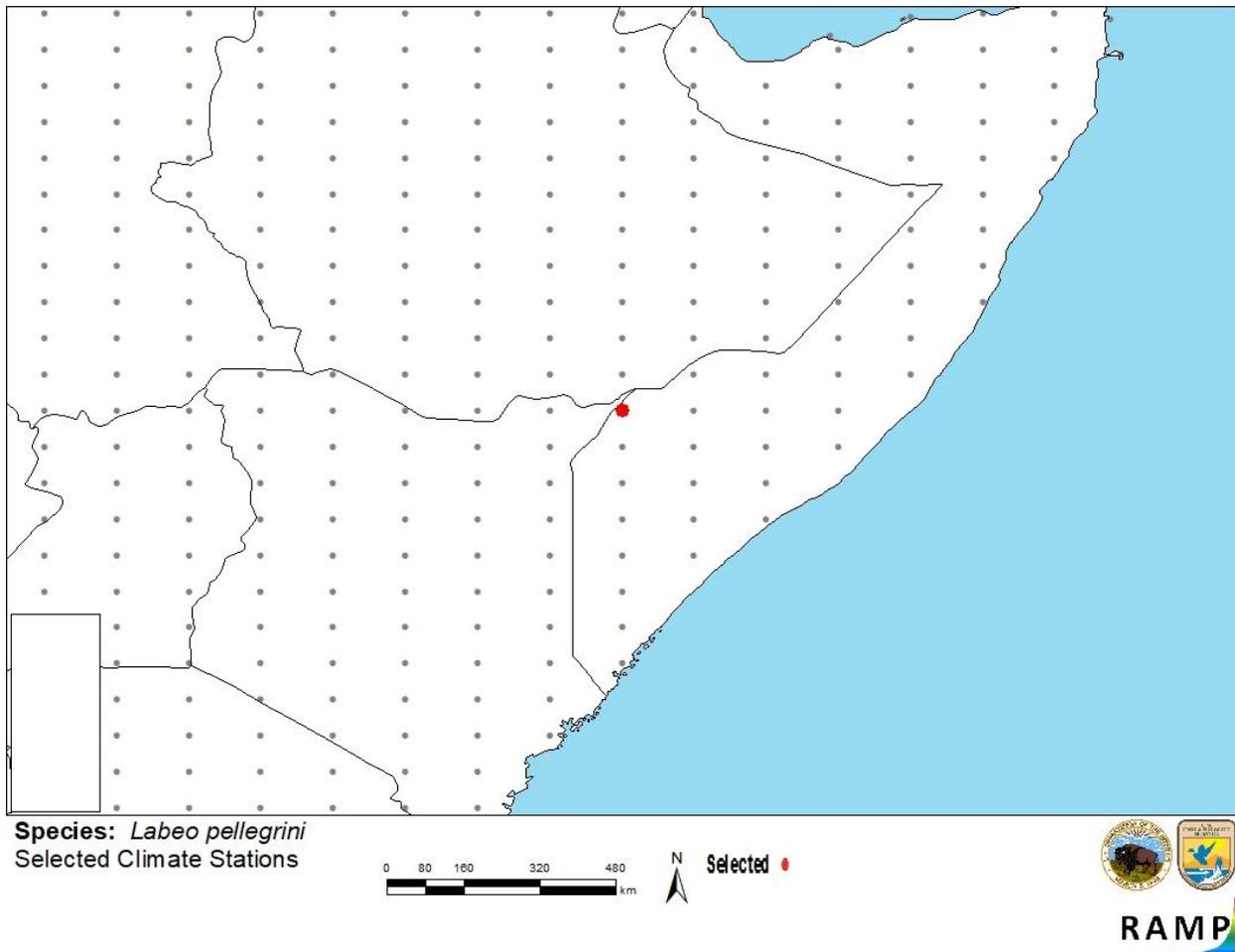


Figure 2. RAMP (Sanders et al. 2014) source map showing weather stations selected as source location (red; Somalia) and non-source locations (gray) for *L. pellegrini* climate matching. Source location estimated from verbal description in GBIF Secretariat (2017).

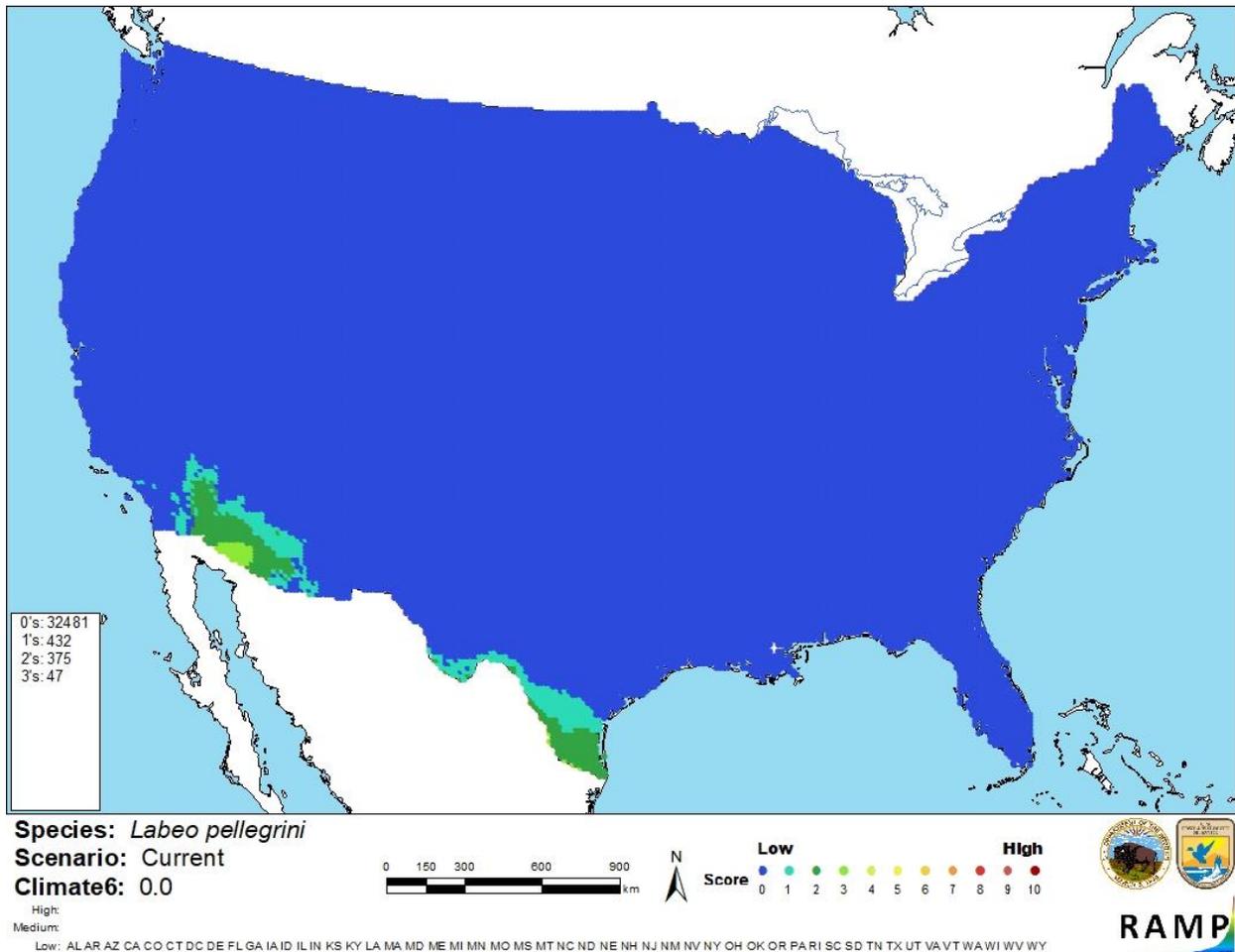


Figure 3. Map of RAMP (Sanders et al. 2014) climate matches for *L. pellegrini* in the contiguous United States based on source locations estimated from verbal description in GBIF Secretariat (2017). 0=Lowest match, 10=Highest match. Counts of climate match scores are tabulated on the left.

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

Extremely limited information is available on the biology, ecology, and distribution of *Labeo pellegrini*. No georeferenced occurrences were available for selected source locations for the climate matching analysis. No introductions of this species have been reported, so any impacts of introductions are unknown. For these reasons, certainty of this assessment is low.

8 Risk Assessment

Summary of Risk to the Contiguous United States

Labeo pellegrini is a carp native to the Juba River system of Ethiopia and Somalia. It is not a well-studied species. There have been no reports of introduction or establishment in the United States or elsewhere. Certainty of assessment is low. Climate match to the contiguous United States was low. The climate match is likely to be an underestimate because only one source location was used; this location was estimated from a verbal description because no georeferenced occurrences were available. Without a history of introduction, the risk posed by *L. pellegrini* to the contiguous United States is uncertain.

Assessment Elements

- **History of Invasiveness: Uncertain**
- **Climate Match: Low**
- **Certainty of Assessment: 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.

Eschmeyer, W. N., R. Fricke, and R. van der Laan, editors. 2018. Catalog of fishes: genera, species, references. Available: <http://researcharchive.calacademy.org/research/ichthyology/catalog/fishcatmain.asp>. (May 2018).

Froese, R., and D. Pauly, editors. 2018. *Labeo pellegrini* Zolezzi, 1939. FishBase. Available: <https://www.fishbase.de/summary/Labeo-pellegrini.html>. (May 2018).

GBIF Secretariat. 2017. GBIF backbone taxonomy: *Labeo pellegrini* Zolezzi, 1939. Global Biodiversity Information Facility, Copenhagen. Available: <https://www.gbif.org/species/5206028>. (May 2018).

ITIS (Integrated Taxonomic Information System). 2018. *Labeo pellegrini* Zolezzi, 1939. Integrated Taxonomic Information System, Reston, Virginia. Available: https://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=689324#null. (May 2018).

Sanders, S., C. Castiglione, and M. Hoff. 2014. Risk Assessment Mapping Program: RAMP. 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.

Reid, G. M. 1985. A revision of African species of *Labeo* (Pisces: Cyprinidae) and a re-definition of the genus. J. Cramer, Braunschweig. Theses Zoologicae 6:1-322, plates 1-5.