



Eisbericht Nr. 107

Amtsblatt des BSH

Jahrgang 97

Nr. 107

Friday, 19.04.2024

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Übersicht

In der Bottenwiek befindet sich in den nördlichen Schären bis 80 cm dickes, in den südlichen bis 50 cm dickes, morsches Festeis. Auf See treibt im zentralen und westlichen Teil 20–70 cm dickes, sehr dichtes, örtlich aufgepresstes Eis. Im Südwesten treibt sehr lockeres bis dichtes, 10–40 cm dickes Eis. Entlang der finnischen Küste verläuft eine breite Rinne mit offenem Wasser und vereinzelt, dickeren Treibeisschollen. An den Küsten von Norra Kvarken liegt morsches Festeis und auf See kommt offenes Wasser vor. An den Küsten der Bottensee kommt örtlich morsches Festeis vor. Der Finnische Meerbusen ist eisfrei.

Overview

In the Bay of Bothnia there is fast ice in the archipelagos, up to 80 cm thick in the north and up to 50 cm thick and rotting in the south. At sea in the central and western part there is 20–70 cm thick, very close, ridged ice. In the southwestern part is very open to close, 10–40 cm thick drift ice. Along the Finnish coast is a wide lead with open water and thicker drifting floes at places. In the Quark there is rotten fast ice at the coasts and at sea there is mainly open water. At the coasts of the Sea of Bothnia there is rotten ice in places. The Gulf of Finland is ice-free.

Bay of Bothnia

In the archipelagos of the Bay of Bothnia there is fast or consolidated ice; 50–80 cm thick in the north and 40–50 cm thick and rotting in the south. In the northeast the fast ice stretches out to Malören, Kemi-3, Oulu-3 and Raahe lighthouse. At sea in the central part west of about 23°35'E there is very close, 40–70 cm thick, ridged ice stretching to Farstugrunden in the north. Further west, reaching the Swedish coast, and south to about 64°10'N there is 20–60 cm thick, ridged, very close ice.

There are cracks and leads in the ice fields. Further south at sea there is 10–40 cm thick, very open to close ice. From Malören via Nahkiainen and Ulkokalla to the Quark runs a 5–20 NM wide lead with drifting thick floes at places and else open water.

With mainly light, but in places also moderate frost, some ice formation is expected over the weekend. The ice will drift to the southwest.

The Quark

There is rotten ice in the Vaasa archipelago out to Storhästen and along the Swedish coast. At sea there is mostly open water.

With light frost some new ice formation is possible over the weekend. The ice will drift to the southwest.

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

www.bsh.de/eis

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Sea of Bothnia

In the middle and southern archipelagos there is rotten ice in places with open water further out. In the northern part, including Ångermanälven, there

is rotten fast ice.

With some night frost no larger change is expected over the weekend.

Gulf of Finland

The Gulf of Finland is ice-free. In Lake Saimaa is

25–50 cm thick, rotting ice with open areas.

Dr. W. Aldenhoff

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Finland	Tornio, Kemi and Oulu	4000 dwt	IA	02.04.
	Raahe, Kalajoki, Kokkola and Pietarsaari	4000 dwt	IA	13.01.
	Vaasa	2000 dwt	I	15.04.
	Lake Saimaa	2000 dwt	I	19.04.
	Saimaa Canal	2000 dwt	IA	08.01.
Russia	Vyborg	-	Ice 1	28.03.
	Vysotsk	-	Ice 1	28.03.
	Primorsk	-	Ice 1	25.03.
Sweden	Karlsborg	4000 dwt	IA (2000 t)	14.01.
	Lulea, Haraholmen and Skelleftehamn	4000 dwt	IA	14.01.
	Rundvik, Husum and Örnsköldsvik	2000 dwt	IC	15.04.
	Holmsund	2000 dwt	IB	12.04.
	Ångermanälven	2000 dwt	IB	27.03.
	Härnösand	2000 dwt	IC	15.04.
	Söråker and Sundsvall	2000 dwt	II	09.04.

Finland/Sweden

The traffic separation schemes in the Quark are temporarily out of use from 20 December due to ice conditions.

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: YMER, FREJ, ATLE, POLARIS, SISU and URHO assist in the Bay of Bothnia. OTSO assists in the southern Bay of Bothnia. ZEUS and ALE assist in the Quark. TYRSKY assists in the Lake Saimaa.

Russia

There are restrictions for small crafts going to St. Petersburg, Vyborg, Vysotsk and Primorsk. Barge towed by tug not allowed to navigate in ice. Vessels without ice class to Vyborg, Vysotsk and Primorsk are only allowed with icebreaker assistance, with ice class Ice 1 or higher according to instructions.

Icebreakers: Several icebreakers assist vessels to the port of St. Petersburg, Vyborg, Vysotsk and Primorsk.

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, 19.04.2024

Röyttä – Etukari	8546
Etukari – Ristinmatala	8546
Ajos – Ristinmatala	8546
Ristinmatala – Kemi 2	7476
Kemi 2 – Kemi 1	5676
Sea area SW of Kemi 1	5676
Kemi 2 – Ulkokrunni – Virpiniemi	8546
Oulu harbours – Kattilankalla	8546
Kattilankalla – Oulu 1	6576
Sea area SW of Oulu 1	5676
High Sea N of the latitude of Marjaniemi	5576
Raahe harbour – Heikinkari	8546
Heikinkari – Raahe lighthouse	6476
Raahe lighthouse – Nahkiainen	9806
Latitude Marjaniemi – Ulkokalla, Sea	5476
Rahja harbour – Välimatala	5476
Vaelimatala to line Ulkokalla – Ykskivi	9806
Sea betw. lat. of Ulkokalla – Pietarsaari	5476
Ykspihlaja – Repskär	8446
Repskär – Kokkola lighthouse	9806
Sea area off Kokkola lighthouse	9806
Pietarsaari – Kallan	9806
Sea area off Kallan	9806
Sea lat. Pietarsaari – NE Nordvalen	1806
Sea area ENE of Nordvalen	1806
Sea area Nordvalen to W of Norrskär	1706
Vaskiluoto – Ensten	3416

Ensten – Vaasa lighthouse	1706
Vaasa lighthouse – Norrskär	1706
Sea area SW of Norrskär	1706
Kaskinen – Sälgrund	1702

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Karlsborg – Malören	8646
Sea area off Malören	5676
Luleå – Björnklack	6576
Björnklack – Farstugrunden	6576
E and SE of Farstugrunden	5576
Sandgrönn fairway	6556
Rödkallen – Norströmsgrund	6556
Haraholmen – Nygrån	6556
Sea area off Nygrån	5576
Skelleftehamn – Gåsören	8446
Sea area off Gåsören	5576
Sea area off Bjuröklubb	5576
NE of Nordvalen	1406
SW of Nordvalen	1406
Western Quark (W of Holmöarna)	1406
Umeå – Väktaren	1406
SE of Väktaren	1406
Fairway to Husum	1406
Örnsköldsvik – Hörnskatan	8496
Hörnskatan – Skagsudde	5356
Sea area off Skagsudde	1406
Fairway W of Ulvöarna	2356

Sea area E of Ulvöarna	1406
Ångermanälven north Sandö Bridge	8494
Ångermanälven south Sandö Bridge	8494
Härnösand – Härnön	1404
Sea area off Härnö	1404
Sundsvall – Draghallan	1406
Hudiksvallfjärden	8392
Iggesund – Agö	8392
Sandarne – Hällgrund	1302
Ljusnefjärden – Störjungfrun	1302