



Eisbericht Nr. 91

Amtsblatt des BSH

Jahrgang 97

Nr. 91

Tuesday, 26.03.2024

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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 Neueis 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 dünnes Eis und 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 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 new 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 Mälaren and Vänern there is thin ice or rotten fast ice at places.

Bay of Bothnia

In the archipelagos of the Bay of Bothnia there is fast ice; 50–80 cm thick in the north and up to 25–70 cm thick in the south. In the northeast the fast ice stretches out to Malören, Kemi-3, Oulu-3 and Raahe lighthouse and is followed by an new ice covered lead. 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 Gasören, but very open ice or new ice outside the Finnish coast. Further south is new ice outside both coast and 10–40 cm thick close ice stretching towards Holmöarna in the central part.

With light winds and moderate frost new ice for-

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mation is expected the coming day.

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–

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 light winds and light to moderate frost new ice formation is expected.

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 close ice. Off the coast in the east there is open

water with single ice floes.

With mostly light frost, but also day temperatures above 0°C in the south, some ice formation at the coasts is possible. The ice will slightly drift to the northwest in the northern part.

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

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

With temperatures around or slightly above 0°C no larger changes are expected.

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

open water and locally some broken ice.

Some ice melt is expected during daytime.

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

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

With temperatures around zero no larger changes are expected.

Gulf of Riga

In Väinameri there is rotten fast ice near the coasts. Else, there is mostly open water and open ice in the southern part. Off the south coast of Saaremaa there is a band of open to close ice. In the Bay of Pärnu, there is narrow band of close ice

near the coast and open water further out to the island Sorgu.

With at most light frost during night, overall ice melt is expected.

Central Baltic

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

Further ice melt is expected the coming day.

Swedish Lakes

In Lake Vänern, rotten fast ice is present in the northern archipelagos. In the Dalbosjön there is 5–20 cm thick, very open to close ice at the north-

western coast.

Ice melt will continue the coming day.

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Estonia	Pärnu	-	cancelled	26.03.
	Kunda and Sillamäe	-	cancelled	26.03.
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	11.03.
	Vysotsk	-	Ice 1/Ice 2	11.03.
	Primorsk	-	Ice 1	25.03.
	St. Petersburg	-	cancelled	26.03.
	Ust-Luga	-	cancelled	25.03.
Sweden	Karlsborg	4000 dwt	IA (2000 t)	14.01.
	Lulea, Haraholmen and Skelleftehamn	4000 dwt	IA	14.01.
	Rundvik, Husum and Örnsköldsvik	2000 dwt	IA	19.02.
	Holmsund	2000 dwt	IA	17.02.
	Angermanälven	2000 dwt	IA	17.02.
	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, Västeras and Balsta	2000 dwt	IC	26.03.
	Vänern	-	cancelled	26.03
Åmål	2000 dwt	II	26.03.	

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>
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Estonia, 26.03.2024

Paernu, port and bay 4212
Moonsund 2/22

Finland, 26.03.2024

Röyttä – Etukari 8546
Etukari – Ristinmatala 8546
Ajos – Ristinmatala 8546
Ristinmatala – Kemi 2 7476
Kemi 2 – Kemi 1 5676
Sea area SW of Kemi 1 5676
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Kattilankalla – Oulu 1 7476
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Raahe lighthouse – Nahkiainen 9146
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Kymäpihlaja – Rauma lighthouse 1705
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Hästö Busö – Ajax 1705
Inkoo a. Kantvik – sea area Porkkala 7755

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Harmaja – Helsinki lighthouse 1705
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Vuosaari harbour – Eestiluoto 3335
Eestiluoto – Helsinki lighthouse 1705
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Varlax – Porvoo lighthouse 5355
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Viikari – Orregrund 5356
Orregrund – Tiiskeri 5356
Tiiskeri – Kalbådagrund 5356
Hamina – Suurmusta 8446
Suurmusta – Merikari 7356
Merikari – Kaunissaari 3336

Russian Federation, 26.03.2024

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Sweden, 26.03.2024

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