



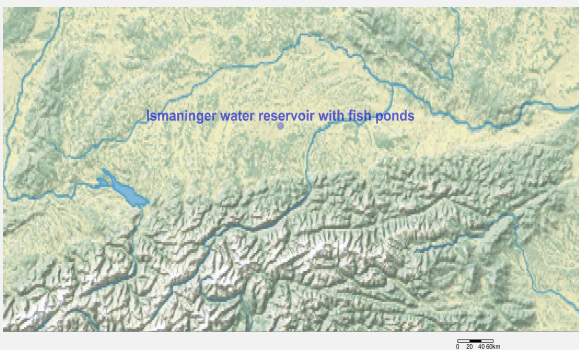
Ramsar Information Sheet

Published on 6 October 2023

Update version, previously published on : 1 January 1992

Germany

Ismaninger water reservoir with fish ponds



Designation date	26 February 1976
Site number	92
Coordinates	48°12'49"N 11°44'28"E
Area	986,00 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 is located ca. 15 km northwest of the Bavarian capital and consists of a former fishpond area designed for the biological treatment of waste water of Munich and a large reservoir. The artificial reservoir was formed by the damming the "Isar channel". The 30 adjacent fishponds were originally used for carp breeding. The site is surrounded by agricultural land. The water in the complex is a mixture of water from the Isar River and waste water. The water depth in the reservoir is ca. 2 m, in the fish ponds ca. 1 m.

The Site supports breeding birds and is internationally important for moulting and wintering water birds. The banks of the reservoir are mostly without vegetation, although part of the southern shoreline is composed of a succession from reedbeds to woodland. The ponds are eutrophic and contain extensive reed belts. The pond area is private property therefore it is free from human disturbances.

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	International Cooperation on Biodiversity Ramsar Focal Point Germany Federal
Postal address	Stresemannstraße 128 - 130, 10117 Berlin, Germany

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

From year	2000
To year	2019

2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)	Ismaninger water reservoir with fish ponds
Unofficial name (optional)	Ismaninger Speichersee mit Fischteichen

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 <input checked="" type="radio"/>
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2.2 - Site location

2.2.1 - Defining the Site boundaries

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

Former maps	0
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Boundaries description

The Ramsar site is located about 4 km east of the town of Ismaning and the river Isar. Between the ponds and the reservoir runs the Mittlere Isar, a canal, which comes from the Isar and runs to the east before it returns to the Isar further north near Landshut. The EU Natura 2000 site 7736-372 "NSG südlich der Ismaninger Fischteiche" borders in the south, which is part of the SPA site 7736-471 "Ismaninger Speichersee und Fischteiche".

2.2.2 - General location

a) In which large administrative region does the site lie?	District: Munich, Erding, Ebersberg; State: Bavaria; Federal Republic of Germany
b) What is the nearest town or population centre?	Ismaning

2.2.3 - For wetlands on national boundaries only

a) Does the wetland extend onto the territory of one or more other countries?	Yes <input type="radio"/> No <input checked="" type="radio"/>
b) Is the site adjacent to another designated Ramsar Site on the territory of another Contracting Party?	Yes <input type="radio"/> No <input checked="" type="radio"/>

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

Hydrological services provided	Biological waste water treatment
Other reasons	<p>With a surface area of more than six square kilometers, it is one of the biggest reservoirs in Bavaria. The about 7 km long lake was constructed in 1929 for water-regulation of the hydropower plants on the Middle-Isar channel and the natural secondary waste water cleaning system for the City of Munich, containing of around 30 former fish ponds. As a result, the total bank length makes 82 km.</p> <p>Primary importance as one of the three largest European moulting sites in the summer period from June to August. The Site is significant as one of the most important wintering areas for waterfowl in Southern Germany and extremely important as breeding area for rare water and reed birds.</p>

- Criterion 2 : Rare species and threatened ecological communities

- Criterion 3 : Biological diversity

Justification	The reservoir with numerous associated former fish ponds has developed to a refugium for birds, especially for moulting and also for breeding. Rare species colonize the habitat.
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- Criterion 4 : Support during critical life cycle stage or in adverse conditions

- Criterion 5 : >20,000 waterbirds

Overall waterbird numbers	see textbox below
Start year	2014
End year	2019
Source of data:	International Waterbird Census
Optional text box to provide further information	<p>Maximum number of moulting birds per day in 2002-2008 (summer period June–August): range: 44941 – 53113 Overall waterbird numbers: mean maximum number of overwintering birds: 23238 range: 9137-40627</p> <p>Mean Maximum number of moulting birds in 2014 – 2019 (September): 29263.</p> <p>Mean number of wintering birds in 2014 – 2019 (December-January): 31977.</p>

- Criterion 6 : >1% waterbird population

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

<no data available>

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								
Others																	
CHORDATA / AMPHIBIA	<i>Hyla arborea</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"/>	RL Bay 2	
CHORDATA / AMPHIBIA	<i>Triturus cristatus</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"/>		2004		LC	<input type="checkbox"/>	<input type="checkbox"/>	RL Bay 2	rare
Birds																	
CHORDATA / AVES	<i>Anas querquedula</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	RL Bay 1	Moulting breeding
CHORDATA / AVES	<i>Anas strepera</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7059	2014-2019	5.9		<input type="checkbox"/>	<input type="checkbox"/>		Moulting; strepera, North-west Europe
CHORDATA / AVES	<i>Aythya ferina</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4252	2014-2019	2.1	WU	<input type="checkbox"/>	<input type="checkbox"/>		Moulting; North-east Europe/North-west Europe
CHORDATA / AVES	<i>Aythya fuligula</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13615	1999-2014	1.5	LC	<input type="checkbox"/>	<input type="checkbox"/>		Moulting North-west Europe (win)
CHORDATA / AVES	<i>Netta rufina</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3427	2014-2019	6.2	LC	<input type="checkbox"/>	<input type="checkbox"/>		Moulting South-west & Central Europe/West Mediterranean
CHORDATA / AVES	<i>Podiceps nigricollis</i>	<input checked="" type="checkbox"/>	<input checked="" 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"/>	RL Bay 1	Moulting breeding

1) Percentage of the total biogeographic population at the site

breeding area for waterbirds + staging area for migratory waterbird species + waterbird wintering/non-breeding/dry season area

RL Bay 1: Bavarian red list: critically endangered
 RL Bay 2: Bavarian red list: endangered
 RL Bay 3: Bavarian red list: vulnerable
 RL Bay V: Bavarian red list: near threatened

RL D: German red list

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

<no data available>

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

4.1 - Ecological character

The reservoir and the fish ponds are surrounded by high dams covered with woods. The banks of the reservoir are mostly depleted of vegetation. On the south-bank however, an area in hydro-seral succession has formed, which includes diverse vegetation types, including reeds and woods in narrow succession. Draining of the fish ponds releases mudflats which are used by waders.

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		Representative
Fresh water > Lakes and pools >> Tp: Permanent freshwater marshes/pools		2		Representative
Fresh water > Marshes on inorganic soils >> W: Shrub-dominated wetlands		3		Representative

Human-made wetlands

Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type
1: Aquaculture ponds		2	
6: Water storage areas/Reservoirs		1	
8: Wastewater treatment areas		3	

4.3 - Biological components

4.3.1 - Plant species

<no data available>

4.3.2 - Animal species

<no data available>

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.

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 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

Please add any comments on the water regime and its determinants (if relevant). Use this box to explain sites with complex hydrology.

Maintenance of water quality (removal of nutrients)

4.4.5 - Sediment regime

Significant accretion or deposition of sediments occurs on the site

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

Significant transportation of sediments occurs on or through the site

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

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

Eutrophic

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

Mesotrophic

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

Oligotrophic

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

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

4.5 - Ecosystem services

4.5.1 - Ecosystem services/benefits

Provisioning Services

Ecosystem service	Examples	Importance/Extent/Significance
Fresh water	Water for energy production (hydro-electricity)	not relevant for site

Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Recreation and tourism	Recreational hunting and fishing	Medium
Recreation and tourism	Nature observation and nature-based tourism	Medium
Scientific and educational	Long-term monitoring site	High

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 checked="" type="checkbox"/>
Local authority, municipality, (sub)district, etc.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Other public ownership	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Private ownership

Category	Within the Ramsar Site	In the surrounding area
Commercial (company)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Other types of private/individual owner(s)	<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:

1) Landesbund für Vogelschutz in Bayern (LBV) e. V. Landesgeschäftsstelle
2) Landratsamt München, Sachgebiet 6.3 - Naturschutz, Forstrecht und Landwirtschaftsrecht

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

Karin Haas, Dipl. Biologin (k-haas@lbv.de)

Postal address:

1) Eisvogelweg 1, 91161 Hilpoltstein
2) Mariahilfplatz 17, 81541 München

E-mail address:

naturschutz@lra-m.bayern.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
Commercial and industrial areas	unknown impact	unknown impact	<input type="checkbox"/>	unknown	<input checked="" type="checkbox"/>	No change
Housing and urban areas	Medium impact		<input checked="" type="checkbox"/>	No change	<input type="checkbox"/>	No change

Water regulation

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

Energy production and mining

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

Biological resource use

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

Pollution

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Unspecified			<input type="checkbox"/>		<input checked="" type="checkbox"/>	
Household sewage, urban waste water	Medium impact		<input checked="" type="checkbox"/>	No change	<input type="checkbox"/>	No change
Agricultural and forestry effluents	Medium impact		<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change
Air-borne pollutants	Medium impact		<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change

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	Ismaninger Speichersee und Fischteiche 7736-471		whole

National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
nature reserve	Vogelfreistätte südlich der Fischteiche der Mittleren Isar		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

Human Activities

Measures	Status
Research	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

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
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)
 LfU, Vogelschutzwarte GAP Ref. 5/5 (2020); Datenbestand 2014-2019; unveröff.
 LfU-Wasservogelzählung; Internat. WVZ Bayern, Datenbestand 2014-2019 der
 Vogelschutzwarte GAP Ref. 5/5; unveröff. Mskr.
 Lossow, G. v. (2000); Arbeitsatlas zum Brutvogelatlas 2000.; unveröff. Mskr.
 Pfister, H.& H. Rennau (1999); Das Europareservat Ismaninger Teichgebiet. 39. Bericht: 1994-1997.; Ornithologischer Anzeiger; 38; 73-106
 ZWF/DDA (1993); Die Feuchtgebiete internationaler Bedeutung in der BRD.; Biolog. Station Rieselfelder Münster

Köhler, P. (1991): Mauserzug, Schwingenmauser, Paarbildung und Wegzug der Schnatterente *Anas strepera* im Ismaninger Teichgebiet. Orn. Anz. 30: 115-149. (Moult migration, Wing Molt, pairing and disappearance of *Anas strepera* in Ismaninger pond area).
 Köhler U, Köhler P (2009a) Saisonale Dynamik und Bestandsentwicklung von mausernden Wasservögeln am "Ismaninger Speichersee mit Fischteichen". Ornithologischer Anzeiger 48: 205-240.
 Köhler U, Köhler P (2009b) Bewertung des "Ismaninger Speichersee mit Fischteichen" 2002-2008 nach Ramsar- und IBA-Kriterien. - Ornithologischer Anzeiger 48: 241-247.
 Krosigk E v (1980) Europa-Reservat Ismaninger Teichgebiet, 33. Bericht: 1977-1979; Anzeiger der Ornithologischen Gesellschaft Bayern 19, 75-106
 - (1983) Europa-Reservat Ismaninger Teichgebiet, 34. Bericht: 1980-1982; Anzeiger der Ornithologischen Gesellschaft Bayern 22, 1-36
 - (1985) Europa-Reservat Ismaninger Teichgebiet, 35. Bericht: 1983-1984; Anzeiger der Ornithologischen Gesellschaft Bayern 24, 1-38
 - (1989) Europa-Reservat Ismaninger Teichgebiet, 36. Bericht: 1985-1987; Anzeiger der Ornithologischen Gesellschaft Bayern 27, 173-225
 - (1992) Europa-Reservat Ismaninger Teichgebiet, 37. Bericht: 1988-1991; Ornithologischer Anzeiger 31, 97-135

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

<1 file(s) uploaded>

vi. other published literature

<no file available>

6.1.3 - Photograph(s) of the Site

Please provide at least one photograph of the site:



Ismaninger Speichersee with fishponds (Daten aus dem Bayerischen Fachinformationssystem Naturschutz (FIS-Natur) „Geobasisdaten: © Bayerische Vermessungsverwaltung, 10-07-2015)



A bird's eye view of the Ismaning Reservoir and former fish ponds: one-third of 30 large ponds on the left and the reservoir on the right. In between is the channel of the Mittlere Isar and the pond outflow channel. (Karin Haas, Sudermannstr. 4, 86179 Augsburg, 0821-3433533, karin.haas@lv.de, 25-07-2022)



July in Ismaning: Large numbers of moulting waterbirds, here mainly gadwall and red-crested pochard. (Karin Haas, Sudermannstr. 4, 86179 Augsburg, 0821-3433533, karin.haas@lv.de, 15-07-2019)

6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation 1976-02-26