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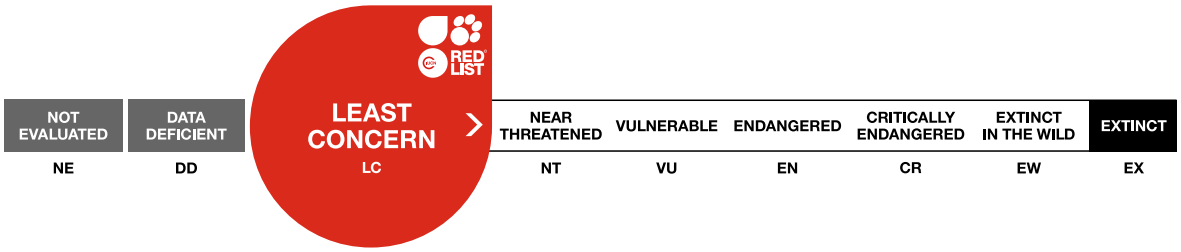
Scope(s): Global
Language: English

# *Schizothorax intermedius,* Aral Basin Snowtrout

**Assessment by: Karimov, B. & Mamilov, N.**

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# Taxonomy

| Kingdom | Phylum | Class | Order | Family |
|---|---|---|---|---|
| Animalia | Chordata | Actinopterygii | Cypriniformes | Cyprinidae |

**Scientific Name:** *Schizothorax intermedius* McClelland & Griffith, 1842

**Synonym(s):**

- *Schizopyge curvifrons* Heckel, 1838
- *Schizothorax curvifrons* McClelland, 1842

**Common Name(s):**

- English: Aral Basin Snowtrout
- Kazakh: Kadimgi karabalyk
- Russian: Обыкновенная маринка

**Taxonomic Source(s):**

Fricke, R., Eschmeyer, W.N. and Van der Laan, R. (eds). 2019. Eschmeyer's Catalog of Fishes: genera, species, references. Updated 05 August 2019. Available at: http://researcharchive.calacademy.org/research/ichthyology/catalog/fishcatmain.asp.

# Assessment Information

**Red List Category & Criteria:** Least Concern ver 3.1

**Year Published:** 2020

**Date Assessed:** March 3, 2020

**Justification:**

This is a widespread species found in rivers from Afghanistan to Kazakhstan. Although there are a number of potential threats within its range, none are thought to be causing significant range wide declines. This species is therefore assessed as Least Concern.

# Geographic Range

**Range Description:**

This species inhabits many rivers from Afghanistan to Kazakhstan, including the Syr and Amu Darya drainages as well as in the Talas River endorheic basin. It is found in more than of 1,000 km of river and many more than 10 populations.

**Country Occurrence:**

**Native, Extant (resident):** Afghanistan; Kazakhstan; Kyrgyzstan; Tajikistan; Turkmenistan; Uzbekistan


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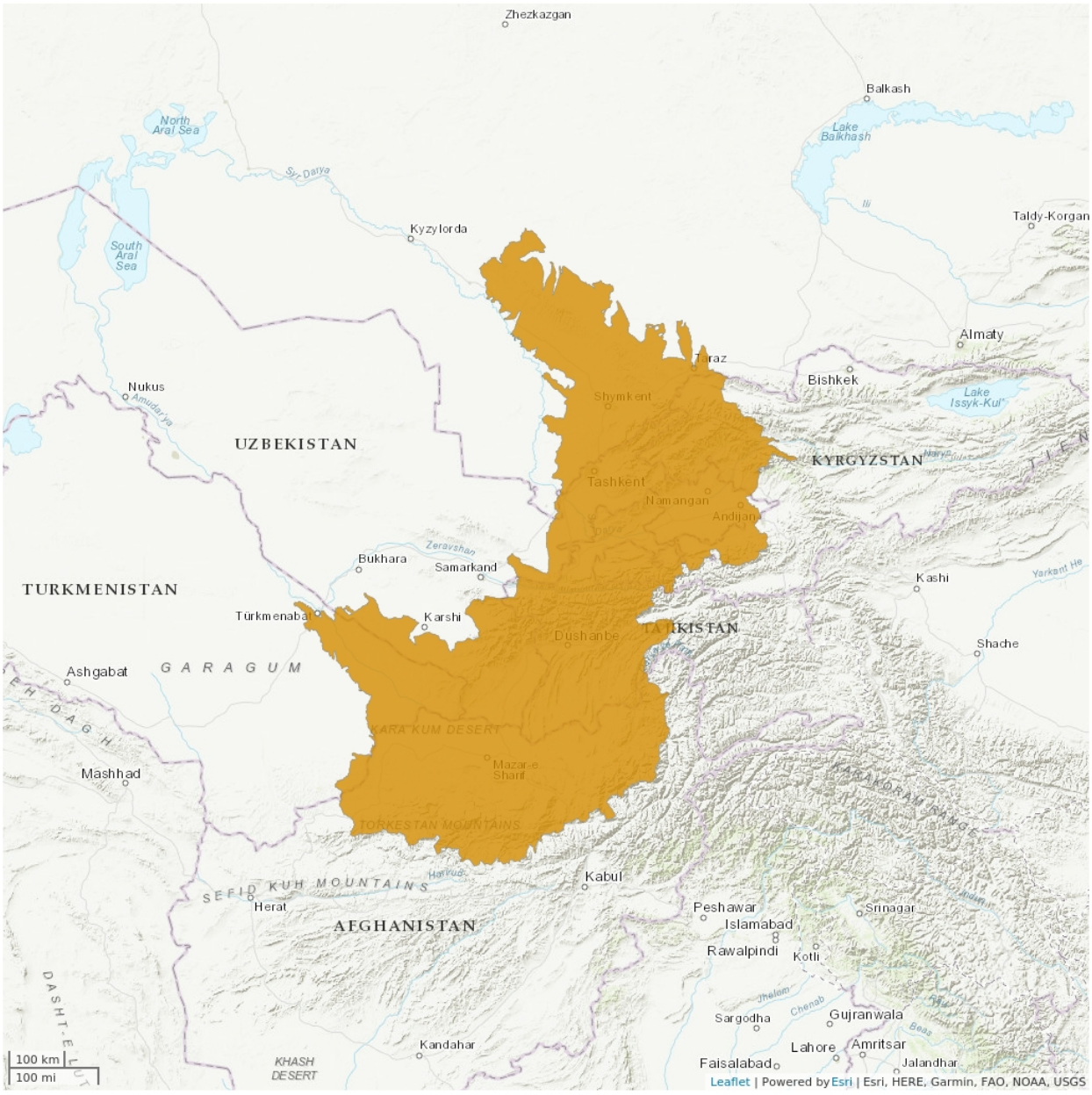
# Distribution Map




Legend

EXTANT (RESIDENT)

Compiled by:

IUCN (International Union for Conservation of Nature) 2020


The boundaries and names shown and the designations used on this map do not imply any official endorsement, acceptance or opinion by IUCN.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## Population

This is a widespread species with no evidence of any current significant declines, although local declines may be occurring due to overfishing (N. Mamilov pers. comm. 2020). Historically, it vanished from the lower and middle sections of the Syr Darya, but it is still common in headwater streams and rivers in this drainage. In the Amu Darya drainage, this species has vanished from the middle reaches and is not present in the lowermost section (Mamilov *et al*. 2015).

**Current Population Trend:** Stable

## Habitat and Ecology **(see Appendix for additional information)**

This species inhabits a wide range of rivers and also occasionally lakes, but it is usually found in flowing waters.

**Systems:** Freshwater (=Inland waters)

## Use and Trade

This snowtrout is an object of a local and recreational fishery.

## Threats **(see Appendix for additional information)**

There are a number of threats in the range of this species, including invasive species, dams, water pollution and overharvesting (Kamilov *et al.* 2013, Karimov *et al.* 2014, Karimov *et al.* 2017), but these do not seem to be causing any significant declines in this species.

## Conservation Actions **(see Appendix for additional information)**

There are no known conservation actions in place for this species. Research is needed into its population, distribution and ecology, alongside monitoring of population and habitat trends, invasive species control, and habitat protection and restoration where threats occur.

## Credits

**Assessor(s):** Karimov, B. & Mamilov, N.

**Reviewer(s):** Freyhof, J., Bogutskaya, N. & Yuldashov, M.A.


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## Bibliography

IUCN. 2020. The IUCN Red List of Threatened Species. Version 2020-3. Available at: www.iucnredlist.org. (Accessed: 10 December 2020).

Kamilov, B.G., Salikhov, T.V. and Kariimov, B.K. 2013. Invasive fish species introduction into water bodies of Uzbekistan. *Materials of republican scientific conference "Theoretical and applied problems of conservation of animals biodiversity in Uzbekistan". Tashkent, Uzbekistan*: 67-71.

Karimov, B.K., Matthies, M. and Kamilov, B.G. 2014. Unconventional water resources of agricultural origin and their re-utilization potential for development of desert land aquaculture in the Aral Sea basin. In: Bhaduri, Bogardi, Leentvaar, Marx (ed.), *The Global Water System in the Anthropocene: Challenges for Science and Governance*, pp. 183-201. Springer International Publishing Switzerland.

Karimov, B.K., Razzokov, R., Boirov, R. and Karimov, E. 2017. Evaluation of the impact of irrigation water diversions on fish populations on plain parts of rivers in the republic of Uzbekistan. Republican scientific-practical conference on theme "Ecological, problems of rational use of water and land resources in irrigated agriculture: 216-219. Tashkent, Uzbekistan.

Mamilov N., Kozhabaeva E., Amirbekova F., Ibragimova N., Vanina T., Mamilov A., Khabibullin F.Kh., Adilbaev Zh.A. 2015. Linking current state of fish populations and their diversity to changes inenvironmental conditions occurring in the middle flow of Syrdarya River (Central Asia). 27th International Congress for conservation biology 4th European Congress for Conservation Biology: 424. Montpellier, France 2-6 August 2015. .

## Citation

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## Disclaimer

To make use of this information, please check the Terms of Use.

## External Resources

For Supplementary Material, and for Images and External Links to Additional Information, please see the Red List website.

# Appendix

## Habitats

(http://www.iucnredlist.org/technical-documents/classification-schemes)

| Habitat | Season | Suitability | Major Importance? |
|---|---|---|---|
| 5. Wetlands (inland) -> 5.1. Wetlands (inland) - Permanent Rivers/Streams/Creeks (includes waterfalls) | - | Suitable | - |
| 5. Wetlands (inland) -> 5.5. Wetlands (inland) - Permanent Freshwater Lakes (over 8ha) | - | Suitable | - |
| 5. Wetlands (inland) -> 5.7. Wetlands (inland) - Permanent Freshwater Marshes/Pools (under 8ha) | - | Suitable | - |
| 5. Wetlands (inland) -> 5.9. Wetlands (inland) - Freshwater Springs and Oases | - | Suitable | - |

## Use and Trade

(http://www.iucnredlist.org/technical-documents/classification-schemes)

| End Use | Local | National | International |
|---|---|---|---|
| Sport hunting/specimen collecting | Yes | No | No |
| Food - human | Yes | No | No |

## Threats

(http://www.iucnredlist.org/technical-documents/classification-schemes)

| Threat | Timing | Scope | Severity | Impact Score |
|---|---|---|---|---|
| 5. Biological resource use -> 5.4. Fishing & harvesting aquatic resources -> 5.4.1. Intentional use: (subsistence/small scale) [harvest] | Ongoing | - | - | Low impact: 3 |
| | Stresses: | 1. Ecosystem stresses -> 1.2. Ecosystem degradation<br>2. Species Stresses -> 2.1. Species mortality | | |
| 7. Natural system modifications -> 7.2. Dams & water management/use -> 7.2.1. Abstraction of surface water (domestic use) | Ongoing | - | - | Low impact: 3 |
| | Stresses: | 1. Ecosystem stresses -> 1.1. Ecosystem conversion<br>1. Ecosystem stresses -> 1.2. Ecosystem degradation | | |
| 7. Natural system modifications -> 7.2. Dams & water management/use -> 7.2.2. Abstraction of surface water (commercial use) | Ongoing | - | - | Low impact: 3 |
| | Stresses: | 1. Ecosystem stresses -> 1.1. Ecosystem conversion<br>1. Ecosystem stresses -> 1.2. Ecosystem degradation | | |


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| | | | | |
|---|---|---|---|---|
| 7. Natural system modifications -> 7.2. Dams & water management/use -> 7.2.3. Abstraction of surface water (agricultural use) | Ongoing | - | - | Low impact: 3 |
| | Stresses: | 1. Ecosystem stresses -> 1.1. Ecosystem conversion<br>1. Ecosystem stresses -> 1.2. Ecosystem degradation | | |
| 7. Natural system modifications -> 7.2. Dams & water management/use -> 7.2.5. Abstraction of ground water (domestic use) | Ongoing | - | - | Low impact: 3 |
| | Stresses: | 1. Ecosystem stresses -> 1.1. Ecosystem conversion<br>1. Ecosystem stresses -> 1.2. Ecosystem degradation | | |
| 7. Natural system modifications -> 7.2. Dams & water management/use -> 7.2.6. Abstraction of ground water (commercial use) | Ongoing | - | - | Low impact: 3 |
| | Stresses: | 1. Ecosystem stresses -> 1.1. Ecosystem conversion<br>1. Ecosystem stresses -> 1.2. Ecosystem degradation | | |
| 7. Natural system modifications -> 7.2. Dams & water management/use -> 7.2.9. Small dams | Ongoing | - | - | Low impact: 3 |
| | Stresses: | 1. Ecosystem stresses -> 1.1. Ecosystem conversion<br>1. Ecosystem stresses -> 1.2. Ecosystem degradation | | |
| 8. Invasive and other problematic species, genes & diseases -> 8.1. Invasive non-native/alien species/diseases -> 8.1.1. Unspecified species | Ongoing | - | - | Low impact: 3 |
| | Stresses: | 1. Ecosystem stresses -> 1.2. Ecosystem degradation<br>2. Species Stresses -> 2.2. Species disturbance | | |
| 9. Pollution -> 9.3. Agricultural & forestry effluents -> 9.3.1. Nutrient loads | Ongoing | - | - | Low impact: 3 |
| | Stresses: | 1. Ecosystem stresses -> 1.2. Ecosystem degradation | | |
| 9. Pollution -> 9.3. Agricultural & forestry effluents -> 9.3.2. Soil erosion, sedimentation | Ongoing | - | - | Low impact: 3 |
| | Stresses: | 1. Ecosystem stresses -> 1.2. Ecosystem degradation | | |
| 9. Pollution -> 9.3. Agricultural & forestry effluents -> 9.3.3. Herbicides and pesticides | Ongoing | - | - | Low impact: 3 |
| | Stresses: | 1. Ecosystem stresses -> 1.2. Ecosystem degradation | | |

# Conservation Actions Needed

**(http://www.iucnredlist.org/technical-documents/classification-schemes)**

| Conservation Action Needed |
|---|
| 1. Land/water protection -> 1.2. Resource & habitat protection |
| 2. Land/water management -> 2.2. Invasive/problematic species control |
| 2. Land/water management -> 2.3. Habitat & natural process restoration |

# Research Needed

**(http://www.iucnredlist.org/technical-documents/classification-schemes)**

| Research Needed |
| --- |
| 1. Research -> 1.2. Population size, distribution & trends |
| 1. Research -> 1.3. Life history & ecology |
| 3. Monitoring -> 3.1. Population trends |
| 3. Monitoring -> 3.4. Habitat trends |

# Additional Data Fields

| Habitats and Ecology |
| --- |
| Movement patterns: Not a Migrant |

# The IUCN Red List Partnership


The IUCN Red List of Threatened Species™ is produced and managed by the IUCN Global Species Programme, the IUCN Species Survival Commission (SSC) and The IUCN Red List Partnership.

The IUCN Red List Partners are: Arizona State University; BirdLife International; Botanic Gardens Conservation International; Conservation International; NatureServe; Royal Botanic Gardens, Kew; Sapienza University of Rome; Texas A&M University; and Zoological Society of London.