

BUNDESAMT FÜR SEESCHIFFFAHRT UND HYDROGRAPHIE

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Eisbericht Nr. 69 Amtsblatt des BSH

Jahrgang 96	Nr. 69	Friday, 03.03.2023	

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. Im Osten 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 ist zumeist offenes Wasser. 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 dünnes zumeist sehr lockeres Eis. 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. In the east, 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 mostly open water. 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 east-ernmost bays. At sea in the east, there is close to very close ice in the south and mostly thin, very open 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 Nygrån. Further out in the northeast, there is 20–40

Herstellung und Vertrieb Bundesamt für Seeschifffahrt und Hydrographie (BSH) www.bsh.de/eis www.bsh.de/ice

© BSH - Alle Rechte vorbehalten Nachdruck, auch auszugsweise, verboten 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 $65^{\circ}10$ 'N. At sea east of about $23^{\circ}00$ 'E, there is mostly 10–25 cm thick and partly rafted, very close ice with some

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© BSH - All rights reserved Reproduction in whole or in part prohibited thicker ridged floes at places. In the west is mostly open water with some very open ice along the southwestern coast all the way to the Quark. In the southern Bay of Bothnia, there is 15–35 cm thick fast ice in the archipelagos. About 15 NM further

The Quark

There is 15–35 cm thick fast ice in the Vaasa archipelago out to Storhästen. Further out there is very close, 5–20 cm thick ice and new ice to Vaasa lighthouse. On the Swedish side, there is mostly up to 35 cm thick fast ice in inner bays. Further out,

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 in the south and up to 40 cm thick fast ice in inner

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. From Kotlin to the Bjerkesund, there is open to close, 5–25 cm thick drift ice. At sea in the south, there is 5–25 cm thick, rafted, very close ice from Šepelevskij to about the line Moščnyj – Vigrund – Sillamäe. In the north, there is mostly 3–10 cm thick, very open ice to Gogland and Loviisa with close ice and thicker

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 mostly open water with thin ice at a few places. In the Bay of Pärnu, 5–15 cm thick, very close ice drifts along the eastern coast to Häädemeeste. Else, there is mostly

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.

out, there is very close, 10–25 cm thick ice, partly rafted and with a brash ice barrier at the edge. Ice formation and ice growth continues over the

weekend. The ice will mostly drift to the south and on Sunday more to the west.

there is open water and very open ice west of Holmöarna. At sea, there is open water.

Ice growth and ice formation is expected over the weekend. The ice will drift to the south with slightly ceasing speeds in the course of the weekend.

bays in the north. On Ångermanälven, there is 20– 40 cm thick fast or level ice.

Ice formation and ice growth along the coasts is expected over the weekend with dropping temperatures.

sent along the coasts.

Some ice formation and ice growth is expected over the weekend.

sheltered places along the outer coast. Some ice formation and ice growth is possible at sheltered places over the weekend.

floes off the northern fast ice. Somewhat further west is 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.

Ice formation and ice growth continues over the weekend with temperatures dropping below zero also in the western parts. The ice will mostly drift to the south with ceasing speed.

open water with 5–10 cm thick ice at few places out to the line southern point of Kihnu to Ainazi. Some ice formation and ice growth is expected over the weekend. The ice will drift to the southeast/south with ceasing speed in the course of the weekend.

Some ice formation is possible in sheltered places over the weekend.

Swedish Lakes

Thin level ice or new ice is present in some sheltered bays in the northeast of Lake Vänern. With slightly dropping temperatures some ice formation and ice growth is possible over the week-end.

Dr. W. Aldenhoff

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.
	Raahe	4000 dwt	IA	08.03.
	Kalajoki, Kokkola	2000 dwt	IB	02.03.
	Kalajoki, Kokkola, Pietarsaari	2000 dwt	IA	08.03.
	Pietarsaari and Vaasa	2000 dwt	I	07.01.
	Vaasa	2000 dwt	IB	08.03.
	Kaskinen, Inkoo, Kantvik, Helsinki,	2000 dwt	I	07.01.
	Sköldvik and Mussalo			
	Loviisa, Kotka and Hamina	2000 dwt	II	24.12.
	Loviisa, Kotka and Hamina	2000 dwt	I	08.03.
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	I	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 Västeras	1300/2000 dwt	IC/II	25.01.
	Köping and Västeras	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. **BOTNICA** assists to the port of Sillamäe.

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:

POLARIS, 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.

Dailie Gea ice Gode					
First number: AB Amount and arrangements of sea ice 0 loe 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 loc edge / Unable to report		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			
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		0 1 2 3 4 5 6 7 8 9	 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 after special permission 8 Navigation temporarily closed 9 Navigation has ceased / Unknown 		
Estonia, 03.03.2023 Shipping route from Narva-Jõssuu Kunda, port and bay Paernu, port and bay Moonsund Finland, 03.03.2023 Röyttä – Etukari Etukari – Ristinmatala	5102 3001 42/5 2002 8446 6456		Ajos – Ristinmatala Ristinmatala – Kemi 2 Kemi 2 – Kemi 1 Sea area SW of Kemi 1 Kemi 2 – Ulkokrunni – Virpiniemi Oulu harbours – Kattilankalla Kattilankalla – Oulu 1 Sea area SW of Oulu 1 High Sea N of the latitude of Marjaniemi	6456 5876 5876 6456 7456 6456 5356 5856	

Baltic Sea Ice Code

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 – Repskär	7756
Repskär – 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 Norrskär	2126
Vaskiluoto – Ensten	7756

Latvia, 02.03.2023

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

Russian Federation, 03.03.2023

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	52/2
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 MošŠepel.	41/2

Sweden, 03.03.2023

Karlsborg – Malören	6456
Sea area off Malören	5356
Luleå – Björnklack	8546
Björnklack – Farstugrunden	2326
E and SE of Farstugrunden	2326
Sandgrönn fairway	8546
Rödkallen – Norströmsgrund	2326
Haraholmen – Nygrån	8346
Sea area off Nygrån	2326
Skelleftehamn – Gåsören	5336
Sea area off Gåsören	5336
Sea area off Bjuröklubb	5336
NE of Nordvalen	1106
SW of Nordvalen	1106
Western Quark (W of Holmöarna)	5246
Umeå – Väktaren	5146
SE of Väktaren	1106
Örnsköldsvik – Hörnskaten	8446
Hörnskaten – Skagsudde	5146
Ångermanälven north Sandö Bridge	8444
Ångermanälven south Sandö Bridge	8444
Härnösand – Härnön	5144
Sundsvall – Draghällan	5146
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