



Eisbericht Nr. 98

Amtsblatt des BSH

Jahrgang 96

Nr. 98

Tuesday, 18.04.2023

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Übersicht

In den Schären der Bottenwiek befindet sich im Norden bis 70 cm dickes Festeis und im Süden bis 40 cm dickes Festeis. Auf See treibt zumeist sehr dichtes, aufgeschobenes und aufgepresstes Eis mit Spalten, welches im Norden bis 60 cm dick und im Süden bis 40 cm dick ist. Entlang des Festeises im Osten hat sich eine breite Rinne mit sehr lockerem Eis gebildet. In Kvarken liegt bis 50 cm dickes Festeis in den Schären und Buchten. Auf See kommt lockereres bis sehr dichtes, im Norden bis 40 cm dickes, Eis vor. In der Bottensee kommt entlang der Küsten im Süden und Osten morsches Eis vor und im Nordwesten bis 50 cm dickes Festeis. Im Schärenmeer und den nordöstlichen Schären und Buchten des Finnischen Meerbusens liegt morsches Eis. Im östlichen Finnischen Meerbusen ist weiter außerhalb zumeist offenes Wasser mit vereinzelt dünnen Treibeis.

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. At sea, there is mostly ridged and rafted, very close ice with cracks, which is up to 60 cm thick in the north and up to 40 cm thick in the south. Along the eastern fast ice, there is a wide lead with very open ice. In the Quark, there is up to 50 cm thick fast ice in the archipelagos and bays. At sea, there is open to very close, in the northern part up to 40 cm thick, ice. In the Sea of Bothnia, there is rotten ice along the coast in the south and east and up to 50 cm thick fast ice in the northwest. In the Archipelago Sea and the northeastern archipelagos and bays of the Gulf of Finland, there is rotten ice. Further out in the eastern Gulf of Finland, there is open water with thin ice at a few places.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 40–70 cm thick fast ice and compact ice, out to Malören, Lallinmöyly and Oulu-2. Off the fast ice in the east, there is a 5–20 NM wide, navigable lead with very open drift ice. At sea, there is 30–60 cm thick, very close ice in the northern central part and 10–40 cm thick, very close ice else at sea. The

entire ice field is partly ridged and rafted but also cracks and leads occur. The fast ice in the south eastern archipelagos is 20–40 cm thick.

There will be no major changes the coming day but some slow ice melt and only minor ice drift to the east/northeast.

The Quark

There is 25–45 cm thick fast ice in the Vaasa archipelago out to Ensten and some drifting floes

further out. On the Swedish side, there is 25–50 cm thick fast ice in inner bays and 10–30 cm fast

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

www.bsh.de/eis

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Nachdruck, auch auszugsweise, verboten

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ice around Holmöarna. At sea north of Nordvalen, there is 10–40 cm thick, very close ice. Southwest of Nordvalen there is a belt of 5–20 cm thick drifting ice of varying concentration to about Vallins-

Sea of Bothnia

Along the eastern coast, there is rotten fast ice in the inner archipelago and open water along the larger fairways. In the western part, there is thin open ice in some inner bays in the south, further north is 5–30 cm fast or rotten ice in some inner

Archipelago Sea and Åland Sea

Rotten ice is present in archipelagos and bays in the east and at places in the central and western part. Along the larger fairways in the east is open

Northern Baltic

In Lake Mälaren is mostly open water but rotten ice may be present in a few bays and between is-

Gulf of Finland

In the archipelagos and bays along the northern coast, there is rotten ice eastwards from Helsinki. Further out is open water with thin drifting ice at a

grundet. Else at sea, there is mostly open water with some stripes and patches. Slow ice melt is expected the coming day and there will be only minor ice drift.

bays; in the north and on Ångermanälven, there is 20–50 cm thick fast ice or rotten ice. Further out in the north, there is open water with some strings of thin ice.

Some ice melt is expected the coming day.

water.

Melting will continue the coming day.

lands.

Melting will continue the coming day.

few places.

Ice melt continues the coming day and there is a mostly moderate to fresh breeze from the north.

Dr. W. Aldenhoff

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	I	17.04.
	Lake Saimaa	2000 dwt	IB	01.04.
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	II	18.04.
	Angermanälven	2000 dwt	IC	18.04.
	Söraker and Sundsvall	-	cancelled	18.04.
	Härnösand	-	cancelled	18.04.

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, SISU, ATLE, YMER and FREJ assist in the Bay of Bothnia. OTSO and ZEUS assist in the southern Bay of Bothnia and in the Quark. ALE assists in the Quark.

Baltic Sea Ice Code

<p>First number:</p> <p>A_B Amount and arrangements of sea ice</p> <p>0 Ice free</p> <p>1 Open water – concentration less than 1/10</p> <p>2 Very open ice - concentration 1/10 to 3/10</p> <p>3 Open ice – concentration 4/10 to 6/10</p> <p>4 Close ice – concentration 7/10 to 8/10</p> <p>5 Very close ice – concentration 9/10 to 9+/10</p> <p>6 Compact ice, including consolidated ice – concentration 10/10</p> <p>7 Fast ice with drift ice outside</p> <p>8 Fast ice</p> <p>9 Lead in very close or compact drift ice or along the fast ice edge</p> <p>/ Unable to report</p> <p>Third number:</p> <p>T_B Topography or form of ice</p> <p>0 Pancake ice, ice cakes, brash ice – less than 20 m across</p> <p>1 Small ice floes – 20 to 100 m across</p> <p>2 Medium ice floes – 100 to 500 m</p> <p>3 Big ice floes – 500 to 2000 m across</p> <p>4 Vast or giant ice floes – more than 2000 m across – or level ice</p> <p>5 Rafted ice</p> <p>6 Compact slush or shuga, or compacted brash ice</p> <p>7 Hummocked or ridged ice</p> <p>8 Thaw holes or many puddles on the ice</p> <p>9 Rotten ice</p> <p>/ No information or unable to report</p>	<p>Second number:</p> <p>S_B Stage of ice development</p> <p>0 New ice or dark nilas (less than 5 cm thick)</p> <p>1 Light nilas (5 - 10 cm thick) or ice rind</p> <p>2 Grey ice (10 - 15 cm thick)</p> <p>3 Grey-white ice (15 - 30 cm thick)</p> <p>4 White ice, first stage (30 - 50 cm thick)</p> <p>5 White ice, second stage (50 - 70 cm thick)</p> <p>6 Medium first year ice (70 - 120 cm thick)</p> <p>7 Ice predominantly thinner than 15 cm with some thicker ice</p> <p>8 Ice predominantly grey-white ice (15 – 30 cm) with some thicker ice</p> <p>9 Ice predominantly thicker than 30 cm with some thinner ice</p> <p>/ No information or unable to report</p> <p>Fourth number:</p> <p>K_B Navigation conditions in ice</p> <p>0 Navigation unobscured</p> <p>1 Navigation difficult or dangerous for wooden vessels without ice sheathing</p> <p>2 Navigation difficult for unstrengthened or low-powered vessels built of iron or steel. Navigation for wooden vessels even with ice sheathing not advisable</p> <p>3 Navigation without icebreaker assistance possible only for high-powered vessels of strong construction and suitable for navigation in ice</p> <p>4 Navigation proceeds in lead or broken ice-channel without the assistance of an icebreaker</p> <p>5 Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size</p> <p>6 Icebreaker assistance can only be given to vessels of special ice class and of special size</p> <p>7 Icebreaker assistance can only be given to vessels after special permission</p> <p>8 Navigation temporarily closed</p> <p>9 Navigation has ceased</p> <p>/ Unknown</p>
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Finland, 18.04.2023

Röyttä – Etukari	8546
Etukari – Ristinmatala	6476
Ajos – Ristinmatala	6476
Ristinmatala – Kemi 2	6476
Kemi 2 – Kemi 1	9326
Sea area SW of Kemi 1	9726
Kemi 2 – Ulkokrunni – Virpiniemi	6476
Oulu harbours – Kattilankalla	8546
Kattilankalla – Oulu 1	6476
Sea area SW of Oulu 1	6476
High Sea N of the latitude of Marjaniemi	5476
Raahe harbour – Heikinkari	8446
Heikinkari – Raahe lighthouse	6476
Raahe lighthouse – Nahkiainen	9316
Latitude Marjaniemi – Ulkokalla, Sea	5476
Rahja harbour – Välimatala	6856
Vaelimatala to line Ulkokalla – Ykskivi	9856
Sea betw. lat. of Ulkokalla – Pietarsaari	7356
Ykspihlaja – Repskär	8846
Repskär – Kokkola lighthouse	7356
Sea area off Kokkola lighthouse	9816
Pietarsaari – Kallan	8846
Sea area off Kallan	9816
Sea lat. Pietarsaari – NE Nordvalen	5356
Sea area ENE of Nordvalen	5356
Sea area Nordvalen to W of Norrskär	5356
Vaskiluoto – Ensten	7756
Ensten – Vaasa lighthouse	1106

Vaasa lighthouse – Norrskär	3756
Sea area SW of Norrskär	1106
Uusikaupunki harbour – Kirsta	1100
Valko Harbour – Täktarn	1200
Kotka – Viikari	1200
Viikari – Orregrund	1200
Orregrund – Tiiskeri	1200
Tiiskeri – Kalbådagrund	1200
Hamina – Suurmusta	1200
Suurmusta – Merikari	1200
Merikari – Kaunissaari	1200

Russian Federation, 18.04.2023

Island Sommers– S-point island Gogland	11/1
Vyborg, port and bay	42/2
Island Vichrevoj – Island Sommers	22/1
Strait Bjerkesund	11/0
E-point Bol'šoj Ber'ozovyj – Šepelevskij	11/0

Sweden, 18.04.2023

Karlsborg – Malören	8546
Sea area off Malören	8546
Luleå – Björnklack	6356
Björnklack – Farstugrunden	6356
E and SE of Farstugrunden	5576
Sandgrönn fairway	6356
Rödcallen – Norströmsgrund	6356
Haraholmen – Nygrån	6356
Sea area off Nygrån	5356

Skelleftehamn – Gåsören	6356
Sea area off Gåsören	6356
Sea area off Bjuröklubb	6356
NE of Nordvalen	5456
SW of Nordvalen	5456
Western Quark (W of Holmöarna)	1206
Umeå – Väktaren	8446
SE of Väktaren	3226
NE and SE of Sydostbrotten	3356
Fairway to Husum	1206
Örnsköldsvik – Hörnskatan	8496
Hörnskatan – Skagsudde	1206
Sea area off Skagsudde	1206
Fairway W of Ulvöarna	1206
Sea area E of Ulvöarna	1206
Ångermanälven north Sandö Bridge	8444
Ångermanälven south Sandö Bridge	3424
Hudiksvallfjärden	8342
Iggesund – Agö	8392
Öregrundsgrepen	1000
Hallstavik – Svartklubben	3122
Köping – Kvicksund	1000
Västerås – Grönsö	1000
Grönsö – Södertälje	1000
Stockholm – Södertälje	1000