



# Eisbericht Nr. 57

## Amtsblatt des BSH

Jahrgang 95

Nr. 57

Wednesday, 16.02.2022

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### Übersicht

In den Schären der Bottenwiek liegt im Norden 40–70 cm dickes Festeis und im Süden 20–55 cm dickes Festeis. Auf See treibt im Norden ein Gebiet mit 20–50 cm dickes, sehr dichtes und aufgedichtetes Eis. Ansonsten befindet sich auf See sehr dichtes, 10–40 cm dickes und aufgedichtetes Eis. Im Westen kommt allerdings dünnes, ebenes Eis vor. In Norra Kvarnen kommt in den Schären bis zu 55 cm dickes Festeis vor. Auf See treibt im Norden dichtes, 5–25 cm dickes Eis sowie sehr lockeres Eis und offenes Wasser weiter südlich. 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 der Linie Kotka – Seskar - Sosnowy Bor treibt auf See meist sehr dichtes, 15–30 cm dickes Eis sowie sehr lockeres Eis und offenes Wasser weiter westlich. 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 und dem Vänern 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 40–70 cm thick fast ice in the north and 20–55 cm thick fast ice in the south. At sea there is an area with 20–50 cm thick, partly ridged and very close ice in the north, else there is mostly ridged, 10–40 cm thick and very close ice, but in the western part, there is thin level ice. In Norra Kvarnen, there is up to 55 cm thick fast ice in the archipelagos. At sea, there is close ice in the north and very open ice and open water further south. 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 the line Kotka – Seskar - Sosnowy Bor, there is mostly very close, 15–30 cm thick ice and very open ice and open water further west. 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 and Lake Vänern. 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 and outside the northeastern archipelagos there is 40–70 cm thick fast ice, reaching out to Kemi-3, Oulu-2 and Johan. In the northwestern archipelagos the fast ice is 20–50 cm thick. Off the fast ice in the east, there is 20–50 cm thick consolidated ice

to Kemi-2 and Oulu-1. Centered at around 65°15'N 23°30'E there is an area with very close, ridged and 10–50 cm thick ice. Else at sea, there is mostly very close, 10–40 cm thick ice that is ridged at places but in the west, also areas with 5–15 cm

#### Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)  
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thick level ice. In the southern Bay of Bothnia, there is 20–40 cm thick fast ice along the Swedish coast; on the eastern coast there is 30–55 cm thick fast ice followed by a fringe of consolidated ice and in places a narrow lead with new ice. At sea, there is very close 10–35 cm thick ice in the east, 5-

### Norra Kvarken

In the archipelagoes off Vaasa, there is 25–55 cm thick fast ice to Ensten; further out there is 5–20 cm thick, very open ice. Along the Swedish coast, there is 20–40 cm thick fast ice in the archipelagos. At sea, there is 5-25cm thick close ice north of

### 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 10–40 cm thick fast ice or new ice. Further out in the south, there is open water. Along

### Archipelago and Åland Sea

10–30 cm thick fast ice is present in the inner archipelagos of the coasts. Further out in the east and around the Åland Islands, there is thin level

### 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 25–40 cm fast ice. At sea east of the line Kotka – Seskar - Sosnowy Bor, there is mostly very close, 15–30 cm thick ice. Further west to Moščnyj, there is very open, 5–20 cm thick ice. In the archipelagos of the northern coast, there is fast ice, 10–30

### Gulf of Riga

In Moonsund, there is 10–20 cm thick fast near the coasts. Between the islands is close ice and on the fairways is mostly very open ice. In Pärnu Bay, there is 15–25 cm thick fast or very close ice to the

### 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 is close, 5–15 cm thick ice in places along the eastern coast.

### Skagerrak and Kattegat

In some inner fjords of the Skagerrak, there is up to 30 cm thick fast ice at a few places.

15cm thick level ice in the west and 5-25cm thick close ice in the far south.

With mostly moderate frost ice formation continues the coming day and the ice will drift towards the west / southwest.

about 63°20'N. and further south very open ice and open water with strings and stripes.

Only minor ice formation and a variable ice drift is expected, leading to no larger changes.

the eastern coast, there is 10–40 cm fast ice in the inner archipelagos and close thin ice at the ice edge.

Minor ice formation may start tomorrow, but overall no larger changes are expected the coming day.

ice. In the outer archipelago at the eastern coast, there is mainly open water.

No larger changes are expected the coming day.

cm thick in the west and 20–45 cm thick in the east. In Luga Bay, there is fast ice near the coast and 5–20 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.

No larger changes are expected due to temperatures around 0° C, but the ice will drift to the north.

south tip of the island Manilaid.

The ice will drift to the north, but else there will be no larger changes.

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

Some ice melt is expected.

Ice melt is expected the coming day.

Ice melt is expected the coming day.

Some ice melt is expected the coming day.

**Swedish Lakes**

In Lake Vänern, there is 5–20cm thick fast ice or new ice in bays of the northern coast. Some ice melt is expected the coming day.

Dr. J.Holfort

**Restrictions to Navigation**

	<b>Harbour/District</b>	<b>At least dwt/hp/kW</b>	<b>Ice Class</b>	<b>Begin</b>
<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.
	<b>Karlsborg and Luleå</b>	<b>4000 dwt</b>	<b>IA</b>	<b>19.02.</b>
	Haraholmen and Skelleftehamn	2000 dwt	IB	06.01.
	<b>Haraholmen and Skelleftehamn</b>	<b>4000 dwt</b>	<b>IA</b>	<b>19.02.</b>
	Holmsund, Rundvik and Husum	2000 dwt	IC	15.01.
	<b>Holmsund, Rundvik and Husum</b>	<b>2000 dwt</b>	<b>IB</b>	<b>19.02.</b>
	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 (Kragere): 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:  <b>A<sub>B</sub> Amount and arrangements of sea ice</b>                  0 Ice free                  1 Open water – concentration less than 1/10                  2 Very open ice - concentration 1/10 to 3/10                  3 Open ice – concentration 4/10 to 6/10                  4 Close ice – concentration 7/10 to 8/10                  5 Very close ice – concentration 9/10 to 9+/10                  6 Compact ice, including consolidated ice – concentration 10/10                  7 Fast ice with drift ice outside                  8 Fast ice                  9 Lead in very close or compact drift ice or along the fast ice edge                  / Unable to report</p> <p>Third number:  <b>T<sub>B</sub> Topography or form of ice</b>                  0 Pancake ice, ice cakes, brash ice – less than 20 m across                  1 Small ice floes – 20 to 100 m across                  2 Medium ice floes – 100 to 500 m                  3 Big ice floes – 500 to 2000 m across                  4 Vast or giant ice floes – more than 2000 m across – or level ice                  5 Rafted ice                  6 Compact slush or shuga, or compacted brash ice                  7 Hummocked or ridged ice                  8 Thaw holes or many puddles on the ice                  9 Rotten ice                  / No information or unable to report</p>	<p>Second number:  <b>S<sub>B</sub> Stage of ice development</b>                  0 New ice or dark nilas (less than 5 cm thick)                  1 Light nilas (5 - 10 cm thick) or ice rind                  2 Grey ice (10 - 15 cm thick)                  3 Grey-white ice (15 - 30 cm thick)                  4 White ice, first stage (30 - 50 cm thick)                  5 White ice, second stage (50 - 70 cm thick)                  6 Medium first year ice (70 - 120 cm thick)                  7 Ice predominantly thinner than 15 cm with some thicker ice                  8 Ice predominantly grey-white ice (15 – 30 cm) with some thicker ice                  9 Ice predominantly thicker than 30 cm with some thinner ice                  / No information or unable to report</p> <p>Fourth number:  <b>K<sub>B</sub> Navigation conditions in ice</b>                  0 Navigation unobscured                  1 Navigation difficult or dangerous for wooden vessels without ice sheathing                  2 Navigation difficult for unstrengthened or low-powered vessels built of iron or steel. Navigation for wooden vessels even with ice sheathing not advisable                  3 Navigation without icebreaker assistance possible only for high-powered vessels of strong construction and suitable for navigation in ice                  4 Navigation proceeds in lead or broken ice-channel without the assistance of an icebreaker                  5 Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size                  6 Icebreaker assistance can only be given to vessels of special ice class and of special size                  7 Icebreaker assistance can only be given to vessels after special permission                  8 Navigation temporarily closed                  9 Navigation has ceased                  / Unknown</p>
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**Estonia , 16.02.2022**

Shipping route from Narva-Jõssuu	1//0
Paernu, port and bay	73/5
Moonsund	3//1

**Finland , 16.02.2022**

Roeyttae – Etukari	8446
Etukari – Ristinmatala	8846
Ajos – Ristinmatala	8846
Ristinmatala – Kemi 2	6876
Kemi 2 – Kemi 1	5756
Sea area SW of Kemi 1	5756
Kemi 2 – Ulkokrunni – Virpiniemi	8446
Oulu harbours – Kattilankalla	8446
Kattilankalla – Oulu 1	6876

Sea area SW of Oulu 1	5346
High Sea N of the latitude of Marjaniemi	5856
Raahe harbour – Heikinkari	8346
Heikinkari – Raahe lighthouse	5746
Raahe lighthouse – Nahkiainen	5346
Latitude Marjaniemi – Ulkokalla, Sea	5876
Rahja harbour – Välimatala	6366
Vaelimatala to line Ulkokalla – Ykskivi	5746
Sea betw. lat. of Ulkokalla –Pietarsaari	5346
Ykspihlaja – Repskaer	8846
Repskaer – Kokkola lighthouse	6366
Sea area off Kokkola lighthouse	9006
Pietarsaari – Kallan	7846
Sea area off Kallan	9006
Sea lat. Pietarsaari – NE Nordvalen	5746

Sea area ENE of Nordvalen	4746	Luleå – Bjoernklack	8446
Sea area Nordvalen to W of Norrskær	4746	Bjoernklack – Farstugrunden	5356
Vaskiluoto – Ensten	8446	E and SE of Farstugrunden	5476
Ensten – Vaasa lighthouse	4746	Sandgroenn fairway	8446
Vaasa lighthouse – Norrskær	4746	Roedkallen – Norstroemsgrund	5476
Sea area SW of Norrskær	3116	Haraholmen – Nygrån	8446
Kaskinen – Sälgrund	5746	Sea area off Nygrån	5456
Sea area off Sälgrund	4246	Skelleftehamn – Gåsoeren	5256
Pori harb. to line Pori lighth. – Säppi	5145	Sea area off Gåsoeren	5256
Rauma, Harbour – Kylmäpihlaja	7745	Sea area off Bjuroeklubb	5256
Kylmäpihlaja – Rauma lighthouse	5145	NE of Nordvalen	4336
Uusikaupunki harbour – Kirsta	8745	SW of Nordvalen	4336
Kirsta – Isokari	5245	Western Quark (W of Holmoearna)	8346
Naantali and Turku – Rajakari	7245	Umeå – Vaektaren	8446
Rajakari – Lövskär	3115	SE of Vaektaren	4336
Lövskär – Korra	5145	Fairway to Husum	1206
Korra – Isokari	2105	Oernskoeldsvik – Hoernskaten	8446
Lövskär – Berghamn	2105	Hoernskaten – Skagsudde	8446
Lövskär – Grisselborg	2105	Ångermanaelven north Sandoe Bridge	5434
Hanko – Vitgrund	2105	Ångermanaelven south Sandoe Bridge	5434
Koverhar – Hästö Busö	0//5	Haernoessand – Haernoen	4234
Inkoo a. Kantvik – sea area Porkkala	7206	Sundsvall – Draghaellan	8346
Helsinki harbours – Harmaja	5145	Hudiksvallfjaerden	8446
Vuosaari harbour – Eestiluoto	2115	Iggesund – Agoe	5146
Porvoo harbours – Varlax	5245	Sandarne – Haellgrund	8346
Valko Harbour – Täktarn	7746	Ljusnefjaerden – Storzungfrun	1206
Archipelago fairway Boistö – Glosholm	1106	Gaevle – Eggegrund	8446
Archipelago fairway Glosholm–Helsinki	1115	Sea area off Eggegrund	1206
Kotka – Viikari	5346	Sea area off Orskaer	1201
Viikari – Orregrund	5346	Oeregrundsgrepen	3222
Orregrund – Tiiskeri	1115	Hallstavik – Svartklubben	8342
Hamina – Suurmusta	7846	Koeping – Kvicksund	8344
Suurmusta – Merikari	5346	Västerås – Grönsö	8344
Merikari – Kaunissaari	5346	Grönsö – Södertälje	5234
		Stockholm – Södertälje	5244
		Södertälje – Fifong	5044
<b>Norway , 15.02.2022</b>		Fairway to Karlstad	8342
Svinesund – Halden	31//	Fairway to Kristinehamn	8342
Mossesund	1//1		
Husøysund – Tønsberg channel	8245		
Tønsberg, inner harbour	8345		
Vestfjord (Tønsberg)	8345		
Langårsund (Kragerø)	2212		
<b>Russian Federation , 16.02.2022</b>			
Port of St. Petersburg	84/3		
St. Petersburg – E-point island Kotlin	84/3		
E-point Kotlin – long. lighth. Tolbukhin	84/3		
Lighth. Tolbukhin – lighth. –Šepelevskij	52/2		
Lighthouse Šepelevskij – island Sescar	53/3		
Island Sescar – Island Sommers	53/3		
Vyborg, port and bay	84/3		
Island Vichrevoj – Island Sommers	53/3		
Strait Bjerkesund	53/3		
E-point Bol'šoj Ber'ozovyj –Šepelevskij	53/3		
Luga bay	1311		
Appr. Luga bay – line Mo–.–epel.	1311		
<b>Sweden , 16.02.2022</b>			
Karlsborg – Maloeren	8546		
Sea area off Maloeren	5356		