

Eisbericht Nr. 42

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Nr. 42

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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 mit dünnem Eis bedeckte 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 sowie der westlichen Ostsee 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 thin 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 as well as the Western Baltic.

Herstellung und Vertrieb

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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 lead covered with new ice and some thicker flows. This lead is connected by a narrow lead past Farstugrunden with a wide lead along the northwestern fast ice from Norströms-

The Quark

There is 10–35 cm thick fast ice in the Vaasa archipelago and out to about Ensten. Further out to Vaasa lighthouse there is new ice. Along the Swedish coast there is up to 30 cm thick fast. At sea north of Nordvalen and Valassaaret, there is very close, 10–35 cm thick ice. Else at sea between the

Sea of Bothnia

Thin level ice or 5–35 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 as well as new ice and ice formation. Outside the Swedish coast in the south, there is some ridged, very close ice and new ice further out. On Ångermanälven,

Archipelago Sea and Åland Sea

In the Archipelago Sea there is 10–20 cm thick fast ice in the inner archipelago of the Finnish coast 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 and new ice is drifting close

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 are present in sheltered places at

Gulf of Finland

From St. Petersburg to Kotlin there is 20–35 cm thick fast ice, further out is very close, 10–20 cm thick ice to Šepelevskij. In the Bjerkesund there is 10–20 cm thick fast and in the Vyborg Bay there is 15–35 cm thick fast ice. At sea in the east, there is close, 5–15 cm thick drift ice to about Moščnyj and new ice further west to about 27°20'E. Along the northern coast there fast ice in the archipelago, 5–20 cm thick in the west and up to 40 cm thick in the

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, 5–20 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 Häädemeeste. Further out is new ice to about a line southern point of Kihnu to

Central Baltic

New ice is present along the Swedish coast, the

grund to 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 Simpgrund.

With mostly severe frost further ice formation and ice growth is expected. The ice will first drift southwards and later to the west.

coasts is open 2–20 cm thick ice in the east and new in the west and along the coasts.

With mostly severe frost, ice formation and ice growth will continue. The ice will first drift southwards and later to the west.

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 mostly moderate to severe frost ice formation and ice growth will continue. The ice will drift mostly to the east/northeast.

to the coast.

With moderate to severe frost ice formation and ice growth continue. The ice will drift to the east/northeast.

the outer coast.

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

east. Further out, there is ice formation to about a line Helsinki lighthouse – Kalbådagrund – Gogland. At the southern shore there is new ice along the coast from Narva Bay to Kunda Bay and Tallinn 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 first drift in southerly directions and later to the north.

Salatsi. Off the northern and western coast of the Gulf of Riga there is new ice. In Irben Strait some new ice is present.

With slight to moderate frost some ice formation and ice growth is expected. The ice will first drift southwards and later to east and north.

Kalmarsund, along the coast of Öland and a few

places around Gotland.
With temperatures increasing from moderate frost to temperatures around 0°C the coming day some

Southeastern Baltic

Thin very close or level ice cover the Vistula Lagoon and the Curonian Lagoon.

Southern Baltic

New ice is present in the eastern archipelagos along the Swedish coast.
With temperatures increasing from moderate frost

Western Baltic

Some new ice is present at sheltered places along the coast.

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

Swedish Lakes

Thin 5–10 cm thick level ice is present in the southern part and in sheltered areas elsewhere in Lake Vänern. At the southwestern ice edge there is a brash ice barrier. Else at sea is open water or

North Sea

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

Dr. W. Aldenhoff

further ice formation is expected along the Swedish coast. Else no larger changes are expected.

With slight frost some ice formation is expected.

to temperatures around 0°C the coming day some further ice formation is expected.

With mostly slight frost some ice formation is possible.

Danish coast, there is new ice sheltered areas. With mostly slight frost to temperatures around 0 °C along the Danish and Swedish coast some ice formation is possible. In the northern Skagerrak, moderate frost is expected and ice formation will therefore continue.

shuga.
With mostly slight frost but a fresh to strong southerly breeze some ice growth and a northerly ice drift are expected.

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

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, Lapohja, 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, Orrs- kär and Norrsundet	2000 dwt	IC	04.01.
	Härnösand, Söråker, Sundsvall, Stocka, Hudiksvall, Iggesund, Söder- hamn, 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, De- gerhamn, Berkvara, Karlskrona, Stenungsund and Uddevalla	2000 dwt	II	04.01.
	Trollhätte Canal and Göta Älv	2000 dwt	IB	16.01.
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, BALTICA and **BRAGE VIKING** assist in the Sea of Bothnia. VOIMA, CALYPSO and **FENNICA** 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)

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. Barge towed by tug not allowed to navigate in ice.

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, 16.01.2024

Shipping route from Narva-Jõssuu	5002
Kunda, port and bay	4001
Paernu, port and bay	8345
Shipp. route from Paernu to Irben Strait	4113
Irben Strait	3021
Moonsund	7353

Finland, 16.01.2024

Roeyttae - Etukari	8446
Etukari - Ristinmatala	6346
Ajos - Ristinmatala	6346
Oulu harbours – Kattilankalla	8446
Kattilankalla – Oulu 1	7346

Sea area SW of Oulu 1	5356
High Sea N of the latitude of Marjaniemi	5356
Raahel harbour – Heikinkari	8346
Heikinkari – Raahel lighthouse	6346
Raahel lighthouse – Nahkiainen	9146
Latitude Marjaniemi – Ulkokalla, Sea	5876
Rahja harbour – Välimatala	7356
Välimatala to line Ulkokalla – Ykskivi	5356
Sea betw. lat. of Ulkokalla –Pietarsaari	6356
Ykskivilaja – Repskaer	8346
Repskaer – Kokkola lighthouse	7356
Sea area off Kokkola lighthouse	5356
Pietarsaari – Kallan	8346
Sea area off Kallan	5356

Sea lat. Pietarsaari – NE Nordvalen	5356	Hamina – Suurmusta	8746
Sea area ENE of Nordvalen	5356	Suurmusta – Merikari	8746
Sea area Nordvalen to W of Norrskaer	3736	Merikari – Kaunissaari	4046
Vaskiluoto – Ensten	8346		
Ensten – Vaasa lighthouse	7346	Latvia, 16.01.2024	
Vaasa lighthouse – Norrskaer	3736	Port of Riga	2000
Sea area SW of Norrskaer	3736	Riga to the Cape of Mersrags, fairway	1000
Kaskinen – Sälgrund	8346	Mersrags to Irben Strait, fairway	1000
Sea area off Sälgrund	8346	Irben Strait, fairway	1000
High sea from N to latitude Yttergrund	4046	Irben Strait to the port of Ventspils	1000
Pori harb. to line Pori lighth. – Säppi	5146		
Sea W of line Pori lighthouse – Säppi	4046	Norway, 16.01.2024	
Rauma, Harbour – Kymäpihlaja	8346	Svinesund – Halden	33//
Kymäpihlaja – Rauma lighthouse	8346	Mossesund	9956
Sea area W of Rauma lighthouse	4046	Drammensfjord	6315
The high sea S of the latitude of Rauma	0//6	Tønsberg, inner harbour	82/3
Uusikaupunki harbour – Kirsta	8346	Vestfjord (Tønsberg)	82/3
Kirsta – Isokari	8346	Larviksfjorden (Larvik)	121//
Isokari – Sandbaeck	5146	Skåtøysund (Kragerø)	8245
Sea area off Sandbaeck	5146	Langårsund (Kragerø)	8248
Sea area N of Sälskär	5145	Kragerøfjord	3021
Sea area N of Maerket	4045		
Sea area W of Maerket	5145	Russian Federation, 16.01.2024	
Sea area S of Maerket	4045	Port of St. Petersburg	88//
Maarianhamina – Marhällan	5145	St. Petersburg – E-point island Kotlin	88//
The middle Åland Sea	4045	E-point Kotlin – long. lighth. Tolbuhkin	68//
Naantali and Turku – Rajakari	8745	Lighth. Tolbuhkin – Lighth. Šepelevskij	53//
Rajakari – Lövskär	8745	Lighthouse Šepelevskij – island Sescar	42//
Lövskär – Korra	8745	Island Sescar – Island Sommers	30//
Korra – Isokari	5145	Vyborg, port and bay	83//
Lövskär – Berghamn	5145	Island Vichrevoj – Island Sommers	41//
Berghamn – Stora Sottunga	5145	Strait Bjerkesund	83//
Stora Sottunga – Ledskär	5145	E-point Bol'šoj Ber'ozovyj – Šepelevskij	32//
Sea area at Roedhamn	5145	Luga bay	41//
Lövskär – Grisselborg	5145	Appr. Luga bay – line Moščny— Šepel.	41//
Grisselborg – Norparskär	5145		
Hanko – Vitgrund	5142	Sweden, 16.01.2024	
Vitgrund – Utö	5145	Karlsborg – Maloeren	8546
Koverhar – Hästö Busö	5146	Sea area off Maloeren	8446
Hästö Busö – Ajax	5146	Luleå – Bjoernklack	8446
Inkoo a. Kantvik – sea area Porkkala	8746	Bjoernklack – Farstugrunden	5456
Sea area at Porkkala	4046	E and SE of Farstugrunden	5456
Sea area S of Porkkala lighthouse	4046	Sandgroenn fairway	6346
Helsinki harbours – Harmaja	8745	Roedkallen – Norstroemsgrund	6356
Harmaja – Helsinki lighthouse	4045	Haraholmen – Nygrån	6346
Helsinki lighth. – sea S of Porkkala lh.	4045	Sea area off Nygrån	5146
Fairway Helsinki – Porkkala – Rönnskär	4045	Skelleftehamn – Gåsoeren	8346
Vuosaari harbour – Eestiluoto	5145	Sea area off Gåsoeren	5456
Eestiluoto – Helsinki lighthouse	4045	Sea area off Bjuroeklubb	8346
Porvoo harbours – Varlax	8745	NE of Nordvalen	5456
Varlax – Porvoo lighthouse	4045	SW of Nordvalen	4046
Porvoo lighthouse – Kalbådgrund	4045	Western Quark (W of Holmoearna)	4046
Sea Kalbådgrund – Helsinki lighthouse	4045	Umeå – Vaektaren	4046
Valko Harbour – Täktarn	8346	SE of Vaektaren	4046
Archipelago fairway Boistö – Glosholm	4046	NE and SE of Sydostbrotten	4046
Archipelago fairway Glosholm–Helsinki	8745	Fairway to Husum	4046
Kotka – Viikari	8745	Oernskoeldsvik – Hoernskaten	8346
Viikari – Orregrund	8745	Hoernskaten – Skagsudde	8346
Orregrund – Tiiskeri	4046	Sea area off Skagsudde	4046
Tiiskeri – Kalbådgrund	4045	Fairway W of Ulvoearna	5146

Sea area E of Ulvoearna	4046
Ångermanaelven north Sandoe Bridge	8344
Ångermanaelven south Sandoe Bridge	8344
Haernoesand – Haernoen	8344
Sea area off Haernoen	4041
Sundsvall – Draghaellan	8346
Draghaellan – Åstholmsudde	4046
Hudiksvallfjaerden	8246
Iggesund – Agoe	8246
Sandarne – Haellgrund	8146
Sea area off Haellgrund	4046
Ljusnefjaerden – Storjungfrun	8146
Sea area off Storjungfrun	4046
Gaevle – Eggegrund	5236
Sea area off Eggegrund	4046
Sea area off Orskaer	4046
Oeregrundsgrepen	5146
Sea area off Svartklubben	4046
Hallstavik – Svartklubben	8246
Traelhavet – Furusund – Kapellskaer	5146
Stockholm – Traelhavet – Kloevholmen	5146
Kloevholmen – Sandhamn	4046
Trollharan – Langgarn	4046
Mysingen	4046
Nynaeshamn – Landsort	4046
Keoping – 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	4046
Kalmar – Utgrunden	4046
Karlskrona – Aspö	4046
Uddevalla – Stenungsund	5046
Vänernborgsviken	5246
Fairway through Lurö archipelago	5246
Fairway to Gruvön	5246
Fairway to Karlstad	5246
Fairway to Kristinehamn	5246
Fairway to Otterbäcken	5246
Fairway to Lidköping	5246