



Eisbericht Nr. 31

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Übersicht

In den Schären der Bottenwiek befindet sich bis 40 cm dickes Festeis. Weiter außerhalb treibt im Nordosten 10–30 cm dickes, sehr dichtes Eis und im Westen liegt dünnes, ebenes Eis. Entlang der gesamten Eiskante befindet sich festgestampftes Eis. In der südlichen Bottenwiek befindet sich in den Buchten dünnes ebenes Eis oder Festeis und im Osten Neueis weiter außerhalb. In Norra Kvarken liegt bei Vaasa bis 20 cm dickes Festeis. Ansonsten kommt an den Küsten Neueis oder dünnes ebenes Eis vor. Auf See treibt Neueis. In der Bottensee, dem Schärenmeer und dem Mälarsee kommt entlang der Küsten dünnes, ebenes Eis oder Neueis vor. Im Finnischen Meerbusen liegt in den östlichsten Buchten bis 30 cm dickes Festeis vor. Bis etwas westlich von Moščnyj treibt 5–15 cm dickes Eis verschiedener Konzentration. In den Buchten entlang der Küsten kommt im Norden Festeis und im Süden örtlich Neueis vor. Im Nordosten des Rigaischen Meerbusen befindet sich 10–20 cm dickes Festeis in geschützten Buchten und Neueis. In der Bucht von Pärnu liegt Festeis entlang der Küste und sehr dichtes Eis treibt bis zur Insel Kihnu.

Overview

In the archipelagos of the Bay of Bothnia, there is up to 40 cm thick fast ice. Further out in the northeast, there is 10–30 cm thick, very close ice and in the west, there is thin level ice. A brash ice barrier has formed along the entire ice edge. In the southern Bay of Bothnia, there is thin level ice or fast ice in the inner bays and new ice further out 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. At sea, there is drifting new ice. 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. To slightly west of Moščnyj, there is 5–15 cm thick drift ice of varying concentration. In the bays along the coasts, there is fast ice in the north and new ice in places in the south. In the northeastern Gulf of Riga, there is 10–20 cm thick fast ice in sheltered bays and new ice. In the Bay of Pärnu, there is fast ice along the coast and very close drift ice to the south tip of Kihnu.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 15–40 cm thick fast ice. Further out in the west, there is thin level ice with a brash ice barrier to about Rödkallen and thin very open to open ice further out. In the northeast, there is very close,

10–30 cm thick ice to about Malören – Kemi-1 – Oulun portti. The ice is difficult to force in places and a brash ice barrier has formed along the ice edge. From Oulun portti to Raahe, there is close, 3–10 cm thick drift ice. In the southern Bay of

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Bothnia, there is thin level ice or in places 5–15 cm thick fast ice in the inner bays. Further out in the east, there is new ice and new ice formation to

The Quark

There is up to 20 cm thick fast in the Vaasa archipelago to Ensten. Further out, there is thin close ice and new ice to Norrskär. On the Swedish side, there is thin level ice in sheltered regions and new ice further out and west of Holmöarna. At sea in

Sea of Bothnia

In the archipelagos along the eastern coast, there is fast ice 5–15 cm thick and new ice further out. Along the western coast there is thin level ice in sheltered bays. On Ångermanälven, there is 10–20

Archipelago Sea

At the eastern coast, there is 3–10 cm fast ice in the inner bays and else new ice in sheltered plac-

Northern Baltic

In Lake Mälaren, 3–10 cm thick level ice is present in the western part. New ice occurs in sheltered

Gulf of Finland

15–30 cm thick compact ice is present east of the island Kotlin and in the bay north of Kotlin. Further west to about Seskar, there is very open ice. In the Bay of Vyborg, there is up to 25 cm fast ice. Further out, there is thin level ice followed by rafted 5–15 cm thick, very close ice to Nerva and eastwards. At sea from Seskar to west of Moščnyj,

Gulf of Riga

In Väinameri, there is 10–25 cm thick fast ice in sheltered bays and open to very open ice between Hiiumaa and Saaremaa. On the fairway, there is new ice. In the Bay of Pärnu, there is 10–20 cm thick fast ice and further out to the line south tip of Kihnu – Pikla Nina, there is 5–15 cm thick, very

Central Baltic

The area is mostly ice free.

Southeastern Baltic

In the Curonian lagoon, there is thin, close drift ice in places and Vistula lagoon is mostly 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.

about Nahkiainen–Ulkokalla–west of Kokkola. Ice formation and ice growth continues the coming day. The ice will drift to the north.

the central part, there is drifting new ice. Some ice growth and new ice formation are expected the coming day. The ice will drift to the north.

cm thick fast or level ice. Along the Finnish coast some new ice formation is possible. Else no major changes are expected. The ice drifts to the north.

es. No major changes are expected the coming day.

places and along the coast. No major changes are expected the coming day.

there is very open to open thin drift ice or new ice. Along the northern coast, there is 3–15 cm fast ice in the inner bays. Along the southern coast, there is new ice in places. No major changes are expected the coming day and the ice will drift to the north.

close drift ice. New ice forms along the coast in the north-eastern part. In the port of Riga and from Riga to Kolka, there is open water. No major changes are expected the coming day. The ice drifts to the north.

Slight melting conditions are expected the coming day.

No major change are expected the coming day.

No major changes are expected the coming day but some slight melting is possible.

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	IB	07.01.
	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.
Sweden	Karlsborg and Lulea	2000 dwt	IB	08.01.
	Haraholmen and Skelleftehamn	2000 dwt	IC	25.12.
	Holmsund, Rundvik, Husum and Örensköldvik	2000 dwt	II	21.12.
	Angermanälven	2000 dwt	IB	07.01.
	Köping	2000 dwt	IC	07.01.
	Västerås	2000 dwt	IC	07.01.
	Balsta	1300/2000 dwt	IC/II	22.12.

Estonia**Icebreakers:**

EVA-316 assists in the port of Pärnu.

Finland/Sweden

The Saimaa Canal is closed for traffic since 9 January and the icebreaking season in Saimaa continues in spring.

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. ZEUS assists in the Quark.

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: A_B Amount and arrangements of sea ice 0 Ice free 1 Open water – concentration less than 1/10 2 Very open ice - concentration 1/10 to 3/10 3 Open ice – concentration 4/10 to 6/10 4 Close ice – concentration 7/10 to 8/10 5 Very close ice – concentration 9/10 to 9+/10 6 Compact ice, including consolidated ice – concentration 10/10 7 Fast ice with drift ice outside 8 Fast ice 9 Lead in very close or compact drift ice or along the fast ice edge / Unable to report</p> <p>Third number: T_B Topography or form of ice 0 Pancake ice, ice cakes, brash ice – less than 20 m across 1 Small ice floes – 20 to 100 m across 2 Medium ice floes – 100 to 500 m 3 Big ice floes – 500 to 2000 m across 4 Vast or giant ice floes – more than 2000 m across – or level ice 5 Rafted ice 6 Compact slush or shuga, or compacted brash ice 7 Hummocked or ridged ice 8 Thaw holes or many puddles on the ice 9 Rotten ice / No information or unable to report</p>	<p>Second number: S_B Stage of ice development 0 New ice or dark nilas (less than 5 cm thick) 1 Light nilas (5 - 10 cm thick) or ice rind 2 Grey ice (10 - 15 cm thick) 3 Grey-white ice (15 - 30 cm thick) 4 White ice, first stage (30 - 50 cm thick) 5 White ice, second stage (50 - 70 cm thick) 6 Medium first year ice (70 - 120 cm thick) 7 Ice predominantly thinner than 15 cm with some thicker ice 8 Ice predominantly grey-white ice (15 – 30 cm) with some thicker ice 9 Ice predominantly thicker than 30 cm with some thinner ice / No information or unable to report</p> <p>Fourth number: K_B Navigation conditions in ice 0 Navigation unobscured 1 Navigation difficult or dangerous for wooden vessels without ice sheathing 2 Navigation difficult for unstrengthened or low-powered vessels built of iron or steel. Navigation for wooden vessels even with ice sheathing not advisable 3 Navigation without icebreaker assistance possible only for high-powered vessels of strong construction and suitable for navigation in ice 4 Navigation proceeds in lead or broken ice-channel without the assistance of an icebreaker 5 Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size 6 Icebreaker assistance can only be given to vessels of special ice class and of special size 7 Icebreaker assistance can only be given to vessels after special permission 8 Navigation temporarily closed 9 Navigation has ceased / Unknown</p>
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Estonia, 10.01.2023

Shipping route from Narva-Jõssuu	2000
Kunda, port and bay	2000
Paernu, port and bay	7335
Moonsund	4012

Finland, 10.01.2023

Röyttä – Etukari	8846
Etukari – Ristinmatala	7356
Ajos – Ristinmatala	7356
Ristinmatala – Kemi 2	5356
Kemi 2 – Kemi 1	5766
Sea area SW of Kemi 1	5766
Kemi 2 – Ulkokrunni – Virpiniemi	7356
Oulu harbours – Kattilankalla	8356
Kattilankalla – Oulu 1	3126
Sea area SW of Oulu 1	3126
High Sea N of the latitude of Marjaniemi	2106
Raahel harbour – Heikinkari	4146
Heikinkari – Raahel lighthouse	4146
Raahel lighthouse – Nahkiainen	4046
Latitude Marjaniemi – Ulkokalla, Sea	2006
Rahja harbour – Välimatala	4046
Välimatala to line Ulkokalla – Ykskivi	2006
Sea betw. lat. of Ulkokalla – Pietarsaari	2006
Ykskivilaja – Repskär	5146
Repskär – Kokkola lighthouse	4046
Sea area off Kokkola lighthouse	3026
Pietarsaari – Kallan	5146

Sea area off Kallan	3006
Sea lat. Pietarsaari – NE Nordvalen	1006
Sea area ENE of Nordvalen	3016
Sea area Nordvalen to W of Norrskär	3016
Vaskiluoto – Ensten	8746
Ensten – Vaasa lighthouse	4046
Vaasa lighthouse – Norrskär	3006
Kaskinen – Sälgrund	5145
Sea area off Sälgrund	3005
Pori harb. to line Pori lighth. – Säppi	3001
Rauma, Harbour – Kylmäpihlaja	5142
Kylmäpihlaja – Rauma lighthouse	2000
Uusikaupunki harbour – Kirsta	5142
Naantali and Turku – Rajakari	2001
Inkoo a. Kantvik – sea area Porkkala	5145
Helsinki harbours – Harmaja	5145
Vuosaari harbour – Eestiluoto	5145
Porvoo harbours – Varlax	1005
Valko Harbour – Täktarn	5145
Kotka – Viikari	5165
Viikari – Orregrund	1005
Hamina – Suurmusta	5245
Suurmusta – Merikari	2005
Merikari – Kaunissaari	0//5

Latvia, 10.01.2023

Port of Riga	1000
Riga to the Cape of Mersrags, fairway	1000
Mersrags to Irben Strait, fairway	1000

Norway, 09.01.2023

Svinesund – Halden	31//
Drammensfjord	4212
Tønsberg, inner harbour	8101
Langårsund (Kragerø)	8144

Russian Federation, 10.01.2023

Port of St. Petersburg	63/3
St. Petersburg – E-point island Kotlin	53/2
E-point Kotlin – long. lighth. Tolbuhkin	5102
Lighth. Tolbuhkin – lighth. –Šepelevskij	2001
Lighthouse Šepelevskij – island Sescar	3001
Island Sescar – Island Sommers	2001
Vyborg, port and bay	83/3
Island Vichrevoj – Island Sommers	4002
Strait Bjerkesund	81/2
E-point Bol'šoj Ber'ozovyj – Šepelevskij	50/2
Luga bay	3001
Appr. Luga bay – line Moš.-Šepel.	3001

Sweden, 10.01.2023

Karlsborg – Malören	8346
Sea area off Malören	5366
Luleå – Björnklack	8346
Björnklack – Farstugrunden	5366
E and SE of Farstugrunden	3126
Sandgrönn fairway	8346
Rödkaullen – Norströmsgrund	3126
Haraholmen – Nygrån	8346
Skelleftehamn – Gåsören	5236
Sea area off Gåsören	2026
Sea area off Bjuröklubb	5246
SW of Nordvalen	4046
Western Quark (W of Holmöarna)	4046
Umeå – Väktaren	5136
SE of Väktaren	4046
Örnsköldsvik – Hörnskatan	5146
Ångermanälven north Sandö Bridge	8344
Ångermanälven south Sandö Bridge	8344
Sundsvall – Draghallan	5242
Hudiksvallfjärden	5242
Iggesund – Agö	5242
Sandarne – Hällgrund	4041
Ljusnefjärden – Storjungfrun	4041
Gävle – Eggegrund	5142
Hallstavik – Svartklubben	4041
Köping – Kvikksund	5144
Västerås – Grönsö	5144
Grönsö – Södertälje	2024
Stockholm – Södertälje	4044
Fairway to Karlstad	5142
Fairway to Kristinehamn	5142