



Eisbericht Nr. 81

Amtsblatt des BSH

Jahrgang 96

Nr. 81

Wednesday, 22.03.2023

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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. Im Westen befindet sich eine Meereisrinne bis nach Kvarken. Auf See treibt zumeist sehr dichtes, aufgeschobenes und aufgedrücktes Eis, welches im Norden bis 60 cm dick und im Süden bis 30 cm dick ist. Im Südosten kommen entlang des Festeises Gebiete mit sehr lockerem Eis vor. In Kvarken liegt bis 45 cm dickes Festeis in den Schären und Buchten und auf See kommt 5–20 cm dickes, sehr 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 5–15 cm dickes Eis oder Neueis. Im Finnischen Meerbusen liegt in den östlichsten Buchten bis 50 cm dickes Festeis. Auf See treibt östlich von etwa 27°30'E sehr dichtes, 5–25 cm dickes Eis und im Süden treibt in der Koproye und Luga Bucht zumeist sehr lockeres Eis. In den Schären und Buchten entlang der nördlichen Küste kommt Festeis vor. Im Nordosten des Rigaischen Meerbusen befindet sich in geschützten Buchten 10–20 cm dickes Festeis oder sehr dichtes 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. Along the western coast runs a lead of very open ice to the Quark. At sea, there is ridged and rafted, mostly very close ice that is up to 60 cm thick in the north and up to 30 cm thick in the south. Along the fast ice in the southeast, there are areas of very open ice. In the Quark, there is up to 45 cm thick fast ice in the archipelagos and bays and at sea, there is 5–20 cm thick, very 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 5–15 cm thick ice and new ice. In the Gulf of Finland, up to 50 cm thick fast ice is present in the easternmost bays. At sea east of about 27°30'E, there is very close, 5–25 cm thick ice and in Koproye and Luga bay there is mostly very open ice. 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.

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. Of the fast ice in the west, there is a lead of very open ice from Nygrån to the Quark. At sea, there is very

close, 30–60 cm thick and ridged ice north of about 65°00'N and 30–50 cm thick, ridged and very close ice further south in the east. Else at sea to the Quark, there is 10–30 cm thick rafted very close ice in the west and 10–40 cm thick, ridged and

Herstellung und Vertrieb

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rafted, very close ice in the east extending southwards to about the latitude of Pietarsaari. In the southern Bay of Bothnia, there is 15–40 cm thick fast ice in the archipelagos and areas of very open

The Quark

There is 25–45 cm thick fast ice in the Vaasa archipelago out to Ensten. Further out, there is 5–20 cm thick very open ice and concentration to Norrskär. On the Swedish side, there is mostly up to 35 cm thick fast ice in inner bays. At sea, there is 5–20 cm thick, open to very close ice north of

Sea of Bothnia

In the archipelagos along the eastern coast, there is 15–30 cm thick fast ice. Further out in the north, there is very close ice with a brash ice barrier. Further out in the south, there is thin ice of varying concentration. Along the western coast, there is thin level ice or thin ice in sheltered bays in the

Archipelago Sea and Åland Sea

At the eastern coast, there is 5–20 cm fast or level ice in the inner bays and thin ice further out in the archipelago. In the western and central part, thin

Northern Baltic

In Lake Mälaren, there is 5–15 cm thick fast in the western part. Else, there is thin ice or open water. Thin ice occurs in sheltered places along the outer

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 20–35 cm thick compact ice in the fairway. In the Bay of Vyborg, there is 15–35 cm thick fast ice and in the Bjerkesund, there is 15–25 cm thick fast ice. East of about 27°30'E, there is mostly very close, 5–25 cm thick drift ice. The ice field is ridged and rafted at places and also cracks occur. Areas of

Gulf of Riga

In Väinameri, there is 5–20 cm thick rotten fast ice and very close drift ice near the coasts. Outside is open water. In the Bay of Pärnu, there is mostly close to very close drift ice up to about the line

Skagerrak and Kattegat

New ice and up to 30 cm thick fast is present in some inner Norwegian Fjords and the Oslo area.

Swedish Lakes

Thin level ice or thin ice of varying concentration is present in sheltered bays of Lake Vänern.

ice further out south of the latitude of Pietarsaari. Ice growth and ice formation will continue the coming day and the ice will drift towards the southwest.

about 63°25'N with very open ice along the northern fast ice edge of the eastern archipelago. In the beginning only weak ice drift and ice formation is expected, but latter northerly winds will lead to increasing sea ice formation and a southerly ice drift.

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. Some ice melt is expected in the south, but in the north new ice formation is possible.

level ice is present in inner bays and thin ice further out. Ice melt is expected the coming day.

coast. Ice melt is expected the coming day.

very open to open drift ice are present in Luga and Koproye Bay and to about Seskar in the north. Along the northern coast, there is 15–35 cm thick fast ice in the eastern archipelagos. Further out, there is open to very close ice. In the western archipelagos, there is 5–20 cm thick fast ice. Ice melt expected the coming day. The ice will drift to the northeast.

Saulepa – Uulu. Further out it is mostly ice free. Ice melt is expected the coming day and there will be some ice drift to the northeast.

Close new ice is present in the Drammensfjord. Some ice melt is expected the coming day.

Ice melt is expected the coming day.

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		2000 dwt	IC	06.03.
Balsta		1300/2000 dwt	IC/II	22.12.
Härnösand, Stocka, Hudiksvall, Iggesund, Orrrskar and Norrsundet		2000 dwt	II	06.03.

Estonia**Icebreakers:**

BOTNICA assists to the port of Sillamae.

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, ODEN, 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, 22.03.2023

Paernu, port and bay 51/2

Finland, 22.03.2023

Röyttä – Etukari 8546
 Etukari – Ristinmatala 6456
 Ajos – Ristinmatala 6456
 Ristinmatala – Kemi 2 5476
 Kemi 2 – Kemi 1 5476
 Sea area SW of Kemi 1 5476
 Kemi 2 – Ulkokrunni – Virpiniemi 6456
 Oulu harbours – Kattilankalla 7456
 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 5356
 Latitude Marjaniemi – Ulkokalla, Sea 5476
 Rahja harbour – Välimatala 7356
 Vaelimatala to line Ulkokalla – Ykskivi 5356
 Sea betw. lat. of Ulkokalla –Pietarsaari 5356
 Ykspihlaja – Repskär 7356
 Repskär – Kokkola lighthouse 5356
 Sea area off Kokkola lighthouse 5356
 Pietarsaari – Kallan 8846
 Sea area off Kallan 5356
 Sea lat. Pietarsaari – NE Nordvalen 3326
 Sea area ENE of Nordvalen 3736

Sea area Nordvalen to W of Norrskär 2726
 Vaskiluoto – Ensten 7756
 Ensten – Vaasa lighthouse 5756
 Vaasa lighthouse – Norrskär 1756
 Kaskinen – Sälgrund 5755
 Sea area off Sälgrund 5165
 Pori harb. to line Pori lighth. – Säppi 8745
 Rauma, Harbour – Kylmäpihlaja 2025
 Uusikaupunki harbour – Kirsta 8745
 Kirsta – Isokari 2105
 Naantali and Turku – Rajakari 3112
 Rajakari – Lövskär 1000
 Lövskär – Korra 1000
 Lövskär – Berghamn 1000
 Lövskär – Grisselborg 1000
 Hanko – Vitgrund 1000
 Inkoo a. Kantvik – sea area Porkkala 1005
 Helsinki harbours – Harmaja 2005
 Vuosaari harbour – Eestiluoto 2005
 Porvoo harbours – Varlax 5145
 Varlax – Porvoo lighthouse 1755
 Valko Harbour – Täktarn 5146
 Archipelago fairway Boistö – Glosholm 5146
 Archipelago fairway Glosholm–Helsinki 5145
 Kotka – Viikari 8345
 Viikari – Orregrund 5755
 Orregrund – Tiiskeri 3756
 Hamina – Suurmusta 5756
 Suurmusta – Merikari 5756

Merikari – Kaunissaari	5756	Hallstavik – Svartklubben	5142
Norway, 22.03.2023		Stockholm – Trälhavet – Klövholmen	2020
Svinesund – Halden	31//	Köping – Kvicksund	8244
Drammensfjord	5011	Västerås – Grönsö	8244
Husøysund – Tønsberg channel	8345	Grönsö – Södertälje	5144
Tønsberg, inner harbour	8353	Stockholm – Södertälje	5144
Vestfjord (Tønsberg)	8555	Södertälje – Fifong	4044
Langårsund (Kragerø)	8144	Fairway to Karlstad	2121
		Fairway to Kristinehamn	2020
		Fairway to Otterbäcken	1000
Russian Federation, 22.03.2023			
Port of St. Petersburg	84/3		
St. Petersburg – E-point island Kotlin	53/3		
E-point Kotlin – long. lighth. Tolbukhin	5303		
Lighth. Tolbukhin – lighth. –Šepelevskij	41/3		
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	53/2		
Luga bay	33/3		
Apr. Luga bay – line Moš.-Šepel.	23/2		
Sweden, 22.03.2023			
Karlsborg – Malören	6456		
Sea area off Malören	5576		
Luleå – Björnklack	8546		
Björnklack – Farstugrunden	5356		
E and SE of Farstugrunden	5356		
Sandgrönn fairway	8546		
Rödkallen – Norströmsgrund	5356		
Haraholmen – Nygrån	8546		
Sea area off Nygrån	5356		
Skelleftehamn – Gåsören	5356		
Sea area off Gåsören	5356		
Sea area off Bjuröklubb	5356		
NE of Nordvalen	2326		
SW of Nordvalen	4356		
Western Quark (W of Holmöarna)	8346		
Umeå – Väktaren	8446		
SE of Väktaren	2356		
Fairway to Husum	1356		
Örnsköldsvik – Hörnskatan	8446		
Hörnskatan – Skagsudde	8446		
Sea area off Skagsudde	1356		
Fairway W of Ulvöarna	1356		
Sea area E of Ulvöarna	1356		
Ångermanälven north Sandö Bridge	8444		
Ångermanälven south Sandö Bridge	4044		
Härnösand – Härnön	2124		
Sundsvall – Draghällan	5146		
Draghällan – Åstholmsudde	3026		
Hudiksvallfjärden	8346		
Iggesund – Agö	8346		
Sandarne – Hällgrund	8346		
Ljusnefjärden – Storjungfrun	8346		
Sea area off Storjungfrun	1006		
Gävle – Eggegrund	5142		
Öregrundsgrepen	1101		