



Eisbericht Nr. 23

Amtsblatt des BSH

Jahrgang 97

Nr. 23

Friday, 15.12.2023

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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 30 cm dickes, sehr dichtes Eis. Weiter südlich bis Norra Kvarken liegt an den Küsten Festeis und weiter außerhalb dünnes, ebenes Eis oder 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 30 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 there is very close, 5–30 cm thick, partly ridged and rafted drift ice with minor brash ice barriers to about the line Bjuröklubb – Simpgrund – Falkens Grund – Nahkiainen. 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 20 NM west of Nahkiainen. 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.

Until Saturday further ice growth and ice formation with a northerly ice drift is expected. For the rest of the weekend the wind will turn to westwards and temperatures are increasing to around 0°C. Therefore the ice will drift eastwards and ice formation will cease.

The Quark

There is 5–20 cm thick fast ice in the Vaasa archipelago and from Vaasa to Storhåsten. Farther out there is thin level ice to Norra Glopsten and drift-

ing new ice to Norrskär and Utgrynnan. Along the Swedish coast there is fast ice in inner bays and up to 20 cm thick very close ice or level ice further

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

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out to Holmöarna. Further out is new ice or thin drifting ice. Off Holmsund are minor brash ice barriers. At sea there is very open thin ice and new ice.

Until Saturday some further ice growth and 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 and thin level ice or fast ice in bays along the coast. On Ångermanälven, there is 5–15 cm thick fast and level ice on the upper

Archipelago Sea and Åland Sea

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

With mostly temperatures around or slightly above

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

Swedish Lakes

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

formation is expected. For the rest of the weekend no larger changes are expected with temperatures around 0 °C. The ice will drift first in northerly direction and later eastwards.

part and new ice is present in the lower part.

Until Saturday, some ice formation and ice growth is possible. For the rest of the weekend no larger changes are expected with temperatures mostly around 0 °C.

0 °C no larger changes are expected over the weekend.

in sheltered places at the outer coast.

With mostly temperatures around or above 0 °C no larger changes are expected over the weekend.

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 temperatures around or slightly above 0 °C no larger changes are expected over the weekend. With westerly winds the ice will drift eastwards.

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

With temperatures around or slightly above 0 °C no larger changes are expected over the weekend. With westerly winds the ice will drift eastwards.

With temperatures around 5°C some ice melt is possible over the weekend.

new ice in few sheltered areas.

With temperatures above 0 °C no major changes are expected.

Over the weekend some ice melt is possible with temperatures above 0 °C.

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.
	Haraholmen and Skelleftehamn	2000 dwt	IB	20.12.
	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, 15.12.2023

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	4145
Ykskivilaja – Repskär	8745
Repskär – Kokkola lighthouse	5145
Sea area off Kokkola lighthouse	5145
Pietarsaari – Kallan	5145
Sea area off Kallan	2025

Sea lat. Pietarsaari – NE Nordvalen	4055
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
Fairway Helsinki – Porkkala – Rönnskär	3035
Vuosaari harbour – Eestiluoto	3035
Valko Harbour – Täktarn	5145
Archipelago fairway Boistö – Glosholm	2035
Kotka – Viikari	5145
Viikari – Orrengrund	3035
Hamina – Suurmusta	5145
Suurmusta – Merikari	4045

Latvia, 15.12.2023

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

Vänernsviken	5146
Fairway to Karlstad	5146
Fairway to Kristinehamn	5146
Fairway to Lidköping	5146

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
Rödallen – 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
Örnsköldsvik – 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 – Draghällan	5142
Draghällan – 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 – 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