

Eisbericht Nr. 61

Amtsblatt des BSH

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Nr. 61

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Übersicht

In der Bottenwiek befindet sich in den nördlichen Schären bis 60 cm dickes, in den südlichen bis 50 cm dickes Festeis. Auf See treibt im Nordosten zumeist 20–50 cm dickes, sehr dichtes Eis, örtlich aufgepresst, übereinandergeschoben und teilweise schwer zu passieren. Im Süden treibt auf See 5–30 cm dickes, sehr dichtes Eis. An den Küsten von Norra Kvarken liegt bis 50 cm dickes Festeis und auf See treibt meist 5–30 cm dickes, dichtes Eis. An den Küsten der Bottensee kommt im Osten bis 55 cm und im Westen bis 30 cm dickes Festeis vor; auf See treibt im Norden Neueis und dünnes, dichtes Eis und im Süden kommt meist offenes Wasser vor. Das Schärenmeer ist größtenteils mit ebenem Eis oder Festeis bedeckt und in der Ålandsee kommt auf See Neueis vor. Im Osten und Norden des Finnischen Meerbusens liegt bis 50 cm dickes Festeis und im östlich 27°E treibt auf See sehr dichtes, bis 35 cm dickes Eis und westlich davon Neueis bis etwa 24°30'E. Im Rigaischen Meerbusen kommt an der nordöstlichen Küste zu 35 cm dickes Festeis vor und auf See treibt im Norden sehr lockeres bis dichtes Eis. Ansonsten kommt im Mälaren, Vänern, norwegischen Fjorden und entlang der schwedischen Küste nördlich von Kalmar bis 30 cm dickes Festeis oder ebenes Eis vor.

Overview

In the Bay of Bothnia there is fast ice in the archipelagos, up to 60 cm thick in the north and up to 50 cm thick in the south. At sea in the northeast, there is mostly 20–50 cm thick, very close, partly ridged and rafted ice that is difficult to force at places. At sea in the south there is 5–30 cm thick very close ice. In the Quark there is up to 50 cm thick fast ice at the coasts and at sea there is mostly 5–30 cm thick close ice. At the coasts of the Sea of Bothnia there is fast ice, up to 55 cm thick in the east and up to 30 cm thick in the west. At sea there is new ice and thin close ice in the north and mostly open water in the south. Level ice or fast ice covers large parts of the Archipelago Sea and new ice is present at sea of the Sea of Åland. There is up to 50 cm thick fast ice at the eastern and northern coast of the Gulf of Finland. At sea there is up to 35 cm thick very close ice east of 27° and further west there is new ice to about 24°30'E. In the Gulf of Riga there is up to 35 cm thick fast ice at the coast in the northeast and at sea there is very open to close ice in the north. Else up to 30 cm thick fast ice or level ice is present in the Mälaren, Vänern, Norwegian fjords and the along the Swedish coast north of Kalmar.

Bay of Bothnia

In the archipelagos of the Bay of Bothnia there is fast ice with some consolidated ice further out; 35–60 cm thick in the north and up to 25–50 cm thick

in the southern part. In the northeast the fast ice stretches out to Malören, Kemi-3, Oulu-3 and Raahelighthouse. In the north and east runs a lead

Herstellung und Vertrieb

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covered with 5-20cm thick level ice past Malören – Kemi-1 – Merikallat to off Raahe and further to the Quark. At sea in the northeast, up to a line from south of Nahkiainen to Norströmsgrund, there is 20–50 cm thick, very close, ridged and rafted ice. The ice field is difficult to force at places. Further towards the southwest there is an area with 20–40 thick, very close drift ice. Else at sea there is most-

The Quark

There is 35–55 cm thick fast ice in the Vaasa archipelago out to Ensten followed by 10–30 cm thick very close ice to Norrskär. Along the Swedish coast there is up to 40 cm thick fast ice. At sea there is 5-30cm thick close ice or level ice, with

Sea of Bothnia

Along the coasts there is mostly fast ice in the inner bays; 20–55 cm thick in the east and 5–30 cm thick in the west. On Ångermanälven, there is 15–30 cm thick fast ice. At sea north of about 62°N there is new ice and an area of 3-10cm thick close ice. At sea in the southern part there is 3-10cm

Archipelago Sea and Åland Sea

In the Archipelago Sea there is 20–45 cm thick fast ice in the inner archipelago of the Finnish coast. Mostly 10–30 cm thick, level or fast ice with new ice at places is present in the outer archipelagos to the Åland Islands. In the Åland Sea there is 5–20

Northern Baltic

In Lake Mälaren there is 10–30 cm thick fast ice. Along the outer Swedish coast there is 5–20 cm thick fast ice or level ice.

Gulf of Finland

Along the northern coast there is fast ice in the archipelago, 10–30 cm thick in the west and up to 50 cm thick in the east. In the Vyborg Bay there is 30–40 cm thick fast ice and in the Bjerkesund there is 25–35 cm thick fast ice. From St. Petersburg to the longitude of lighthouse Tolbuchin there is 35–45 cm thick fast ice. Further out there is

Gulf of Riga

In Väinameri there is 25–40 cm thick fast ice near the coasts and very close, 10–30 cm thick ice at sea. In the Bay of Pärnu, there is 25–35 cm thick fast ice. In the Gulf of Riga itself there is 5-20cm thick very close ice outside the northern coasts, further out concentration and thickness decreases to about 58°N followed by some nautical miles of

Central Baltic

Thin level ice is present at places along the Swedish coast.

With temperatures increasing from light frost to

ly 5–30 cm thick very close ice with level ice at places. Along the southern Finnish coast consolidated brash ice is present in places off the fast ice edge.

With severe frost ice in the north formation and ice growth will continue. There will be a slight ice drift mostly in southerly to southwesterly directions.

some very close ice around Sydostbrotten.

With mostly strong frost at sea, ice formation and ice growth will continue with a mostly westward ice drift.

thick open ice in the east and open water in the west.

With moderate frost in the east and light frost in the southwest new ice formation will continue. The ice will drift in westerly directions.

cm thick fast or level ice in bays along the coast and new ice or very open ice at sea in the north.

With mostly light frost new ice formation will continue. The ice will drift in westerly directions.

With temperatures around 0°C no larger change is expected.

10-35cm thick very close ice or level ice to about 27°(-Gogland), further west first thin close ice and later new ice to about 24°30'E (-longitude Tallin).

With moderate frost in the east and light frost in the west ice formation and ice growth will continue. The ice will drift in westerly directions.

new ice and open water. New ice and open water is present along the eastern coast. There is open water in the port of Riga.

With light frost in the north some ice formation and ice growth is expected there. The ice will drift in westerly directions.

slightly above 0 °C, some ice formation is possible but overall no larger changes are expected.

Southeastern Baltic

In the Curonian Lagoon, there are some remnant of ice.

With temperatures above 0°C further ice melt is expected.

Skagerrak and Kattegat

In some sheltered Norwegian fjords and bays is thin level ice or fast ice notably near Tønsberg, Kragerø, Svinesund and Drammensfjord. Along the Swedish coast of the Skagerrak there is very

open ice in some sheltered areas. With light in the northern part, some ice formation and ice growth is possible. But overall no larger-change is expected.

Swedish Lakes

In Lake Vänern 10–30 cm thick fast ice is present at the coasts. In the Dalbosjön there is 10-20cm thick very close or level ice outside the coast with brash ice at the edge; still further out there is very open ice. In the Värmlandssjön there is level ice

outside the northern fast ice and open water elsewhere.

With light frost some further ice formation and ice growth is expected with an only weak ice drift. .

Dr. J.Holfort

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Estonia	Pärnu	1800 kW	1B (Lloyd's)	27.01.
	Kunda and Sillamäe	1200 kW	II (Lloyd's)	04.02.
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.
	Rauma	2000 dwt	IB	14.02.
	Pori	2000 dwt	IB	17.02.
	Kaskinen and Kristiinankaupunki	2000 dwt	IB	23.01.
	Kaskinen and Kristiinankaupunki	2000 dwt	IA	17.02.
	Uusikaupunki	2000 dwt	IA	11.02.
	Eckerö, Maarianhamina and Langnäs	2000 dwt	II	13.01.
	Naantali and Turku	2000 dwt	I	23.01.
	Mussalo	2000 dwt	IB	29.01.
	Helsinki and Sköldvik	2000 dwt	I	29.01.
	Taalintehdas, Förby, Koverhar, Lap-pohja, Inkoo and Kantvik	2000 dwt	I	13.01.
	Taalintehdas and Förby	2000 dwt	IB	17.02.
	Hanko	2000 dwt	II	13.01.
	Loviisa, Kotka and Hamina	2000 dwt	IB	29.01.
	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.
	Primorsk	-	Ice 1	01.02.
	Ust-Luga	-	Ice 1	29.12.

Sweden	Karlsborg	4000 dwt	IA (2000 t)	14.01.
	Lulea, Haraholmen and Skelleftehamn	4000 dwt	IA	14.01.
	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	IB	17.01.
	Gävle	2000 dwt	IB	17.01.
	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, Degerhamn, 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. BOTNICA assists to the ports of Kunda and Sillamäe.

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, POLARIS, KONTIO, SISU and URHO assist in the Bay of Bothnia. ATLE and OTSO assist in the southern Bay of Bothnia and in the Quark. ZEUS and BRAGE VIKING assist in the Sea of Bothnia. VOIMA, CALYPSO, FENNICA and NORDICA assist the Gulf of Finland. ALE assists in the Vänern.

Norway

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

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)

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 foes – 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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Finland, 12.02.2024

Röyttä – Etukari	8446
Etukari – Ristinmatala	7476
Ajos – Ristinmatala	7476
Ristinmatala – Kemi 2	5476
Kemi 2 – Kemi 1	5476
Sea area SW of Kemi 1	9246
Kemi 2 – Ulkokrunni – Virpiniemi	7476
Oulu harbours – Kattilankalla	8446
Kattilankalla – Oulu 1	7476
Sea area SW of Oulu 1	9246
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Raaha harbour – Heikinkari	8446
Heikinkari – Raaha lighthouse	8446
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Latitude Marjaniemi – Ulkokalla, Sea	5476
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Vaelimatala to line Ulkokalla – Ykskivi	5746
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Ykspihlaja – Repskär	8846
Repskär – Kokkola lighthouse	5476
Sea area off Kokkola lighthouse	9246
Pietarsaari – Kallan	7366
Sea area off Kallan	9246

Sea lat. Pietarsaari – NE Nordvalen	9246
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Sea area off Sälgrund	7366
High sea from N to latitude Yttergrund	4146
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Isokari – Sandbäck	3126
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