



Eisbericht Nr. 89

Amtsblatt des BSH

Jahrgang 97

Nr. 89

Friday, 22.03.2024

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Übersicht

In der Bottenwiek befindet sich in den nördlichen Schären bis 75 cm dickes, in den südlichen bis 50 cm dickes Festeis. Auf See treibt im Norden zumeist 30–70 cm dickes, sehr dichtes, örtlich aufgepresstes und übereinandergeschobenes Eis, das teilweise schwer zu passieren ist. Weiter südlich treibt auf See dichtes Eis und außerhalb der Küsten kommt im Westen und Südosten offenes Wasser vor. An den Küsten von Norra Kvarken liegt bis 50 cm dickes Festeis; auf See treibt im Westen 10–50 cm dickes, dichtes Eis und ansonsten kommt meist offenes Wasser vor. An den Küsten der Bottensee kommt im Osten bis 55 cm und im Westen bis 30 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 sehr lockeres bis sehr dichtes, 5–35 cm dickes Eis. Im Rigaischen Meerbusen kommt im Nordosten morsches Festeis vor und an den Küsten treibt örtlich Eis. Ansonsten kommt im Mälaren und Vänern örtlich dünnes Eis, teilweise aber auch bis 30 cm dickes Festeis vor.

Overview

In the Bay of Bothnia there is fast ice in the archipelagos, up to 75 cm thick in the north and up to 50 cm thick in the south. At sea in the north, there is mostly 30–70 cm thick, very close, ridged and rafted ice that is difficult to force at places. Further south there is close ice at sea and open water outside the western and the southeastern coasts. In the Quark there is up to 50 cm thick fast ice at the coasts and at sea there is 10–50 cm thick, close ice in the west and mostly open water elsewhere. At the coasts of the Sea of Bothnia there is fast ice, up to 55 cm thick in the east and up to 30 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, open to very close ice. In the northeastern Gulf of Riga there is rotten fast ice at the coast with very open to close ice in places along the coast. In the Mälaren and Vänern there is thin ice at places, but also up to 30 cm thick fast ice.

Bay of Bothnia

In the archipelagos of the Bay of Bothnia there is fast ice; 45–75 cm thick in the north and up to 25–65 cm thick in the south. In the northeast the fast ice stretches out to Malören, Kemi-3, Oulu-3 and Raahe lighthouse. At sea north of a line Simpgrundet to Kalajoki there is 40–70 cm thick, ridged and rafted ice; the field is difficult to force at places. Further south there is first 10–40 cm thick very close

ice and then 2–25 cm thick close ice, but open water outside the Swedish coast and very open ice and open water outside the Finnish coast from Kokkola southwards.

With northeasterly winds the temperatures will drop during the weekend reaching moderate frost on Sunday. New ice formation is expected and the ice will drift southwestwards.

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

www.bsh.de/eis

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The Quark

There is 35–60 cm thick fast ice in the Vaasa archipelago out to Ensten with 20-40cm thick open ice and open water further out. 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, close ice from north of

Högbonden to Holmöarna. Else at sea there is close ice in the northwest and open elsewhere. With northerly winds temperatures will start to drop during Saturday, leading to some new ice formation. The ice will drift southwards.

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 in the east

there is open water with single ice floes. With days temperatures dropping below zero on Sunday some ice may form, but overall no larger change is expected.

Archipelago Sea and Åland Sea

In the Archipelago Sea there is 25–40 cm thick fast ice in the inner archipelago of the Finnish coast. 10–30 cm thick, fast ice is present around the island of the outer archipelagos and the Åland Is-

lands with open water in between. In the Åland Sea there is 5–20 cm thick fast or level ice in bays along the coast. No larger change is expected over the weekend.

Northern Baltic

In Lake Mälaren there is 10–30 cm thick fast ice with mostly open water on the fairways. Along the outer Swedish coast there is open water or thin

open ice. Ice melt is expected.

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 30-40cm thick fast ice and in the Bjerkesund there is 20–30 cm thick fast ice; very close ice is present in both entrances with thin open ice further out. Off the northern fast ice, out to about 60°05'N to 60°10'N, there is 10-35cm thick ice ranging from open ice to very close ice. East of Haapasaari

there is ridged, 10-35cm thick very close ice. From St. Petersburg to the longitude of lighthouse Tolbuchin there is 35–45 cm thick fast ice with very open ice further out to about Seskar. Outside the southern coast there is open water in Koporye and Luga Bay and ice free from Narva Bay to the west. In Lake Saimaa 30-55cm thick ice with open areas. With temperatures around zero and southwesterly to westerly wind the ice will just drift eastwards.

Gulf of Riga

In Väinameri there is rotten fast ice or very close ice near the coasts and else mostly open water. Off the south coast of Saaremaa there is a band with 5–25 cm thick ice different concentrations. In

the Bay of Pärnu, there is rotten fast ice near the northern coast and open ice outside the coast in the west. Else open water out to about Kihnu. Further ice melt is expected.

Central Baltic

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

Further ice melt is expected.

Swedish Lakes

In Lake Vänern rotten fast ice is present in the northern archipelagos. In the Dalbosjön there is 5–15 cm thick, very close ice at the northwestern

coast. Ice melt is expected.

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Estonia	Pärnu	1600 kW	1C (Lloyd's)	11.03.
	Kunda and Sillamäe	1200 kW	II (Lloyd's)	04.02.
Finland	Tornio, Kemi and Oulu	2000/4000 dwt	IA Super (2000 t)/ IA (2000 t)	27.02.
	Vaasa	2000 dwt	IA	10.01.
	Raahe, Kalajoki, Kokkola and Pietarsaari	4000 dwt	IA	13.01.
	Pori, Rauma	2000 dwt	I	06.03.
	Kaskinen and Kristiinankaupunki	2000 dwt	I	21.03.
	Uusikaupunki	2000 dwt	I	18.03.
	Langnäs	2000 dwt	II	13.01.
	Naantali and Turku	2000 dwt	I	23.01.
	Mussalo	2000 dwt	IB	29.01.
	Sköldvik	2000 dwt	I	29.01.
	Koverhar, Lappohja, Inkoo, Kantvik and Helsinki	2000 dwt	II	18.03.
	Taalintehdas and Förby	2000 dwt	II	18.03.
	Loviisa, Kotka and Hamina	2000 dwt	IB	29.01.
	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/Ice 2	11.03.
	St. Petersburg		Ice 1	22.03.
	Ust-Luga	-	Ice 1/Ice 2	22.03.
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 and Öregrund	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	2000 dwt	IC	04.01.
	Hallstavik and Grisslehamn	2000 dwt	IC	04.01.
	Köping and Västerås	2000 dwt	IC	26.02.
	Balsta	2000 dwt	IC	26.02.
	Stockholm and Södertälje	2000 dwt	II	04.01.
Vänern	2000 dwt	II	14.03.	

Estonia

Icebreaker: EVA-316 assists to the port of Pärnu. BOTNICA assists to the ports of Kunda and Sillamäe.

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

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, 22.03.2024

Paernu, port and bay 4425
Moonsund 2/32

Finland, 22.03.2024

Röyttä – Etukari 8546
Etukari – Ristinmatala 8546
Ajos – Ristinmatala 8546
Ristinmatala – Kemi 2 7476
Kemi 2 – Kemi 1 5476
Sea area SW of Kemi 1 5476
Kemi 2 – Ulkokrunni – Virpiniemi 7476
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Kattilankalla – Oulu 1 7476
Sea area SW of Oulu 1 5476
High Sea N of the latitude of Marjaniemi 5476
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Heikinkari – Raahe lighthouse 6856
Raahe lighthouse – Nahkiainen 5476
Latitude Marjaniemi – Ulkokalla, Sea 5476
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Repskär – Kokkola lighthouse 5476
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Pietarsaari – Kallan 8446
Sea area off Kallan 2726
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Sea area ENE of Nordvalen 4376
Sea area Nordvalen to W of Norrskär 4376
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Kymäpihlaja – Rauma lighthouse 1706
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Lövskär – Grisselborg 7346
Grisselborg – Norparskär 1706
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Hanko harbours – Hanko 1 1702
Hanko – Vitgrund 8342
Vitgrund – Utö 5142
Koverhar – Hästö Busö 8345

Hästö Busö – Ajax 1705
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Sea area at Porkkala 1705
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Harmaja – Helsinki lighthouse 5745
Fairway Helsinki – Porkkala – Rönnskär 2725
Vuosaari harbour – Eestiluoto 5745
Eestiluoto – Helsinki lighthouse 1705
Porvoo harbours – Varlax 5346
Varlax – Porvoo lighthouse 5346
Porvoo lighthouse – Kalbådagrund 5346
Sea Kalbådagrund – Helsinki lighthouse 1706
Valko Harbour – Täktarn 7346
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Archipelago fairway Glosholm–Helsinki 7346
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Viikari – Orregrund 5346
Orregrund – Tiiskeri 5346
Tiiskeri – Kalbådagrund 3736
Hamina – Suurmusta 8446
Suurmusta – Merikari 7346
Merikari – Kaunissaari 5376

Russian Federation, 21.03.2024

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St. Petersburg – E-point island Kotlin 89//
E-point Kotlin – long. lighth. Tolbuhkin 43//
Lighth. Tolbuhkin – lighth. –Šepelevskij 32//
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Sweden, 22.03.2024

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Umeå – Väktaren 6456
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Hallstavik – Svartklubben	8346
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Stockholm – Trälhavet – Klövholmen	1000
Klövholmen – Sandhamn	1000
Trollharan – Langgarn	1000
Köping – Kvicksund	8344
Västerås – Grönsö	8344
Grönsö – Södertälje	1204
Stockholm – Södertälje	1204
Södertälje – Fifong	1104
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