



Eisbericht Nr. 109

Amtsblatt des BSH

Jahrgang 97

Nr. 109

Tuesday, 23.04.2024

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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 westlichen Teil 20–70 cm dickes, sehr dichtes, örtlich aufgepresstes Eis, im Südwesten treibt dichtes bis sehr dichtes, 15–60 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 und lockeres bis dichtes Eis vor. An den Küsten der Bottensee kommt örtlich morsches Festeis vor.

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 western part there is 20–70 cm thick, very close, ridged ice. In the southwestern part is close to very close, 15–60 cm thick drift ice. Along the Finnish coast is a wide open water lead with thicker drifting floes at places. In the Quark there is rotten fast ice at the coasts and at sea there is open water and open to close ice. At the coasts of the Sea of Bothnia there is rotten ice in places.

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-1, Oulun portti and Raahe lighthouse. At sea in the east there is mostly open water with some thicker floes and an area of very open to open ice outside the coast between Ulkokalla to Kokkola. Northeast of about Falkensgrund

is a vast floe of 60–90cm thick, ridged ice. West of about 22°40'E there is first very close, 40–70 cm thick, ridged ice followed by 20–60 cm thick, ridged, very close ice further west, reaching the Swedish coast. In the southwest there is mainly 15–60 cm thick close to very close ice.

With continuous light frost, minor ice formation is possible. The ice will first drift to the south and later slightly to the north.

The Quark

There is rotten ice in the Vaasa archipelago out to Storhästen and along the Swedish coast. On the Vaasa fairway is mostly open water. At sea there is open water with very open to close ice south of

Holmöarna and very close ice east of Holmöarna. With light frost no larger changes are expected. The ice will drift decreasingly to the southwest.

Herstellung und Vertrieb

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Sea of Bothnia

In the northern archipelagos there is rotten ice in places with open water further out. On Ångermanälven is rotten ice. Ice remnants are present in

places along the coast down to about 61°N. With some night frost no larger change is expected.

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 and Kokkola | 4000 dwt | IA | 13.01. |
| | Pietarsaari | 2000 dwt | IA | 22.04. |
| | Vaasa | 2000 dwt | II | 22.04. |
| | Lake Saimaa | 2000 dwt | II | 22.04. |
| | Saimaa Canal | 2000 dwt | IA | 08.01. |
| 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, ALE, ATLE, POLARIS, SISU, OTSO, ZEUS and URHO assist in the Bay of Bothnia. TYRSKY assists in the Lake Saimaa.

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 foes – 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, 23.04.2024

| | |
|---|------|
| Röyttä – Etukari | 8546 |
| Etukari – Ristinmatala | 8546 |
| Ajos – Ristinmatala | 8546 |
| Ristinmatala – Kemi 2 | 8546 |
| 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 | 2816 |
| Raahe harbour – Heikinkari | 8546 |
| Heikinkari – Raahe lighthouse | 6476 |
| Raahe lighthouse – Nahkiainen | 2816 |
| Latitude Marjaniemi – Ulkokalla, Sea | 2816 |
| Rahja harbour – Välimatala | 7576 |
| Vaelimatala to line Ulkokalla – Ykskivi | 3816 |
| Sea betw. lat. of Ulkokalla – Pietarsaari | 1806 |
| Ykspihlaja – Repskär | 8446 |
| Repskär – Kokkola lighthouse | 5356 |
| Sea area off Kokkola lighthouse | 1806 |
| Pietarsaari – Kallan | 1806 |
| Sea area off Kallan | 1806 |
| Sea lat. Pietarsaari – NE Nordvalen | 5876 |
| Sea area ENE of Nordvalen | 4846 |
| Sea area Nordvalen to W of Norrskär | 3816 |
| Vaskiluoto – Ensten | 1705 |
| Ensten – Vaasa lighthouse | 1705 |

Vaasa lighthouse – Norrskär

3815

Sea area SW of Norrskär

2715

Kaskinen – Sälgrund

1702

Sweden, 23.04.2024

| | |
|--------------------------------|------|
| Karlsborg – Malören | 8646 |
| Sea area off Malören | 5676 |
| Luleå – Björnklack | 6576 |
| Björnklack – Farstugrunden | 6576 |
| E and SE of Farstugrunden | 5576 |
| Sandgrönn fairway | 6556 |
| Rödkaullen – 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 | 2426 |
| SW of Nordvalen | 1406 |
| Western Quark (W of Holmöarna) | 5476 |
| Umeå – Väktaren | 1406 |
| SE of Väktaren | 1406 |
| NE and SE of Sydostbrotten | 1406 |
| Fairway to Husum | 1406 |
| Örnsköldsvik – Hörnskatan | 1406 |
| Hörnskatan – Skagsudde | 1406 |
| Sea area off Skagsudde | 1406 |
| Fairway W of Ulvöarna | 1406 |
| Sea area E of Ulvöarna | 1406 |

| | |
|----------------------------------|------|
| Ångermanälven north Sandö Bridge | 8494 |
| Ångermanälven south Sandö Bridge | 1404 |
| Härnösand – Härnön | 1404 |
| Sea area off Härnö | 1404 |
| Sundsvall – Draghallan | 1406 |
| Hudiksvallfjärden | 1302 |
| Iggesund – Agö | 2322 |
| Sandarne – Hällgrund | 1302 |
| Ljusnefjärden – Storjungfrun | 1302 |