



Eisbericht Nr. 92

Amtsblatt des BSH

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Nr. 92

Wednesday, 27.03.2024

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Übersicht

In der Bottenwiek befindet sich in den nördlichen Schären bis 80 cm dickes, in den südlichen bis 70 cm dickes Festeis. Im Nordosten verläuft außerhalb des Festeises eine Rinne. Auf See treibt im Norden zu meist 40–70 cm dickes, sehr dichtes, örtlich aufgepresstes und übereinandergeschobenes Eis, das teilweise schwer zu passieren ist. Weiter südlich treibt auf See zuerst bis 40 cm dickes, sehr dichtes Eis, danach kommt dichtes Eis. Außerhalb der Küsten kommt meist sehr lockeres Eis vor. An den Küsten von Norra Kvarken liegt bis 60 cm dickes Festeis; auf See treibt im Westen 10–50 cm dickes, sehr dichtes Eis und ansonsten treibt meist lockeres bis dichtes, bis 40 cm dickes Eis. An den Küsten der Bottensee kommt im Osten bis 55 cm und im Westen bis 40 cm dickes Festeis vor. Im Schärenmeer kommt Festeis und offenes Wasser vor. Im Osten und Norden des Finnischen Meerbusens liegt bis 55 cm dickes Festeis; auf See treibt im Norden 5–35 cm dickes Eis. Im Rigaischen Meerbusen kommt im Nordosten morsches Festeis vor und an den Küsten treibt örtlich Eis. Im Mälaren und Vänern kommt örtlich morsches Festeis und offenes Wasser 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 70 cm thick in the south. Outside the fast ice in the northeast there is lead. At sea in the north, there is mostly 40–70 cm thick, very close, ridged and rafted ice that is difficult to force at places. Further south there is first up to 40 cm thick very close ice and later close ice with very open ice outside the coasts. In the Quark there is up to 60 cm thick fast ice at the coasts and at sea there is 10–50 cm thick, very close ice in the west and else mostly open to close, up to 40 cm thick ice. At the coasts of the Sea of Bothnia there is fast ice, up to 55 cm thick in the east and up to 40 cm thick in the west. Fast ice and open water is present in the Archipelago Sea. There is up to 55 cm thick fast ice at the eastern and northern coast of the Gulf of Finland. At sea in the north there is 5–35 cm thick ice. In the northeastern Gulf of Riga there is rotten fast ice with some drifting ice outside the coast. In the Malären and Vänern there is rotten fast ice at places and open water.

Bay of Bothnia

In the archipelagos of the Bay of Bothnia there is fast ice; 50–80 cm thick in the north and 40–70 cm thick in the south. In the northeast the fast ice stretches out to Malören, Kemi-3, Oulu-3 and Raahelighthouse and is followed by a lead with thin ice and some thicker floes. At sea north of a line

Simpgrundet to Kalajoki there is 40–70 cm thick, ridged and rafted, very close ice; the field is difficult to force at places but several new ice covered leads are present in the field. Further south there is first 10–40 cm thick very close ice to about the line Kokkola to Gåsören, but very open ice outside the

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Finnish coast. Further south is very open ice outside both coasts and 10–40 cm thick close ice stretching towards Holmöarna in the central part. With southerly wind and temperatures around 0 °C

The Quark

There is 35–60 cm thick fast ice in the Vaasa archipelago out to Ensten. Along the Swedish coast there is up to 40 cm thick fast ice with adjacent consolidated ice. Off this ice, there is 10–50 cm thick, partly ridged, very close ice from north of Högbonden to Sydostbrotten. At sea, there is 20–

Sea of Bothnia

Along the coasts there is mostly fast ice in the inner bays; 20–55 cm thick in the east and 5–40 cm thick in the west. On Ångermanälven, there is 15–40 cm thick fast ice. Off the coast north of Ångermanälven, there is 10–50 cm thick, very

Archipelago Sea and Åland Sea

In the Archipelago Sea there is 25–50 cm thick fast ice in the inner archipelago of the Finnish coast. 10–30 cm thick, fast ice is present around the islands of the outer archipelagos and the Åland Islands with open water in between. In the Åland

Northern Baltic

In Lake Mälaren there is partly broken, 10–30 cm thick rotten fast ice but mostly open water on the fairways. Along the outer Swedish coast there is

Gulf of Finland

Along the northern coast there is fast ice in the archipelago, 10–40 cm thick in the west and up to 55 cm thick in the east. In the Vyborg Bay there is 30–40 cm thick fast ice and in the Bjerkesund there is 20–30 cm thick fast ice; very close ice is present in both entrances. Off the northern fast ice, out to about 60°10'N, there is 10–35 cm thick ice ranging from open ice to very close ice; east of about 27°30' there is ridged, 10–35 cm thick very

Gulf of Riga

In Väinameri there is rotten fast ice near the coasts. In the northern part is mostly open water on the fairway and in the southern part as well as along the south coast of Saaremaa is open to very close drift ice. In the Bay of Pärnu, there is narrow

Central Baltic

In sheltered areas along the Swedish coast there is open water.

Swedish Lakes

In Lake Vänern, rotten fast ice is present in the northern archipelagos and in bays of the north-

the ice will drift in northerly directions and some ice formation and growth is possible in the northern part.

40 cm thick, open ice north of Strömningsbådan and 10–40 cm thick close ice north of Nordvalen and Valassaaret. Else at sea mostly very open ice or new ice.

With temperatures around 0 °C no larger changes are expected the coming day.

close ice. Off the coast in the east there is open water with single ice floes.

With temperatures around or slightly above 0°C no larger changes are expected in the north and some ice melt in the southern part.

Sea there is 5–20 cm thick, partly rotten fast ice in bays along the coast.

With temperatures mostly slightly above 0°C some ice melt is expected the coming day.

open water and locally some broken ice. Some ice melt is expected the coming day.

close ice. From St. Petersburg to the longitude of Kotlin there is 35–45 cm thick fast ice with open water further out. Further west some drifting ice is present at places. Outside the southern coast it is mainly ice free with some open water in the easternmost part. In Lake Saimaa is 30–55 cm thick ice with open areas.

With temperatures mostly above 0°C some ice melt is expected.

band of close ice near the coast and open water further out to the island Sorgu.

With temperatures mostly above 0 °C, overall ice melt is expected.

Further ice melt is expected the coming day.

western Dalbosjön. Else it is ice free. Ice melt will continue the coming day.

Restrictions to Navigation

| | Harbour/District | At least dwt/hp/kW | Ice Class | Begin |
|----------------|---|-----------------------|--------------------------------|---------------|
| Finland | Tornio, Kemi and Oulu | 2000/4000 dwt | IA Super (2000 t)/ IA (2000 t) | 27.02. |
| | Raahe, Kalajoki, Kokkola and Pietarsaari | 4000 dwt | IA | 13.01. |
| | Vaasa | 2000 dwt | IA | 10.01. |
| | Pori, Rauma | 2000 dwt | II | 25.03. |
| | Kaskinen and Kristiinankaupunki | 2000 dwt | II | 25.03. |
| | Uusikaupunki | 2000 dwt | II | 25.03. |
| | Langnäs | 2000 dwt | II | 13.01. |
| | Naantali and Turku | 2000 dwt | II | 25.03. |
| | Sköldvik | 2000 dwt | II | 25.03. |
| | Koverhar, Lappohja, Inkoo, Kantvik and Helsinki | 2000 dwt | II | 18.03. |
| | Taalintehdas and Förby | 2000 dwt | II | 18.03. |
| | Mussalo, Loviisa, Kotka and Hamina | 2000 dwt | I | 25.03. |
| | Lake Saimaa | 2000 dwt | IA | 08.01. |
| | Saimaa Canal | 2000 dwt | IA | 08.01. |
| | Russia | Vyborg | - | Ice 1/Ice 2 |
| Vysotsk | | - | Ice 1/Ice 2 | 11.03. |
| 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 Örnköldsvik | 2000 dwt | IA | 19.02. |
| | Holmsund | 2000 dwt | IA | 17.02. |
| | Angermanälven | 2000 dwt | IB | 27.03. |
| | Stocka, Hudiksvall, Iggesund, Söderhamn | 2000 dwt | IC | 26.02. |
| | Orrskär, Norrsundet, Gävle and Skutskär | 2000 dwt | II | 18.03. |
| | Härnösand | 2000 dwt | IB | 26.02. |
| | Söråker and Sundsvall | 2000 dwt | IC | 22.03. |
| | Hargshamn, Öregrund, Hallstavik and Grisslehamn | 2000 dwt | II | 26.03. |
| | Köping, Västerås and Balsta | 2000 dwt | IC | 26.03. |
| | Åmål | - | cancelled | 27.03. |

Finland/Sweden

The traffic separation schemes in the Lake Vänern are temporarily out of use from 12 January due to ice conditions.

The transit traffic west of Holmöarna is temporarily prohibited.

Öregrundsgrepen: Transit traffic for low powered vessels is not recommended.

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, ODEN, FREJ, ATLE, POLARIS, SISU, KONTIO and URHO assist in the Bay of Bothnia. OTSO assists in the southern Bay of Bothnia. ZEUS and ALE assist in the Quark. NORDICA and CALYPSO assist the Gulf of Finland.

Russia

There are restrictions for small crafts going to St. Petersburg, Vyborg, Vysotsk, Primorsk and Ust-Luga. Barge towed by tug not allowed to navigate in ice.

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> |
|---|---|

Estonia, 27.03.2024

Paernu, port and bay 3212
Moonsund 2/12

Finland, 27.03.2024

Röyttä – Etukari 8546
Etukari – Ristinmatala 8546
Ajos – Ristinmatala 8546
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Kemi 2 – Kemi 1 5676
Sea area SW of Kemi 1 5676
Kemi 2 – Ulkokrunni – Virpiniemi 7476
Oulu harbours – Kattilankalla 8546
Kattilankalla – Oulu 1 7476
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High Sea N of the latitude of Marjaniemi 5676
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Raahe lighthouse – Nahkiainen 9146
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Korra – Isokari 1705
Lövskär – Berghamn 8345
Berghamn – Stora Sottunga 1705
Stora Sottunga – Ledskär 8745
Lövskär – Grisselborg 8345
Grisselborg – Norparskär 1705
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Vitgrund – Utö 1702
Koverhar – Hästö Busö 3335
Hästö Busö – Ajax 1705
Inkoo a. Kantvik – sea area Porkkala 7755

Helsinki harbours – Harmaja 8845
Harmaja – Helsinki lighthouse 1705
Fairway Helsinki – Porkkala – Rönnskär 1705
Vuosaari harbour – Eestiluoto 1705
Eestiluoto – Helsinki lighthouse 1705
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Varlax – Porvoo lighthouse 4845
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Viikari – Orregrund 5356
Orregrund – Tiiskeri 2326
Tiiskeri – Kalbådagrund 3336
Hamina – Suurmusta 8446
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Russian Federation, 27.03.2024

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Island Vichrevoj – Island Sommers 43//
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Sweden, 27.03.2024

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Härnösand – Härnön 8444
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| | |
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| Stockholm – Trälhavet – Klövholmen | 1000 |
| Köping – Kvicksund | 8394 |
| Västerås – Grönsö | 8394 |
| Grönsö – Södertälje | 1204 |
| Stockholm – Södertälje | 1204 |
| Södertälje – Fifong | 1104 |
| Västervik – Marsholmen – Idö | 1101 |
| Fairway to Gruvön | 1201 |
| Fairway to Karlstad | 8392 |
| Fairway to Kristinehamn | 1201 |