

Cobitis zanandreai

Region: 1

Taxonomic Authority: Cavicchioli, 1965

Synonyms:

Common Names:

Order: Cypriniformes

Family: Cobitidae

Notes on taxonomy: (Bianco Feedback) The presence of this species cannot be supported by any biogeographic evidence. An hybrid origin was supposed, between introduced Sabanejewia and Cobitis as the species show morphological intermediate characters between these two genera (P.G. Bianco, pers. observ.). Genetic investigations were oriented to differentiate this species but did not permit to clarify this potential feature

General Information

Biome Terrestrial Freshwater Marine

Geographic Range of species:

Restricted to the Volturno river basin in Central Italy. Also present in Lake Fondi (possibly introduced) and in possibly a in number of other associated lagoons (also likely to have been introduced).

Habitat and Ecology Information:

Rivers, lakes and canals where it prefers sand/mud substrates near vegetation.

Conservation Measures:

None

Threats:

Habitat destruction (in the river), water extraction, alien species (predation).
Introduction of congeneric Cobitis bilineata and Pseudorasbora parva, Ictalurus melas, Lepomis gibbosus and others, all found during a survey in 2004 (P.G. Bianco, pers. observ.).

Species population information:

Decreasing in the Volturno river but it is also abundant in the lake and canal systems.

In surveys on 2004 carried on Volturno river, loaches were very seldom, and the few collected fish were C. bilineata (Bianco pers comm.).

Country Distribution

	Native - Presence Confirmed	Native - Presence Possible	Extinct	Reintroduced	Introduced	Vagrant
Italy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Upper Level Habitat Preferences

Score

Lower Level Habitat Preferences

Score

Major threats

Code	Description of threat	Past	Present	Future
1	Habitat Loss/Degradation (human induced)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.3	Extraction	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.3.6	Groundwater extraction	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.4	Infrastructure development	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1.4.6	Dams	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	Pollution (affecting habitat and/or species)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6.3	Water pollution	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9	Intrinsic factors	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9.1	Limited dispersal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9.9	Restricted range	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Conservation Measures

Code	Conservation measures	In place	Needed
3	Research actions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.1	Taxonomy	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.2	Population numbers and range	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.3	Biology and Ecology	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.4	Habitat status	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.5	Threats	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.8	Conservation measures	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.9	Trends/Monitoring	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Utilisation of Species

Purpose/Type of Use	Subsistence	National	International	Other purpose:	
Primary forms removed from the wild	100%	>75%	51-75%	26-50% <25%	Not used at all.
Source of specimens in commercial trade	100%	>75%	51-75%	26-50% <25%	Other forms removed from the wild:
					Other source of specimens:

Trend in wild offtake/harvest in relation to total wild population numbers over last five years:

Trend in offtake/harvest produced through domestication/cultivation over last five years:

CITES:

Red Listing

Red List Assessment: Vulnerable (VU) Possibly Extinct

Red List Criteria: D2

Rationale for the Red List Assessment: This species is restricted to two small locations, the Volturno river basin and Lake Fondi (possibly introduced).

Current Population Trend: Decreasing

Date of Assessment: 31/10/2004

Assessor(s): A.J. Crivelli

Evaluator: Bianco, G. & Freyhof, J.

Notes on Red listing:

Bibliography

Bianco, P.G., 1995, Mediterranean endemic freshwater fishes of Italy., *Biological Conservation*, , , 72, 159-170, ,

Kottelat, M., 1997, European freshwater fishes, *Biologia*, Bratislava, , , 52/ Supplement 5, 1-271, ,

Perdices, A. & Doadrio, I., 2001, The molecular systematics and biogeography of the European Cobitids based on mitochondrial DNA sequences., *Molecular Phylogenetics and Evolution*, , , 19, 468-478, ,