



Eisbericht Nr. 21

Amtsblatt des BSH

Jahrgang 96

Nr. 21

Tuesday, 27.12.2022

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Übersicht

In den Schären der Bottenwiek befindet sich bis 25 cm dickes Festeis sowie 5–15 cm dickes ebenes Eis. Weiter außerhalb treibt im Nordosten 5–15 cm dickes, sehr dichtes Eis und Neueis entlang der Eiskante. In Norra Kvarken liegt bei Vaasa bis 20 cm dickes Festeis, ansonsten kommt an den Küsten Neueis oder dünnes ebenes Eis vor. In der Bottensee, dem Schärenmeer und dem Mälarsee kommt entlang der Küsten dünnes, ebenes Eis oder Neueis vor. Im Finnischen Meerbusen kommt in den östlichsten Buchten bis 20 cm dickes Festeis und in geschützten Buchten entlang der Küsten kommt Neueis und dünnes ebenes Eis vor. Im Nordosten des Rigaischen Meerbusen befindet sich 5–15 cm dickes ebenes Eis oder Neueis entlang der Küsten und der Bucht von Pärnu. Weiter südlich kommt örtlich in geschützten Buchten Neueis vor.

Overview

In the archipelagos of the Bay of Bothnia there is up to 25 cm thick fast ice as well as 5–15 cm thick level ice. Further out, there is 5–15 cm thick, very close ice in the northeast and new ice along the ice edge in the east. In the Quark there is up to 20 cm thick fast ice near Vaasa and else new ice or thin level ice along the coasts. In the Sea of Bothnia, the Archipelago Sea and Lake Mälaren, there is thin level ice and new ice along the coasts. In the Gulf of Finland, there is up to 20 cm thick fast ice in the easternmost bays. In sheltered places along the coasts, there is new ice and thin level ice. In the northeastern Gulf of Riga 5–15 cm thick level ice or new ice is present along the coasts and in the Bay of Pärnu. Further south, there is new ice in some inner sheltered areas.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 10–25 cm thick fast ice and thin level ice further out. On the Finnish side, there is 10–20 cm thick level ice or very close ice to Kemi-2 and Oulu-4. There is 10–20 cm thick fast ice between Hailuoto and Oulu. In the southern Bay of Bothnia, there

is thin level ice or in places 5–15 cm thick fast ice in the inner bays. Off the ice on the Finnish side there is a belt of new ice.

Ice formation and ice growth is expected the coming day. The ice will drift slightly to the north/northwest.

The Quark

There is up to 20 cm thick fast or level ice in the Vaasa archipelago. On the Swedish side thin level ice in sheltered regions and new ice and very open

thin ice further out reaching to Holmöarna.

Some ice formation and ice growth is expected the coming day.

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

www.bsh.de/eis

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Nachdruck, auch auszugsweise, verboten

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Sea of Bothnia

In the archipelagos along the coasts there is mostly thin level ice on the Finnish side and new ice on the Swedish side. On the upper Ångermanälven, there is 5–15 cm thick fast or level ice and new ice

is present in the lower part.

Some new ice formation may occur in the northern part but overall no larger changes are expected.

Archipelago Sea

New ice is present in sheltered inner bays.

No larger change is expected the coming day.

Northern Baltic

In Lake Mälaren 2-10 cm thick level ice is present in the western part.

Some new ice may form in the Mälaren, but else no larger change is expected the coming day.

Gulf of Finland

10–25cm thick compact ice is present east of the island Kotlin. In the bay to the northeast of Kotlin there is 5–15 cm thick very close ice. Further out, there is new ice. In the top of Vyborg Bay, there is 15–25 cm thick fast ice. In places along the northern coast and in sheltered places along the south-

ern coast, there is thin level ice and new ice. On Lake Saimaa, there is 5–20 cm thick ice and new ice, in the southern part also places with open water.

No major changes are expected the coming day.

Gulf of Riga

In Väinameri there is fast ice and light nilas, on the fairway it is ice free. In the Bay of Pärnu, there is a 10–15 cm thick fast ice out to the line Lindi-Uulu

(~58°17'N) and further out very close nilas to the line Saksania–Voiste. Latvian fairways are ice free. No larger changes are expected the coming day.

Central Baltic

New ice is present in some sheltered areas.

Melting is expected the coming day.

Southeastern Baltic

In the Curonian lagoon there is level ice and in the Vistula lagoon there is new ice.

Melting is expected the coming day.

Western Baltic

The area is ice free.

Skagerrak and Kattegat

Up to 10 cm thick ice is present in some Norwegian fjords near Halden, Moss and Tønsberg.

No larger changes are expected the coming day.

Swedish Lakes

New ice and thin level ice is present in some sheltered areas.

Some ice formation is expected the coming day.

Dr. W. Aldenhoff

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Estonia	Pärnu	1600 kW	1 C	23.12.
Finland	Tornio, Kemi and Oulu	2000 dwt	I	24.12.
	Raahe and Vaasa	2000 dwt	II	24.12.
	Loviisa, Kotka and Hamina	2000 dwt	II	24.12.
	Lake Saimaa and Saimaa Canal	2000 dwt	IB	27.12.
	Kalajoki, Kokkola and Pietarsaari	2000 dwt	II	01.01.
Sweden	Karlsborg and Lulea	2000 dwt	I	25.12.
	Haraholmen and Skelleftehamn	2000 dwt	I	25.12.
	Holmsund, Rundvik, Husum and Örnsköldvik	2000 dwt	II	21.12.
	Angermanälven	2000 dwt	IC	21.12.
	Köping	1300/2000 dwt	IC/II	17.12.
	Västerås and Balsta	1300/2000 dwt	IC/II	22.12.

Estonia**Icebreakers:**

EVA-316 assists in the port of Pärnu.

Finland/Sweden

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:

KONTIO, **ATLE**, OTSO and ALE assist in the Bay of Bothnia. TYRSKY assists in the Lake Saimaa.

Russia

There are restrictions for small crafts going to Vysotsk, Vyborg, St. Petersburg, Ust-Luga and Primorsk.

Icebreakers: Several icebreakers assist vessels to the port of Vyborg, Vysotsk, Primorsk, Ust-Luga and St. Petersburg.

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, 27.12.2022

Paernu, port and bay 7235

Ångermanälven north Sandö Bridge 8244

Ångermanälven south Sandö Bridge 8244

Härnösand – Härnön 4044

Latvia, 26.12.2022

Riga to the Cape of Mersrags, fairway 1000

Sundsvall – Draghallan 4041

Hudiksvallfjärden 4041

Iggesund – Agö 4041

Russian Federation, 27.12.2022

Port of St. Petersburg 63/3

Sandarne – Hällgrund 4041

St. Petersburg – E-point island Kotlin 53/2

Ljusnefjärden – Storzjungfrun 4041

E-point Kotlin – long. lighth. Tolbuhkin 4001

Gävle – Eggegrund 5142

Lighth. Tolbuhkin – lighth. –Šepelevskij 4001

Hallstavik – Svartklubben 4041

Vyborg, port and bay 83/3

Stockholm – Trälhavet – Klövholmen 4041

Köping – Kvikksund 5142

Sweden, 27.12.2022

Karlsborg – Malören 8346

Västerås – Grönsö 5142

Sea area off Malören 2026

Södertälje – Fifong 4041

Luleå – Björnklack 8346

Karlskrona – Aspö 4041

Björnklack – Farstugrunden 4046

Fairway to Karlstad 5041

Sandgrönn fairway 5246

Fairway to Kristinehamn 4041

Rödkallen – Norströmsgrund 4046

Haraholmen – Nygrån 8246

Sea area off Nygrån 2026

Skelleftehamn – Gåsören 5246

Sea area off Gåsören 2126

Sea area off Bjuröklubb 5246

Western Quark (W of Holmöarna) 5146

Umeå – Väktaren 5046

Örnsköldsvik – Hörnskatan 5146

Hörnskatan – Skagsudde 5146