

Eisbericht Nr. 36 Amtsblatt des BSH

Jah	rgang 96	Nr. 36	Tuesday, 17.01.2023	1	
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Übersicht

In den Schären der Bottenwiek befindet sich bis 40 cm dickes Festeis. Weiter außerhalb treibt im Norden 10–30 cm dickes, sehr dichtes Eis mit festgestampften Eis an der Eiskante. In der südlichen Bottenwiek befindet sich in den Buchten dünnes ebenes Eis oder Festeis. In Norra Kvarken liegt bei Vaasa bis 25 cm dickes Festeis. Ansonsten kommt an den Küsten dünnes ebenes 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 oder sehr dichtes Eis. In den Schären und Buchten entlang der Küsten kommt im Norden Festeis vor. Im Nordosten des Rigaischen Meerbusen befindet sich 10–25 cm dickes Festeis in geschützten Buchten und etwas weiter außerhalb Treibeis verschiedener Konzentration.

Overview

In the archipelagos of the Bay of Bothnia, there is up to 40 cm thick fast ice. Further out in the north, there is 10–30 cm thick, very close ice with a brash ice barrier along the ice edge. In the southern Bay of Bothnia, there is thin level ice or fast ice in the inner bays. In the Quark, there is up to 25 cm thick fast ice near Vaasa and else thin level ice along the coasts. In the Sea of Bothnia and the Archipelago Sea, there is fast ice or thin level ice along the coasts. In Lake Mälaren, there is thin level ice and new ice. In the Gulf of Finland, there is up to 40 cm thick fast ice or very close ice in the easternmost bays. In the archipelagos and bays along the coasts, there is fast ice in the north. In the northeastern Gulf of Riga, there is 10–25 cm thick fast ice in sheltered bays and drifting ice of varying concentration somewhat further out.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 20–40 cm thick fast ice. Further out there is a region of 15–30 cm thick, very close ice to about the line Rödkallen – Malören – Oulu5. In the north the ice is partly rafted or ridged and there is a brash ice barrier at the edge. On the Swedish side follows a band of open to close ice that is up to 20 cm thick. Thin very open ice drifts in places from

Löyhä to Oulun portti and also off Raahe. In the southern Bay of Bothnia, there is 5–20 cm thick level or fast ice in the archipelagos and open water somewhat further out.

Some ice formation is possible in the western part but else no larger changes. The ice will drift to the northwest.

The Quark

There is 10-25 cm thick fast ice in the Vaasa ar-

chipelago out to Nygrund. Further out, there is very

Herstellung und Vertrieb

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

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© BSH - All rights reserved Reproduction in whole or in part prohibited open ice in places. On the Swedish side, there is mostly fast ice in inner bays along the coast and thin close ice further out. At sea, there is open water with stripes and patches of shuga at places. No major changes with a westerly/northwesterly ice drift are expected.

Sea of Bothnia

In the archipelagos along the eastern coast, there is 5–20 cm thick fast ice and in places shuga. Along the western coast there is thin level ice in sheltered bays. On Ångermanälven, there is 10–20

cm thick fast or level ice. New ice has formed along the Swedish coast north of 61°N.

New ice formation will cease and the ice will drift to the west/northwest.

Archipelago Sea

At the eastern coast, there is 3–10 cm fast or level ice in the inner bays.

No major changes are expected.

Northern Baltic

In Lake Mälaren, 3–10 cm thick level ice is present in the western part. New ice occurs in sheltered

places and along the coast. No major changes are expected.

Gulf of Finland

From St. Petersburg out to Kotlin there is 20–40 cm thick fast ice, with 10–25 cm thick, very close ice on the fairway. In the bay north of Kotlin there is 20–30 cm thick fast ice at the coast and 10–20 cm thick very close ice outside. In the Bay of Vyborg, there is 15–25 cm thick fast ice. Further out, there is level ice followed by 5–15 cm thick, close ice to about Nerva. In the Bjerkesund, there is 5–

15 cm thick fast ice with 5–15 cm thick, very close ice at the entrance. Along the northern coast, there is 5–20 cm thick fast ice in the eastern archipelagos with shuga in places at the edge. In the western archipelagos thin ice.

The general ice situation will not change much the coming day.

Gulf of Riga

In Väinameri, there is 10–25 cm thick fast ice in sheltered bays open water on the fairways. In the Bay of Pärnu, there is 10–20 cm thick fast ice and further out to the line south tip of Manilaid – Pikla

Nina, there is 10–20 cm thick, very close ice. Some ice melt may occur but overall no major change is expected.

Southeastern Baltic

In the Curonian Lagoon, there is 3–10 cm thick, very close drift ice in the western part.

Some ice melt is expected.

Skagerrak and Kattegat

Up to 10 cm thick ice or new ice is present in some Norwegian Fjords.

No major changes are expected.

Swedish Lakes

New ice and thin level ice is present in some sheltered bays of Lake Vänern.

No major changes are expected the coming day.

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	2000 dwt	IB	07.01.
	Raahe, Kalajoki, Kokkola, Pietarsaari and Vaasa	2000 dwt	I	07.01.
	Kaskinen, Inkoo, Kantvik, Helsinki, Sköldvik and Mussalo	2000 dwt	II	07.01.
	Loviisa, Kotka and Hamina	2000 dwt	I	24.12.
Sweden	Karlsborg and Lulea	2000 dwt	IB	08.01.
	Haraholmen and Skelleftehamn	2000 dwt	IC	25.12.
	Holmsund, Rundvik, Husum and Örnsköldvik	2000 dwt	II	21.12.
	Angermanälven	2000 dwt	IB	07.01.
	Köping	2000 dwt	IC	07.01.
	Västeras	2000 dwt	IC	07.01.
	Balsta	1300/2000 dwt	IC/II	22.12.

Estonia

Icebreakers:

EVA-316 assists in the port of Pärnu.

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.

Icebreakers:

KONTIO, OTSO, ATLE, YMER and FREJ assist in the Bay of Bothnia. ZEUS assists in the Quark and the Sea of Bothnia. ALE assists in the Quark. CALYPSO assists in the region of Kotka and Hamina.

Russia

There are restrictions for small crafts going to Vysotsk, Vyborg, St. Petersburg, Ust-Luga and Primorsk.

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 0 Ice free Open water – concentration less than 1/10 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 Fast ice with drift ice outside Fast ice Lead in very close or compact drift ice or along the fast Ice edge Unable to report Third number: **T**_B **Topography or form of ice**0 Pancake ice, ice cakes, brash ice – less than 20 m across 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

Compact slush or shuga, or compacted brash ice

Thaw holes or many puddles on the ice

No information or unable to report

Rafted ice

Rotten ice

Hummocked or ridged ice

Second number:

S_B 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

8 Ice predominantly grey-white ice (15 – 30 cm) with some thicker ice

9 Ice predominantly thicker than 30 cm with some thinner

No information or unable to report

ssels

ly for able

hout

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

Estonia, 17.01.2023 Paernu, port and bay 7385 Moonsund 1//0 Finland, 17.01.2023 Röyttä – Etukari 8846 Etukari – Ristinmatala 7356 Ajos – Ristinmatala 7356 Ristinmatala - Kemi 2 5356 Kemi 2 - Kemi 1 5356 Sea area SW of Kemi 1 0//6 Kemi 2 – Ulkokrunni – Virpiniemi 7356 Oulu harbours - Kattilankalla 7356 Kattilankalla – Oulu 1 5356 Sea area SW of Oulu 1 1106 High Sea N of the latitude of Marjaniemi 0//6 Raahe harbour – Heikinkari 1106 Heikinkari – Raahe lighthouse 1106 Raahe lighthouse – Nahkiainen 1106 Latitude Marjaniemi – Ulkokalla, Sea 1106 Rahja harbour – Välimatala 5146 Vaelimatala to line Ulkokalla – Ykskivi 1106 Sea betw. lat. of Ulkokalla -Pietarsaari 1106 Ykspihlaja - Repskär 5146 Repskär – Kokkola lighthouse 1106 Sea area off Kokkola lighthouse 1106 Pietarsaari - Kallan 1106 Sea area off Kallan 1106

1106

Sea lat. Pietarsaari - NE Nordvalen

Sea area ENE of Nordvalen 1106 Sea area Nordvalen to W of Norrskär 1106 Vaskiluoto - Ensten 8746 Ensten - Vaasa lighthouse 1106 Vaasa lighthouse - Norrskär 1106 Kaskinen - Sälgrund 8745 Sea area off Sälgrund 5165 Pori harb. to line Pori lighth. - Säppi 1101 Uusikaupunki harbour - Kirsta 8142 Inkoo a. Kantvik - sea area Porkkala 7105 Helsinki harbours - Harmaja 5145 Vuosaari harbour - Eestiluoto 5145 Valko Harbour - Täktarn 8745 Kotka – Viikari 5165 8745 Hamina – Suurmusta Suurmusta – Merikari 8745 Norway, 17.01.2023 Svinesund – Halden 31// Drammensfjord 3212 Tønsberg, inner harbour 8101 Langårsund (Kragerø) 8144 Russian Federation, 17.01.2023 Port of St. Petersburg 83/3 St. Petersburg – E-point island Kotlin 33/2 E-point Kotlin – long. lighth. Tolbuhkin 5202 Vyborg, port and bay 83/3 Island Vichrevoj - Island Sommers 4002

	Fourth number:
K	B Navigation conditions in ice
	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 ves
	even with ice sheathing not advisable
3	Navigation without icebreaker assistance possible only
	high-powered vessels of strong construction and suital
	for navigation in ice
4	Navigation proceeds in lead or broken ice-channel with
_	the assistance of an icebreaker
5	Icebreaker assistance can only be given to vessels
_	suitable for navigation in ice and of special size
h	Icehreaker assistance can only be given to vessels of

Strait Bjerkesund E-point Bol'šoj Ber'ozovyj – Šepelevskij	81/2 50/2
Sweden, 17.01.2023	
Karlsborg – Malören	8446
Sea area off Malören	5366
Luleå – Björnklack	8446
Björnklack – Farstugrunden	4356
E and SE of Farstugrunden	4356
Sandgrönn fairway	8446
Rödkallen – Norströmsgrund	4356
Haraholmen – Nygrån	8346
Sea area off Nygrån	4352
Skelleftehamn – Gåsören	5236
Sea area off Gåsören	3126
Sea area off Bjuröklubb	5246
NE of Nordvalen	1106
SW of Nordvalen	1106
Western Quark (W of Holmöarna)	4136
Umeå – Väktaren	8346
SE of Väktaren	4136
Fairway to Husum	4136
Örnsköldsvik – Hörnskaten	8246
Hörnskaten – Skagsudde	4136
Sea area off Skagsudde	4136
Fairway W of Ulvöarna	4046
Sea area E of Ulvöarna	4046
Ångermanälven north Sandö Bridge	8344
Ångermanälven south Sandö Bridge	8344
Härnösand – Härnön	5044
Sea area off Härnö	4041
Sundsvall – Draghällan	8242
Draghällan – Åstholmsudde	4041
Off Åstholmsudde and Brämön	4041
Hudiksvallfjärden	5242
Iggesund – Agö	5242
Sandarne – Hällgrund	5142
Ljusnefjärden – Storjungfrun	5142
Gävle – Eggegrund	5142
Hallstavik – Svartklubben	4041
Köping – Kvicksund	5144
Västerås – Grönsö	5144
Grönsö – Södertälje	1004
Stockholm – Södertälje	1004
Enirway to Karletad	E112

5142

Fairway to Karlstad