



Ramsar Information Sheet

Published on 29 March 2017

Update version, previously published on 2 February 2005

Switzerland

Laubersmad-Salwidili



Designation date	2 February 2005
Site number	1444
Coordinates	46°47'54"N 07°59'26"E
Area	1 376,00 ha

Color codes

Fields back-shaded in light blue relate to data and information required only for RIS updates.

Note that some fields concerning aspects of Part 3, the Ecological Character Description of the RIS (tinted in purple), are not expected to be completed as part of a standard RIS, but are included for completeness so as to provide the requested consistency between the RIS and the format of a 'full' Ecological Character Description, as adopted in Resolution X.15 (2008). If a Contracting Party does have information available that is relevant to these fields (for example from a national format Ecological Character Description) it may, if it wishes to, include information in these additional fields.

1 - Summary

Summary

The site Laubersmad-Salwidili is located on the northern slope of the Brienzer Rothorn mountain range at an altitude between 1,060 and 1,900 meters asl. The mire landscape of a total of 1,376 ha is characterized by a mosaic of fens, several types of mountain swamps with low, transitional and raised bogs of national importance as well as wet spruce forests and meadows.

The site Laubersmad-Salwidili is outstanding for being a contiguous mire landscape with the most number of bogs under protection in Switzerland. Laubersmad-Salwidili is home to 24 plant and 33 animal species listed on the red lists of endangered species in Switzerland; 3 plant and 24 animal species are listed in the IUCN red list. The presence of the Three-toed Woodpecker, the Capercaillie, the Black Grouse and the Lynx underlines the important role of this site as a habitat for wild mammals and birds. In terms of ecosystem services, the site plays an important role for water retention. Since 2004 important activities for restoring bogs are implemented.

Human activities affecting the site include mountain pursuits such as skiing and hiking, agriculture (grazing) and leisure activities such as mushroom and berry picking.

2 - Data & location

2.1 - Formal data

2.1.1 - Name and address of the compiler of this RIS

Compiler 1

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2.1.2 - Period of collection of data and information used to compile the RIS

From year

To year

2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)

2.1.4 - Changes to the boundaries and area of the Site since its designation or earlier update

(Update) A. Changes to Site boundary Yes No

(Update) B. Changes to Site area No change to area

2.1.5 - Changes to the ecological character of the Site

(Update) 6b i. Has the ecological character of the Ramsar Site (including applicable Criteria) changed since the previous RIS? Not evaluated

2.2 - Site location

2.2.1 - Defining the Site boundaries

b) Digital map/image
<2 file(s) uploaded>

Former maps

Boundaries description (optional)

The site consists of a slope extending from the Brienzer Rothorn-Tannhorn mountain range up to Place Salwidili. It is located above the mountain village of Sörenberg (population of 1860) and at approx. 50 km from Lucerne, capital of the canton of Lucerne (population of 60000).

2.2.2 - General location

a) In which large administrative region does the site lie?

b) What is the nearest town or population centre?

2.2.3 - For wetlands on national boundaries only

a) Does the wetland extend onto the territory of one or more other countries? Yes No

b) Is the site adjacent to another designated Ramsar Site on the territory of another Contracting Party? Yes No

2.2.4 - Area of the Site

Official area, in hectares (ha):

Area, in hectares (ha) as calculated from GIS boundaries

2.2.5 - Biogeography

Biogeographic regions

Regionalisation scheme(s)	Biogeographic region
Freshwater Ecoregions of the World (FEOW)	Central & Western Europe
Other scheme (provide name below)	Northern Alps *

Other biogeographic regionalisation scheme

* Biogeographic regions of Switzerland. Federal Office for the Environment FOEN, 2001.

3 - Why is the Site important?

3.1 - Ramsar Criteria and their justification

- Criterion 1: Representative, rare or unique natural or near-natural wetland types

Other reasons












As a montane wetland, the site belongs to wetlands currently under-represented in the Ramsar List. (Résolution VIII.12: Renforcer l'utilisation rationnelle et la conservation des zones humides de montagne)
In Switzerland, mires, fenlands, bogs are rare - and in most cases - protected habitats. Mire biotopes and mire landscapes are hotspots of biodiversity: Nearly 25% of endangered vascular plant species in Switzerland, among which many Red List species, occur in the mire biotopes of national importance, which cover only 0.5% of the country area.















The site includes a wide range of rare and representative types of mire habitats which differ in floristic terms and by origin, extending proportionately on a small area. Mosaics of mire complexes composed of fenlands, transitional mires, and bogs, surrounded by humid coniferous forests are characteristic for the site.

A vegetationmap is available from the WEB-GIS of the Federal office for the environment:
<https://map.geo.admin.ch/>

- Criterion 2 : Rare species and threatened ecological communities







3.2 - Plant species whose presence relates to the international importance of the site








































Scientific name	Common name	Criterion 2	Criterion 3	Criterion 4	IUCN Red List	CITES Appendix I	Other status	Justification
 <i>Anastrepta orcadensis</i>	Orkney Notchwort	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Bryophytes 2004)	
 <i>Aulacomnium androgynum</i>	Bud-headed Groove-moss	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Bryophytes 2004)	
 <i>Calyptogeia sphagnicola</i>	Bog Pouchwort	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Bryophytes 2004)	
 <i>Campyliadelphus elodes</i>	Fine-leaved Marsh Feather-moss	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Bryophytes 2004)	
 <i>Cyrtomium hymenophylloides</i>	Cyrtomium Moss	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	EN (National Red List Bryophytes 2004)	
 <i>Dactylorhiza maculata</i>	Moortand Spotted Orchid	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	CR (National Red List Ferns and Flowering Plants 2002)	
 <i>Dicranella cerviculata</i>	Red-neck Forklet-moss	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	EN (National Red List Bryophytes 2004)	
 <i>Dicranum flagellare</i>	Dicranum Moss	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	EN (National Red List Bryophytes 2004)	
 <i>Drosera anglica</i>	Great Sundew	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
 <i>Drosera obovata</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
 <i>Eryngium alpinum</i>	Alpine Sea Holly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	

Scientific name	Common name	Criterion 2	Criterion 3	Criterion 4	IUCN Red List	CITES Appendix I	Other status	Justification
 <i>Galeopsis bifida</i>	Split-lip Hemp-nettle	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
 <i>Gentiana cruciata</i>	Cross Gentian	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
 <i>Glyceria declinata</i>	Small Sweet-grass	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	EN (National Red List Ferns and Flowering Plants 2002)	
 <i>Juncus stygius</i>	Moor Rush	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	CR (National Red List Ferns and Flowering Plants 2002)	
 <i>Lycopodiella inundata</i>	Marsh Club Moss	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LC 	<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
 <i>Papaver occidentale</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
 <i>Pedicularis sylvatica</i>	Lousewort	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
 <i>Riccardia chamedryfolia</i>	Jagged Germanderwort	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Bryophytes 2004)	
 <i>Sagittaria sagittifolia</i>	Arrowhead	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LC 	<input type="checkbox"/>	EN (National Red List Ferns and Flowering Plants 2002)	
 <i>Scheuchzeria palustris</i>	Pod Grass	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
 <i>Utricularia minor</i>	Lesser Bladderwort	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LC 	<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
 <i>Vaccinium oxycoccos</i>	Small Cranberry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	

The site harbours many species figuring on the national red list macrofungi 2007 and national red list lichens 2002. A list of these species is added to chapter 6.1.2.

3.3 - Animal species whose presence relates to the international importance of the site

Phylum	Scientific name	Common name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence ¹⁾	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7	8								
Birds																		
CHORDATA/ AVES	 <i>Arthus pratensis</i>	Meadow Pipit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/ AVES	 <i>Aquila chrysaetos</i>	Golden Eagle	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/ AVES	 <i>Bubo bubo</i>	Eurasian Eagle-Owl	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Breeding Birds 2010)	

Phylum	Scientific name	Common name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence 1)	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7	8								
CHORDATA/ AVES	<i>Circus aeruginosus</i> 	Western Marsh Harrier	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2013		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/ AVES	<i>Crex crex</i> 	Corn Crane	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2004		LC 	<input type="checkbox"/>	<input type="checkbox"/>	CR (National Red List Breeding Birds 2010)	
CHORDATA/ AVES	<i>Gypaetus barbatus</i> 	Bearded Vulture	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2001		LC 	<input type="checkbox"/>	<input type="checkbox"/>	CR (National Red List Breeding Birds 2010)	
CHORDATA/ AVES	<i>Lullula arborea</i> 	Woodlark	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2013		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/ AVES	<i>Merops apiaster</i> 	European Bee-eater	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2011		LC 	<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Breeding Birds 2010)	
CHORDATA/ AVES	<i>Numenius arquata</i> 	Eurasian Curlew	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2014		NT 	<input type="checkbox"/>	<input type="checkbox"/>	CR (National Red List Breeding Birds 2010)	
CHORDATA/ AVES	<i>Pandion haliaetus</i> 	Osprey	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2013		LC 	<input type="checkbox"/>	<input type="checkbox"/>	RE (National Red List Breeding Birds 2010)	
CHORDATA/ AVES	<i>Phylloscopus trochilus</i> 	Willow Warbler	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/ AVES	<i>Saxicola rubetra</i> 	Whinchat	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2012		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/ AVES	<i>Scolopax rusticola</i> 	Eurasian Woodcock	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/ AVES	<i>Tetrao urogallus</i> 	Western Capercaillie	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2013		LC 	<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Breeding Birds 2010)	
CHORDATA/ AVES	<i>Turdus pilaris</i> 	Fieldfare	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/ AVES	<i>Turdus torquatus</i> 	Ring Ouzel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/ AVES	<i>Upupa epops</i> 	Eurasian Hoopoe	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2012		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
Others																		
ARTHROPODA/ INSECTA	<i>Aeshna caerulea</i> 	Azure Hawker	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2013		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Butterflies and Burnet Moths 2014)	
ARTHROPODA/ INSECTA	<i>Bembidion bruxellense</i> 		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2013		LC 	<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Ground Beetles and Tiger Beetles 1994)	
ARTHROPODA/ INSECTA	<i>Boloria aquilonaris</i> 	Cranberry Fritillary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2012			<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Butterflies and Burnet Moths 2014)	
ARTHROPODA/ INSECTA	<i>Brachyptera seticornis</i> 		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2013			<input type="checkbox"/>	<input type="checkbox"/>	VU (Red List Mayflies, Stoneflies and Caddisflies 2012)	
CHORDATA/ AMPHIBIA	<i>Bufo bufo</i> 	Common Toad	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2007		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Amphibians 2005)	
CHORDATA/ MAMMALIA	<i>Canis lupus</i> 	Wolf	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2012		LC 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Extinct (National Red List Mammals 1994)	
ARTHROPODA/ INSECTA	<i>Hydropsyche saxonica</i> 		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2009			<input type="checkbox"/>	<input type="checkbox"/>	VU (Red List Mayflies, Stoneflies and Caddisflies 2012)	

Phylum	Scientific name	Common name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence 1)	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7	8								
ARTHROPODA / INSECTA	<i>Lepturobosca virens</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2011			<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Ground Beetles and Tiger Beetles 1994)	
CHORDATA / MAMMALIA	<i>Lynx lynx</i>	Eurasian Lynx	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2013		LC	<input type="checkbox"/>	<input type="checkbox"/>	Endangered (National Red List Mammals 1994)	
CHORDATA / MAMMALIA	<i>Mustela nivalis</i>	Least Weasel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2004		LC	<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Mammals 1994)	
CHORDATA / MAMMALIA	<i>Mustela putorius</i>	European Polecat	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2002		LC	<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Mammals 1994)	
ARTHROPODA / INSECTA	<i>Nymphalis antiopa</i>	Camberwell Beauty	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2009			<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Butterflies and Bumblebees 2014)	
ARTHROPODA / INSECTA	<i>Rhyacophila praemorsa</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2005			<input type="checkbox"/>	<input type="checkbox"/>	VU (Red List Mayflies, Stoneflies and Caddisflies 2012)	
ARTHROPODA / INSECTA	<i>Stethophyma grossum</i>	Large Marsh Grasshopper	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2001			<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Orthoptera 2007)	
ARTHROPODA / INSECTA	<i>Trechus rubens</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2012			<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Ground Beetles and Tiger Beetles 1994)	

1) Percentage of the total biogeographic population at the site

Supports rare/endangered amphibian species

3.4 - Ecological communities whose presence relates to the international importance of the site

Name of ecological community	Community qualifies under Criterion 2?	Description	Justification
Transitional reeds	<input checked="" type="checkbox"/>	Rhynchosporion albae with Rhynchosporetum albae; Caricetum limosae; Caricion lasiocarpae	community includes rare / threatened / endangered species
Sphagnum bogs	<input checked="" type="checkbox"/>	Sphagnion magellanici with Pinus mugo-Sphagnetum	community includes rare / threatened / endangered species
Raised bogs	<input checked="" type="checkbox"/>	Sphagnion magellanici with Pinus mugo-Sphagnetum	community includes rare / threatened / endangered species
Sedge reeds	<input checked="" type="checkbox"/>	Caricion fuscae with Caricetum fuscae; Eriophoro-Trichophoretum caespitosi	community includes rare / threatened / endangered species

4 - What is the Site like? (Ecological character description)

4.1 - Ecological character

In Switzerland, mires, fenlands, bogs are rare - and in most cases - protected habitats. Mire biotopes and mire landscapes are hotspots of biodiversity: Nearly 25% of endangered vascular plant species in Switzerland, among which many Red List species, occur in the mire biotopes of national importance, which cover only 0.5% of the country area. The site includes a wide range of different types of mire habitats which differ in floristic terms and by origin, extending proportionately on a small area. Mosaics of mire complexes composed of fenlands, transitional mires, and bogs, surrounded by humid coniferous forests are characteristic for the site. Therefore, the site bares high species richness - especially of wetland / mire depending plant species of which a relatively high number is threatened at a national level.

4.2 - What wetland type(s) are in the site?

Inland wetlands

Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type	Justification of Criterion 1
Fresh water > Flowing water >> M: Permanent rivers/ streams/ creeks		4		
Fresh water > Flowing water >> N: Seasonal/ intermittent/ irregular rivers/ streams/ creeks		4		
Fresh water > Lakes and pools >> Tp: Permanent freshwater marshes/ pools		1		
Fresh water > Marshes on inorganic soils >> Ts: Seasonal/ intermittent freshwater marshes/ pools on inorganic soils		3		
Fresh water > Marshes on peat soils >> U: Permanent Non-forested peatlands		3		Rare
Fresh water > Marshes on inorganic or peat soils >> Va: Montane wetlands		1		Rare
Fresh water > Marshes on inorganic soils >> W: Shrub-dominated wetlands		2		
Fresh water > Marshes on inorganic soils >> Xf: Freshwater, tree-dominated wetlands		2		Rare
Fresh water > Marshes on peat soils >> Xp: Permanent Forested peatlands		2		Rare
Fresh, saline, brackish or alkaline water > Subterranean >> Zk(b): Karst and other subterranean hydrological systems		4		Rare

(EOD) Habitat connectivity

The area is classified as a wildlife corridor of national importance (Axe de liaison national. Système de mise en réseau faune sauvage; Federal Office for the Environment FOEN)

4.3 - Biological components

4.3.1 - Plant species

Invasive alien plant species

Scientific name	Common name	Impacts	Changes at RIS update
<i>Buddleja davidii</i>	Butterfly Bush	Actually (major impacts)	unknown

4.3.2 - Animal species

Other noteworthy animal species

Phylum	Scientific name	Common name	Pop. size	Period of pop. est.	%occurrence	Position in range /endemism/other
CHORDATA/AVES	<i>Alauda arvensis</i>	Eurasian Skylark		2012		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	<i>Alectoris graeca</i>	Rock Partridge		2010		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	<i>Apus apus</i>	Common Swift		2012		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	<i>Asio otus</i>	Long-eared Owl		2014		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	<i>Carduelis cannabina</i>	Common Linnet		2014		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	<i>Cuculus canorus</i>	Common Cuckoo		2014		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	<i>Delichon urbicum</i>	Common House Martin		2014		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	<i>Dendrocopos medius</i>	Middle Spotted Woodpecker		2012		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	<i>Emberiza cirius</i>	Cirl Bunting		2003		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	<i>Falco peregrinus</i>	Peregrine Falcon		2012		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	<i>Falco subbuteo</i>	Eurasian Hobby		2013		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	<i>Falco tinnunculus</i>	Common Kestrel		2014		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	<i>Jynx torquilla</i>	Eurasian Wryneck		2011		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	<i>Lagopus muta</i>	Rock Ptarmigan		2013		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	<i>Lyrurus tetrix</i>	Black Grouse		2014		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	<i>Milvus milvus</i>	Red Kite		2014		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	<i>Motacilla flava</i>	Western Yellow Wagtail		2010		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	<i>Pernis apivorus</i>	European Honey Buzzard		2014		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	<i>Phoenicurus phoenicurus</i>	Common Redstart		2014		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	<i>Sylvia borin</i>	Garden Warbler		2014		High Priority Species (List of National Priority Species 2011)

4.4 - Physical components

4.4.1 - Climate

Climatic region	Subregion
D: Moist Mid-Latitude climate with cold winters	Dfb: Humid continental (Humid with severe winter, no dry season, warm summer)

4.4.2 - Geomorphic setting

a) Minimum elevation above sea level (in metres)

a) Maximum elevation above sea level (in metres)

- Entire river basin
- Upper part of river basin
- Middle part of river basin
- Lower part of river basin
- More than one river basin
- Not in river basin
- Coastal

Please name the river basin or basins. If the site lies in a sub-basin, please also name the larger river basin. For a coastal/marine site, please name the sea or ocean.

Upper Rhine basin.

4.4.3 - Soil

Organic

(Update) Changes at RIS update No change Increase Decrease Unknown

No available information

Are soil types subject to change as a result of changing hydrological conditions (e.g., increased salinity or acidification)? Yes No

Please provide further information on the soil (optional)

The soils are primarily hydromorphic: pseudogley, variegated clays and other gleys, anmoor and peat soils.

4.4.4 - Water regime

Water permanence

Presence?	Changes at RIS update
Usually permanent water present	

Source of water that maintains character of the site

Presence?	Predominant water source	Changes at RIS update
Water inputs from rainfall	<input checked="" type="checkbox"/>	No change

Water destination

Presence?	Changes at RIS update
Feeds groundwater	No change

Stability of water regime

Presence?	Changes at RIS update
Water levels largely stable	No change

4.4.5 - Sediment regime

Sediment regime unknown

<no data available>

4.4.6 - Water pH

Acid (pH<5.5)

(Update) Changes at RIS update No change Increase Decrease Unknown

Unknown

4.4.7 - Water salinity

Fresh (<0.5 g/l)

(Update) Changes at RIS update No change Increase Decrease Unknown

Unknown

4.4.8 - Dissolved or suspended nutrients in water

Unknown

4.4.9 - Features of the surrounding area which may affect the Site

Please describe whether, and if so how, the landscape and ecological characteristics in the area surrounding the Ramsar Site differ from the site itself. i) broadly similar ii) significantly different

- Surrounding area has greater urbanisation or development
- Surrounding area has higher human population density
- Surrounding area has more intensive agricultural use
- Surrounding area has significantly different land cover or habitat types

Please describe other ways in which the surrounding area is different:

Mire habitats in general are of a rare habitat type in Switzerland (mire biotopes of national importance cover 0.5% of the country area), significantly differing from the surroundings.
 The surrounding area of the site covers sparsely, or unpopulated and uncultivated alpine areas (Brienzer Rothorn), as well as more densely populated valleys with more intensive agricultural use and greater development.

4.5 - Ecosystem services

4.5.1 - Ecosystem services/benefits

Provisioning Services

Ecosystem service	Examples	Importance/Extent/Significance
Wetland non-food products	Livestock fodder	Medium
Wetland non-food products	Timber	Low

Regulating Services

Ecosystem service	Examples	Importance/Extent/Significance
Maintenance of hydrological regimes	Groundwater recharge and discharge	High
Hazard reduction	Flood control, flood storage	Medium

Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Recreation and tourism	Picnics, outings, touring	High
Recreation and tourism	Recreational hunting and fishing	Low
Recreation and tourism	Nature observation and nature-based tourism	High
Spiritual and inspirational	Aesthetic and sense of place values	High
Spiritual and inspirational	Cultural heritage (historical and archaeological)	Medium
Scientific and educational	Important knowledge systems, importance for research (scientific reference area or site)	Medium
Scientific and educational	Educational activities and opportunities	Low
Scientific and educational	Major scientific study site	Low
Scientific and educational	Type location for a taxon	Medium

Supporting Services

Ecosystem service	Examples	Importance/Extent/Significance
Biodiversity	Supports a variety of all life forms including plants, animals and microorganisms, the genes they contain, and the ecosystems of which they form a part	High
Nutrient cycling	Carbon storage/sequestration	Medium

Have studies or assessments been made of the economic valuation of ecosystem services provided by this Ramsar Site? Yes No Unknown

4.5.2 - Social and cultural values

- i) the site provides a model of wetland wise use, demonstrating the application of traditional knowledge and methods of management and use that maintain the ecological character of the wetland
- ii) the site has exceptional cultural traditions or records of former civilizations that have influenced the ecological character of the wetland
- iii) the ecological character of the wetland depends on its interaction with local communities or indigenous peoples
- iv) relevant non-material values such as sacred sites are present and their existence is strongly linked with the maintenance of the ecological character of the wetland

<no data available>

4.6 - Ecological processes

<no data available>

5 - How is the Site managed? (Conservation and management)

5.1 - Land tenure and responsibilities (Managers)

5.1.1 - Land tenure/ownership

Private ownership

Category	Within the Ramsar Site	In the surrounding area
Cooperative/collective (e.g., farmers cooperative)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Foundation/non-governmental organization/trust	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Other types of private/individual owner(s)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

5.1.2 - Management authority

Please list the local office / offices of any agency or organization responsible for managing the site:

Canton of Lucerne (Bau-, Umwelt- und Wirtschaftsdepartement - Umwelt und Energie UWE)
UNESCO Biosphäre Entlebuch administration

Provide the name and title of the person or people with responsibility for the wetland:

Peter Kull

Postal address:

Kanton Luzern
Bau-, Umwelt- und Wirtschaftsdepartement
Landwirtschaft und Wald (law) Centralstrasse 33
Postfach
6210 Sursee

E-mail address:

UNESCO Biosphäre Entlebuch
Chlosterbüel 28
CH-6170 Schüpfheim
Tel. +41 (0)41 485 88 50
zentrum@biosphaere

uwe@lu.ch

5.2 - Ecological character threats and responses (Management)

5.2.1 - Factors (actual or likely) adversely affecting the Site's ecological character

Water regulation

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Drainage			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	

Agriculture and aquaculture

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Livestock farming and ranching			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	

Transportation and service corridors

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Unspecified			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	

Human intrusions and disturbance

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Recreational and tourism activities			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
Unspecified/others	Medium impact	Medium impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change

Natural system modifications

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Unspecified/others			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	

Invasive and other problematic species and genes

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Invasive non-native/ alien species			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	

Pollution

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Agricultural and forestry effluents	Medium impact	Medium impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change

Please describe any other threats (optional):

Formation of shrubs / woodland in poorly accessible areas.
 Inadequate livestock grazing.
 Illegal use of access roads and of buildings constructed for alpine farming.

5.2.2 - Legal conservation status

Global legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
UNESCO Biosphere Reserve	Entlebuch (Object no. 2.0)	http://www.biosphaere.ch/	partly

National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Cantonal Forest Reserve	Laubersmadghack (Object no.160_LU_17)	http://www.bafu.admin.ch/	whole
Federal Hunting Reserve (1991, SR 922.31)	Tannhorn (Object no. 5)	http://www.bafu.admin.ch/	partly
Federal Inventory of Mire Landscapes of Particular Beauty and National Importance (1996, SR 451.35)	Habkern/Sörenberg (Object no. 13)	http://www.bafu.admin.ch/	partly
Federal Inventory of Raised Bogs and Transitional Mires of National Importance (1991, SR 451.32)	Salwidili (Object no. 313) / Zopf / Salwiden (Object no. 314) / Laubersmadghack (Object no. 315) / Tuemliwald (Object no. 316) / Gross Gfael (Object no. 317) / Husegg-Hurnischwand (Object no. 318) / Zopf (Object no. 362)	http://www.bafu.admin.ch/	whole
Federal inventory of Fenlands of National Importance (1994, RS 451.33)	Salwiden (Object no. 3285) / Schwarzenegg / Steinetti (Object no. 3296) / Laubersmadghack / Baersel (Object no. 3297) / Amibergli (Object no. 3357) / Schöniseischwand / Spierweid (Object no. 3359) / Schönisei / Harzsisboden (Object no. 3360)	http://www.bafu.admin.ch/	whole

Non-statutory designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Other non-statutory designation	Emerald site no. CH0000012 Fühli-Sörenberg-Habkern / Biogenetic reserve Laubersmadghack (Object no.9)	http://www.bafu.admin.ch/	partly

5.2.3 - IUCN protected areas categories (2008)

- Ia Strict Nature Reserve
- Ib Wilderness Area: protected area managed mainly for wilderness protection
- II National Park: protected area managed mainly for ecosystem protection and recreation
- III Natural Monument: protected area managed mainly for conservation of specific natural features
- IV Habitat/Species Management Area: protected area managed mainly for conservation through management intervention
- V Protected Landscape/Seascape: protected area managed mainly for landscape/seascape conservation and recreation

VI Managed Resource Protected Area: protected area managed mainly for the sustainable use of natural ecosystems

5.2.4 - Key conservation measures

Legal protection

Measures	Status
Legal protection	Implemented

Habitat

Measures	Status
Habitat manipulation/enhancement	Partially implemented

Human Activities

Measures	Status
Communication, education, and participation and awareness activities	Partially implemented
Regulation/management of recreational activities	Partially implemented
Harvest controls/poaching enforcement	Implemented

5.2.5 - Management planning

Is there a site-specific management plan for the site? Yes

Has a management effectiveness assessment been undertaken for the site? Yes No

If the site is a formal transboundary site as indicated in section Data and location > Site location, are there shared management planning processes with another Contracting Party? Yes No

Please indicate if a Ramsar centre, other educational or visitor facility, or an educational or visitor programme is associated with the site:

The site is part of the UNESCO Biosphäre Entlebuch. Communication, education, and participation and awareness activities, as well as educational and visitor programmes are organised in this context. Research and scientific studies are also carried out under the Unesco biosphere administration.

URL of site-related webpage (if relevant):

5.2.6 - Planning for restoration

Is there a site-specific restoration plan? Yes, there is a plan

5.2.7 - Monitoring implemented or proposed

Monitoring	Status
Plant community	Proposed

Monitored as part of the national programme: "Monitoring of the condition and development of mire biotopes and mire landscapes" (FOEN, 2010)
 Monitoring of lichens and fungi proposed.
 Several locations of the site are monitored as part the "Swiss Biodiversity Monitoring BDM" programme (FOEN).
 The effect of the regeneration / restoration of the mire biotopes, performed in 2004, is monitored.

6 - Additional material

6.1 - Additional reports and documents

6.1.1 - Bibliographical references

Reference list (pdf): See 6.1.2. vi.

6.1.2 - Additional reports and documents

i. taxonomic lists of plant and animal species occurring in the site (see section 4.3)

<1 file(s) uploaded>

ii. a detailed Ecological Character Description (ECD) (in a national format)

<no file available>

iii. a description of the site in a national or regional wetland inventory

<5 file(s) uploaded>

iv. relevant Article 3.2 reports

<no file available>

v. site management plan

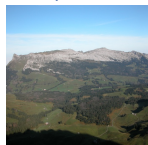
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vi. other published literature

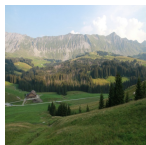
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6.1.3 - Photograph(s) of the Site

Please provide at least one photograph of the site:



Laubersmad-Salwidli: View towards the "Schrattenfluh" (Philipp Amrein, Fachleiter Jagd und Fischerei Kanton Luzern, 06-09-2006)



Laubersmad-Salwidli (Philipp Amrein, Fachleiter Jagd und Fischerei Kanton Luzern, 13-08-2015)



Laubersmad-Salwidli (Philipp Amrein, Fachleiter Jagd und Fischerei Kanton Luzern, 13-08-2015)

6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation 2005-02-02