



Eisbericht Nr. 100

Amtsblatt des BSH

Jahrgang 96

Nr. 100

Thursday, 20.04.2023

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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 Norden und Osten hat sich eine breite Rinne mit örtlich treibenden dickeren Eisschollen gebildet. In Kvarken liegt bis 50 cm dickes Festeis in den Schären und Buchten. Auf See kommt lockeres 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, teilweise morsches Festeis. Im Schärenmeer und den nordöstlichen Schären und Buchten des Finnischen Meerbusens liegt örtlich morsches Eis. Im nordöstlichen Finnischen Meerbusen ist weiter außerhalb offenes Wasser.

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 northern and eastern fast ice, there is a wide lead with some heavier drifting floes at places. In the Quark, there is up to 50 cm thick, partly rotten 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 at places. Further out in the northeastern Gulf of Finland, there is open water.

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 north and east, there is a 5–15 NM wide, navigable lead with 10–30 cm thick drifting floes at places. Along the western fast ice, there is a narrow lead at places. At sea, there is 30–60 cm thick,

very close ice in the northern central part and 10–40 cm thick, close to 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 slow ice melt and a weak ice drift to the southeast/east the coming day.

The Quark

There is 25–45 cm thick, partly rotten fast ice in the

Vaasa archipelago out to Ensten. On the Swedish

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side, there is 25–50 cm thick fast or partly rotten ice in inner bays and 10–30 cm fast 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 very open to

Sea of Bothnia

In the southern part, there is 5–20 cm thick, rotten ice at places or open water along the coasts. In the north along the Finnish coast, there is rotten, 10–30 cm thick fast ice in the inner archipelagos and open water along the larger fairways. In Swedish

Archipelago Sea and Åland Sea

Rotten ice is present at some places in the inner archipelagos and between islands. Else is open

Northern Baltic

There is open water in the central part of Lake Mälaren and else mostly ice free.

Gulf of Finland

In the north-eastern inner archipelagos and bays, there is rotten ice and further out and along the Finnish fairways open water. In the top of Vyborg

open drifting ice to about Vallinsgrundet. 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 a weak ice drift to the southeast/east.

bays and on Ångermanälven, there is 20–50 cm fast ice or rotten ice. At sea in the north, there are strings with thin ice.

Melting will continue the coming day.

water or ice free.

Melting will continue the coming day.

Melting will continue the coming day.

Bay is open drift ice.

Ice melt continues the coming day and there is a mostly light 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.

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, 20.04.2023

Röyttä – Etukari	8546
Etukari – Ristinmatala	6476
Ajos – Ristinmatala	6476
Ristinmatala – Kemi 2	6476
Kemi 2 – Kemi 1	6476
Sea area SW of Kemi 1	1706
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	4356
Latitude Marjaniemi – Ulkokalla, Sea	6856
Rahja harbour – Välimatala	6856
Välimatala to line Ulkokalla – Ykskivi	6856
Sea betw. lat. of Ulkokalla – Pietarsaari	6856
Ykspihlaja – Repskär	8846
Repskär – Kokkola lighthouse	7356
Sea area off Kokkola lighthouse	2726
Pietarsaari – Kallan	8846
Sea area off Kallan	2726
Sea lat. Pietarsaari – NE Nordvalen	5356
Sea area ENE of Nordvalen	5356
Sea area Nordvalen to W of Norrskär	3756
Vaskiluoto – Ensten	7756
Ensten – Vaasa lighthouse	1106

Vaasa lighthouse – Norrskär	2756
Sea area SW of Norrskär	1106
Uusikaupunki harbour – Kirsta	1100
Valko Harbour – Täktarn	1101
Kotka – Viikari	1101
Viikari – Orregrund	1101
Hamina – Suurmusta	1101
Suurmusta – Merikari	1101
Merikari – Kaunissaari	1101

Russian Federation, 20.04.2023

Vyborg, port and bay	3//1
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Sweden, 20.04.2023

Karlsborg – Malören	8546
Sea area off Malören	8546
Luleå – Björnklack	6356
Björnklack – Farstugrunden	6356
E and SE of Farstugrunden	5356
Sandgrönn fairway	6356
Rödallen – 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	3356
Western Quark (W of Holmöarna)	1206

Umeå – Väktaren	8446
SE of Väktaren	2356
NE and SE of Sydostbrotten	2356
Fairway to Husum	1206
Örnsköldsvik – Hörnskatan	1206
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	8392
Iggesund – Agö	8392
Hallstavik – Svartklubben	1101
Stockholm – Södertälje	1000