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BUNDESAMT FÜR SEESCHIFFFAHRT UND HYDROGRAPHIE

Eisbericht Nr. 108

Amtsblatt des BSH

Jahrgang 96	Nr. 108	Wednesday, 03.05.2023	1

Übersicht

In den Schären der Bottenwiek kommt im Norden bis 60 cm dickes Festeis und im Süden morsches Festeis vor. Auf See befindet sich im Osten offenes Wasser und im Westen treibt sehr lockeres Eis. Im zentralen Bereich um 64°30'N, 23°O treibt dichtes bis sehr dichtes, bis 60 cm dickes und teilweise aufgepresstes Eis und südlich davon 5-20cm dickes, lockeres Eis. In Kvarken liegt morsches Festeis in den Schären und Buchten. Auf See treibt im Nordosten 5–20 cm dickes, sehr lockeres und lockeres Eis und weiter südlich 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 60 cm thick fast ice in the north and rotten fast ice in the south. At sea, there is open water in the east and very open ice in the west. In the central part around 64°30'N 23°E there is close to very close, up to 60 cm thick and partly ridged ice. Further south there is 5-20cm thick open ice. In the Quark, there is rotten fast ice in the archipelagos and bays. At sea there is very open and open, 5–20 cm thick ice in the north-eastern part, and open water further south. 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 40–60 cm thick fast ice and compact ice, out to Malören, Lallinmöyly and Oulu-2. In the archipelagos south of about 65°10'N there is rotten ice. At sea outside the fast ice or the coast there is open water in the east and very open ice in the west. Along 23°E there is an area of 30-60cm thick, ridged, very close ice extending from about 65°N to about 64°10'N, which is surrounded by 10-30cm thick close ice. Further south is mostly open, 5–20 cm thick drift ice.
Slow ice melt continues the coming day and the ice will drift to the south/southeast.

The Quark

There is rotten fast ice in the Vaasa archipelago but open water on the fairway to Vaasa. On the Swedish side, there is rotten ice in inner bays. At sea northeast of Nordvalen, there is 05–20 cm thick, very open and open ice with some areas with close ice. Further south, there is open water.
Ice melt is expected the coming day and the ice will drift to the south/southeast.

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 20–40 cm fast ice or rotten ice at places. Along the Finnish coast it is ice free.
Melting will continue the coming day.

Gulf of Finland

The Gulf of Finland is ice free. In Lake Saimaa, there is 10–30 cm thick rotting ice and openings in the northern part. In the southern parts there is rotten ice in places and the Saimaa Canal is ice free.
Ice melt continues the coming day.

Dr. J.Holfort

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.
	Saimaa Canal	2000 dwt	IA	02.05.
Sweden	Karlsborg	4000 dwt	IA	24.04.
	Lulea, Haraholmen and Skelleftehamn	2000 dwt	IB	02.05.
	Angermanälven	2000 dwt	II	02.05.

Finland/Sweden

The Saimaa Canal has been opened to traffic on 2nd May 2023.

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 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, 02.05.2023

Röyttä – Etukari	8446
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	8446
Kattilankalla – Oulu 1	6476
Sea area SW of Oulu 1	1706
High Sea Nof the latitude of Marjaniemi	5476
Raahe harbour – Heikinkari	1706
Heikinkari – Raahe lighthouse	1706
Raahe lighthouse – Nahkiainen	1706
Latitude Marjaniemi – Ulkokalla, Sea	5476
Rahja harbour – Välimatala	1706
Vaelimatala to line Ulkokalla – Ykskivi	1706
Sea betw. lat. of Ulkokalla –Pietarsaari	5746
Ykspihlaja – Repskär	1796
Repskär – Kokkola lighthouse	1706
Sea area off Kokkola lighthouse	1706
Pietarsaari – Kallan	2896
Sea area off Kallan	1706
Sea lat. Pietarsaari – NE Nordvalen	4756
Sea area ENE of Nordvalen	3756
Sea area Nordvalen to W of Norrskär	1105
Vaskiluoto – Ensten	1105
Ensten – Vaasa lighthouse	1105
Vaasa lighthouse – Norrskär	1105

Sweden, 03.05.2023

Karlsborg – Malören	8546
Sea area off Malören	8546
Luleå – Björnklack	8546
Björnklack – Farstugrunden	2326
E and SE of Farstugrunden	2326
Sandgrönn fairway	6356
Rödkallen – Norströmsgrund	2326
Haraholmen – Nygrån	8496
Sea area off Nygrån	2326
Skelleftehamn – Gåsören	2326
Sea area off Gåsören	8496
Sea area off Bjuröklubb	5352
NE of Nordvalen	2352
SW of Nordvalen	1201
Western Quark (W of Holmöarna)	3352
Umeå – Väktaren	1201
SE of Väktaren	1201
Örnsköldsvik – Hörnskaten	1302
Hörnskaten – Skagsudde	1302
Ångermanälven north Sandö Bridge	8494
Hudiksvallfjärden	2322