

Eisbericht Nr. 85

Amtsblatt des BSH

Jahrgang 96

Nr. 85

Tuesday, 28.03.2023

1

Übersicht

In den Schären der Bottenwiek befindet sich im Norden bis 70 cm dickes Festeis und im Süden bis 40 cm dickes Festeis. Außerhalb davon befindet sich im Norden und Nordosten ein Gebiet mit ebenem Eis. Auf See treibt zumeist sehr dichtes, aufgeschobenes und aufgepresstes Eis mit Spalten, welches im Norden bis 60 cm dick und im Süden bis 30 cm dick ist. In Kvarken liegt bis 45 cm dickes Festeis in den Schären und Buchten und auf See kommt 5–25 cm dickes, lockeres bis dichtes Eis vor. In der Bottensee und dem Schärenmeer kommt entlang der Küsten 5–40 cm dickes, ebenes Eis oder Festeis vor. Im Mälarsee liegt morsches Eis. Im Finnischen Meerbusen liegt in den östlichsten Buchten bis 40 cm dickes Festeis. Auf See treibt im Norden östlich von etwa 27°O dichtes bis sehr dichtes, 10–30 cm dickes Eis und im Süden kommt östlich etwa 28°O sehr lockeres Eis vor. In den Schären und Buchten entlang der nördlichen Küste kommt Festeis vor. Im Nordosten des Rigaischen Meerbusen befindet sich in geschützten Buchten morsches Eis.

Overview

In the archipelagos of the Bay of Bothnia, there is up to 70 cm thick fast ice in the north and up to 40 cm thick fast ice in the south. Further out in the north and the northeast there is an area of level ice. At sea, there is ridged and rafted, very close ice with cracks, which is up to 60 cm thick in the north and up to 30 cm thick in the south. In the Quark, there is up to 45 cm thick fast ice in the archipelagos and bays and at sea, there is 2–25 cm thick, open to close ice. In the Sea of Bothnia and the Archipelago Sea, 5–40 cm thick fast ice or level ice is present along the coasts. In Lake Mälaren, there is rotten ice. In the Gulf of Finland, up to 40 cm thick fast ice is present in the easternmost bays. At sea, there is close to very close, 10–30 cm thick ice in the north east of about 27°E and very open ice in the south east of about 28°E. In the archipelagos and bays along the northern coast, there is fast ice. In in sheltered bays of the northeastern Gulf of Riga, there is rotten ice.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 45–70 cm thick fast ice and compact ice, out to Malören, Kemi-3 and Kattilankalla. Outside the fast ice in the north and northeast there is an area with level ice and new ice. At sea there is 30–60 cm thick, ridged, very close ice in the north. Further south at sea, there is 10–30 cm thick rafted

very close ice in the west and 20–40 cm thick, ridged and rafted, very close ice in the east down to the fast ice in the Vaasa archipelago. There are cracks in the whole ice field. In the southern archipelagos there is 20–40 cm thick fast ice. With a predominant southwesterly ice drift, ice growth and ice formation will continue.

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

Eisankünfte / Ice Information

Telefon: +49 (0) 381 4563 -780

Telefax: +49 (0) 381 4563 -949

E-Mail: ice@bsh.de

© BSH - All rights reserved
Reproduction in whole or in part prohibited

The Quark

There is 25–45 cm thick fast ice in the Vaasa archipelago out to Ensten. On the Swedish side, there is 30-50cm thick fast ice in inner bays. At sea, there is 2–25 cm thick, open to close ice north

of 63°N.

With a southwesterly ice drift, ice formation will continue.

Sea of Bothnia

In the archipelagos along the eastern coast, there is 10–30 cm thick fast ice. Along the western coast, there is thin level ice or thin ice in sheltered bays in the south and up to 40 cm thick fast ice in inner bays in the north. Outside there is open water in places. On Ångermanälven, there is 30–50

cm thick fast ice. At sea, in the northernmost part, there is very open ice and new ice.

With light frost in the south and moderate frost in the north, some new ice will form at and near the coast.

Archipelago Sea and Åland Sea

At the eastern coast, there is rotting or rotten ice in the inner bays, further out thin very open ice or open water in the archipelago. In the western and central part, thin level ice or open ice is present in

inner bays.

With mostly light frost some new ice formation may occur, but overall no larger change are expected.

Northern Baltic

In Lake Mälaren, there is rotten ice in the western part and open water in the central part.

Some ice formation may occur in Lake Mälaren, but overall no larger change is expected.

Gulf of Finland

From St. Petersburg out to Kotlin and in the bay north of Kotlin, there is 15–35 cm thick fast ice and 15–30 cm thick compact ice in the fairway. In the Bay of Vyborg, there is 15–30 cm thick fast ice and in the Bjerkesund, there is 10–25 cm thick fast ice. At sea in the northeast there is close and very close, 10–30 cm thick drift ice stretching to about 26°40' at the northern coast. The ice field is ridged

and rafted at some places. In the southeast there is very open ice, reaching to about Narva at the southern coast. Along the northern coast, there is 10–40 cm thick fast ice in the eastern archipelagos with thin ice outside. In the western archipelagos, there is rotten ice.

Some ice formation may occur with a westerly ice drift.

Gulf of Riga

In Väinameri, there is rotten fast ice near the coasts. In the Bay of Pärnu, there is a very narrow belt of drift ice near the coast.

Some ice may form, but no larger change is expected.

Skagerrak and Kattegat

New ice and up to 30 cm thick, partly rotten fast ice is present in some inner Norwegian fjords

No larger change is expected.

Swedish Lakes

Thin, very open ice or open water is present in sheltered bays of Lake Vänern.

Some ice formation may occur, but overall no larger change is expected.

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Finland	Tornio, Kemi and Oulu	4000 dwt	IA	22.02.
	Raahe	4000 dwt	IA	08.03.
	Kalajoki, Kokkola and Pietarsaari	2000 dwt	IA	08.03.
	Vaasa	2000 dwt	IB	08.03.
	Kristiinankaupunki, Pori, Rauma and Uusikaupunki	2000 dwt	II	12.03.
	Kaskinen, Inkoo, Kantvik, Helsinki, Sköldvik and Mussalo	2000 dwt	II	07.01.
	Loviisa and Kotka	2000 dwt	II	28.03.
	Hamina	2000 dwt	I	08.03.
Sweden	Karlsborg	4000 dwt (2000 t)	IA	28.02.
	Lulea	4000 dwt	IA	28.02.
	Haraholmen and Skelleftehamn	4000 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 Västerås	1300/2000 dwt	IC/II	23.03.
	Balsta	1300/2000 dwt	IC/II	22.12.
	Härnösand, Stocka, Hudiksvall, Iggesund, Orrskär and Norrsundet	2000 dwt	II	06.03.

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. URHO assists in the eastern Gulf of Finland.

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

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>
---	--

Estonia, 28.03.2023

Paernu, port and bay 2//1

Finland, 28.03.2023

Röyttä – Etukari 8546
 Etukari – Ristinmatala 6456
 Ajos – Ristinmatala 6456
 Ristinmatala – Kemi 2 5476
 Kemi 2 – Kemi 1 5476
 Sea area SW of Kemi 1 5146
 Kemi 2 – Ulkokrunni – Virpiniemi 6456
 Oulu harbours – Kattilankalla 6456
 Kattilankalla – Oulu 1 6456
 Sea area SW of Oulu 1 5476
 High Sea N of the latitude of Marjaniemi 5476
 Raahe harbour – Heikinkari 8446
 Heikinkari – Raahe lighthouse 7356
 Raahe lighthouse – Nahkiainen 5856
 Latitude Marjaniemi – Ulkokalla, Sea 5476
 Rahja harbour – Välimatala 7856
 Vaelimatala to line Ulkokalla – Ykskivi 5856
 Sea betw. lat. of Ulkokalla –Pietarsaari 7856
 Ykspihlaja – Repskär 7356
 Repskär – Kokkola lighthouse 5856
 Sea area off Kokkola lighthouse 5856
 Pietarsaari – Kallan 7856
 Sea area off Kallan 5856
 Sea lat. Pietarsaari – NE Nordvalen 5856
 Sea area ENE of Nordvalen 5856

Sea area Nordvalen to W of Norrskär 4756
 Vaskiluoto – Ensten 7756
 Ensten – Vaasa lighthouse 5756
 Vaasa lighthouse – Norrskär 3756
 Sea area SW of Norrskär 4756
 Kaskinen – Sälgrund 4045
 Sea area off Sälgrund 4045
 High sea from N to latitude Yttergrund 3752
 Pori harb. to line Pori lighth. – Säppi 0//5
 Rauma, Harbour – Kylmäpihlaja 1005
 Uusikaupunki harbour – Kirsta 8795
 Kirsta – Isokari 1005
 Naantali and Turku – Rajakari 1001
 Rajakari – Lövskär 1001
 Lövskär – Korra 1001
 Lövskär – Berghamn 1001
 Lövskär – Grisselborg 1001
 Hanko – Vitgrund 1001
 Inkoo a. Kantvik – sea area Porkkala 1005
 Helsinki harbours – Harmaja 1005
 Vuosaari harbour – Eestiluoto 1705
 Porvoo harbours – Varlax 1705
 Varlax – Porvoo lighthouse 1705
 Valko Harbour – Täktarn 3135
 Archipelago fairway Boistö – Glosholm 3135
 Archipelago fairway Glosholm–Helsinki 1705
 Kotka – Viikari 8845
 Viikari – Orregrund 3135
 Orregrund – Tiiskeri 3135

Tiiskeri – Kalbådagrund	1702
Hamina – Suurmusta	5756
Suurmusta – Merikari	4756
Merikari – Kaunissaari	4756

Norway, 28.03.2023

Svinesund – Halden	31//
Drammensfjord	1001
Husøysund – Tønsberg channel	8345
Tønsberg, inner harbour	8353
Vestfjord (Tønsberg)	8555
Langårsund (Kragerø)	8144

Russian Federation, 28.03.2023

Port of St. Petersburg	84/3
St. Petersburg – E-point island Kotlin	53/3
E-point Kotlin – long. lighth. Tolbuhkin	3303
Lighth. Tolbuhkin – lighth. –Šepelevskij	42/3
Lighthouse Šepelevskij – island Sescar	53/2
Island Sescar – Island Sommers	53/2
Vyborg, port and bay	83/3
Island Vichrevoj – Island Sommers	53/3
Strait Bjerkesund	83/3
E-point Bol'šoj Ber'ozovyj – Šepelevskij	52/2

Sweden, 28.03.2023

Karlsborg – Malören	6456
Sea area off Malören	5576
Luleå – Björnklack	6356
Björnklack – Farstugrunden	6356
E and SE of Farstugrunden	5356
Sandgrönn fairway	6356
Rödkaullen – Norströmsggrund	6356
Haraholmen – Nygrån	6356
Sea area off Nygrån	5246
Skelleftehamn – Gåsören	6356
Sea area off Gåsören	6356
Sea area off Bjuröklubb	6356
NE of Nordvalen	5356
SW of Nordvalen	3356
Western Quark (W of Holmöarna)	3356
Umeå – Väktaren	8446
SE of Väktaren	3356
NE and SE of Sydostbrotten	4356
Fairway to Husum	5246
Örnsköldsvik – Hörnskatan	8446
Hörnskatan – Skagsudde	8446
Sea area off Skagsudde	4356
Fairway W of Ulvöarna	2356
Sea area E of Ulvöarna	2356
Ångermanälven north Sandö Bridge	8444
Ångermanälven south Sandö Bridge	8444
Härnösand – Härnön	5144
Sundsvall – Draghällan	5146
Draghällan – Åstholmsudde	1006
Hudiksvallfjärden	8346
Iggesund – Agö	8346
Sandarne – Hällgrund	8346
Ljusnefjärden – Storjungfrun	8346
Gävle – Eggegrund	1000

Hallstavik – Svartklubben	5142
Köping – Kvikksund	8294
Västerås – Grönsö	8294
Grönsö – Södertälje	1004
Stockholm – Södertälje	3124
Fairway to Karlstad	1101
Fairway to Kristinehamn	1000
Fairway to Otterbäcken	1000