



Ramsar Information Sheet

Published on 2 September 2024

Update version, previously published on : 1 January 1992

Germany Lake Starnberg



| | |
|------------------|-----------------------|
| Designation date | 26 February 1976 |
| Site number | 94 |
| Coordinates | 47°54'02"N 11°18'59"E |
| Area | 5 652,00 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

Starnberger See is a natural freshwater lake with intensive recreational use with its shores characterised by a high proportion of settlements and leisure facilities. It is an important leisure area for the urban area of Munich.

It is a large oligo-mesotrophic freshwater lake positioned in a glaciated valley and surrounded by end-moraine hills. The site supports areas of reedbeds, is important for breeding, resting and wintering waterbirds, and provides rare fish species and protected fish spawning areas. The area with natural shore vegetation (mainly sedges) is very limited.

2 - Data & location

2.1 - Formal data

2.1.1 - Name and address of the compiler of this RIS

Responsible compiler

| | |
|--------------------|--|
| Institution/agency | Landesamt für Umwelt Bayern |
| Postal address | Bürgermeister-Ullrich-Straße 160 86179 Augsburg |

National Ramsar Administrative Authority

| | |
|--------------------|---|
| Institution/agency | Federal Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection |
| Postal address | Division N 14 / International Matters of Biological Diversity Postfach 12 06 29 53048 Bonn Germany |

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

| | |
|-----------|------|
| From year | 2000 |
| To year | 2020 |

2.1.3 - Name of the Ramsar Site

| | |
|---|-----------------|
| Official name (in English, French or Spanish) | Lake Starnberg |
| Unofficial name (optional) | Starnberger See |

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 <input type="radio"/> No <input checked="" type="radio"/> |
| (Update) B. Changes to Site area | No change to area |
| (Update) For secretariat only: This update is an extension | <input type="checkbox"/> |

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? | No |
|--|----|

2.2 - Site location

2.2.1 - Defining the Site boundaries

b) Digital map/image
<1 file(s) uploaded>

| | |
|-------------|---|
| Former maps | 0 |
|-------------|---|

Boundaries description

Directly on the northern edge of of Lake Starnberg lies the city of Starnberg, which is located 22 kilometers southwest of the state capital Munich.
The area belongs to the natural region "Ammer-Loisach foreland".
Lake Starnberg stretches from north to south for more than 20 kilometers. The largest latitudinal extent of the area is at the level of the Karpfenwinkel near Unterzeismering with a width of almost exactly 4.8 kilometers. The village of Seeshaupt, located at the southern end of Lake Starnberg, is 20 kilometers from the morphological Alpine boundary in the south (Kocheler Berge with Benediktenwand). The entire Ramsar Site is included in the EU Natura 2000 Site "Starnberger See".

2.2.2 - General location

| | |
|--|--|
| a) In which large administrative region does the site lie? | District: Starnberg; State: Bavaria; Federal Republic of Germany |
| b) What is the nearest town or population centre? | Starnberg |

2.2.3 - For wetlands on national boundaries only

RIS for Site no. 94, Lake Starnberg, Germany

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 |
|----------------------------------|----------------------|
| EU biogeographic regionalization | Continental |

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

It is a large, 56 km² oligo-mesotrophic alpine lake in a moraine landscape, a most abounding stagnant water body in Bavaria and its second largest lake with high thermal storage capacity and great visual depth. It freezes over less frequently than other subalpine lakes. It is one of the most important examples of oligotrophic to mesotrophic lakes in Germany with a major occurrence of Caspian shemaya (*Alburnus chalcoides*) and *Coregonus spec.*

- Criterion 2 : Rare species and threatened ecological communities

- Criterion 3 : Biological diversity

Justification

Starnberger See is a large lake with great visual depth. Due to infrequent occurrence of freezing over in winter, it attracts many species of waterbirds. Furthermore the water landscape provides habitats for numerous other species such as rare fishes and submersed macrophytes.

- Criterion 4 : Support during critical life cycle stage or in adverse conditions

- Criterion 5 : >20,000 waterbirds

Overall waterbird numbers

20740

Start year

2014

End year

2020

Source of data:

international waterbird census

Optional text box to provide further information

(range: 17856-28835)

- Criterion 6 : >1% waterbird population

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

| Phylum | Scientific name | Criterion 2 | Criterion 3 | Criterion 4 | IUCN Red List | CITES Appendix I | Other status | Justification |
|--------------------------------|--------------------------------|-------------------------------------|-------------------------------------|--------------------------|---------------|--------------------------|---|--|
| Plantae | | | | | | | | |
| CHAROPHYTA/ CHAROPHYCEAE | <i>Chara aspera</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | LC | <input type="checkbox"/> | National RL 3 (VU), State RL G (endangerment supposed) | Species rich submersed vegetation |
| CHAROPHYTA/ CHAROPHYCEAE | <i>Chara tomentosa</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | National RL 3 (VU) | Species rich submersed vegetation |
| TRACHEOPHYTA/ MAGNOLIOPSIDA | <i>Myosotis rehsteineri</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EN | <input type="checkbox"/> | National and State RL 1 (CR) (2003), strictly protected | endemic to Lake Constance and Starnberg |
| TRACHEOPHYTA/ LILIOPSIDA | <i>Najas marina intermedia</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | LC | <input type="checkbox"/> | National RL 3 (VU), State RL 2 (EN) (2003) | Species rich submerge vegetation |
| CHAROPHYTA/ CHAROPHYCEAE | <i>Nitella opaca</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | National RL 3 (VU) | Species rich submersed vegetation |
| TRACHEOPHYTA/ LILIOPSIDA | <i>Potamogeton gramineus</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | LC | <input type="checkbox"/> | National & State RL 2 (EN) (2003) | Submerge macrophytes and floating leaf plants |
| TRACHEOPHYTA/ LILIOPSIDA | <i>Potamogeton praelongus</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | LC | <input type="checkbox"/> | National & State RL 2 (EN) (2003) | Submerge macrophytes and floating leaf plants |
| CHAROPHYTA/ CHAROPHYCEAE | <i>Tolypella glomerata</i> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | State RL G (endangerment supposed) | Submerge Makrophyte and Floating leaf vegetation |

referring to the State Red List 2003

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

| Phylum | Scientific 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 | | | | | | | | |
| Fish, Mollusc and Crustacea | | | | | | | | | | | | | | | | | |
| CHORDATA/ ACTINOPTERYGII | <i>Alburnus chalcoides</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | LC | <input type="checkbox"/> | <input type="checkbox"/> | National RL "very rare" | |
| Birds | | | | | | | | | | | | | | | | | |
| CHORDATA/ AVES | <i>Anas strepera</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8429 | 1999-2014 | 7 | LC | <input type="checkbox"/> | <input type="checkbox"/> | Regional RLs 2-3 (VU-EN) | Population strepera, North-west Europe; staging and wintering |
| CHORDATA/ AVES | <i>Aythya ferina</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3058 | 2014-2020 | 1.5 | VU | <input type="checkbox"/> | <input type="checkbox"/> | | staging and wintering; North-east Europe/North-west Europe |
| CHORDATA/ AVES | <i>Aythya fuligula</i> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8429 | 1999-2014 | | LC | <input type="checkbox"/> | <input type="checkbox"/> | | Population North-west Europe (win); staging and wintering |
| CHORDATA/ AVES | <i>Fulica atra</i> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 17204 | 1999-2014 | 1.1 | LC | <input type="checkbox"/> | <input type="checkbox"/> | | North-west Europe (win); taging and wintering |
| CHORDATA/ AVES | <i>Mergus merganser</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 41 | 2014-2020 | 1.2 | LC | <input type="checkbox"/> | <input type="checkbox"/> | National RL 3 (VU), State RL 2 (EN) | merganser, Central west Europe (bre); wintering |
| CHORDATA/ AVES | <i>Netta rufina</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 809 | 2014-2020 | 1.5 | LC | <input type="checkbox"/> | <input type="checkbox"/> | National RL 2 (EN), State RL 3 (VU) | staging and wintering; South-west & Central Europe/West Mediterranean |

1) Percentage of the total biogeographic population at the site

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 |
|---|--|-------------|--------------------------------------|
| Phragmitetae EU Code 7210 Calcareous fens with <i>Cladium mariscus</i> and species of the <i>Caricion davallianae</i> | <input checked="" type="checkbox"/> | | Annex I of the EU Habitats Directive |
| Charetea EU Code 3140 Oligotrophic to mesotrophic calcareous waters of all zones hosting submerse stonewort communities | <input checked="" type="checkbox"/> | | Annex I of the EU Habitats Directive |

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

4.1 - Ecological character

It is an extensive water body, largely free of vegetation; the developed shore areas are also depleted of vegetation. On some small stretches along the shore there is still vegetation typical of hydrosere areas. Other shore areas consist of silting areas with species rich calcareous fens. *Phragmites communis* is dominant, with occasionally *Schoenoplectus lacustris* and *Phalaris arundinaceus*.

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 > Lakes and pools >> O: Permanent freshwater lakes | | 1 | 5600 | Representative |
| Fresh water > Lakes and pools >> Tp: Permanent freshwater marshes/pools | | 4 | 5 | Representative |

Other non-wetland habitat

| Other non-wetland habitats within the site | Area (ha) if known |
|--|--------------------|
| island | 2.8 |

4.3 - Biological components

4.3.1 - Plant species

Invasive alien plant species

| Phylum | Scientific name | Impacts | Changes at RIS update |
|----------------------------|--|------------------------|-----------------------|
| TRACHEOPHYTA/MAGNOLIOPSIDA | <i>Fallopia multiflora ciliinervis</i> | Potential | increase |
| TRACHEOPHYTA/MAGNOLIOPSIDA | <i>Impatiens glandulifera</i> | Actual (major impacts) | increase |
| TRACHEOPHYTA/MAGNOLIOPSIDA | <i>Solidago canadensis</i> | Actual (major impacts) | increase |

4.3.2 - Animal species

Invasive alien animal species

| Phylum | Scientific name | Impacts | Changes at RIS update |
|-------------------|-----------------------------|------------------------|-----------------------|
| MOLLUSCA/BIVALVIA | <i>Dreissena polymorpha</i> | Actual (major impacts) | No change |

4.4 - Physical components

4.4.1 - Climate

| Climatic region | Subregion |
|---|---|
| C: Moist Mid-Latitude climate with mild winters | Cfb: Marine west coast (Mild with 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.

Predominately underground tributaries and Helokrenes Several small tributaries in the southern and western part of the lake
Larger river basin: Isar

4.4.3 - Soil

Mineral

(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

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 surface water | <input checked="" type="checkbox"/> | No change |
| Water inputs from groundwater | <input checked="" type="checkbox"/> | No change |

Water destination

| Presence? | Changes at RIS update |
|-------------------------|-----------------------|
| To downstream catchment | 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

4.4.6 - Water pH

Alkaline (pH>7.4)

(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

Mesotrophic

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

Unknown

Please provide further information on dissolved or suspended nutrients (optional):

The most important measure already largely accomplished is the restoration of Lake Starnberg with regard to the nutrient input. The construction of the ring sewerage in the years 1964-1976 allowed effectively keeping away effluents from the lake. In addition, the wastewater system of some of the smaller influents was improved by expanding the capacity of canalization of the adjacent districts.

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

4.5 - Ecosystem services

4.5.1 - Ecosystem services/benefits

Provisioning Services

| Ecosystem service | Examples | Importance/Extent/Significance |
|-------------------|--|--------------------------------|
| Food for humans | Sustenance for humans (e.g., fish, molluscs, grains) | Low |

Cultural Services

| Ecosystem service | Examples | Importance/Extent/Significance |
|-----------------------------|---|--------------------------------|
| Recreation and tourism | Recreational hunting and fishing | High |
| Recreation and tourism | Picnics, outings, touring | High |
| Recreation and tourism | Water sports and activities | High |
| Recreation and tourism | Nature observation and nature-based tourism | High |
| Spiritual and inspirational | Inspiration | Medium |
| Spiritual and inspirational | Cultural heritage (historical and archaeological) | High |
| Spiritual and inspirational | Contemporary cultural significance, including for arts and creative inspiration, and including existence values | High |
| Spiritual and inspirational | Aesthetic and sense of place values | High |
| Scientific and educational | Type location for a taxon | Medium |
| Scientific and educational | Educational activities and opportunities | Medium |
| Scientific and educational | Important knowledge systems, importance for research (scientific reference area or site) | Medium |
| Scientific and educational | Long-term monitoring site | 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 |

Other ecosystem service(s) not included above:

Particular importance as local and regional leisure area. Important recreational area for the large city of Munich. Three large leisure complexes. Also important water body for fishing.

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

Public ownership

| Category | Within the Ramsar Site | In the surrounding area |
|------------------------------------|-------------------------------------|--------------------------|
| Provincial/region/state government | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Other

| Category | Within the Ramsar Site | In the surrounding area |
|-----------------------------|--------------------------|-------------------------------------|
| Unspecified mixed ownership | <input 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:

-Landesbund für Vogelschutz in Bayern e.V. (LBV) Gebietsbetreuung Starnberger See
-District of Starnberg, Landratsamt Starnberg, Untere Naturschutzbehörde

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

-Dr. Andrea Gehroid -Herr Peter Drefahl (drefahl.umwelt@lra-starnberg.de)

Postal address:

-Landsberger Str. 57, 82266 Inning-Stegen
-Strandbadstr. 2, 82319 Starnberg

E-mail address:

starnbergersee@lbv.de

5.2 - Ecological character threats and responses (Management)

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

Human settlements (non agricultural)

| Factors adversely affecting site | Actual threat | Potential threat | Within the site | Changes | In the surrounding area | Changes |
|----------------------------------|---------------|------------------|-------------------------------------|-----------|-------------------------------------|----------|
| Housing and urban areas | High impact | | <input type="checkbox"/> | No change | <input checked="" type="checkbox"/> | increase |
| Tourism and recreation areas | High impact | | <input checked="" type="checkbox"/> | increase | <input checked="" type="checkbox"/> | increase |
| Unspecified development | High impact | | <input type="checkbox"/> | increase | <input checked="" type="checkbox"/> | increase |

Water regulation

| Factors adversely affecting site | Actual threat | Potential threat | Within the site | Changes | In the surrounding area | Changes |
|----------------------------------|---------------|------------------|--------------------------|-----------|-------------------------------------|-----------|
| Drainage | Medium impact | | <input type="checkbox"/> | No change | <input checked="" type="checkbox"/> | No change |

Agriculture and aquaculture

| Factors adversely affecting site | Actual threat | Potential threat | Within the site | Changes | In the surrounding area | Changes |
|---------------------------------------|---------------|------------------|--------------------------|-----------|-------------------------------------|----------|
| Annual and perennial non-timber crops | Medium impact | | <input type="checkbox"/> | No change | <input checked="" type="checkbox"/> | increase |
| Non specified | Medium impact | | <input type="checkbox"/> | No change | <input checked="" type="checkbox"/> | increase |

Biological resource use

| Factors adversely affecting site | Actual threat | Potential threat | Within the site | Changes | In the surrounding area | Changes |
|--|---------------|------------------|-------------------------------------|-----------|-------------------------------------|-----------|
| Hunting and collecting terrestrial animals | Medium impact | | <input checked="" type="checkbox"/> | No change | <input checked="" type="checkbox"/> | No change |
| Fishing and harvesting aquatic resources | Medium impact | | <input checked="" type="checkbox"/> | increase | <input type="checkbox"/> | No change |

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 | High impact | | <input checked="" type="checkbox"/> | increase | <input checked="" type="checkbox"/> | increase |

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 | Medium impact | | <input checked="" type="checkbox"/> | increase | <input checked="" type="checkbox"/> | No change |

Pollution

| Factors adversely affecting site | Actual threat | Potential threat | Within the site | Changes | In the surrounding area | Changes |
|-------------------------------------|---------------|------------------|-------------------------------------|----------|-------------------------------------|----------|
| Agricultural and forestry effluents | Medium impact | | <input checked="" type="checkbox"/> | increase | <input checked="" type="checkbox"/> | increase |
| Air-borne pollutants | Medium impact | | <input checked="" type="checkbox"/> | increase | <input checked="" type="checkbox"/> | increase |

Please describe any other threats (optional):

Pressure on the whole lake and surroundings from massive recreational use, especially at weekends. The shore areas are the worst affected and suffer, for example, threats and damage to the last remaining reed beds on the shore through leisure activities (boating and surfing) and through waves (boat traffic). This disturbance also affects animals in the reed bed areas (mainly birds).'

5.2.2 - Legal conservation status

Regional (international) legal designations

| Designation type | Name of area | Online information url | Overlap with Ramsar Site |
|------------------|--|------------------------|--------------------------|
| EU Natura 2000 | {Starnberger See 8133-371}{Starnberger See 8133-401} | | whole |

National legal designations

| Designation type | Name of area | Online information url | Overlap with Ramsar Site |
|-------------------|---|------------------------|--------------------------|
| landscape reserve | Starnberger See and western shore areas | | partly |
| nature reserve | Karpfenwinkel | | 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 |
|------------------------------|-------------|
| Improvement of water quality | Implemented |

Species

| Measures | Status |
|---|-------------|
| Threatened/rare species management programmes | Implemented |

Human Activities

| Measures | Status |
|--|-----------------------|
| Regulation/management of wastes | Implemented |
| Fisheries management/regulation | Implemented |
| Communication, education, and participation and awareness activities | Partially implemented |
| Research | Partially implemented |

Other:

Access is restricted, localized fishing is temporarily restricted. There are 6 spawn protection sites for fish, which are legally protected from any access between 15 March and 30 September.

5.2.5 - Management planning

Is there a site-specific management plan for the site? No

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

URL of site-related webpage (if relevant):

5.2.6 - Planning for restoration

Is there a site-specific restoration plan? No need identified

5.2.7 - Monitoring implemented or proposed

| Monitoring | Status |
|---------------|-------------|
| Water quality | Implemented |
| Birds | Implemented |

6 - Additional material

6.1 - Additional reports and documents

6.1.1 - Bibliographical references

Bayerisches Landesamt für Umweltschutz (2000); Artenschutz-Kartierung (Datenbank-Auszug)

Bär, U. & F. Jochums (1997); Zur Situation der Flußseeschwalbe *Sterna hirundo* in Bayern 1992 bis 1996.; Ornithologischer Anzeiger; 36; 177-184

LfU-Wasservogelzählung; Internat. WVZ Bayern, Datenbestand 2014-2019 der Vogelschutzwarte GAP Ref. 5/5; unveröff. Mskr.

Bayerische Landesanstalt für Fischerei (1999); Fischartenkartierung Bayern (1989-1995)

Bayerisches Landesamt für Umweltschutz (1986-1999); Fortführung der Biotopkartierung in Bayern

Kuhn, K. & K. Burbach (1998); Libellen in Bayern; 311; E. Ulmer; Stuttgart

Quinger, B. (1995); Umsetzungsprojekt "Quellmoore in Oberbayern"; Gutachten i. A. d. Reg. Obb., unveröff.; 68-73

Quinger, B. (1999); Begehungen des Abgrenzungsgebietes "Starnberger See-Ostufer" im August 1999 (2 Begehungen)

Quinger, B. (1999); Begehungen des Abgrenzungsgebietes "Uferbereiche des Starnberger Sees und Quellmoore bei Seeseiten" im Juli und August 1999 (3 Begehungen)

Quinger, B. (2002); Schriftliche Mitteilungen

Wißmath, Fachberatung für Fischerei des Bezirks Oberbayern (2003); Gewässerentwicklungsplan Starnberger See

Müller, A., Lange, A. & Pilstl, F. (1989); Der Starnberger See als Rast- und Ueberwinterungsgewässer für See- und Lappentaucher (Teil I). Anz. orn. Ges. Bayern 28: 85-115. (Starnberger See as resting and wintering area for *Podiceps* spp. and *Gavia* spp. part I)

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Management Plan Teil I-III für das FFH-Gebiet (2024). accessible at: https://www.regierung.oberbayern.bayern.de/mam/dokumente/bereich5/sg51/natura2000/mpl-entwuefe/de80331371_t_mt_ffin_nfin.pdf

6.1.2 - Additional reports and documents

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

<no file available>

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

<no file available>

iv. relevant Article 3.2 reports

<no file available>

v. site management plan

<no file available>

vi. other published literature

<1 file(s) uploaded>

6.1.3 - Photograph(s) of the Site

Please provide at least one photograph of the site:



Resting birds round the Roseninsel in the northern part of lake Starnberg (LFU, Anette Saitner, 25-10-2007)



Northern part of lake Starnberg (Daten aus dem Bayerischen Fachinformationssystem Naturschutz (FIS-Natur) „Geobasisdaten: © Bayerische Vermessungsverwalt., 04-06-2015)



Southern part of lake Starnberg (Daten aus dem Bayerischen Fachinformationssystem Naturschutz (FIS-Natur) „Geobasisdaten: © Bayerische Vermessungsverwalt., 04-06-2015)

6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation