

Eisbericht Nr. 70 Amtsblatt des BSH

Jahrgang 96	Nr. 70	Monday, 06.03.2023	1
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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 zuerst eine Rinne und dann bis zu 40 cm dickes zusammenhängendes oder sehr dichtes, örtlich aufgepresstes oder aufgeschobenes Eis. Im Westen verläuft eine Rinne mit Neueisbildung oder dünnem. 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 kommt offenes Wasser bis lockeres, dünnes Eis vor. 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 treibt zumeist dünnes 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 offenes Wasser 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 first a lead and later 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 new ice formation of thin ice. 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 open water to thin open ice. 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 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 open water 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 ice, out to Kemi-3 and Kattilankalla. Further out in the northeast 20-40cm thick, ridged, very close ice to Lallinmöyly and Oulu 1. From north of Kemi-1 there is a lead with new ice formation stretching towards the southeast and the west. Further out at sea in

the north, east of about 22°45'E, there is 10-40cm thick, very close ice, rafted and ridged in places; towards the western coast there if thin level ice and new ice. In the southern Bay of Bothnia, there is 15–35 cm thick fast ice in the archipelagos, further out in the east there is 10-25cm thick rafted, very close ice with some thicker floes. Westwards to-

Herstellung und Vertrieb

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The Quark

There is 15-40 cm thick fast ice in the Vaasa archipelago out to Ensten. Further out there is very close, 5-25 cm thick rafted ice, with some thicker floes out to a line from 15nm northwest of Kokkola lighthouse to Helsigkalla. On the Swedish side,

Sea of Bothnia

In the archipelagos along the eastern coast, there is 15-25 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 Aland 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 30-50 cm thick fast ice and 20-35cm thick compact ice in the fairway. In the Bay of Vyborg, there is 20-35 cm thick fast ice and in the Bjerkesund, there is 10-20 cm thick fast ice At sea in the south there is 10-25cm thick close ice out to Moščnyj as well as in the Koporye and Luga bay. At sea in the north, outside the Bay of Vyborg, there is open ice out to the lighthouse Sommers. From Moščnyj towards the northwest there is very open ice. Along the northern coast, there is 15-30

Gulf of Riga

In Väinameri, there is 10-20 cm thick fast ice near the coasts. Somewhat further out, there is close ice and on the fairway is open. In the Bay of Pärnu, there is a belt of very close ice at the eastern coast between Uulu and Reiu and in the western part there is very open ice and open water up the lati-

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.

Continuing ice formation and growth and an at most slight southwesterly ice drift is expected.

there is mostly up to 35 cm thick fast ice in inner bays. At sea, there is open water in the south and thin open ice in the north.

Ice growth and ice formation is expected with only minor ice drift.

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

Some ice formation and ice growth along the coasts is expected.

sent along the coasts.

Some ice formation and ice growth is expected.

sheltered places along the outer coast.

Some ice formation and ice growth is possible at sheltered places.

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. At the southern coast there is very open drift ice near the coast in

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.

tude of the southern point of Kihnu. In the port of Riga and in the fairway to Nersrags there is open

Some ice formation and ice growth is expected with only minor ice drift.

Some ice formation is possible in sheltered places.

Some ice formation and ice growth is possible.

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		07.01.
	Vaasa	2000 dwt	IB	08.03.
	Kaskinen, Inkoo, Kantvik, Helsinki,	2000 dwt	II	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	IA	04.03.
	Holmsund	2000 dwt	IC	07.02.
	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	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.

Baltic Sea Ice Code

First number: AB Amount and arrangements of sea ice 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	Second number: Sb Stage of ice development New ice or dark nilas (less than 5 cm thick) Light nilas (5 - 10 cm thick) or ice rind Grey ice (10 - 15 cm thick) Grey-white ice (15 - 30 cm thick) White ice, first stage (30 - 50 cm thick) White ice, second stage (50 - 70 cm thick) Medium first year ice (70 - 120 cm thick) Ice predominantly thinner than 15 cm with some thicker ice Ice predominantly grey-white ice (15 – 30 cm) with some thicker ice Ice predominantly thicker than 30 cm with some thinner ice No information or unable to report
Third number: TB 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	Fourth number: KB Navigation conditions in ice Navigation unobscured Navigation difficult or dangerous for wooden vessels without ice sheathing Navigation difficult for unstrengthened or low-powered vessels built of iron or steel. Navigation for wooden vessels even with ice sheathing not advisable Navigation without icebreaker assistance possible only for high-powered vessels of strong construction and suitable for navigation in ice Navigation proceeds in lead or broken ice-channel without the assistance of an icebreaker Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size Icebreaker assistance can only be given to vessels of special ice class and of special size Icebreaker assistance can only be given to vessels after after special permission Navigation temporarily closed Navigation has ceased Unknown

Sweden, 05.03.2023		Hörnskaten – Skagsudde	5146
Karlsborg – Malören	6456	Ångermanälven north Sandö Bridge	8444
Sea area off Malören	5356	Ångermanälven south Sandö Bridge	8444
Luleå – Björnklack	8546	Härnösand – Härnön	5144
Björnklack – Farstugrunden	4046	Sundsvall – Draghällan	5146
E and SE of Farstugrunden	4046	Draghällan – Åstholmsudde	1006
Sandgrönn fairway	8546	Hudiksvallfjärden	8346
Rödkallen – Norströmsgrund	4046	Iggesund – Agö	8346
Haraholmen – Nygrån	8346	Sandarne – Hällgrund	8346
Sea area off Nygrån	4046	Ljusnefjärden – Storjungfrun	8346
Skelleftehamn – Gåsören	5336	Gävle – Eggegrund	1101
Sea area off Gåsören	5336	Hallstavik – Svartklubben	5142
Sea area off Bjuröklubb	5336	Köping – Kvicksund	8244
NE of Nordvalen	3126	Västerås – Grönsö	4234
SW of Nordvalen	2126	Grönsö – Södertälje	1004
Western Quark (W of Holmöarna)	4236	Stockholm – Södertälje	2024
Umeå – Väktaren	5146	Fairway to Karlstad	4041
SE of Väktaren	2126	Fairway to Kristinehamn	5142
Örnsköldsvik – Hörnskaten	8446		

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54/3 4303

52/2

42/2 42/2

22/1 83/3 32/3 83/3

32/2 42/2 42/2

Estonia, 06.03.2023		Norway, 06.03.2023
Shipping route from Narva-Jõssuu	52/2	Svinesund – Halden
Kunda, port and bay	21/0	Drammensfjord
Paernu, port and bay	3//2	Husøysund – Tønsberg channel
Moonsund	1000	Tønsberg, inner harbour
		Vestfjord (Tønsberg)
Finland, 06.03.2023		Langårsund (Kragerø)
Röyttä – Etukari	8446	
Etukari – Ristinmatala	6456	Russian Federation, 06.03.2023
Ajos – Ristinmatala	6456	Port of St. Petersburg
Ristinmatala – Kemi 2	5856	St. Petersburg – E-point island Kotlin
Kemi 2 – Kemi 1	5046	E-point Kotlin – long. lighth. Tolbuhkin
Sea area SW of Kemi 1	5876	Lighth. Tolbuhkin – lighth. –Šepelevskij
Kemi 2 – Ulkokrunni – Virpiniemi	6456	Lighthouse Šepelevskij – island Sescar
Oulu harbours – Kattilankalla	7456	Island Sescar – Island Sommers
Kattilankalla – Oulu 1	6456	Island Sommers – S-point Gogland
Sea area SW of Oulu 1	4856	Vyborg, port and bay
High Sea N of the latitude of Marjaniemi	5856	Island Vichrevoj – Island Sommers
Raahe harbour – Heikinkari	8346	Strait Bjerkesund
Heikinkari – Raahe lighthouse	7756	E-point Bol'šoj Ber'ozovyj – Šepelevskij
Raahe lighthouse – Nahkiainen	5356	Luga bay
Latitude Marjaniemi – Ulkokalla, Sea	5356	Appr. Luga bay – line MošŠepel.
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	5756	
Sea area Nordvalen to W of Norrskär	3136	
Vaskiluoto – Ensten	7756	
Ensten – Vaasa lighthouse	5756	
Vaasa lighthouse – Norrskär	4146	
Sea area SW of Norrskär	0//6	
Kaskinen – Sälgrund Sea area off Sälgrund	4045 4045	
· ·	8742	
Pori harb. to line Pori lighth. – Säppi Rauma, Harbour – Kylmäpihlaja	4041	
Uusikaupunki harbour – Kirsta	8142	
Naantali and Turku – Rajakari	5142	
Inkoo a. Kantvik – sea area Porkkala	8145	
Helsinki harbours – Harmaja	1005	
Valko Harbour – Täktarn	5145	
Archipelago fairway Boistö – Glosholm	1105	
Kotka – Viikari	8345	
Viikari – Orrengrund	5145	
Orrengrund – Tiiskeri	4045	
Tiiskeri – Kalbådagrund	2105	
Hamina – Suurmusta	5245	
Suurmusta – Merikari	4145	
Merikari – Kaunissaari	4045	
Latvia, 06.03.2023		
Port of Riga	1000	
Riga to the Cape of Mersrags, fairway	1000	