



Eisbericht Nr. 107

Amtsblatt des BSH

Jahrgang 95

Nr. 107

Friday, 29.04.2022

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Übersicht

In den Schären der Bottenwiek liegt im Norden 40–85 cm dickes Festeis und im Süden morsches Festeis. Auf See treibt südlich von 65°00'N bis zur Linie Simpgrund – Kallan, zumeist 15–70 cm dickes, dichtes bis sehr dichtes, aufgepresstes Eis, in dem aber auch Risse und offene Stellen vorkommen. Nördlich, westlich und südlich davon ist offenes Wasser mit einigen Schollen und kleinen Eisfeldern. In Norra Kvarken liegt in den Schären morsches Festeis und auf See kommt zumeist offenes Wasser vor. Entlang der Küsten und in den Schären der Bottensee, des Schärenmeeres und des westlichen Finnischen Meerbusens liegt örtlich morsches Eis. Im östlichen Finnischen Meerbusen liegt an der Küste im Norden morsches Eis und davor kommt offenes Wasser vor.

Overview

In the archipelagos of the Bay of Bothnia, there is 40–85 cm thick fast ice in the north and rotten fast ice in the south. At sea, there is mostly 15–70 cm thick, close to very close, ridged ice between 65°00'N and the line Simpgrund – Kallan; cracks and openings are present in the ice field. North, west and south of this area, there is open water with some floes and patches of ice. In Norra Kvarken, there is rotten fast ice in the archipelagos and at sea, there is mostly open water. Along the coasts and archipelagos of the Sea of Bothnia, the Archipelago Sea and the western part of the Gulf of Finland, there is rotten ice in places. In the eastern Gulf of Finland, there is rotting ice along the northern coast and further out, there is open water.

Bay of Bothnia

In and outside the northeastern archipelagos, there is 40–80 cm thick fast ice and consolidated ice, reaching out to Kemi-2, Oulu-2 and Johan. In the northwestern archipelagos the fast ice and consolidated ice is 45–85 cm thick. Off the fast ice in the north, there is open water with some larger drifting floes and open water at places to about 65°00'N. Further south, extending to about the line Simpgrund – Kallan, there is 15–70 cm thick, close to very close ice with ridges. There are also larger

cracks and open areas in the ice field. Along the western fast ice edge, there is a lead of open water. In the southern Bay of Bothnia, there is some ice along the Swedish coast and along the eastern coast, there is mostly rotten ice in the archipelagos. Further out mostly open water.

Some ice melt is expected over the weekend. The ice drift is changing from northeast to slight southwards on Saturday and northeast on Sunday.

Norra Kvarken

In the Vaasa archipelago, there is rotten fast ice with open water further out. Along the Swedish

coast, there is partly rotten fast ice in places. At open water or it is ice free.

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

www.bsh.de/eis

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Ice melt continues over the weekend. Ice drift is changing from easterly to slight westerly on Satur-

day and to northeast on Sunday.

Sea of Bothnia

On upper Ångermanälven, as well as in some other sheltered bays, there is broken and rotten fast ice. In the archipelagos along the Finnish coast,

there is rotten ice in some places with open water just outside.

Ice melt continues over the weekend.

Archipelago and Åland Sea

Rotten ice is present in places of the inner archipelagos of the eastern coast.

Ice melt continues over the weekend.

Gulf of Finland

In the inner Bay of Vyborg there is very close ice hinging the shores and mostly open water further out. In the inner archipelagos of the northern coast, there are remnants of rotten ice in the west and in the east, there is rotten ice with open water further

out. In Lake Saimaa, there is rotting ice, 5–40 cm thick with openings in the north and south and larger ones in the central part.

The ice melt continues over the weekend.

Dr. W. Aldenhoff

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Finland	Tornio, Kemi and Oulu	4000 dwt	IA	21.03.
	Raahe and Kalajoki	4000 dwt	IA	08.03.
	Kokkola	2000 dwt	IA	01.02.
	Pietarsaari	2000 dwt	IB	28.04.
	Northern Lake Saimaa	2000 dwt	IA	19.04.
	Southern Lake Saimaa	2000 dwt	II	22.04.
Sweden	Karlsborg	2000 dwt	IB	28.04.
	Luleå	2000 dwt	IB	28.04.
	Haraholmen and Skelleftehamn	2000 dwt	IB	28.04.

Information of the Icebreaker Services

Finland/Sweden

The Saimaa Canal is closed for traffic from 30th of January.

The traffic separation schemes in the Quark are temporarily out of use from 15 January 2022.

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 78. 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:

OTSO, KONTIO, POLARIS, ODEN and ALE assist in the Bay of Bothnia. TYRSKY assists in the Lake Saimaa.

Russia

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

Icebreakers: K. IZMAILOV assists vessels to the port of 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, 29.04.2022

Röyttä – Etukari	8646
Etukari – Ristinmatala	8546
Ajos – Ristinmatala	8546
Ristinmatala – Kemi 2	6476
Kemi 2 – Kemi 1	9226
Sea area SW of Kemi 1	1726
Kemi 2 – Ulkokrunni – Virpiniemi	8546
Oulu harbours – Kattilankalla	8546
Kattilankalla – Oulu 1	6476
Sea area SW of Oulu 1	5476
High Sea N of the latitude of Marjaniemi	2446
Raahe harbour – Heikinkari	8546
Heikinkari – Raahe lighthouse	7476
Raahe lighthouse – Nahkiainen	5476
Latitude Marjaniemi – Ulkokalla, Sea	5476
Rahja harbour – Välimatala	6366
Vaelimatala to line Ulkokalla – Ykskivi	5476
Sea betw. lat. of Ulkokalla – Pietarsaari	5476
Ykspihlaja – Repskär	8846
Repskär – Kokkola lighthouse	6476
Sea area off Kokkola lighthouse	5476
Pietarsaari – Kallan	2416
Sea area off Kallan	1326
Sea lat. Pietarsaari – NE Nordvalen	1326
Vaskiluoto – Ensten	2492
Hamina – Suurmusta	1700

Russian Federation, 28.04.2022

Vyborg, port and bay	1210
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Sweden, 29.04.2022

Karlsborg – Malören	6576
Sea area off Malören	5576
Luleå – Björnklack	6576
Björnklack – Farstugrunden	6576
E and SE of Farstugrunden	1506
Sandgrönn fairway	6576
Rödkallen – Norströmsgrund	1506
Haraholmen – Nygrån	6456
Sea area off Nygrån	6456
Skelleftehamn – Gåsören	1506
Sea area off Gåsören	1506
Sea area off Bjuröklubb	4556
Western Quark (W of Holmöarna)	1502
Umeå – Väktaren	1502
Örnsköldsvik – Hörnskatan	1402
Hörnskatan – Skagsudde	1402
Ångermanälven north Sandö Bridge	1402
Ångermanälven south Sandö Bridge	1402
Hudiksvallfjärden	1492