



Eisbericht Nr. 68

Amtsblatt des BSH

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Übersicht

In den Schären der Bottenwiek befindet sich im Norden bis 60 cm dickes Festeis und im Süden bis 35 cm dickes Festeis. Auf das Festeis folgt im Norden bis zu 40 cm dickes zusammenhängendes oder sehr dichtes, örtlich aufgepresstes oder aufgeschobenes Eis. Im Westen verläuft eine Rinne mit sehr lockerem Eis im Norden und offenem Wasser im Süden. Weiter östlich treibt auf See zumeist bis 25 cm dickes, sehr dichtes Eis. In Kvarken liegt bis 35 cm dickes Festeis in den Schären und Buchten und auf See treibt im Osten sehr lockeres Eis. In der Bottensee und dem Schärenmeer kommt dünnes, ebenes Eis oder Festeis entlang der Küsten vor. Im Mälarsee liegt dünnes, ebenes Eis oder Neueis. Im Finnischen Meerbusen liegt in den östlichsten Buchten bis 40 cm dickes Festeis. Auf See treibt im Osten dichtes bis sehr dichtes Eis und im Norden befindet sich eine breite Meereisrinne mit Neueis. In den Schären und Buchten entlang der nördlichen Küste kommt Festeis vor. Im Nordosten des Rigaischen Meerbusen befindet sich 10–20 cm dickes Festeis oder sehr dichtes Eis in geschützten Gebieten und Neueis etwas weiter außerhalb.

Overview

In the archipelagos of the Bay of Bothnia, there is up to 60 cm thick fast ice in the north and up to 35 cm thick fast ice in the south. In the north, there is up to 40 cm thick, partly ridged and rafted consolidated or very close ice further out. Along the western coast there is a lead with mostly very open ice in the north and open water in the south. Further east at sea, there is mostly up to 25 cm thick, very close ice. In the Quark, there is up to 35 cm thick fast ice in the archipelagos and bays and at sea, there is very open ice in the east. In the Sea of Bothnia and the Archipelago Sea, fast ice or thin level ice is present along the coasts. In Lake Mälaren, there is thin level ice and new ice. In the Gulf of Finland, up to 40 cm thick fast ice is present in the easternmost bays. At sea in the east, there is close to very close ice in the south and a lead with new ice in the north. In the archipelagos and bays along the northern coast, there is fast ice. In the northeastern Gulf of Riga, there is 10–20 cm thick fast ice or very close ice in sheltered bays and new ice somewhat further out.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 30–60 cm thick fast ice and compact, up to 45 cm thick ice towards Malören and off the eastern fast ice. In the northwest, there is a lead with very open ice running from Malören to about Rödkallen. Further out in the northeast, there is 20–40 cm thick, in places ridged very close ice to

about Kemi-1 – Oulu-2 – Raahe. In the central northern part there is 15–40 cm thick very close ice with some ridges and cracks to about 65°10'N. In the southern Bay of Bothnia, there is 20–35 cm thick fast ice in the archipelagos. Off the western coast there is an about 20 NM wide open water lead running from Rödkallen to the Quark. Further

Herstellung und Vertrieb

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east at sea, there is 5–25cm thick, very close and partly rafted ice.
Only minor ice growth is expected the coming day.

The Quark

There is 15–35 cm thick fast ice in the Vaasa archipelago out to Storhåsten. Further out there is very close, 5–20 cm thick ice and new ice to Vaasa lighthouse. Further out there is mostly very open ice out to Norrskär and Holmöarna. On the Swe-

Sea of Bothnia

In the archipelagos along the eastern coast, there is 10–25 cm thick fast ice and new ice at places somewhat further out. Along the western coast, there is thin level ice or new ice in sheltered bays

Archipelago Sea and Åland Sea

At the eastern coast, there is 5–15 cm fast or level ice in the inner bays and new ice somewhat further out. In the western and central part new ice is pre-

Northern Baltic

In Lake Mälaren, there is 5–15 cm thick fast ice or thin level ice in the western part, with areas of open water. In the eastern part, there is thin ice in sheltered bays and open water. New ice occurs in

Gulf of Finland

From St. Petersburg out to Kotlin and in the bay north of Kotlin, there is 20–45 cm thick fast ice or compact ice. In the Bay of Vyborg, there is 15–25 cm thick fast ice and in the Bjerkesund, there is 10–20 cm thick fast ice. At sea in the south, there is 5–25 cm thick, rafted, very close ice to about Moščnyj – Vigrund – Sillimäe. Further west to about Gogland, there is 5–15 cm thick, very open and open ice. In the northern part, there is a large lead with close new ice and thicker floes at places to about Sommers in the south. Further west to a

Gulf of Riga

In Väinameri, there is 10–20 cm thick fast ice near the coasts. Somewhat further out, there is very close ice and on the fairway is new ice. In the Bay of Pärnu, 5–15 cm thick, very close ice drifts along the eastern coast. Else, there is mostly open water

Skagerrak and Kattegat

Up to 15 cm thick ice or new ice is present in some inner Norwegian Fjords. At a few places thicker ice occurs.

Swedish Lakes

Thin level ice or new ice is present in some sheltered bays in the northeast of Lake Vänern.

The ice will drift to the east/southeast, widening the lead in the west and producing some rafting or ridging in the east.

dish side, there is mostly up to 35 cm thick fast ice in inner bays. Further out, there is a lead with open water.

Only minor ice growth is expected the coming day. The ice will drift to the east/southeast.

in the south and up to 40 cm thick fast ice in inner bays in the north. On Ångermanälven, there is 20–40 cm thick fast or level ice.

No major changes are expected the coming day.

sent along the coasts.

No major changes are expected the coming day.

sheltered places along the outer coast.

No larger changes are expected the coming, but some night frost is possible with melting during daytime.

line Tiiskeri – Rodser is new ice and open water. Along the northern coast, there is 15–30 cm thick fast ice in the eastern archipelagos. Further out, there is thin level ice or very close ice off Kotka and Hamina. In the western archipelagos, there is 5–15 cm thick fast ice. In the Bay of Kunda there is new ice.

Some ice formation and ice growth may occur the coming day in the east. The ice will drift to the east/southeast.

with 5–10 cm thick ice at few places out to the line southern point of Kihnu to Ainazi.

No larger changes are expected the coming day, and the ice will drift to the east/southeast.

No major changes are expected the coming day.

No larger changes are expected the coming day.

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Estonia	Pärnu	1600 kW	1 C	23.12.
Finland	Tornio, Kemi and Oulu	4000 dwt	IA	22.02.
	Raahe	2000 dwt	IA	02.03.
	Kalajoki, Kokkola	2000 dwt	IB	02.03.
	Pietarsaari and Vaasa	2000 dwt	I	07.01.
	Kaskinen, Inkoo, Kantvik, Helsinki, Sköldvik and Mussalo	2000 dwt	II	07.01.
	Loviisa, Kotka and Hamina	2000 dwt	II	24.12.
Russia	Vyborg and Vysotsk	-	Ice 1	08.02.
Sweden	Karlsborg	4000 dwt (2000 t)	IA	28.02.
	Lulea	4000 dwt	IA	28.02.
	Haraholmen and Skelleftehamn	2000 dwt	IB	28.02.
	Haraholmen and Skelleftehamn	2000 dwt	IA	04.03.
	Holmsund	2000 dwt	IC	07.02.
	Rundvik and Husum	2000 dwt	II	21.12.
	Rundvik and Husum	2000 dwt	IC	04.03.
	Örnsköldsvik	2000 dwt	IC	13.02.
	Angermanälven	2000 dwt	IB	07.01.
	Söraker, Sundsvall and Söderhamn	2000 dwt	IC	13.02.
	Köping and Västerås	1300/2000 dwt	IC/II	25.01.
	Köping and Västerås	2000dwt	IC	06.03
	Balsta	1300/2000 dwt	IC/II	22.12.
	Härnösand, Stocka, Hudiksvall, Iggesund,Orrrskär, Norrsundet	2000dwt	IC	06.03

Estonia**Icebreakers:**

EVA-316 assists in the port of Pärnu.

Finland/Sweden

The Saimaa Canal is closed for traffic since 4th January.

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 82. 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.

The traffic separation schemes in the Quark are temporarily out of use from 7 February due to ice conditions.

Icebreakers:

KONTIO, OTSO, SISU, ATLE, YMER and FREJ assist in the Bay of Bothnia. ZEUS assists in the southern Bay of Bothnia and in the Quark. ALE assists in the Quark. CALYPSO assists in the region of Kotka and Hamina.

Norway

Husøysund and Vestfjorden (Tønsberg): Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size. 31.01.23

Tønsberg indre havn (Tønsberg): Navigation without icebreaker assistance possible only for high-powered vessels of strong construction and suitable for navigation in ice. 31.01.23

Russia

There are restrictions for small crafts going to Vysotsk, Vyborg, St. Petersburg, Ust-Luga and Primorsk. No sailing of barge by tug to Vyborg and Vysotsk.

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

Baltic Sea Ice Code

<p>First number: A_B Amount and arrangements of sea ice 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: T_B Topography or form of ice 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 foes – 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: S_B Stage of ice development 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: K_B Navigation conditions in ice 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, 02.03.2023

Shipping route from Narva-Jõssuu	5102
Kunda, port and bay	3001
Paernu, port and bay	42/5
Moonsund	2002

Finland, 02.03.2023

Roeyttae - Etukari	8446
Etukari - Ristinmatala	6456
Ajos - Ristinmatala	6456
Oulu harbours – Kattilankalla	7456
Kattilankalla – Oulu 1	6456
Sea area SW of Oulu 1	5856
High Sea N of the latitude of Marjaniemi	5856

Raahe harbour – Heikinkari	8346
Heikinkari – Raahe lighthouse	7756
Raahe lighthouse – Nahkiainen	5356
Latitude Marjaniemi – Ulkokalla, Sea	5356
Rahja harbour – Välimatala	5756
Vaelimatala to line Ulkokalla – Ykskivi	5756
Sea betw. lat. of Ulkokalla –Pietarsaari	5756
Ykspihlaja – Repskaer	7756
Repskaer – Kokkola lighthouse	5756
Sea area off Kokkola lighthouse	5756
Pietarsaari – Kallan	7756
Sea area off Kallan	5756
Sea lat. Pietarsaari – NE Nordvalen	5756
Sea area ENE of Nordvalen	2726

Sea area Nordvalen to W of Norrskær	2126	SE of Vaektaren	1106
Vaskiluoto – Ensten	7756	Oernskoeldsvik – Hoernskaten	8446
Ensten – Vaasa lighthouse	5756	Hoernskaten – Skagsudde	5146
Vaasa lighthouse – Norrskær	5756	Ångermanaelven north Sandoe Bridge	8444
Sea area SW of Norrskær	1106	Ångermanaelven south Sandoe Bridge	8444
Kaskinen – Sälgrund	7715	Haernoessand – Haernoen	5144
Pori harb. to line Pori lighth. – Säppi	8742	Sundsvall – Draghaellan	5146
Rauma, Harbour – Kylmäpihlaja	4041	Draghaellan – Åstholmsudde	1006
Uusikaupunki harbour – KIRSTA	8142	Hudiksvallfjaerden	8346
Naantali and Turku – Rajakari	5142	Iggesund – Agoe	8346
Lövskär – Korra	4041	Sandarne – Haellgrund	8346
Inkoo a. Kantvik – sea area Porkkala	8145	Ljusnefjaerden – Störjungfrun	8346
Helsinki harbours – Harmaja	1005	Gaeve – Eggegrund	1101
Valko Harbour – Täktarn	5045	Hallstavik – Svartklubben	5142
Archipelago fairway Boistö – Glosholm	3015	Koeping – Kvicksund	8244
Archipelago fairway Glosholm–Helsinki	0//5	Västerås – Grönsö	8244
Kotka – Viikari	8345	Grönsö – Södertälje	4044
Viikari – Orregrund	5145	Stockholm – Södertälje	4044
Orregrund – Tiiskeri	3015	Södertälje – Fifong	2024
Tiiskeri – Kalbådagrund	2005	Fairway to Karlstad	4041
Hamina – Suurmusta	5245	Fairway to Kristinehamn	5142
Suurmusta – Merikari	5245		
Merikari – Kaunissaari	5245		

Latvia, 02.03.2023

Port of Riga	1000
Riga to the Cape of Mersrags, fairway	1000

Russian Federation, 02.03.2023

Port of St. Petersburg	84/3
St. Petersburg – E-point island Kotlin	54/3
E-point Kotlin – long. lighth. Tolbuhkin	4303
Lighth. Tolbuhkin – Lighth. Šepelevskij	51/2
Lighthouse Šepelevskij – island Sescar	42/2
Island Sescar – Island Sommers	42/2
Island Sommers– S-point island Gogland	30/1
Vyborg, port and bay	83/3
Island Vichrevoj – Island Sommers	40/3
Strait Bjerkesund	83/3
E-point Bol'šoj Ber'ozovyj – Šepelevskij	32/2
Luga bay	51/2
Appr. Luga bay – line Moščny-- Šepel.	51/1

Sweden, 02.03.2023

Karlsborg – Maloeren	6456
Sea area off Maloeren	5356
Luleå – Bjoernklack	8546
Bjoernklack – Farstugrunden	2326
E and SE of Farstugrunden	2326
Sandgroenn fairway	8546
Roedkallen – Norstroemsgrund	5356
Haraholmen – Nygrån	8346
Sea area off Nygrån	1106
Skelleftehamn – Gåsoeren	5336
Sea area off Gåsoeren	5336
Sea area off Bjuroeklubb	5336
NE of Nordvalen	1106
SW of Nordvalen	2326
Western Quark (W of Holmoearna)	5246
Umeå – Vaektaren	5146