



Eisbericht Nr. 21

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1

Übersicht

In der nördlichen Bottenwiek befindet sich in den Schären bis 35 cm dickes Festes Eis und ebenes Eis. Weiter außerhalb treibt im Norden bis zu 25 cm dickes, sehr dichtes Eis. Weiter südlich bis Norra Kvarken liegt an den Küsten Festes Eis und weiter außerhalb dünnes, ebenes Eis und Neueis. An den Küsten der Bottensee, in den nördlichen Schären und östlichen Buchten des Finnischen Meerbusens und im nördlichen Teil des Rigaischen Meerbusens kommt Neueis und dünnes ebenes Eis sowie örtlich Festes Eis vor. In der südlichen Ostsee kommen örtlich noch Reste von Eis vor. Neueis und örtlich dickeres Eis kommt auch in einigen geschützten Fjorden im Skagerrak vor.

Overview

In the northern Bay of Bothnia there is up to 35 cm thick fast ice and level ice in the archipelagos. Further out in the north, up to 25 cm thick, very close ice is drifting at sea. Further south to Norra Kvarken, there is fast ice along the coast and further out thin level ice or new ice. At the coasts of the Sea of Bothnia, in the northern archipelagos and the eastern bays of the Gulf of Finland and in the northernmost part of the Gulf of Riga there is new ice and thin level ice or fast ice at places. Remnants of ice can be found in some sheltered places of the southern Baltic region. New ice and at places thicker ice is present in sheltered fjords of the Skagerrak.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia there is up to 35 cm thick fast ice. Off the fast ice in the north, very close, 5–25 cm thick and partly rafted drift ice with minor brash ice barriers is present to about a line from Raahe to Luleå. Further south, there is up to 20 cm thick fast ice in the archipelagos along the coast and thin level ice further out from Hailuoto to Kokkola and out to

about Nahkiainen and Ulkokalla with new ice at the ice edge. Off the fast ice in the west, there is close, 5–10 cm thick ice and new ice along the coast further south.

With moderate to severe frost and a gentle breeze from the east/northeast, ice formation and growth will continue with the ice drifting to the west/southwest.

The Quark

There is 5–20 cm thick fast ice in the Vaasa archipelago and from Vaasa to Storhästen. Farther out there is drifting new ice and thin level ice to

Norrskär and Utgrynnan. Along the Swedish coast there is fast ice in inner bays and up to 10 cm thick very close ice or level ice further out to

Herstellung und Vertrieb

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Holmögadd. At sea there is very open thin ice and strings of shuga.

With moderate to severe frost at the coasts, ice

Sea of Bothnia

Thin level ice or fast ice is present in bays along the whole Finnish coast with new ice and ice formation slightly further out. Along the Swedish coast, there is new ice, thin level or fast ice in bays along the coast. On Ångermanälven, there is 5–15

formation and growth will continue. With a fresh breeze from the north/northeast the ice will drift to the south/southwest.

cm thick fast and level ice on the upper part and new is present in the lower part.

With mostly moderate at the coasts, ice formation and ice growths continue.

Archipelago Sea and Åland Sea

In the inner archipelago there is thin level ice and new ice.

With moderate frost in the east and slight frost in the west some ice growth is possible.

Northern Baltic

In Lake Mälaren there is mostly 5–10 cm thick level ice in the west and new ice in the east with the central part being still ice free. New ice is present

in sheltered places at the outer coast.
With slight to moderate frost and light winds some ice formation is expected.

Gulf of Finland

In the top of Vyborg Bay there is 10–15 cm thick fast ice and new ice further out. In the northern part of the Bjerkesund there is close dark nilas. From St. Petersburg to Kotlin there is 10–20 cm thick compact ice with new ice further out to the longitude of Fort Krasnaya Gorka. Along the north-

ern coast there is thin level ice and new ice in the inner archipelagos. In Lake Saimaa there is level ice with varying concentration.
With mostly slight frost and light winds some ice growth is expected but else no larger changes.

Gulf of Riga

In Väinameri there is up to 15 cm thick very close ice at sea and level or fast ice at the coasts. In the Bay of Pärnu there is 5–15 cm fast or level ice to about the line Manilaiu-Sorgu-Voiste. Further out to

the island Kihnu, there is new ice. In the port of Riga, there is open water.
With mostly slight frost and light winds, some ice formation but else no larger changes are expected.

Southeastern Baltic

New ice or thin ice are present in the Curonian Lagoon and in the Vistula lagoon.

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

Southwestern Baltic

Drifting ice remnants can still occur occasionally at the Peenestrom and few other sheltered places.

Ice melt will continue the coming day.

Skagerrak and Kattegat

Ice formation and new ice is present in sheltered places of inner Norwegian Fjords. At places thicker ice is possible in inner bays. Along the Swedish coast, there is new ice in few sheltered areas.

In the northern Skagerrak, some new ice formation is possible with slight to moderate frost. Elsewhere no larger changes are expected.

Swedish Lakes

Thin level ice and new ice is present in sheltered areas of Lake Vänern.

With mostly slight to moderate frost, some ice formation but else no larger changes are expected.

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Finland	Tornio, Kemi and Oulu	2000 dwt	I	09.12.
	Tornio, Kemi and Oulu	2000 dwt	IB	17.12.
	Raahe, Kalajoki, Kokkola, Pietarsaari and Vaasa	2000 dwt	II	06.12.
	Vaasa	2000 dwt	I	17.12.
	Kaskinen and Uusikaupunki	2000 dwt	II	17.12.
	Taalintehtdas, Förby, Koverhar, Lap-pohja, Inkoo, Kantvik, Helsinki, Sköldvik, Loviisa, Mussalo, Kotka and Hamina	2000 dwt	II	09.12.
	Lake Saimaa	2000 dwt	IB	13.12.
	Saimaa Canal	2000 dwt	IB	13.12.
Sweden	Haraholmen	2000 dwt	IC	05.12.
	Karlsborg and Lulea	2000 dwt	IC	02.12.
	Skelleftehamn	2000 dwt	IC	05.12.
	Holmsund	2000 dwt	II	09.12.
	Rundvik, Husum and Örnsköldsvik	2000 dwt	II	12.12.
	Angermanälven	2000 dwt	IC	12.12.
	Köping	1300 dwt	IC	05.12.
	Västeras	1300/2000 dwt	IC/II	05.12.
	Trollhättte Canal and Göta Älv	1300/2000 dwt	IC/II	05.12.
	Vänern	1300/2000 dwt	IC/II	05.12.

Estonia

Icebreaker: EVA-316 assists to 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: ATLE, KONTIO, ALE, OTSO and YMER assist in the northern Bay of Bothnia.

Russia

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

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

Baltic Sea Ice Code

<p>First number:</p> <p>A_B Amount and arrangements of sea ice</p> <ul style="list-style-type: none"> 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>Third number:</p> <p>T_B Topography or form of ice</p> <ul style="list-style-type: none"> 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>Second number:</p> <p>S_B Stage of ice development</p> <ul style="list-style-type: none"> 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>Fourth number:</p> <p>K_B Navigation conditions in ice</p> <ul style="list-style-type: none"> 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
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Estonia, 12.12.2023

Paernu, port and bay	5243
Moonsund	5243

Finland, 13.12.2023

Röyttä – Etukari	8346
Etukari – Ristinmatala	7346
Ajos – Ristinmatala	5346
Ristinmatala – Kemi 2	5356
Kemi 2 – Kemi 1	5356
Sea area SW of Kemi 1	5376
Kemi 2 – Ulkokurunni – Virpiniemi	7356
Oulu harbours – Kattilankalla	7346
Kattilankalla – Oulu 1	5356
Sea area SW of Oulu 1	5356
High Sea N of the latitude of Marjaniemi	5376
Raahe harbour – Heikinkari	8145
Heikinkari – Raahe lighthouse	5145
Raahe lighthouse – Nahkiainen	5145
Latitude Marjaniemi – Ulkokalla, Sea	5355
Rahja harbour – Välimatala	7145
Vaelimatala to line Ulkokalla – Ykskivi	5145
Sea betw. lat. of Ulkokalla – Pietarsaari	5045
Ykspihlaja – Repskär	8745
Repskär – Kokkola lighthouse	4145
Sea area off Kokkola lighthouse	4045
Pietarsaari – Kallan	4045
Sea area off Kallan	2025

Sea lat. Pietarsaari – NE Nordvalen	5165
Sea area ENE of Nordvalen	3015
Sea area Nordvalen to W of Norrskär	2025
Vaskiluoto – Ensten	8745
Ensten – Vaasa lighthouse	4045
Vaasa lighthouse – Norrskär	4045
Sea area SW of Norrskär	2025
Kaskinen – Sälgrund	8142
Sea area off Sälgrund	4041
High sea from N to latitude Yttergrund	2021
Pori harb. to line Pori lighth. – Säppi	2001
Sea W of line Pori lighthouse – Säppi	2021
Rauma, Harbour – Kylmäpihlaja	4041
Uusikaupunki harbour – Kirsta	8142
Kirsta – Isokari	4041
Koverhar – Hästö Busö	5145
Inkoo a. Kantvik – sea area Porkkala	5145
Helsinki harbours – Harmaja	3005
Valko Harbour – Täktarn	5145
Kotka – Viikari	5145
Hamina – Suurmusta	5145
Suurmusta – Merikari	4045

Latvia, 13.12.2023

Port of Riga	1000
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Russian Federation, 13.12.2023

Port of St. Petersburg	62//
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St. Petersburg – E-point island Kotlin	63//
E-point Kotlin – long. lighth. Tolbuhkin	51//
Lighth. Tolbuhkin – lighth. –Šepelevskij	30//
Vyborg, port and bay	82//
Strait Bjerkesund	51//
E-point Bol'soj Ber'ozovyj – Šepelevskij	50//

Sweden, 12.12.2023

Karlsborg – Malören	8346
Sea area off Malören	5356
Luleå – Björnklack	8346
Björnklack – Farstugrunden	5256
E and SE of Farstugrunden	4046
Sandgrönn fairway	8346
Rödkallen – Norströmsgrund	5266
Haraholmen – Nygrän	5336
Sea area off Nygrän	4136
Skelleftehamn – Gåsören	5236
Sea area off Gåsören	4136
Sea area off Bjuröklubb	4136
NE of Nordvalen	4046
SW of Nordvalen	4046
Western Quark (W of Holmöarna)	8146
Umeå – Väktaren	5146
SE of Väktaren	3026
Fairway to Husum	5146
Örnsköldsvik – Hörnskaten	5146
Hörnskaten – Skagsudde	2126
Fairway W of Ulvöarna	2126
Ångermanälven north Sandö Bridge	5144
Ångermanälven south Sandö Bridge	5144
Härnösand – Härnön	4041
Sundsvall – Draghällan	5142
Hudiksvallfjärden	5142
Igesund – Agö	5142
Sandarne – Hällgrund	5142
Ljusnefjärden – Storjungfrun	5142
Gävle – Egggrund	5142
Öregrundsgrepen	4041
Hallstavik – Svartklubben	4041
Stockholm – Trälhavet – Klövholmen	4041
Köping – Kvicksund	5144
Västerås – Grönsö	5144
Stockholm – Södertälje	4041
Södertälje – Fifong	4041
Norrköping – Hargökalv	5142
Järnverket-Lillhammaren – N Kränkan	4041
Uddevalla – Stenungsund	4041
Brofjorden – Dynabrott	4041
Vänersborgsviken	5146
Fairway to Karlstad	5146
Fairway to Kristinehamn	5146
Fairway to Lidköping	5146