

Eisbericht Nr. 106

Amtsblatt des BSH

Jahrgang 96

Nr. 106

Friday, 28.04.2023

1

Übersicht

In den Schären der Bottenwiek kommt im Norden bis 70 cm dickes Festeis und im Süden morsches Festeis vor. Auf See befindet sich im Nordosten offenes Wasser und westlich von 23°O und südlich von 64°20'N treibt lockeres bis sehr dichtes, örtlich aufgepresstes Eis, welches im Norden bis 60 cm dick und im Süden bis 30 cm dick ist. Es kommen auch größere Gebiete mit sehr lockerem Eis vor. In Kvarken liegt morsches Festeis in den Schären und Buchten. Auf See treibt im Nordosten bis 30 cm dickes, sehr dichtes Eis und im Südwesten kommt offenes Wasser vor. In der Bottensee liegt entlang der schwedischen Küste in einzelnen Schären und Buchten morsches Eis.

Overview

In the archipelagos of the Bay of Bothnia, there is up to 70 cm thick fast ice in the north and rotten fast ice in the south. At sea there is open water in the northeast. Else there is mostly open ice to very close ridged ice east of 23°E and south of 64°20'N; the ice is up to 60 cm thick in the north and up to 30 cm thick in the south. Several larger areas with very open ice occur. In the Quark, there rotten fast ice in the archipelagos and bays. At sea there is very close, up to 30 cm thick ice in the northeastern part, and open water in the southwest. In the Sea of Bothnia, there is rotten ice at places along the Swedish coast.

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. The fast ice in the south eastern archipelagos is 20–40 cm thick and partly rotten. Off the fast ice in the north and northeast, there is open water and some single drifting floes east of about 23°E and north of

64°20'N. South and west of this area, there is mostly close to very close, 30–60 cm thick, ridged ice with larger areas of very open or open ice.

Over the weekend the overall ice drift will be towards the northeast and with night temperatures below and day temperatures above 0°C the slow ice melt will continue.

The Quark

There is rotting fast ice in the Vaasa archipelago to approximately Storhästen. On the Swedish side, there is rotten ice in inner bays. At sea northeast of Nordvalen, there is 10–30 cm thick, very close ice. Further south, there is open water.

With mostly southwesterly winds, air temperatures will increase over the weekend, so the ice melt will accelerate and the ice at sea will drift mostly into a north-eastward direction.

Herstellung und Vertrieb

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Sea of Bothnia

In the southern part, rotten ice is present at a few places in the inner archipelagos along the Swedish coast. In the northern part and on Ångermanälven,

there is 20–50 cm fast ice or rotten ice at places. Along the Finnish coast it is mostly ice free. Melting will continue over the weekend.

Gulf of Finland

The Gulf of Finland is ice free. In Lake Saimaa, there is 10–40 cm thick ice in the northern part and

10–30 cm thick rotten ice in the southern part. Ice melt continues over the weekend.

Dr. J.Holfort

As May 1st is public holiday in Germany, the next Amtsblatt will be issued next Tuesday.

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Finland	Tornio, Kemi and Oulu	4000 dwt	IA	22.02.
	Raahe	2000 dwt	IB	26.04.
	Kalajoki, Kokkola and Pietarsaari	2000 dwt	IB	26.04.
	Vaasa	2000 dwt	II	26.04.
	Lake Saimaa	2000 dwt	II	28.04.
Sweden	Karlsborg	4000 dwt	IA	24.04.
	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	II	24.04.
	Ångermanälven	2000 dwt	IC	18.04.

Finland/Sweden

The Saimaa Canal is closed for traffic since 9th 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, 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. TYRSKY assists in the Lake Saimaa.

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 foes – 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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Finland, 28.04.2023

Röyttä – Etukari	8546
Etukari – Ristinmatala	6476
Ajos – Ristinmatala	6476
Ristinmatala – Kemi 2	6476
Kemi 2 – Kemi 1	1906
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	1816
High Sea N of the latitude of Marjaniemi	5476
Raahe harbour – Heikinkari	8446
Heikinkari – Raahe lighthouse	7816
Raahe lighthouse – Nahkiainen	1706
Latitude Marjaniemi – Ulkokalla, Sea	5476
Rahja harbour – Välimatala	2326
Vaelimatala to line Ulkokalla – Ykskivi	4356
Sea betw. lat. of Ulkokalla –Pietarsaari	4856
Ykspihlaja – Repskär	7396
Repskär – Kokkola lighthouse	3356
Sea area off Kokkola lighthouse	3336
Pietarsaari – Kallan	3836
Sea area off Kallan	1306
Sea lat. Pietarsaari – NE Nordvalen	5356
Sea area ENE of Nordvalen	5356
Sea area Nordvalen to W of Norrskär	4355
Vaskiluoto – Ensten	2495
Ensten – Vaasa lighthouse	1705

Vaasa lighthouse – Norrskär 1705
 Sea area SW of Norrskär 1705

Sweden, 28.04.2023

Karlsborg – Malören	8546
Sea area off Malören	8546
Luleå – Björnklack	6356
Björnklack – Farstugrunden	5356
E and SE of Farstugrunden	5356
Sandgrönn fairway	6356
Rödkallen – Norströmsgrund	2326
Haraholmen – Nygrån	6356
Sea area off Nygrån	6356
Skelleftehamn – Gåsören	3356
Sea area off Gåsören	6356
Sea area off Bjuröklubb	6356
NE of Nordvalen	5356
SW of Nordvalen	5356
Western Quark (W of Holmöarna)	5356
Umeå – Väktaren	4356
SE of Väktaren	4356
Örnsköldsvik – Hörnskatan	1306
Hörnskatan – Skagsudde	1306
Ångermanälven north Sandö Bridge	8444
Hudiksvallfjärden	8392