



## Detailed draft conclusions on the representation of animal species from Res. No. 6 (1998) of the Bern Convention in Emerald Network Sites in Liechtenstein (Alpine)

### Important Notes:

#### Glossary:

SUF (Sufficient): the occurrence of the species/habitat type is sufficiently well covered by the current Emerald Network; no further sites are required.

IN MIN (Insufficient minor): no new sites are required, but this species/habitat type should be added to the list of qualifying features on one or several sites that have already been proposed for other species/habitat types.

IN MOD (Insufficient moderate): one or several additional sites (or extensions of sites) must be proposed to achieve a sufficient coverage of the Emerald network for this species/ habitat type.

IN MAJ (Insufficient major): none of the sites where this species/habitat type occurs have been proposed so far; in order to achieve a sufficient coverage of the Emerald network for the species/habitat type, one or several sites must therefore be proposed.

SR (Scientific reserve): further research is required to identify the most appropriate sites for this species/habitat type (research on identifying the most appropriate sites, on clarifying the correspondence of a habitat present to the definition of Res. 4 habitats, etc. )

SR REF (Scientific reserve on the Reference List): the regular occurrence of this species/habitat type is still uncertain and needs to be confirmed

EXCL REF (Exclude from the Reference List): this species/habitat type is not naturally occurring and will be removed from the Reference List; no sites are required for this species/habitat type

CD (Correction of data): the information about this species/habitat type in the Standard Data Form needs to be corrected/completed/deleted

Codes can be combined, for example 'IN MOD/ CD' would indicate that additional sites are required and that the existing proposals need to be corrected or complemented.

Code	Species Name	iso	bio geo	Sites 2021	population assessment 2021	Draft Conclusion Comments	Draft Conclusion
<b>Mammals</b>							
1303	Rhinolophus hipposideros	LI	ALP			Listed in IUCN Red List (NT), indicated presence in Liechtenstein, but specified as extinct in List of mammals of Liechtenstein	SR?
1304	Rhinolophus ferrumequinum	LI	ALP			Listed in IUCN Red List (NT), indicated presence in Liechtenstein	IN MAJ?
1308	Barbastella barbastellus	LI	ALP			Listed in IUCN Red List (NT), indicated presence in Liechtenstein	IN MAJ?
1310	Miniopterus schreibersi	LI	ALP			Listed as present in Liechtenstein by some web portals e.g. <a href="https://www.cms.int/cami/en/species/miniopterus-schreibersi">https://www.cms.int/cami/en/species/miniopterus-schreibersi</a>	SR?
1323	Myotis bechsteinii	LI	ALP			Listed in IUCN Red List (NT), indicated presence in Liechtenstein	IN MAJ?
1324	Myotis myotis	LI	ALP			Listed in IUCN Red List (LC), indicated presence in Liechtenstein	IN MAJ?
1337	Castor fiber	LI	ALP			Listed in IUCN Red List for Liechtenstein and by Fasel 2018 (50 specimens). The species is present in the neighbouring Natura 2000 site AT3408000 Bangs - Matschels.	IN MAJ?
1355	Lutra lutra	LI	ALP			Listed in IUCN Red List (NT), indicated presence in Liechtenstein	IN MAJ?
1361	Lynx lynx	LI	ALP			Extinct, natural re-colonisation of Liechtenstein by Fasel (2001) may be possible within a few years	SR?

Code	Species Name	iso	bio geo	Sites 2021	population assessment 2021	Draft Conclusion Comments	Draft Conclusion
<b>Reptiles</b>							
1220	Emys orbicularis	LI	ALP			It is questionable whether it breeds in Liechtenstein.	SR?

Code	Species Name	iso	bio geo	Sites 2021	population assessment 2021	Draft Conclusion Comments	Draft Conclusion
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## Amphibians

1166	<i>Triturus cristatus</i>	LI	ALP	1	( 1B)	SDF: p( 50- 500i). Only 2-15% of national population is in the network.	IN MIN/IN MOD?
1193	<i>Bombina variegata</i>	LI	ALP	2	( 1B 1C)	SDF: p( 50- 500i) r( 1- 0i). Only 2-17% of national population covered.	IN MOD?

Code	Species Name	iso	bio geo	Sites 2021	population assessment 2021	Draft Conclusion Comments	Draft Conclusion
<b>Fish</b>							
1096	Lampetra planeri	LI	ALP			Listed in IUCN Red List (LC), indicated presence in Liechtenstein	IN MAJ?
1158	Zingel asper	LI	ALP			Indicated as present in Liechtenstein by World species ( <a href="https://worldspecies.org/ntaxa/662502">https://worldspecies.org/ntaxa/662502</a> )	SR?
1163	Cottus gobio	LI	ALP	1	( 1C)	SDF: p( 100- 500i). Less than 2% of national population covered.	IN MIN/IN MOD?
6147	Telestes souffia	LI	ALP			Listed in IUCN Red List (Lc), indicated presence in Liechtenstein	IN MAJ?

Code	Species Name	iso	bio geo	Sites 2021	population assessment 2021	Draft Conclusion Comments	Draft Conclusion
<b>Invertebrates</b>							
1014	Vertigo angustior	LI	ALP	2	( 2A)	SDF: p( 100001- 150000i). According to Trub (1988) occurs in 8 sites, It is only found in swamps and wet meadows of the lowest altitude level. <a href="https://www.llv.li/files/au/pdf-llv-au-b9-schneckenmuschelIn-2.pdf">https://www.llv.li/files/au/pdf-llv-au-b9-schneckenmuschelIn-2.pdf</a>	SUF?
1032	Unio crassus	LI	ALP			Considered as extinct in Liechtenstein. The species is present in AT-ALP, with an article 17 distribution grid south Dornbirn. The CS reported for the species in AT-ALP is U2. In Slovakia, this species was found on historical sites where it was registered as extinct.	SR?
1044	Coenagrion mercuriale	LI	ALP	1	( 1A)	SDF: p( 20- 100i). 2 known localities, but their location is not in Emerald site (one of them is very close).	IN MOD?
1065	Euphydryas aurinia	LI	ALP	2	( 2A)	SDF: p( 80- 300i)	SUF?
1071	Coenonympha oedippus	LI	ALP	2	( 2A)	SDF: p( 100- 850i). 5 known localities - The Map of the “Encyclopedia of life”, most individuals within proposed sites.	SUF?
1083	Lucanus cervus	LI	ALP			The species occurrence in several sites across Liechtenstein indicated in <a href="https://www.inaturalist.org/taxa/61749-Lucanus-cervus">https://www.inaturalist.org/taxa/61749-Lucanus-cervus</a>	IN MAJ?
1084	Osmoderma eremita	LI	ALP			Listed in IUCN Red List (NT), indicated presence in Liechtenstein	IN MAJ?
1087	Rosalia alpina	LI	ALP			Listed in IUCN Red List (LC), indicated presence in Liechtenstein	IN MAJ?
1092	Austropotamobius pallipes	LI	ALP	1	( 1A)	SDF: p( 10000- 100000i)	SUF?
6177	Phengaris teleius	LI	ALP	2	( 2A)	SDF: p( 80- 300i)	SUF?
6179	Phengaris nausithous	LI	ALP	2	( 2A)	SDF: p( 80- 300i)	SUF?