



Eisbericht Nr. 27

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Übersicht

In den Schären der Bottenwiek befindet sich bis 30 cm dickes Festeis. Weiter außerhalb treibt im Nordosten 5–20 cm dickes, sehr dichtes Eis und im Westen dünnes Eis. In Norra Kvarnen 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 30 cm dickes Festeis und in geschützten Buchten entlang der Küsten kommt Neueis und dünnes ebenes Eis vor. Im Nordosten des Rigaischen Meerbusen befindet sich 10–20 cm dickes ebenes Eis oder Festeis entlang der Küsten und der Bucht von Pärnu. Im Kurischen Haff befindet sich sehr dichtes Treibeis.

Overview

In the archipelagos of the Bay of Bothnia there is up to 30 cm thick fast ice. Further out, there is 5–20 cm thick, very close ice in the northeast and in the west, there is thin ice. 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 30 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, there is 5–15 cm thick level ice or fast ice is present along the coasts and in the Bay of Pärnu. In the Curonian lagoon there is very close drift ice.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 10–30 cm thick fast ice. Further out in the northeast, there is 5–20 cm thick and rafted very close drift ice to about Lallinmöyly followed by new ice to 5 nm north of Kemi-1. Further out to 5 nm south of Kemi-1, there is 5–20 cm thick, very close drift ice. Further south to Holma and Raahe, there is new ice and thin drifting ice. Off the fast ice in

the west, there is new ice to about Farstugrunden–Falkensgrund–Nygrån. In the southern Bay of Bothnia, there is thin level ice or in places 5–15 cm thick fast ice in the inner bays. Further out, there is new ice formation.

Ice formation and ice growth is expected the coming day. The ice drifts to the southwest.

The Quark

There is up to 20 cm thick fast or level ice in the Vaasa archipelago and thin drift ice and new ice

further out to west of Vaasa lighthouse. On the Swedish side, there is thin level ice in sheltered

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

www.bsh.de/eis

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Eisankünfte / Ice Information

Telefon: +49 (0) 381 4563 -780

Telefax: +49 (0) 381 4563 -949

E-Mail: ice@bsh.de

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regions and new ice further out. Some new ice formation and ice growth is ex-

Sea of Bothnia

In the archipelagos along the coasts there is mostly thin level ice and new ice further out on the Finnish side. On the Swedish side, there is thin level ice the archipelagos in the north and new ice or thin level ice in the south. On the Ångermanälven,

Archipelago Sea

New ice is present in sheltered inner bays. Some new ice formation is expected in sheltered

Northern Baltic

In Lake Mälaren, 2–10 cm thick level ice is present in the western part and new ice in sheltered places. New ice is present in sheltered places along

Gulf of Finland

15–30 cm thick compact ice is present east of the island Kotlin. Westwards of Kotlin, there is drifting very close ice and new ice to about Šepelevskij. New ice forms along the northeastern coast to Primorsk. In the top of Vyborg Bay, there is 15–25 cm thick fast ice and new ice or very open drift ice further out. Along the northern coast and in some

Gulf of Riga

In Väinameri, there is 10–20 cm thick fast ice in sheltered bays and very close ice between Hiiumaa and Saaremaa. The fairway is ice free. In the Bay of Pärnu, there is a 10–20 cm thick fast ice out to the line Lindi-Uulu and further out very close ice

Central Baltic

The area is mostly ice free.

Southeastern Baltic

In the Curonian lagoon, there is very close ice and Vistula lagoon is mostly ice free.

Western and Southern Baltic

The area is ice free.

Skagerrak and Kattegat

Up to 10 cm thick ice or new ice is present in some Norwegian Fjords.

Swedish Lakes

New ice and thin level ice is present in some sheltered bays of Lake Vänern.

pected the coming day. The ice drifts slightly to the west/southwest.

there is 5–15 cm thick fast or level ice. Some new ice formation may occur along the coasts the coming day but else no larger changes are expected.

places but else no larger changes.

the coast
Some new ice formation is possible in Lake Mälaren but else no larger changes.

sheltered places along the southern coast, there is thin level ice and new ice. Further out in the north-eastern part, there is new ice formation. On Lake Saimaa, there is 5–20 cm thick ice and new ice, in the southern part also places with open water. Some new ice formation is expected the coming day. The ice drifts to the south/southwest.

to the line Manilaid–Voiste. Latvian fairways are ice free.
No major changes are expected the coming day with a slight westerly ice drift.

Melting continues the coming day.

Some new ice formation in sheltered places is expected the coming day.

Some new ice formation is possible in the northern part but else no larger changes.

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.
	Tornio, Kemi and Oulu	2000 dwt	IB	07.01.
	Raahe and Vaasa	2000 dwt	II	24.12.
	Kalajoki, Kokkola and Pietarsaari	2000 dwt	II	01.01.
	Raahe, Kalajoki, Kokkola, Pietarsaari and Vaasa	2000 dwt	I	07.01.
	Kaskinen, Inkoo, Kantvik, Helsinki, Sköldvik and Mussalo	2000 dwt	II	07.01.
	Loviisa, Kotka and Hamina	2000 dwt	II	24.12.
	Lake Saimaa and Saimaa Canal Lake Saimaa and Saimaa Canal	2000 dwt 2000 dwt	IB IA	27.12. 05.01.
Sweden	Karlsborg and Lulea	2000 dwt	IC	25.12.
	Karlsborg and Lulea	2000 dwt	IB	08.01.
	Haraholmen and Skelleftehamn	2000 dwt	IC	25.12.
	Holmsund, Rundvik, Husum and Örnsköldvik	2000 dwt	II	21.12.
	Angermanälven	2000 dwt	IC	21.12.
	Angermanälven	2000 dwt	IB	07.01.
	Köping	1300/2000 dwt	IC/II	17.12.
	Köping	2000 dwt	IC	07.01.
	Västeras and Balsta	1300/2000 dwt	IC/II	22.12.
	Västeras	2000 dwt	IC	07.01.

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, **FREJ** 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, 04.01.2023

Paernu, port and bay 7235

Finland, 04.01.2023

Röyttä – Etukari 8346

Etukari – Ristinmatala 7756

Ajos – Ristinmatala 7756

Ristinmatala – Kemi 2 5756

Kemi 2 – Kemi 1 5756

Sea area SW of Kemi 1 5756

Kemi 2 – Ulkokrunni – Virpiniemi 7756

Oulu harbours – Kattilankalla 8746

Kattilankalla – Oulu 1 4146

Sea area SW of Oulu 1 2006

High Sea N of the latitude of Marjaniemi 3006

Raahe harbour – Heikinkari 3005

Heikinkari – Raahe lighthouse 2005

Rahja harbour – Välimatala 3025

Ykspihlaja – Repskär 5145

Repskär – Kokkola lighthouse 2005

Pietarsaari – Kallan 5145

Sea area off Kallan 2005

Vaskiluoto – Ensten 5745

Ensten – Vaasa lighthouse 3125

Vaasa lighthouse – Norrskär 2005

Kaskinen – Sälgrund 3001

Sea area off Sälgrund 2000

Naantali and Turku – Rajakari 3001

Inkoo a. Kantvik – sea area Porkkala 3001

Helsinki harbours – Harmaja 1000

Valko Harbour – Täktarn 5145

Kotka – Viikari 3105

Viikari – Orrengrund 1000

Hamina – Suurmusta 3115

Suurmusta – Merikari 1005

Norway, 04.01.2023

Svinesund – Halden 31//

Mossesund 9223

Drammensfjord 3112

Tønsberg, inner harbour 8101

Langårsund (Kragerø) 8144

Russian Federation, 04.01.2023

Port of St. Petersburg 63/3

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

E-point Kotlin – long. lighth. Tolbukhin 4101

Lighth. Tolbukhin – lighth. –Šepelevskij 4001

Vyborg, port and bay 83/3

Island Vichrevoj – Island Sommers /001

Strait Bjerkesund 50/2

E-point Bol'šoj Ber'ozovyj – Šepelevskij 50/2

Sweden, 04.01.2023

Karlsborg – Malören 8346

Sea area off Malören 5336

Luleå – Björnklack 8346

Björnklack – Farstugrunden 5046

E and SE of Farstugrunden	5046
Sandgrönn fairway	8346
Rödkallen – Norströmsgrund	5046
Haraholmen – Nygrån	8246
Sea area off Nygrån	5046
Skelleftehamn – Gåsören	5246
Sea area off Bjuröklubb	5246
Umeå – Väktaren	4046
SE of Väktaren	2026
Fairway to Husum	4046
Örnsköldsvik – Hörnskatan	5146
Ångermanälven north Sandö Bridge	8244
Ångermanälven south Sandö Bridge	8244
Sundsvall – Draghällan	5041
Hudiksvallfjärden	5142
Iggesund – Agö	5142
Sandarne – Hällgrund	4041
Ljusnefjärden – Störjungfrun	4041
Gävle – Eggegrund	5142
Hallstavig – Svartklubben	4041
Köping – Kvicksund	5144
Västerås – Grönsö	5144
Stockholm – Södertälje	4044
Fairway to Karlstad	5142
Fairway to Kristinehamn	4041