ISSN 0013-2705

BUNDESAMT FÜR SEESCHIFFFAHRT UND HYDROGRAPHIE

Eisbericht Nr. 109

Amtsblatt des BSH

Jahrgang 95	Nr. 109	Tuesday, 03.05.2022	1

Übersicht

In den Schären der Bottenwiek liegt im Norden 40–80 cm dickes, teilweise morsches Festeis und im Süden morsches Festeis. Außerhalb des Festeises treibt im Nordwesten sehr lockeres Eis und im Norden lockeres bis sehr dichtes Eis. Auf See treibt von 64°50'N bis Ulkokalla und östlich von 22°25'E zumeist 15–60 cm dickes, dichtes bis sehr dichtes, aufgepresstes Eis, in dem aber auch Risse und offene Stellen vorkommen. Ansonsten kommt zumeist offenes Wasser mit einigen Schollen und kleinen Eisfeldern vor. In Norra Kvarken liegt in den Schären morsches Festeis und auf See ist es größtenteils eisfrei. Die restliche Ostsee ist bis auf vereinzeltes Resteis in geschützten Buchten in der nördlichen Bottensee und der Vyborgbucht eisfrei.

Overview

In the archipelagos of the Bay of Bothnia, there is 40–80 cm thick, partly rotten fast ice in the north and rotten fast ice in the south. Off the fast ice, there is very open ice in the northwest and open to very close ice in the north. At sea, there is mostly 15–60 cm thick, close to very close, ridged ice from 64°50'N to Ulkokalla and east of 22°25'E; cracks and openings are present in the ice field. Else, there is mostly open water with some floes and patches of ice. In Norra Kvarken, there is rotten fast ice in the archipelagos and at sea, it is mostly ice free. The rest of the Baltic Sea is ice free except for some ice remnants in sheltered bays of the northern Sea of Bothnia and the Bay of Vyborg.

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. The ice is rotting between Oulu and Hailuoto. In the northwestern archipelagos, there is rotten fast ice, 45–65 cm thick. Off the fast ice in the north, there is open to very close drift ice, up to 60 cm thick to Kemi-1. Off the fast ice in the west, there is very open, 10–30 cm thick drift ice to about the line Farstugrunden – Falkensgrund – Simpgrund. At sea from about 64°50'N to Ulkokalla and east of 22°25'E, there is 15–60 cm thick close ice in the west and 15–60 cm thick, very close ice in the east. There are leads and open areas in the ice field but also some large thick and ridged floes. Else at sea, there is open water with some single drifting floes and strips and patches at places.

In the southern Bay of Bothnia, there is rotten fast ice along the eastern coast with very close, 10–60 cm thick ice further out from Kokkola to Ulkokalla. At sea it is ice free with open water along the coasts.

Ice melt continues and there is a ceasing ice drift to the southeast.

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Norra Kvarken
In the Vaasa archipelago, there is rotten fast ice with open water further out. Along the Swedish coast, there is rotten fast ice in sheltered bays. At sea, it is mostly ice free.
Ice melt continues the coming day.

Sea of Bothnia
The area is mostly ice free.
Ice melt continues the coming day.

Archipelago and Åland Sea
The area is ice free.

Gulf of Finland
The area is mostly ice free with minor remnants of rotten ice in sheltered places in the Bay of Vyborg. In Lake Saimaa, there is rotting ice, 5–30 cm thick with many openings.
The ice melt continues the coming day.

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	IB	02.05.
	Pietarsaari	2000 dwt	I	02.05.
	Northern Lake Saimaa	2000 dwt	II	30.04.
	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	IC	02.05.

Information of the Icebreaker Services

Finland/Sweden
The Saimaa Canal is open for traffic since 30.04.2022.

The traffic separation scheme in the Quark has been taken into use again on May 1st 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.

Baltic Sea Ice Code

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

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

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

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 after special permission
8 Navigation temporarily closed
9 Navigation has ceased
/ Unknown

Finland, 03.05.2022

Röyttä – Etukari	8646
Etukari – Ristinmatala	8546
Ajos – Ristinmatala	8546
Ristinmatala – Kemi 2	6476
Kemi 2 – Kemi 1	3426
Sea area SW of Kemi 1	1716
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	1716
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	1816
Ykspihlaja – Repskär	1806
Repskär – Kokkola lighthouse	1806
Sea area off Kokkola lighthouse	1706
Pietarsaari – Kallan	1706
Sea area off Kallan	1706
Vaskiluoto – Ensten	1790

Sweden, 03.05.2022

Karlsborg – Malören	8646
Sea area off Malören	5576
Luleå – Björnklack	8696
Björnklack – Farstugrunden	1506
E and SE of Farstugrunden	1506
Sandgrönn fairway	5576
Rödkallen – Norströmsgrund	2426
Haraholmen – Nygrån	2426
Sea area off Nygrån	1506
Skelleftehamn – Gåsören	1506
Sea area off Gåsören	1506
Sea area off Bjuröklubb	1506
Ångermanälven north Sandö Bridge	1402
Ångermanälven south Sandö Bridge	1402