

# Eisbericht Nr. 52

## Amtsblatt des BSH

Jahrgang 95

Nr. 52

Wednesday, 09.02.2022

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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, ebenes Eis und entlang der finnischen Küste kommt zumeist dichtes 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 kommt lockeres Eis vor. 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 Gogland 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 level ice and in the east, there is mostly close 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. 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 Gogland, 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 south-eastern 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 – Oulu-1 – Raahe light-house. Off the fast in the north, there is very close,

rafted ice, 10–25 cm thick, and in the west, there is very close, rafted ice, 10–20 cm thick. Off the consolidated ice in the east, there is mostly close, 5–25 cm thick ice with some heavier floes. In the central part from south of Falkensgrund past Farstugrunden, there is very close ice with large,

#### Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)  
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partly ridged floes, 20–50 cm thick. Else at sea, there is mostly very close ice, 5–35 cm thick. In the southern Bay of Bothnia, there is 20–40 cm thick fast ice along the Swedish coast and 25–55 cm thick fast ice in the eastern archipelagos. At sea,

#### **Norra Kvarken**

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

#### **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 in the north, there is open water or open ice. Along

#### **Archipelago and Åland Sea**

5–20 cm thick ice is present in inner archipelagos of the coasts and around the Åland islands. In the outer archipelago at the eastern coast, there is

#### **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 Gogland, there is mostly very close, 15–30 cm thick ice. South of 60° N and east of about 27°40' E, there is mostly very open to close, 10–20 cm thick ice. In the archipelagos of the northern coast, there is fast ice, 5–30 cm thick in the west

#### **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 coast, there is new ice or thin open ice in sheltered

#### **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.

there is mostly very close 5–35 cm thick ice with cracks and leads. Off the Finnish coast, there is mostly close, 5–15 cm thick ice.

The ice formation will continue and the ice drift will be to the northeast.

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

Some ice formation will occur and ice drift will be to the northeast/east.

the eastern coast, there is 10–30 cm fast ice in the inner archipelagos close, 5–15 cm thick ice further out.

No larger changes but an easterly ice drift is expected.

mainly open water.

No larger changes are expected.

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, very open to open ice is present somewhat further out. Else, there is open water in the bay of Kunda.

Minor ice formation in the eastern part is expected, but else no larger changes. Ice drift will be first to northeast and later east.

Saaremaa, there is open drift ice.

Minor ice melt is expected and the ice drift will be to the east.

bays.

Some ice melt but else no larger changes are expected.

Some ice melt is expected.

Some ice melt is expected.

**Skagerrak and Kattegat**

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

Some ice melt but else 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.

Some ice melt is expected.

Dr. W. Aldenhoff

**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>	<b>Tornio, Kemi and Oulu</b>	<b>2000/4000 dwt</b>	<b>IA Super(5000kW)/IA</b>	<b>09.02.</b>
	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 was closed for traffic on 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:  <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, 09.02.2022**

Shipping route from Narva-Jõssuu	71/1
Kunda, port and bay	1//0
Paernu, port and bay	73/5
Shipp. route from Paernu to Irben Strait	1//0
Moonsund	72/2

**Finland, 09.02.2022**

Roeyttae – Etukari	8446
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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	4746

High Sea N of the latitude of Marjaniemi	5756	E-point Kotlin – long. lighth. Tolbukhin	84/3
Raahe harbour – Heikinkari	8346	Lighth. Tolbukhin – lighth. –Šepelevskij	42/2
Heikinkari – Raahe lighthouse	4746	Lighthouse Šepelevskij – island Sescar	53/3
Raahe lighthouse – Nahkiainen	4746	Island Sescar – Island Sommers	53/3
Latitude Marjaniemi – Ulkokalla, Sea	5876	Island Sommers– S-point island Gogland	53/3
Rahja harbour – Välimatala	6366	Vyborg, port and bay	84/3
Vaelimatala to line Ulkokalla – Ykskivi	4746	Island Vichrevoj – Island Sommers	53/3
Sea betw. lat. of Ulkokalla –Pietarsaari	5346	Strait Bjerkesund	53/3
Ykspihlaja – Repskaer	8846	E-point Bol'šoj Ber'ozovyj – –epelevskij	53/3
Repskaer – Kokkola lighthouse	6366	Luga bay	2312
Sea area off Kokkola lighthouse	4746	Appr. Luga bay – line Mo–.—epel.	2312
Pietarsaari – Kallan	7846		
Sea area off Kallan	4746	<b>Sweden, 09.02.2022</b>	
Sea lat. Pietarsaari – NE Nordvalen	3726	Karlsborg – Maloeren	8546
Sea area ENE of Nordvalen	3716	Sea area off Maloeren	5356
Sea area Nordvalen to W of Norrskaer	0//6	Luleå – Bjoernklack	8446
Vaskiluoto – Ensten	8446	Bjoernklack – Farstugrunden	5476
Ensten – Vaasa lighthouse	5746	E and SE of Farstugrunden	5476
Vaasa lighthouse – Norrskaer	0//6	Sandgroenn fairway	8446
Kaskinen – Sälgrund	5746	Roedkallen – Norstroemsgrund	5356
Sea area off Sälgrund	4246	Haraholmen – Nygrån	8446
Pori harb. to line Pori lighth. – Säppi	4145	Sea area off Nygrån	5356
Rauma, Harbour – Kymäpihlaja	7745	Skelleftehamn – Gåsoeren	5256
Kymäpihlaja – Rauma lighthouse	4145	Sea area off Gåsoeren	5356
Uusikaupunki harbour – Kirsta	8745	Sea area off Bjuroeklubb	5356
Kirsta – Isokari	5245	NE of Nordvalen	3326
Naantali and Turku – Rajakari	7245	SW of Nordvalen	3326
Rajakari – Lövskär	2115	Western Quark (W of Holmoearna)	8346
Lövskär – Korra	5145	Umeå – Vaektaren	8446
Korra – Isokari	4145	SE of Vaektaren	3226
Lövskär – Berghamn	2115	Fairway to Husum	3226
Lövskär – Grisselborg	2115	Oernskoeldsvik – Hoernskaten	8446
Hanko – Vitgrund	5145	Hoernskaten – Skagsudde	8446
Koverhar – Hästö Busö	1115	Ångermanaelven north Sandoe Bridge	8444
Inkoo a. Kantvik – sea area Porkkala	7206	Ångermanaelven south Sandoe Bridge	8444
Helsinki harbours – Harmaja	5145	Haernoessand – Haernoen	1004
Vuosaari harbour – Eestiluoto	3015	Sundsvall – Draghaellan	8346
Porvoo harbours – Varlax	5145	Draghaellan – Åstholmsudde	1006
Valko Harbour – Tåktarn	7746	Off Åstholmsudde and Braemoen	1006
Archipelago fairway Boistö – Glosholm	2215	Hudiksvallfjaerden	8346
Archipelago fairway Glosholm–Helsinki	2215	Iggesund – Agoe	8346
Kotka – Viikari	5346	Sandarne – Haellgrund	8346
Viikari – Orregrund	5346	Sea area off Haellgrund	2026
Orregrund – Tiiskeri	3215	Ljusnefjaerden – Störjungfrun	2026
Hamina – Suurmusta	7846	Sea area off Störjungfrun	2026
Suurmusta – Merikari	5346	Gaeve – Eggegrund	8346
Merikari – Kaunissaari	5346	Sea area off Orskaer	2022
		Oeregrundsgrepen	3222
<b>Norway, 07.02.2022</b>		Hallstavik – Svartklubben	8342
Svinesund – Halden	31//	Stockholm – Traelhavet – Kloevholmen	4041
Mossesund	1//1	Koeping – Kvicksund	8344
Drammensfjord	2111	Västerås – Grönsö	8344
Husøysund – Tønsberg channel	8245	Grönsö – Södertälje	5244
Tønsberg, inner harbour	8345	Stockholm – Södertälje	5244
Vestfjord (Tønsberg)	8345	Södertälje – Fifong	5041
Frierfjorden (Porsgrunn, Skien)	2212	Norrköping – Hargökalv	4041
		Västervik – Marsholmen – Idö	4041
<b>Russian Federation, 09.02.2022</b>		Fairway to Karlstad	8342
Port of St. Petersburg	84/3	Fairway to Kristinehamn	8342
St. Petersburg – E-point island Kotlin	84/3	Fairway to Otterbäcken	5041