

Eisbericht Nr. 84

Amtsblatt des BSH

Jahrgang 96

Nr. 84

Monday, 27.03.2023

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Übersicht

In den Schären der Bottenwiek befindet sich im Norden bis 65 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 aufgedrücktes Eis mit Spalten, welches im Norden bis 60 cm dick und im Süden bis 30 cm dick ist. In Kvarnen 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 östlich von etwa 28°E sehr dichtes, 10–30 cm dickes Eis im Norden und im Süden kommt 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 65 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 east of about 28°E, there is very close, 10–30 cm thick ice in the north and very open ice in the south. In the archipelagos and bays along the northern coast, there is fast ice. In sheltered bays of the northeastern Gulf of Bothnia, there is rotten ice.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 45–65 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. 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. There are cracks in the whole ice field. In the southern Bay of Bothnia, there is 20–40 cm thick fast ice in the archipelagos. 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

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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. 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 extreme northeastern part there is very open ice and new ice. With temperatures below 0°C some new ice will form at and near the coast over the weekend, more so in the north.

Archipelago Sea and Åland Sea

At the eastern coast, there is 5–20 cm rotting fast 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 is present in inner bays

and open water further out. With air temperatures below 0°C some new ice formation may occur, but overall no larger change are expected.

Northern Baltic

In Lake Mälaren, there is rotten ice in the inner western part; else, there is open water.

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 mostly very close, 10–30 cm thick drift ice. The ice field is ridged and rafted at places. 2-15cm thick, very open ice drifts

in and outside the Luga and Koproye Bay. Along the northern coast, there is 15–40 cm thick fast ice in the eastern archipelagos. Further out, there is very open to close ice. In the western archipelagos, there is 5–20 cm thick, rotting fast 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 belt of very close 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 fast is present in some inner Norwegian Fjords and the Oslo area. Close new ice is present in the Drammensfjord.

Some ice may form, but 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, 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, Kotka and Hamina	2000 dwt	I	08.03.
	Sweden	Karlsborg	4000 dwt (2000 t)	IA
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 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: 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, 27.03.2023

Paernu, port and bay 3//1

Finland, 27.03.2023

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 4041
 Pori harb. to line Pori lighth. – Säppi 0//5
 Rauma, Harbour – Kylmäpihlaja 1005
 Uusikaupunki harbour – Kirsta 8745
 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 2126
 Archipelago fairway Boistö – Glosholm 2126
 Archipelago fairway Glosholm–Helsinki 1705
 Kotka – Viikari 8845
 Viikari – Orregrund 2125
 Orregrund – Tiiskeri 2126

Hamina – Suurmusta	5756	Västerås – Grönsö	8294
Suurmusta – Merikari	5756	Grönsö – Södertälje	1004
Merikari – Kaunissaari	3756	Stockholm – Södertälje	3124
Norway, 27.03.2023		Fairway to Karlstad	1101
Svinesund – Halden	31//	Fairway to Kristinehamn	2020
Drammensfjord	1001	Fairway to Otterbäcken	1000
Husøysund – Tønsberg channel	8345		
Tønsberg, inner harbour	8353		
Vestfjord (Tønsberg)	8555		
Langårsund (Kragerø)	8144		

Russian Federation, 27.03.2023

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, 27.03.2023

Karlsborg – Malören	6456
Sea area off Malören	5576
Luleå – Björnklack	6356
Björnklack – Farstugrunden	6356
E and SE of Farstugrunden	5356
Sandgrönn fairway	6356
Rödkaullen – Norströmsgrund	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	3356
Fairway W of Ulvöarna	2356
Sea area E of Ulvöarna	2356
Ångermanälven north Sandö Bridge	8444
Ångermanälven south Sandö Bridge	8444
Härnösand – Härnön	2124
Sundsvall – Draghällan	5146
Draghällan – Åstholmsudde	1006
Hudiksvallfjärden	8346
Iggesund – Agö	8346
Sandarne – Hällgrund	8346
Ljusnefjärden – Storjungfrun	8346
Gävle – Eggegrund	1000
Hallstavik – Svartklubben	5142
Köping – Kvicksund	8294