



Eisbericht Nr. 41

Amtsblatt des BSH

Jahrgang 97

Nr. 41

Monday, 15.01.2024

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Übersicht

In der Bottenwiek befindet sich in den nördlichen Schären bis 55 cm dickes, in den südlichen bis 40 cm dickes Festeis. An der Festeiskante kommen im Norden, Nordosten und Nordwesten neueisbedeckte Rinnen vor. Auf See treibt 10–35 cm dickes, sehr dichtes Eis mit 20–40 cm dickem Eis im zentralen westlichen Bereich. Das gesamte Eisfeld ist örtlich aufgepresst und übereinandergeschoben. An den Küsten von Norra Kvarken liegt bis 35 cm dickes Festeis. Auf See treibt im Nordosten sehr dichtes bis 35 cm dickes Eis und im Westen lockeres 3–15 cm dickes Eis. An den Küsten der Bottensee kommt im Osten bis 30 cm und im Westen bis 20 cm dickes Festeis vor. Davor treibt im Osten ein schmaler Streifen sehr dichtes Eis und im Südwesten Neueis. Das Schärenmeer ist mit dünnem, ebenen Eis bedeckt. Im Osten und Norden des Finnischen Meerbusens liegt bis 35 cm dickes Festeis und im Osten weiter außerhalb dichtes, bis 15 cm dickes Eis. Entlang der Eiskante und Küsten bildet sich Neueis. Im Rigaischen Meerbusen kommt bis zu 30 cm dickes Festeis vor und vor den Küsten treibt Neueis. Neueis und örtlich dickeres Eis kommt im Vänern und in geschützten Teilen der zentralen und südöstlichen Ostsee wie auch im Skagerrak vor. Neueis kommt örtlich in der Nordsee, dem Kattegat, in den Belten und Sund vor.

Overview

In the Bay of Bothnia there is fast ice in the archipelagos, up to 55 cm thick in the north and up to 40 cm thick in the south. Off the fast ice in the north, northeast and northwest are leads covered with new ice. At sea there is 10–35 cm thick very close ice with some 20–40 cm thick ice in the central western part. The ice field is ridged and rafted at places. In the Quark there is up to 35 cm thick fast ice at the coasts. At sea there is very close ice, up to 30 cm thick ice in the northeast and up to 15 cm thick open ice in the west. At the coasts of the Sea of Bothnia there fast ice, up to 30 cm thick in the east and up to 20 cm thick in the west. Further out there is a small region with very close ice in the east and new ice is present further out in the southwest. Thin level ice covers the Archipelago Sea. There is up to 35 cm thick fast ice at the eastern and northern coast of the Gulf of Finland. Further out in the east there is close, up to 15 cm thick ice. Along the ice edge and the coasts, there is new ice formation. In the Gulf of Riga there is up to 30 cm thick fast ice in the northeast and outside the coasts there is new ice. New ice and at places thicker ice is present in the Vänern and at sheltered places of the central and southeastern Baltic proper as well as in the Skagerrak. New ice occurs also in sheltered places in the North Sea, Kattegat, Belts and Sound.

Bay of Bothnia

In the archipelagos of the Bay of Bothnia there is fast ice; 20–40 cm thick in the northwest, 30–55 cm thick in the northeast and up to 25–40 cm thick

in the southern part. Off the fast ice in the north and east, there is a new ice covered lead. This lead is connected by a narrow lead past Farstu-

Herstellung und Vertrieb

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grunden with a wide lead along the northwestern fast ice from Norströmsgrund south of Nygrån. At sea there is mostly 10–35 cm thick, rafted and ridged, very close ice with 25–40 cm thick ice in the central western part southwest of about

The Quark

There is 10–35 cm thick fast ice in the Vaasa archipelago and out to about Ensten. Further out to west of Norrskär there is thin open ice and ice formation. Along the Swedish coast there is up to 30 cm thick fast ice in inner bays with in places very close ice slightly further out. At sea in the west

Sea of Bothnia

Thin level ice or 5–30 cm thick fast ice is present in bays along both coasts. At the ice edge on the Finnish coast there is thin very close ice. Outside the Swedish coast in the south, there is some ridged, very close ice and new ice further out. On

Archipelago Sea and Åland Sea

In the Archipelago Sea there is 10–20 cm thick fast ice in the inner archipelago and 5–15 cm thick, level ice reaching to the Åland Islands. In the Åland Sea there is 5–15 cm thick fast or level ice in bays

Northern Baltic

In Lake Mälaren there is 5–20 cm thick fast ice in the west and 5–15 cm level ice otherwise. New ice or thin level ice is present in sheltered places at the

Gulf of Finland

From St. Petersburg to Kotlin there is 20–35 cm thick fast ice, further out along the southern shore there is 3–15 cm thick, very close ice. In the Bjerkesund there is 10–15 cm thick fast and in the Vyborg Bay there is 10–35 cm thick fast ice. At sea, there is close, 5–15 cm thick drift ice to about Moščnyj and new ice further west to about 27°30'E. Along the northern coast there fast ice in the archipelago, 5–20 cm thick in the west and up

Gulf of Riga

In Väinameri there is 20–30 cm thick fast ice near the coasts. Farther out and on the fairway there is very close, 5–10 cm thick ice. In the Bay of Pärnu, there is 15–30 cm thick fast ice to the line Liu – Voiste followed by very close ice to a line from island Kihnu to Häädemeste. Further out new ice to about a line southern point of Kihnu to Salatsi. Off the northern and western coast of the Gulf of

Central Baltic

New ice is present along the Swedish coast, the Kalmarsund and along the coast of Öland. At the Latvian coast open water is present in the port of Ventspils.

Simpgrund.

With mostly severe frost further ice formation and ice growth is expected. The ice will drift southwards.

to about Sydostbrodden and Strömmingsbådan there is 3–15 cm thick open drift ice. North of Nordvalen and Valassaaret, there is very close, 10–35 cm thick ice.

With mostly severe frost, ice formation and ice growth will continue. The ice will drift southwards.

Ångermanälven, there is 10–25 cm thick fast ice on the upper part and new ice or thin level ice is present in the lower part.

With moderate to severe frost ice formation and ice growth will continue. The ice will drift southwards.

and new ice is drifting close to the coast.

With moderate to severe frost ice formation and ice growth continue. The ice will drift southward.

outer coast.

With moderate frost ice formation and ice growth is expected the coming day.

to 35 cm thick in the east. Further out, there is ice formation to about a line Helsinki lighthouse – Kotka lighthouse. At the southern shore there is new ice along the coast from Narva Bay to Kunda Bay. In Lake Saimaa there is 15–40 cm thick fast ice.

With moderate to severe frost ice formation and ice growth continue. The ice will drift in southerly directions.

Riga there new ice. In Irben Strait, there is some new ice.

With moderate frost expected in the north and dropping temperatures in the south as well as an increasing northerly wind, ice formation and ice growth will continue in sheltered places. The ice will drift increasingly to the south.

Along the Swedish coast there will be some ice formation and ice growth with slight to moderate frost. Else no larger changes are expected.

Southeastern Baltic

New ice and thin very close ice cover the Vistula Lagoon and the Curonian Lagoon.

With temperatures dropping to slight frost no larger changes are expected.

Southern Baltic

New ice is present in the eastern archipelagos along the Swedish coast.

With mostly slight frost some ice formation and ice growth is expected.

Western Baltic

The area is ice-free.

Skagerrak, Kattegat, Belts and Sound

In the Svinesund there is 15–30 cm thick open ice, in the Mossesundet there is a lead in very close, mostly thicker than 30 cm ice, in Vestfjorden at Tønsberg and the inner harbour there is 10–15 cm thick fast ice. Near Kragerø there is new ice and 10–15 cm thick fast ice. New ice can also be found in other Norwegian Fjords. Along the Swedish and

Danish coast, there is new ice in few sheltered areas.

With slight to moderate frost in the north ice growth and formation will continue. With mostly light frost in the south no larger changes are expected but some ice formation may occur in sheltered places.

Swedish Lakes

Thin 5–10 cm thick level ice is present in the southern part and in sheltered areas elsewhere in Lake Vänern. New ice is forming at sea in the west and south. Open water is present elsewhere.

With slight to moderate frost new ice formation and ice growth will continue. The ice will drift southwards.

North Sea

In the Limfjord ice is present at places and partly thicker than 5 cm.

With some light frost along the northern coast

some ice formation may occur in sheltered places but else no larger changes.

Dr. W. Aldenhoff

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Estonia	Pärnu	1600 kW	1C (Lloyd's)	22.12.
Finland	Tornio, Kemi and Oulu	2000/4000 dwt	IA Super/IA	13.01.
	Vaasa	2000 dwt	IA	10.01.
	Raahe, Kalajoki, Kokkola and Pietarsaari	4000 dwt	IA	13.01.
	Pori and Rauma	2000 dwt	I	13.01.
	Kaskinen, Kristiinankaupunki and Uusikaupunki	2000 dwt	I	10.01.
	Naantali, Turku, Eckerö, Maarianhamina and Langnäs	2000 dwt	II	13.01.
	Helsinki, Sköldvik and Mussalo	2000 dwt	II	09.12.
	Taalintehdas, Förby, Koverhar, Lap-pohja, Inkoo and Kantvik	2000 dwt	I	13.01.
	Hanko	2000 dwt	II	13.01.
	Loviisa, Kotka and Hamina	2000 dwt	I	07.01.
	Lake Saimaa	2000 dwt	IA	08.01.
	Saimaa Canal	2000 dwt	IA	08.01.
Russia	Vyborg	-	Ice 1	30.12.
	Vysotsk	-	Ice 1	30.12.
	Ust-Luga	-	Ice 1	29.12.
Sweden	Karlsborg	4000 dwt	IA (2000 t)	14.01.
	Lulea	4000 dwt	IA	14.01.

Haraholmen and Skelleftehamn	4000 dwt	IA	14.01.
Rundvik and Husum	2000 dwt	IC	04.01.
Örnsköldsvik	2000 dwt	IC	18.12.
Rundvik, Husum and Örnsköldsvik	2000 dwt	IB	17.01.
Holmsund	2000 dwt	IB	04.01.
Angermanälven	2000 dwt	IB	18.12.
Härnösand, Söråker, Sundsvall, Stocka, Hudiksvall, Iggesund, Söderhamn, Orrskär and Norrsundet	2000 dwt	IC	04.01.
Härnösand, Söråker, Sundsvall, Stocka, Hudiksvall, Iggesund, Söderhamn, Orrskär and Norrsundet	2000 dwt	IB	17.01.
Gävle	2000/4000 dwt	IC/II	04.01.
Gävle	2000 dwt	IB	17.01.
Skutskär, Öregrund and Hargshamn	2000 dwt	IC	04.01.
Skutskär and Öregrund	2000 dwt	IB	17.01.
Hallstavik and Grisslehamn	2000 dwt	IC	04.01.
Kappelskär, Stockholm, Nynäshamn and Södertälje	2000 dwt	II	04.01.
Köping and Västerås	2000 dwt	IB	04.01.
Balsta	2000 dwt	IB	14.01.
Oxelösund, Norrköping, Västervik, Oskarshamn, Mönsterås, Kalmar, Degeberhamn, Berkvara, Karlskrona, Stenungsund and Uddevalla	2000 dwt	II	04.01.
Trollhätte Canal and Göta Älv	2000 dwt	IC	04.01.
Trollhätte Canal and Göta Älv	2000 dwt	IB	16.01.
Vänern	2000 dwt	IC	04.01.
Vänern	2000 dwt	IB	16.01.

Estonia

Icebreaker: EVA-316 assists to the port of Pärnu.

Finland/Sweden

The traffic separation schemes in the Lake Vänern are temporarily out of use from 12 January due to ice conditions.

The transit traffic west of Holmöarna is temporarily prohibited. Kalmarsund and Öregrundsgrepen: Transit traffic for low powered vessels is not recommended.

The traffic separation schemes in the Quark are temporarily out of use from 20 December due to ice conditions.

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: YMER, ODEN, FREJ, KONTIO, OTSO, URHO and POLARIS assist in the Bay of Bothnia. ATLE and SISU assist in the Quark. ZEUS and **BALTICA** assist in the Sea of Bothnia. VOIMA and CALYPSO assist the Gulf of Finland. ALE, EMBLA, SCANDICA and **TOFTE** assist in Vänern.

Norway

Mossesundet (Moss): Icebreaker assistance can only be given to vessels of special ice class and of special size. (05.01.24)

Drammensfjorden (Drammen), Skåtøysund (Kragerø), Kilsfjorden (Kragerø) and Hellefjorden (Kragerø): Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size. (08.01.24)

(08.01.24)

Langårsund (Kragerø): Navigation temporarily closed. (08.01.24)

Farsund: Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special

size. (11.01.24)

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: 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, 15.01.2024

Shipping route from Narva-Jõssuu	4001
Kunda, port and bay	4001
Paernu, port and bay	8345
Shipp. route from Paernu to Irben Strait	4113
Irben Strait	3021
Moonsund	7353

High Sea N of the latitude of Marjaniemi	5356
Raahe harbour – Heikinkari	6346
Heikinkari – Raahe lighthouse	6346
Raahe lighthouse – Nahkiainen	9146
Latitude Marjaniemi – Ulkokalla, Sea	5876
Rahja harbour – Välimatala	7356
Vaelimatala to line Ulkokalla – Ykskivi	5356
Sea betw. lat. of Ulkokalla –Pietarsaari	5876
Ykspihlaja – Repskär	8346
Repskär – Kokkola lighthouse	7356
Sea area off Kokkola lighthouse	5356
Pietarsaari – Kallan	8346
Sea area off Kallan	5356
Sea lat. Pietarsaari – NE Nordvalen	5356
Sea area ENE of Nordvalen	5356
Sea area Nordvalen to W of Norrskär	3726
Vaskiluoto – Ensten	8346
Ensten – Vaasa lighthouse	7346
Vaasa lighthouse – Norrskär	3136

Finland, 15.01.2024

Röyttä – Etukari	8446
Etukari – Ristinmatala	6856
Ajos – Ristinmatala	6856
Ristinmatala – Kemi 2	5356
Kemi 2 – Kemi 1	5356
Sea area SW of Kemi 1	5356
Kemi 2 – Ulkokrunni – Virpiniemi	7356
Oulu harbours – Kattilankalla	8446
Kattilankalla – Oulu 1	7346
Sea area SW of Oulu 1	5356

Sea area SW of Norrskär	3136	Merikari – Kaunissaari	4146
Kaskinen – Sälgrund	8346		
Sea area off Sälgrund	3726	Latvia, 15.01.2024	
High sea from N to latitude Yttergrund	0//6	Port of Riga	3111
Pori harb. to line Pori lighth. – Säppi	5146	Riga to the Cape of Mersrags, fairway	1000
Sea W of line Pori lighthouse – Säppi	0//6	Mersrags to Irben Strait, fairway	1000
Rauma, Harbour – Kylmäpihlaja	8746	Irben Strait, fairway	2111
Kylmäpihlaja – Rauma lighthouse	8746	Port of Ventspils	1000
Sea area W of Rauma lighthouse	0//6	Irben Strait to the port of Ventspils	1000
The high sea S of the latitude of Rauma	4046		
Uusikaupunki harbour – Kirsta	8746	Norway, 15.01.2024	
Kirsta – Isokari	8746	Svinesund – Halden	33//
Isokari – Sandbäck	5146	Mossesund	9956
Sea area off Sandbäck	5146	Drammensfjord	6315
Sea area N of Sälskär	5145	Tønsberg, inner harbour	82/5
Sea area N of Märket	4045	Vestfjord (Tønsberg)	82/3
Sea area W of Märket	5145	Jomfrulandsrenna	3021
Sea area S of Märket	4045	Skåtøysund (Kragerø)	8145
Maarianhamina – Marhällan	5145	Langårsund (Kragerø)	8148
The middle Åland Sea	4045	Kragerøfjord	3021
Naantali and Turku – Rajakari	8745		
Rajakari – Lövskär	8745	Russian Federation, 15.01.2024	
Lövskär – Korra	8745	Port of St. Petersburg	88//
Korra – Isokari	5145	St. Petersburg – E-point island Kotlin	88//
Lövskär – Berghamn	5145	E-point Kotlin – long. lighth. Tolbuhkin	64//
Berghamn – Stora Sottunga	5145	Lighth. Tolbuhkin – lighth. –Šepelevskij	53//
Stora Sottunga – Ledskär	5145	Lighthouse Šepelevskij – island Sescar	42//
Sea area at Rödhavn	5145	Island Sescar – Island Sommers	30//
Lövskär – Grisselborg	5145	Vyborg, port and bay	83//
Grisselborg – Norparskär	5145	Island Vichrevoj – Island Sommers	42//
Sea area at Vidskär	0//5	Strait Bjerkesund	82//
Hanko harbours – Hanko 1	0//5	E-point Bol'šoj Ber'ozovyj – Šepelevskij	42//
Sea area S of Hanko 1	0//5	Luga bay	41//
Hanko – Vitgrund	5142	Appr. Luga bay – line Moš.-Šepel.	41//
Vitgrund – Utö	5145		
Koverhar – Hästö Busö	5146	Sweden, 15.01.2024	
Hästö Busö – Ajax	2116	Karlsborg – Malören	8546
Sea area S of Ajax	0//6	Sea area off Malören	8446
Inkoo a. Kantvik – sea area Porkkala	8746	Luleå – Björnklack	8446
Sea area at Porkkala	4046	Björnklack – Farstugrunden	5456
Sea area S of Porkkala lighthouse	0//6	E and SE of Farstugrunden	5456
Helsinki harbours – Harmaja	8745	Sandgrönn fairway	8446
Harmaja – Helsinki lighthouse	4045	Rödkaullen – Norströmsgrund	5456
Helsinki lighth. – sea S of Porkkala lh.	4045	Haraholmen – Nygrån	8446
Fairway Helsinki – Porkkala – Rönnskär	4045	Sea area off Nygrån	4046
Vuosaari harbour – Eestiluoto	5145	Skelleftehamn – Gåsören	8346
Eestiluoto – Helsinki lighthouse	4045	Sea area off Gåsören	5456
Porvoo harbours – Varlax	8745	Sea area off Bjuröklubb	8346
Varlax – Porvoo lighthouse	4045	NE of Nordvalen	5456
Porvoo lighthouse – Kalbådagrund	4045	SW of Nordvalen	5456
Sea Kalbådagrund – Helsinki lighthouse	4045	Western Quark (W of Holmöarna)	3226
Valko Harbour – Täktarn	8346	Umeå – Väktaren	3226
Archipelago fairway Boistö – Glosholm	4146	SE of Väktaren	3226
Archipelago fairway Glosholm–Helsinki	8745	Fairway to Husum	3226
Kotka – Viikari	8745	Örnsköldsvik – Hörnskatan	8346
Viikari – Orregrund	8745	Hörnskatan – Skagsudde	8346
Orregrund – Tiiskeri	4046	Fairway W of Ulvöarna	5146
Tiiskeri – Kalbådagrund	4045	Ångermanälven north Sandö Bridge	8344
Hamina – Suurmusta	8746	Ångermanälven south Sandö Bridge	8344
Suurmusta – Merikari	8746	Härnösand – Härnön	8344

Sundsvall – Draghällan	8346
Hudiksvallfjärden	8246
Iggesund – Agö	8246
Sandarne – Hällgrund	8146
Ljusnefjärden – Storjungfrun	8146
Gävle – Eggegrund	5236
Sea area off Eggegrund	4046
Sea area off Orskär	4046
Öregrundsgrepen	5146
Sea area off Svartklubben	4046
Hallstavik – Svartklubben	8246
Trälhavet – Furusund – Kapellskär	5146
Stockholm – Trälhavet – Klövholmen	5146
Klövholmen – Sandhamn	4046
Trollharan – Langgarn	4046
Mysingen	4046
Nynäshamn – Landsort	4046
Köping – Kvicksund	8344
Västerås – Grönsö	8344
Grönsö – Södertälje	5244
Stockholm – Södertälje	5244
Södertälje – Fifong	4044
Fifong – Landsort	4046
Norrköping – Hargökalv	5146
Järnverket-Lillhammaren – N Kränkan	4046
Västervik – Marsholmen – Idö	4046
Blå Jungfrun – Kalmar	1006
Kalmar – Utgrunden	1006
Karlskrona – Aspö	4046
Uddevalla – Stenungsund	5046
Vänersborgsviken	5146
Fairway through Lurö archipelago	5146
Fairway to Gruvön	5146
Fairway to Karlstad	5146
Fairway to Kristinehamn	5146
Fairway to Otterbäcken	5146
Fairway to Lidköping	5146