



Eisbericht Nr. 22

Amtsblatt des BSH

Jahrgang 97

Nr. 22

Thursday, 14.12.2023

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Übersicht

In der nördlichen Bottenwiek befindet sich in den Schären bis 35 cm dickes Festeis. Weiter außerhalb treibt im Norden bis zu 25 cm dickes, sehr dichtes Eis. Weiter südlich bis Norra Kvarken liegt an den Küsten Festeis und weiter außerhalb dünnes, ebenes Eis und dünnes Treibeis. An den Küsten der Bottensee, in den nördlichen Schären und östlichen Buchten des Finnischen Meerbusens, im nördlichen Teil des Rigaischen Meerbusens und dem Mälarsee kommt Neueis und dünnes ebenes Eis sowie örtlich Festeis 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 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 drifting thin ice. At the coasts of the Sea of Bothnia, in the northern archipelagos and the eastern bays of the Gulf of Finland, in the northernmost part of the Gulf of Riga and lake Mälaren there is new ice and thin level ice or fast ice at places. 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, partly ridged and rafted drift ice with minor brash ice barriers is present to about a line from Raahe to Luleå and further south to the vicinity of Falkensgrund and Norströmsgrund. Further south along the coasts, there is up to 20 cm thick fast ice in the archipelagos. Off the coast from Hailuoto to Kokkola there is

thin level ice or drift ice to about 12 nm west of Nahkiainen and Falkensgrund. Off the fast ice in the west, there is very close, 5–10 cm thick drift ice or level ice. South of Bjuröklubb there is close to very close, 5–15 cm thick drift ice and new ice off the coast.

With moderate to severe frost and a gentle breeze from the north, ice formation and growth will continue with the ice drifting to the south.

The Quark

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

Swedish coast there is fast ice in inner bays and up to 15 cm thick very close ice or level ice further out to Holmöarna. Off Holmsund are minor brash ice barriers. At sea there is very open thin ice and

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

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strings of shuga.

With moderate to severe frost at the coasts, ice formation and growth will continue. With a moder-

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

Archipelago Sea and Åland Sea

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

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

Gulf of Finland

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. In the top of Vyborg Bay there is 10–15 cm thick fast ice and new ice further out. In the Bjerkesund there is very close nilas and new ice in the entrance. Along the

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 south tip of Kihnu, there is open to close drift

Southeastern Baltic

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

Southwestern Baltic

The area is mostly ice-free.

Skagerrak and Kattegat

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.

Swedish Lakes

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

ate breeze from the north the ice will drift to the south.

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

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

With moderate frost along the coasts, some ice growth is expected.

in sheltered places at the outer coast.

With slight to moderate frost and light winds some ice formation is expected.

northern 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 in coastal areas and light winds some ice growth is expected but else no larger changes.

ice. In the port of Riga and on the fairway from Riga to Irben Strait, there is open water.

With mostly slight frost and light winds, some ice formation but else no larger changes are expected.

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

Ice melt will continue the coming day.

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

With mostly moderate frost and light winds, some ice formation is 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.
	Taalintehdas, Förby, Koverhar, Lappohja, 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	Karlsborg and Lulea	2000 dwt	IC	02.12.
	Karlsborg and Lulea	2000 dwt	IB	18.12.
	Haraholmen and Skelleftehamn	2000 dwt	IC	05.12.
	Holmsund	2000 dwt	II	09.12.
	Rundvik, Husum and Örnköldsvik	2000 dwt	II	12.12.
	Holmsund and Örnköldsvik	2000 dwt	IC	18.12.
	Angermanälven	2000 dwt	IC	12.12.
	Angermanälven	2000 dwt	IB	18.12.
	Härnösand, Söråker, Sundsvall, Stocka, Hudiksvall, Iggesund, Söderhamn, Orrskär, Norrsundet, Gävle, Skutskär	2000 dwt	II	18.12.
	Köping	1300 dwt	IC	05.12.
	Västeras	1300/2000 dwt	IC/II	05.12.
	Köping and Västeras	2000 dwt	IC	18.12.
	Trollhätte 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> <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, 14.12.2023

Paernu, port and bay	5243
Moonsund	5243

Finland, 14.12.2023

Röyttä – Etukari	8346
Etukari – Ristinmatala	7346
Ajos – Ristinmatala	5346
Ristinmatala – Kemi 2	5346
Kemi 2 – Kemi 1	5356
Sea area SW of Kemi 1	5356
Kemi 2 – Ulkokrunni – Virpiniemi	7346
Oulu harbours – Kattilankalla	7346
Kattilankalla – Oulu 1	5346
Sea area SW of Oulu 1	5356
High Sea N of the latitude of Marjaniemi	5356
Raahel harbour – Heikinkari	8145
Heikinkari – Raahel lighthouse	5145
Raahel lighthouse – Nahkiainen	5745
Latitude Marjaniemi – Ulkokalla, Sea	5355
Rahja harbour – Välimatala	7145
Välimatala to line Ulkokalla – Ykskivi	5145
Sea betw. lat. of Ulkokalla – Pietarsaari	2105
Ykskivilaja – Repskär	8745
Repskär – Kokkola lighthouse	5045
Sea area off Kokkola lighthouse	5045
Pietarsaari – Kallan	5145
Sea area off Kallan	2025

Sea lat. Pietarsaari – NE Nordvalen	4155
Sea area ENE of Nordvalen	3015
Sea area Nordvalen to W of Norrskär	3015
Vaskiluoto – Ensten	8745
Ensten – Vaasa lighthouse	5145
Vaasa lighthouse – Norrskär	4045
Sea area SW of Norrskär	3015
Kaskinen – Sälgrund	8142
Sea area off Sälgrund	3001
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 – Kymäpihlaja	4041
Kymäpihlaja – Rauma lighthouse	4041
Uusikaupunki harbour – Kirsta	8142
Kirsta – Isokari	4041
Lövsjär – Korra	2001
Koverhar – Hästö Busö	5145
Inkoo a. Kantvik – sea area Porkkala	5145
Helsinki harbours – Harmaja	3115
Valko Harbour – Täktarn	5145
Kotka – Viikari	5145
Hamina – Suurmusta	5145
Suurmusta – Merikari	4045

Latvia, 14.12.2023

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

Mersrags to Irben Strait, fairway 1000

Russian Federation, 14.12.2023

Port of St. Petersburg 62//
 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'šoj Ber'ozovyj – Šepelevskij 50//

Sweden, 14.12.2023

Karlsborg – Malören 8346
 Sea area off Malören 5356
 Luleå – Björnklack 8346
 Björnklack – Farstugrunden 5256
 E and SE of Farstugrunden 5256
 Sandgrönn fairway 8346
 Rödkallen – Norströmsgrund 5366
 Haraholmen – Nygrån 5366
 Sea area off Nygrån 5246
 Skelleftehamn – Gåsören 5256
 Sea area off Gåsören 5256
 Sea area off Bjuröklubb 5256
 NE of Nordvalen 4156
 SW of Nordvalen 4156
 Western Quark (W of Holmöarna) 8146
 Umeå – Väktaren 5146
 SE of Väktaren 5046
 Fairway to Husum 5146
 Örnköldsvik – Hörnskatan 5146
 Hörnskatan – Skagsudde 5046
 Sea area off Skagsudde 5046
 Fairway W of Ulvöarna 5046
 Ångermanälven north Sandö Bridge 5144
 Ångermanälven south Sandö Bridge 5144
 Härnösand – Härnön 4041
 Sea area off Härnön 2020
 Sundsvall – Draghallan 5142
 Draghallan – Åstholmsudde 2020
 Hudiksvallfjärden 5142
 Iggesund – Agö 5142
 Sandarne – Hällgrund 5142
 Ljusnefjärden – Storjungfrun 5142
 Gävle – Eggegrund 5142
 Hallstavik – Svartklubben 4041
 Stockholm – Trälhavet – Klövholmen 4041
 Trollharan – Langgarn 4041
 Köping – Kvikksund 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