



Eisbericht Nr. 20

Amtsblatt des BSH

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Nr. 20

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Übersicht

In der nördlichen Bottenwiek befindet sich in den Schären bis 35 cm dickes Festeis 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 ebenes Eis oder Festeis 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 Festeis 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 level ice or fast ice along the coast and further out 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 is also 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 drifting ice with minor brash ice barriers is present to about a line from Raahe to Luleå. Further south, there is up to 15 cm thick fast ice in the archipelagos and thin level ice further out from Hailuoto to Kokkola and out to Nahkiainen and Ulkokalla with new ice at the

ice edge. Off the fast ice in the west, there is close, 3–10 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 to Norrskär and Utgrynnan. Along the Swedish coast there is thin level ice and

up to 10 cm thick very close ice further out to Holmögadd. At sea there is very open new ice and strings of shuga.

With moderate to severe frost at the coasts, ice

Herstellung und Vertrieb

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

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

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-

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

Southeastern Baltic

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

Southwestern Baltic

Drifting ice remnants are still present in the Peenestrom and few other sheltered places.

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.

Swedish Lakes

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

southwest.

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

With moderate and slight frost at the eastern and western coast respectively, ice formation and ice growths continue.

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

in sheltered places at the outer coast.

With slight frost and light winds some ice formation is possible.

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 a moderate breeze from the east, some ice growth is expected.

the north tip of the island Kihnu, there is thin open ice. In the ports of Riga, there is open water.

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

With temperatures slightly above 0°C slow ice melt but else 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. Else no larger changes are expected.

With mostly slight frost, 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.
	Taalintehdas, Förby, Koverhar, Lappohja, Inkoo, Kantvik, Helsinki, Sköldvik, Loviisa, Mussalo, Kotka and Hamina	2000 dwt	II	09.12.
	Lake Saimaa			
	Lake Saimaa	2000 dwt	I	08.12.
	Saimaa Canal	2000 dwt	IB	13.12.
Saimaa Canal	2000 dwt	I	08.12.	
		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 Örnköldsvik	2000 dwt	II	12.12.
	Angermanälven	2000 dwt	IC	12.12.
	Köping	1300 dwt	IC	05.12.
	Västerås	1300/2000 dwt	IC/II	05.12.
	Trollhätte Canal and Göta Älv	1300/2000 dwt	IC/II	05.12.
	Vänern	1300/2000 dwt	IC/II	05.12.

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, 12.12.2023

Paernu, port and bay 5243

Moonsund 5243

Finland, 12.12.2023

Röyttä – Etukari 8346

Etukari – Ristinmatala 7346

Ajos – Ristinmatala 5346

Ristinmatala – Kemi 2 5746

Kemi 2 – Kemi 1 5366

Sea area SW of Kemi 1 5756

Kemi 2 – Ulkokrunni – Virpiniemi 7746

Oulu harbours – Kattilankalla 8346

Kattilankalla – Oulu 1 5756

Sea area SW of Oulu 1 5146

High Sea N of the latitude of Marjaniemi 5156

Raahe harbour – Heikinkari 8045

Heikinkari – Raahe lighthouse 5145

Raahe lighthouse – Nahkiainen 5145

Latitude Marjaniemi – Ulkokalla, Sea 5155

Rahja harbour – Välimatala 7145

Vaelimatala to line Ulkokalla – Ykskivi 5145

Sea betw. lat. of Ulkokalla –Pietarsaari 2005

Ykspihlaja – Repskär 8745

Repskär – Kokkola lighthouse 4145

Sea area off Kokkola lighthouse 4045

Pietarsaari – Kallan 4045

Sea area off Kallan 2015

Sea lat. Pietarsaari – NE Nordvalen 5165

Sea area ENE of Nordvalen 3015

Sea area Nordvalen to W of Norrskär 4045

Vaskiluoto – Ensten 8745

Ensten – Vaasa lighthouse 4045

Vaasa lighthouse – Norrskär 4045

Sea area SW of Norrskär 4045

Kaskinen – Sälgrund 8142

Sea area off Sälgrund 4041

Pori harb. to line Pori lighth. – Säppi 2001

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 2005

Valko Harbour – Täktarn 5145

Kotka – Viikari 5145

Hamina – Suurmusta 5145

Latvia, 12.12.2023

Port of Riga 1000

Port of Ventspils 1000

Port of Liepaya 1000

Russian Federation, 12.12.2023

Port of St. Petersburg 62//

St. Petersburg – E-point island Kotlin 63//

E-point Kotlin – long. lighth. Tolbukhin	51//
Lighth. Tolbukhin – lighth. –Šepelevskij	30//
Vyborg, port and bay	82//
Strait Bjerkesund	51//
E-point Bol'šoj 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
Rödkaullen – Norströmsgrund	5266
Haraholmen – Nygrån	5336
Sea area off Nygrån	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 – Hörnskatan	5146
Hörnskatan – 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
Iggesund – Agö	5142
Sandarne – Hällgrund	5142
Ljusnefjärden – Storjungfrun	5142
Gävle – Eggegrund	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