

# Eisbericht Nr. 53

## Amtsblatt des BSH

Jahrgang 95

Nr. 53

Thursday, 10.02.2022

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### Übersicht

In den Schären der Bottenwiek liegt im Norden 40–60 cm dickes Festeis und im Süden 20–55 cm dickes Festeis. Außerhalb des Festeises liegt aufgeschobenes, sehr dichtes Eis und entlang der finnischen Küste kommt zumeist lockeres Eis vor. Auf See treibt in der zentralen Bottenwiek im Norden 20–50 cm dickes, sehr dichtes, aufgepresstes Eis und im Süden 5–35 cm dickes, sehr dichtes Eis. In Norra Kvarken liegt in den Schären bis zu 55 cm dickes Festeis und auf See treibt im Norden lockeres Eis. Entlang der Küsten und in den Schären der Bottensee, dem Schärenmeer und der Ålandsee liegt Festeis oder dünnes ebenes Eis und Neueis. Im Finnischen Meerbusen liegt entlang der Nordküste und im Osten bis 40 cm dickes Festeis, östlich von etwa 27°15'E treibt auf See im Norden meist sehr dichtes, 10–30 cm dickes Eis und im Süden lockeres bis sehr lockeres Eis. Im Rigaischen Meerbusen befindet sich bis zu 25 cm dickes Eis im Moonsund und in der Pärnubucht. Dünnes, teilweise ebenes Eis kommt örtlich in der nördlichen Ostsee, dem Vänern und der südöstlichen Ostsee vor. Dünnes Eis kommt in geschützten Buchten der zentralen Ostsee vor. In einigen inneren Fjorden des Skagerraks liegt dünnes Eis oder Festeis.

### Overview

In the archipelagos of the Bay of Bothnia, there is 40–60 cm thick fast ice in the north and 20–55 cm thick fast ice in the south. Off the fast ice, there is rafted very close ice and in the east, there is mostly open ice. In the central part, there is very close, 20–50 cm thick, ridged ice in the north and 5–35 cm thick, very close ice in the south. In Norra Kvarken, there is up to 55 cm thick fast ice in the archipelagos, and open ice at sea in the north. Along the coasts and archipelagos of the Sea of Bothnia, the Archipelago Sea and Åland Sea, there is fast ice or thin level ice and new ice. In the Gulf of Finland, there is up to 40 cm thick fast ice along the northern and eastern coast. At sea east of about 27°15'E, there is mostly very close, 10–30 cm thick ice in the north, and open to very open ice in the south. In the Gulf of Riga, there is up to 25 cm thick ice in Moonsund and Pärnu Bay. Thin ice and thin level ice occurs at places in the northern Baltic, Lake Vänern and the southeastern Baltic. Thin ice occurs in sheltered areas of the central Baltic. Fast ice or thin ice is present in some inner fjords of the Skagerrak.

### Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 40–60 cm thick fast ice, from the Finnish coast reaching out to Kemi-3, Oulu-2 and Johan. Off the fast ice in the east, there is 20–50 cm thick consolidated ice to Kemi-2 and Oulu-1. Further off there is very close, rafted ice, 10–25 cm thick in

the north and northeast. In the west, there is very close, rafted ice, 10–20 cm thick. In the central part there is an area around 23°E 65°15'N of very close ice with large, partly ridged floes, 20–50 cm thick. In the southern Bay of Bothnia, there is 20–40 cm thick fast ice along the Swedish coast and 25–55

#### Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

[www.bsh.de/eis](http://www.bsh.de/eis)

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cm thick fast ice in the eastern archipelagos. From Raahe lighthouse to Kokkola there is a narrow lead with thin ice, further out 5-25cm thick open ice. At sea, there is mostly very close 10–35 cm thick ice and 5-25cm thick open ice in the southernmost part. Off the Swedish coast, there is an area with

### Norra Kvarken

In the archipelagoes off Vaasa, there is 25–55 cm thick fast ice to Ensten; further out to Norra Globsten there is 10–30 cm thick, very close ice. Along the Swedish coast, there is 20–40 cm thick fast ice in the archipelagos and open ice further out. Be-

### Sea of Bothnia

On Ångermanälven, there is 20–50 cm thick fast ice in the upper part and 20–35 cm fast or level ice in the lower part. In the bays along the western coast, there is 10–35 cm thick fast ice or new ice. Further out in the south, there is very open ice, and

### Archipelago and Åland Sea

10–30 cm thick ice and new ice is present in inner archipelagos of the coasts and around the Åland islands. In the outer archipelago at the eastern

### Gulf of Finland

From St. Petersburg up to the longitude of Tolbuchin lighthouse, there is 30–40 cm thick fast ice. In the Bay of Vyborg and the Bjerkesund, there is 25–35 cm fast ice. At sea north of about 60° N and east of about 27°15' E, there is mostly very close, 15–30 cm thick ice. South of 60° N and east of about 27°40' E, there is mostly open water and very open to open, 10–20 cm thick ice. In the archipelagos of the northern coast, there is fast ice,

### Gulf of Riga

In Moonsund, there is 10–20 cm thick fast ice near the coasts, and on the fairways, there is very open ice. In Pärnu Bay, there is 15–25 cm thick fast or very close ice to Kihnu. Along the south coast of

### Northern Baltic

In Lake Mälaren, there is 5–30 cm thick fast ice or level ice in the western part, and further east, there is mostly thin level or new ice. Along the Swedish

### Central Baltic

Thin open ice or new ice occurs in sheltered bays along the Swedish coast.

### Southeastern Baltic

In the Curonian Lagoon, there very close, 5–15 cm thick ice along the coast in the eastern part.

### Skagerrak and Kattegat

In some inner fjords of the Skagerrak, there is open water and also up to 30 cm thick is fast ice at

open water northeast of Bjuröklubb, extending also further south as narrow lead.

The ice formation will continue at a low, but accelerating pace and the ice drift will veer from northeast to southeast.

tween the mainland and Holmöarna, there is mostly very close, 5–30 cm thick ice. At sea in the north, there is mainly open ice, 5–25 cm thick.

The ice drift will veer from northeast to southeast with a concurrent begin of new ice formation.

in the north, there is open water or open ice. Along the eastern coast, there is 10–30 cm fast ice in the inner archipelagos and thin close ice further out.

No larger changes but an easterly/southeasterly ice drift is expected.

coast, there is mainly open water.

No larger changes, with a general eastward ice drift, are expected.

5–30 cm thick in the west and 20–40 cm thick in the east. In Luga Bay, there is fast ice near the coast and 15–20 cm thick, very open ice further out. In Narva Bay, there is a narrow band of fast ice near the coast north of Narva, followed by a band of very close ice further out. Ice formation will begin and strengthen in the eastern part and the ice will drift towards the northeast/east.

Saaremaa, there is open drift ice.

The ice drift will be to the east, but overall no larger changes are expected.

coast, there is new ice or thin open ice in sheltered bays.

No larger changes are expected.

No larger changes are expected.

Some ice melt is expected.

a few places.

No larger changes are expected.

**Swedish Lakes**

In Lake Vänern, there is 5–20cm thick fast ice or new ice in bays of the northern coast. No larger changes are expected.

Dr. J. Holfort

**Restrictions to Navigation**

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
<b>Estonia</b>	Pärnu	1600 kW	1C	17.12.
<b>Finland</b>	Tornio, Kemi and Oulu	2000/4000 dwt	IA Super(5000kW)/IA	09.02.
	Raahe	2000 dwt	IA	16.01.
	Kokkola, Kalajoki, Pietarsaari and Vaasa	2000 dwt	IA	01.02.
	Kristiinankaupunki, Pori, Rauma, Uusikaupunki, Naantali, Turku, Koverhar, Lappohja, Helsinki and Sköldvik	2000 dwt	II	01.01.
	Kaskinen, Taalintehdas, Förby, Inkoo, Kantvik	2000 dwt	I	16.01.
	Loviisa and Kotka	2000 dwt	I	04.01.
	Hamina	2000 dwt	I	01.01.
	Mussalo	2000 dwt	II	25.12.
<b>Russia</b>	Vyborg	-	Ice 1	30.12.
	Vysotsk	-	Ice 2	14.01.
	Primorsk	-	Ice 2	27.01.
	Ust-Luga	-	Ice 1	04.01.
	St. Petersburg	-	required	31.12.
<b>Sweden</b>	Karlsborg and Luleå	2000 dwt	IA	08.02.
	Haraholmen and Skelleftehamn	2000 dwt	IB	06.01.
	Holmsund, Rundvik and Husum	2000 dwt	IC	15.01.
	Örnsköldsvik	2000 dwt	IC	15.01.
	Ångermanälven	2000 dwt	IB	06.01.
	Härnösand - Skutskär	2000 dwt	II	22.12.
	Köping and Västerås	2000 dwt	IC	27.12.
	Bålsta	1300/2000 dwt	IC/II	27.12.

**Information of the Icebreaker Services****Estonia**

**Icebreaker:** EVA-316 assists to the port of Pärnu.

**Finland/Sweden**

The Saimaa Canal is closed for traffic from 30th of January.

The traffic separation schemes in the Quark are temporarily out of use from 15 January 2022.

Vessels bound for Gulf of Bothnia ports in which assistance restrictions apply, shall when passing latitude 60° 00' N report their nationality, name, destination, ETA and speed to ICE INFO on VHF channel 78. This report can also be given directly by telephone to +46 10 492 7600.

Vessels bound for Finnish or Swedish ports with assistance restrictions in the Quark or the Bay of Bothnia shall, 20 nautical miles before Nordvalen Lighthouse (63° 32.15' N 20° 46.60' E), report in accordance with the instructions for winter navigation to Bothnia VTS on VHF channel 67.

**Icebreakers:**

OTSO, KONTIO, URHO, POLARIS, FREJ, SISU, ALE, ODEN and YMER assist in the Bay of Bothnia. ATLE and ZEUS assist in the Quark, VOIMA in the eastern Gulf of Finland.

**Norway**

Husøysund, Tønsberg indre havn and Vestfjorden (Tønsberg): Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size. (28.12.21)

Hellefjorden (Kragerø): Navigation temporarily closed. (10.01.22)

**Russia**

There are restrictions for small crafts going to Vysotsk, Vyborg, St. Petersburg, Ust-Luga and Primorsk.

**Icebreakers:** Several icebreakers assist vessels to the port of Vyborg, Vysotsk, Primorsk, Ust-Luga and St. Petersburg.

**Baltic Sea Ice Code**

<p>First number:</p> <p><b>A<sub>B</sub> Amount and arrangements of sea ice</b></p> <p>0 Ice free</p> <p>1 Open water – concentration less than 1/10</p> <p>2 Very open ice - concentration 1/10 to 3/10</p> <p>3 Open ice – concentration 4/10 to 6/10</p> <p>4 Close ice – concentration 7/10 to 8/10</p> <p>5 Very close ice – concentration 9/10 to 9+/10</p> <p>6 Compact ice, including consolidated ice – concentration 10/10</p> <p>7 Fast ice with drift ice outside</p> <p>8 Fast ice</p> <p>9 Lead in very close or compact drift ice or along the fast ice edge</p> <p>/ Unable to report</p> <p>Third number:</p> <p><b>T<sub>B</sub> Topography or form of ice</b></p> <p>0 Pancake ice, ice cakes, brash ice – less than 20 m across</p> <p>1 Small ice floes – 20 to 100 m across</p> <p>2 Medium ice floes – 100 to 500 m</p> <p>3 Big ice floes – 500 to 2000 m across</p> <p>4 Vast or giant ice floes – more than 2000 m across – or level ice</p> <p>5 Rafted ice</p> <p>6 Compact slush or shuga, or compacted brash ice</p> <p>7 Hummocked or ridged ice</p> <p>8 Thaw holes or many puddles on the ice</p> <p>9 Rotten ice</p> <p>/ No information or unable to report</p>	<p>Second number:</p> <p><b>S<sub>B</sub> Stage of ice development</b></p> <p>0 New ice or dark nilas (less than 5 cm thick)</p> <p>1 Light nilas (5 - 10 cm thick) or ice rind</p> <p>2 Grey ice (10 - 15 cm thick)</p> <p>3 Grey-white ice (15 - 30 cm thick)</p> <p>4 White ice, first stage (30 - 50 cm thick)</p> <p>5 White ice, second stage (50 - 70 cm thick)</p> <p>6 Medium first year ice (70 - 120 cm thick)</p> <p>7 Ice predominantly thinner than 15 cm with some thicker ice</p> <p>8 Ice predominantly grey-white ice (15 – 30 cm) with some thicker ice</p> <p>9 Ice predominantly thicker than 30 cm with some thinner ice</p> <p>/ No information or unable to report</p> <p>Fourth number:</p> <p><b>K<sub>B</sub> Navigation conditions in ice</b></p> <p>0 Navigation unobscured</p> <p>1 Navigation difficult or dangerous for wooden vessels without ice sheathing</p> <p>2 Navigation difficult for unstrengthened or low-powered vessels built of iron or steel. Navigation for wooden vessels even with ice sheathing not advisable</p> <p>3 Navigation without icebreaker assistance possible only for high-powered vessels of strong construction and suitable for navigation in ice</p> <p>4 Navigation proceeds in lead or broken ice-channel without the assistance of an icebreaker</p> <p>5 Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size</p> <p>6 Icebreaker assistance can only be given to vessels of special ice class and of special size</p> <p>7 Icebreaker assistance can only be given to vessels after special permission</p> <p>8 Navigation temporarily closed</p> <p>9 Navigation has ceased</p> <p>/ Unknown</p>
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**Estland , 10.02.2022**

Narva-Jõesuu, Fahrwasser	3//0
Pärnu, Hafen und Bucht	73/5
Pärnu – Irbenstraße, Fahrwasser	1//0
Moonsund	32/2

**Finnland , 10.02.2022**

Röyttä – Etukari	8446
Etukari – Ristinmatala	8846
Ajos – Ristinmatala	8846
Ristinmatala – Kemi 2	6876
Kemi 2 – Kemi 1	5756
Kemi 1, Seegebiet im SW	5756
Kemi 2 – Ulkokrunni – Virpiniemi	8446
Oulu, Hafen – Kattilankalla	8446
Kattilankalla – Oulu 1	6876

Oulu 1, Seegebiet im SW	4746
Offene See N-lich Breite Marjaniemi	5756
Raahe, Hafen – Heikinkari	8346
Heikinkari – Raahe Leuchtturm	4746
Raahe Leuchtturm – Nahkiainen	4746
Breitengrad Marjaniemi – Ulkokalla, See	5876
Rahja, Hafen – Välimatala	6366
Välimatala bis Linie Ulkokalla – Ykskivi	4746
Breitengrad Ulkokalla – Pietarsaari, See	5346
Ykspihlaja – Repskär	8846
Repskär – Kokkola Leuchtturm	6366
Kokkola Leuchtturm, See außerhalb	4746
Pietarsaari – Kallan	7846
Kallan, Seegebiet außerhalb	4746
Breite Pietarsaari – Nordvalen im NE	3726
Nordvalen, Seegebiet im ENE	3716

Nordvalen – Norrskär, See im W	0//6	Björnklack – Farstugrunden	5476
Vaskiluoto – Ensten	8446	Farstugrunden, See im E und SE	5476
Ensten – Vaasa Leuchtturm	5746	Sandgrönn Fahrwasser	8446
Vaasa Leuchtturm – Norrskär	0//6	Rödkallen – Norströmsgrund	5356
Kaskinen – Sälgrund	5746	Haraholmen – Nygrån	8446
Sälgrund, Seegebiet außerhalb	4246	Nygrån, Seegebiet außerhalb	5356
Pori – Linie Pori Leuchtturm – Säppi	4145	Skelleftehamn – Gåsören	5256
Rauma, Hafen – Kylmäpihlaja	7745	Gåsören, Seegebiet außerhalb	5256
Kylmäpihlaja – Rauma Leuchtturm	4145	Bjuröklubb, Seegebiet außerhalb	1356
Uusikaupunki, Hafen – Kirsta	8745	Västra Kvarnen W-lich Holmöarna	8346
Kirsta – Isokari	5245	Umeå – Väktaren	8446
Naantali und Turku – Rajakari	7245	Väktaren, See im SE	3226
Rajakari – Lövskär	2115	Husum, Fahrwasser nach	2226
Lövskär – Korra	5145	Örnsköldsvik – Hörnskatan	8446
Korra – Isokari	3115	Hörnskatan – Skagsudde	8446
Lövskär – Berghamn	2115	Ångermanälv oberhalb Sandöbrücke	8444
Lövskär – Grisselborg	2115	Ångermanälv unterhalb Sandöbrücke	8444
Hanko – Vitgrund	5145	Härnösand – Härnön	1004
Koverhar – Hästö Busö	1115	Sundsvall – Draghallan	8346
Inkoo u. Kantvik – Porkkala See	7206	Draghallan – Åstholmsudde	1006
Helsinki, Hafen – Harmaja	5145	Åstholmsudde/Brämön, außerhalb	1006
Vuosaari Hafen – Eestiluoto	3015	Hudiksvallfjärden	8346
Porvoo, Hafen – Varlax	4145	Iggesund – Agö	8346
Valko, Hafen – Täktarn	7746	Sandarne – Hällgrund	8346
Boistö – Glosholm, Schärenfahrwasser	2215	Hällgrund, Seegebiet außerhalb	2026
Glosholm–Helsinki, Schärenfahrwasser	2215	Ljusnefjärden – Storzungrun	2026
Kotka – Viikari	5346	Storzungrun, Seegebiet außerhalb	2026
Viikari – Orrengrund	5346	Gävle – Eggegrund	8346
Orrengrund – Tiiskeri	2215	Örskär, Seegebiet außerhalb	2020
Hamina – Suurmusta	7846	Öregrundsgrepen	3222
Suurmusta – Merikari	5346	Hallstavik – Svartklubben	8342
Merikari – Kaunissaari	5346	Stockholm – Trälhavet – Klövholmen	4041
		Köping – Kvicksund	8344
<b>Norwegen , 09.02.2022</b>		Västerås – Grönsö	8344
Svinesund – Halden	31//	Grönsö – Södertälje	5244
Mossesund	1//1	Stockholm – Södertälje	5244
Husøysund – Tønsbergkanal	8245	Södertälje – Fifong	5041
Tønsberg, Innenhafen	8345	Norrköping – Hargökalv	4041
Vestfjord (Tønsberg)	8345	Västervik – Marsholmen – Idö	4041
Langårsund (Kragør)	2212	Karlstad, Fahrwasser nach	8342
		Kristinehamn, Fahrwasser nach	8342
		Otterbäcken, Fahrwasser nach	5041
<b>Russische Föderation , 10.02.2022</b>			
St. Petersburg, Hafen	84/3		
St. Petersburg – Ostspitze Kotlin	84/3		
Ostspitze Kotlin – Länge Lt. Tolbuchin	84/3		
Lt. Tolbuchin – Lt. Šepelevskij	52/2		
Lt. Šepelevskij – Seskar	53/3		
Seskar – Sommers	53/3		
Sommers – Südspitze Gogland	53/3		
Vyborg Hafen und Bucht	84/3		
Vichrevoj – Sommers	53/3		
Bjerkesund	53/3		
E-Spitze Bol'šoj Ber'ozovy – Šepelevskij	53/3		
Luga Bucht	2312		
Zuf. Luga B. – Linie Mošcnjy-Šepel.	2312		
<b>Schweden , 10.02.2022</b>			
Karlsborg – Malören	8546		
Malören, Seegebiet außerhalb	5356		
Luleå – Björnklack	8446		