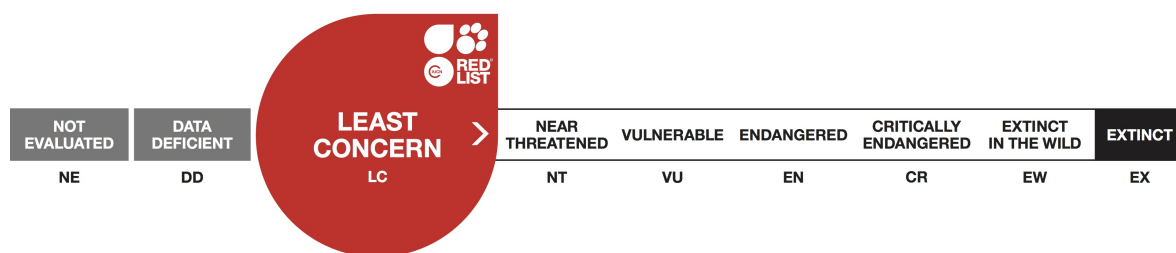


***Bombina orientalis*, Oriental Fire-bellied Toad**

Assessment by: Sergius Kuzmin, Li Pipeng, Masafumi Matsui, Vladimir Ishchenko, Irina Maslova



View on www.iucnredlist.org

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Taxonomy

Kingdom	Phylum	Class	Order	Family
Animalia	Chordata	Amphibia	Anura	Bombinatoridae

Taxon Name: *Bombina orientalis* (Boulenger, 1890)

Common Name(s):

- English: Oriental Bell Toad, Oriental Fire-bellied Toad

Assessment Information

Red List Category & Criteria: Least Concern [ver 3.1](#)

Year Published: 2004

Date Assessed: April 30, 2004

Annotations: Needs Updating

Justification:

Listed as Least Concern in view of its wide distribution, presumed large population, and because it is unlikely to be declining fast enough to qualify for listing in a more threatened category.

Geographic Range

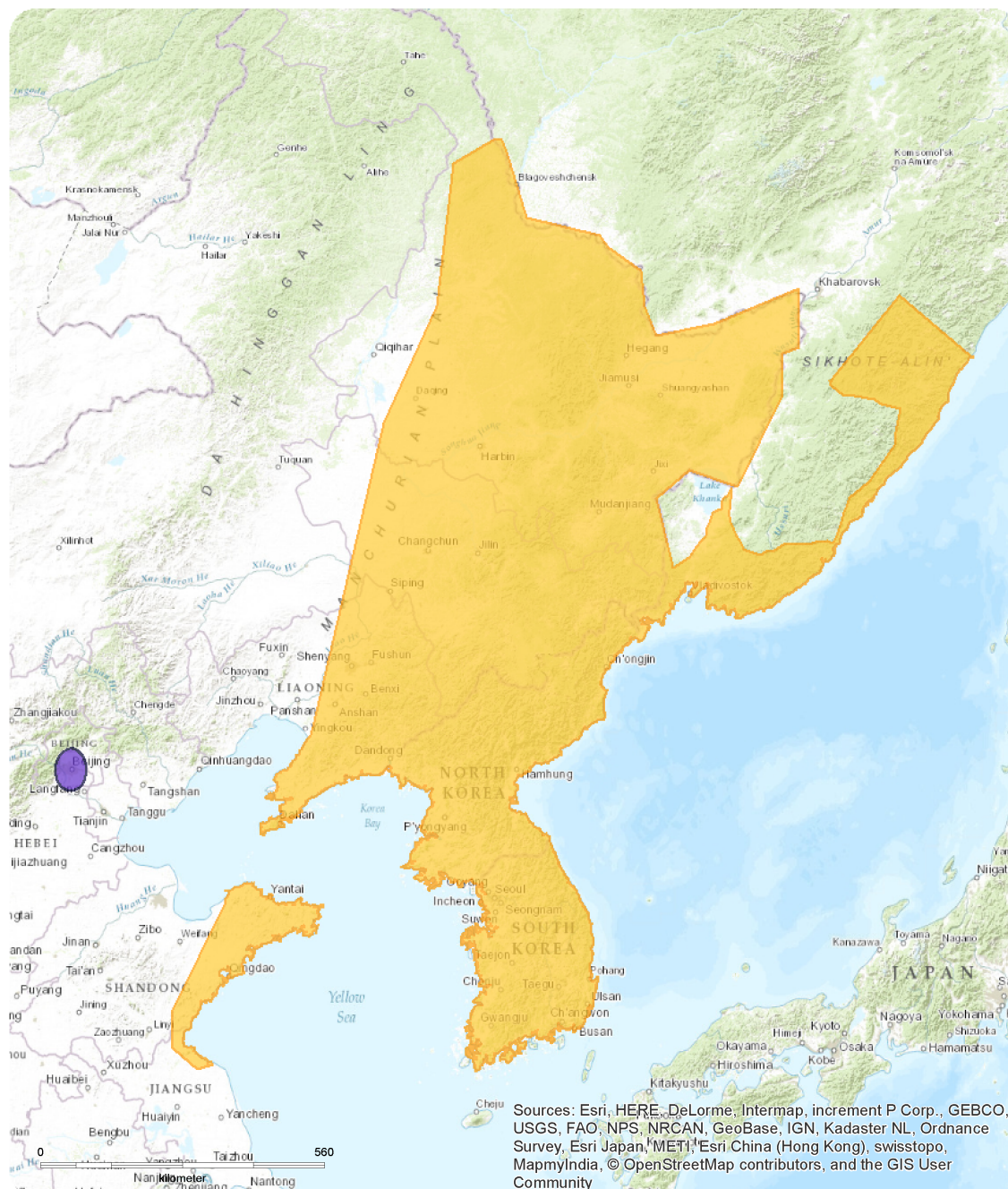
Range Description:

This species is found in northeastern China, throughout the Democratic People's Republic of Korea and the Republic of Korea and in the Khabarovsk and Primorye regions in Russia. Records of this species from southern Japan (Tsushima and Kiushiu islands) are now believed to be in error (M. Matsui pers. comm.). There is a small-introduced population of this species close to Beijing. It is a lowland species present to 500m asl (Russia).

Country Occurrence:

Native: China (Beijing - Introduced); Korea, Democratic People's Republic of; Korea, Republic of; Russian Federation

Distribution Map

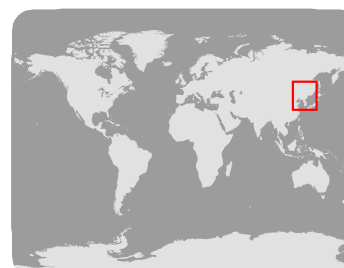


Bombina orientalis

Range

- Extant (resident)
- Introduced

Compiled by:
IUCN (International Union for
Conservation of Nature),
Conservation International &
NatureServe.



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



Population

It is regarded as common in both China and Russia.

Current Population Trend: Decreasing

Habitat and Ecology (see Appendix for additional information)

It inhabits mixed coniferous and broad-leaved forests, open meadows, river valleys and swampy bush lands. It breeds in streams, pools, paddy fields, ditches and other waterbodies. This species can adapt to modified habitats.

Systems: Terrestrial, Freshwater

Threats (see Appendix for additional information)

This species is generally threatened by habitat loss and degradation. In Russia, the collection of animals for traditional Chinese medicine might be a potential threat. Moderate numbers are exported, mainly to western Europe and North America in the international pet trade.

Conservation Actions (see Appendix for additional information)

This species is present within a number of protected areas in China and the Korean Peninsula and six nature reserves in Russia. It is listed on the Red Data Book of Khabarovskii Region, Russia. There is a need to monitor the relatively small Russian population.

Credits

Assessor(s): Sergius Kuzmin, Li Pipeng, Masafumi Matsui, Vladimir Ishchenko, Irina Maslova

Reviewer(s): Global Amphibian Assessment Coordinating Team (Simon Stuart, Janice Chanson and Neil Cox)

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External Resources

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?
1. Forest -> 1.4. Forest - Temperate	-	Suitable	-
3. Shrubland -> 3.4. Shrubland - Temperate	-	Suitable	-
4. Grassland -> 4.4. Grassland - Temperate	-	Marginal	-
5. Wetlands (inland) -> 5.1. Wetlands (inland) - Permanent Rivers/Streams/Creeks (includes waterfalls)	-	Suitable	-
5. Wetlands (inland) -> 5.6. Wetlands (inland) - Seasonal/Intermittent Freshwater Lakes (over 8ha)	-	Suitable	-
5. Wetlands (inland) -> 5.7. Wetlands (inland) - Permanent Freshwater Marshes/Pools (under 8ha)	-	Suitable	-
5. Wetlands (inland) -> 5.8. Wetlands (inland) - Seasonal/Intermittent Freshwater Marshes/Pools (under 8ha)	-	Suitable	-
5. Wetlands (inland) -> 5.9. Wetlands (inland) - Freshwater Springs and Oases	-	Marginal	-
14. Artificial/Terrestrial -> 14.2. Artificial/Terrestrial - Pastureland	-	Marginal	-
14. Artificial/Terrestrial -> 14.5. Artificial/Terrestrial - Urban Areas	-	Marginal	-
15. Artificial/Aquatic & Marine -> 15.2. Artificial/Aquatic - Ponds (below 8ha)	-	Suitable	-
15. Artificial/Aquatic & Marine -> 15.3. Artificial/Aquatic - Aquaculture Ponds	-	Marginal	-
15. Artificial/Aquatic & Marine -> 15.5. Artificial/Aquatic - Excavations (open)	-	Marginal	-
15. Artificial/Aquatic & Marine -> 15.7. Artificial/Aquatic - Irrigated Land (includes irrigation channels)	-	Marginal	-
15. Artificial/Aquatic & Marine -> 15.8. Artificial/Aquatic - Seasonally Flooded Agricultural Land	-	Marginal	-

Use and Trade

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

End Use	Local	National	International
Medicine - human & veterinary	No	No	Yes
Pets/display animals, horticulture	No	Yes	Yes

End Use	Local	National	International
Establishing ex-situ production *	No	No	No

Threats

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

Threat	Timing	Scope	Severity	Impact Score
1. Residential & commercial development -> 1.1. Housing & urban areas	Ongoing	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation		
1. Residential & commercial development -> 1.2. Commercial & industrial areas	Ongoing	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation		
2. Agriculture & aquaculture -> 2.1. Annual & perennial non-timber crops -> 2.1.3. Agro-industry farming	Ongoing	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation		
2. Agriculture & aquaculture -> 2.3. Livestock farming & ranching -> 2.3.3. Agro-industry grazing, ranching or farming	Ongoing	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation		
5. Biological resource use -> 5.3. Logging & wood harvesting -> 5.3.5. Motivation Unknown/Unrecorded	Ongoing	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.2. Ecosystem degradation		
7. Natural system modifications -> 7.1. Fire & fire suppression -> 7.1.3. Trend Unknown/Unrecorded	Ongoing	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.2. Ecosystem degradation		
9. Pollution -> 9.3. Agricultural & forestry effluents -> 9.3.4. Type Unknown/Unrecorded	Ongoing	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.2. Ecosystem degradation		
11. Climate change & severe weather -> 11.2. Droughts	Ongoing	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.2. Ecosystem degradation		

Conservation Actions in Place

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

Conservation Actions in Place
In-Place Land/Water Protection and Management

Conservation Actions in Place
Conservation sites identified: Yes, over entire range
Occur in at least one PA: Yes

Conservation Actions Needed

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

Conservation Actions Needed
1. Land/water protection -> 1.1. Site/area protection
2. Land/water management -> 2.1. Site/area management
5. Law & policy -> 5.1. Legislation -> 5.1.2. National level
5. Law & policy -> 5.1. Legislation -> 5.1.3. Sub-national level
5. Law & policy -> 5.4. Compliance and enforcement -> 5.4.2. National level
5. Law & policy -> 5.4. Compliance and enforcement -> 5.4.3. Sub-national level

Research Needed

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

Research Needed
1. Research -> 1.1. Taxonomy
1. Research -> 1.2. Population size, distribution & trends
1. Research -> 1.3. Life history & ecology
1. Research -> 1.5. Threats
3. Monitoring -> 3.1. Population trends

Additional Data Fields

Population
Population severely fragmented: No

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