

Eisbericht Nr. 35

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Übersicht

In der Bottenwiek befindet sich in den nördlichen Schären bis 50 cm dickes, in den südlichen bis 25 cm dickes Festeis. Auf See treibt zumeist sehr dichtes, übereinandergeschobenes 5–20 cm dickes Eis, welches im Nordwesten bis zu 40 cm dick und aufgepresst ist. An den Küsten von Norra Kvarken liegt bis 35 cm dickes Festeis und auf See treibt bis 30 cm dickes, sehr dichtes Eis. An den Küsten der Bottensee, des Finnischen Meerbusens, im nördlichen Teil des Rigaischen Meerbusen und dem Mälarsee kommt bis zu 20 cm dickes Festeis und ebenes Eis vor und weiter außerhalb meist Neueis und Neueisbildung. Im östlichen Finnischen Meerbusen liegt auch 10–30 cm dickes Festeis. Neueis und örtlich dickeres Eis kommt in einigen geschützten Fjorden im Skagerrak vor. In geschützten Küstengebieten befindet sich Neueis bis in die Südliche und Südöstliche Ostsee.

Overview

In the Bay of Bothnia there is fast ice in the archipelagos, up to 50 cm thick in the north and up to 25 cm thick in the south. At sea there is mostly 5–20 cm thick, rafted and very close ice, but in the northwest the ice is up to 40 cm thick and ridged. In the Quark there is up to 35 cm thick fast ice at the coasts and at sea there is up to 30 cm thick, very close ice. At the coasts of the Sea of Bothnia, the Gulf of Finland, in the northern part of the Gulf of Riga and Lake Mälaren there is up to 20 cm thick fast or level ice and outside there is mostly new ice and new ice formation. In the easternmost Gulf of Finland there is also 10–30 cm thick fast ice. New ice and at places thicker ice is present in sheltered fjords of the Skagerrak. In sheltered coastal areas new ice is present along the coasts to the Southern and Southeastern Baltic Sea.

Bay of Bothnia

In the archipelagos of the Bay of Bothnia there is fast ice; 20–40 cm thick in the northwest, 30–50 cm thick in the northeast and up to 25 cm thick in the southern part. Off the fast ice there is a region with level ice in the north and east. At sea there is mostly very close ice that is 15–40 cm thick, ridged

and rafted in the northwest and else mostly 5–20 cm thick and rafted. In the southern part leads occur in the ice field.

With air temperatures around -25°C near the coasts ice formation and growth will continue. The ice will mostly drift in northerly directions.

The Quark

There is 10–35 cm thick fast ice in the Vaasa archipelago and further out to about Norra Glöppsten is 5–20 cm thick, very close ice. Farther out first thin level and then new ice to about 20 NM south-

west of Norrskär. Along the Swedish coast there is up to 20 cm thick fast ice in inner bays and level ice further out. At sea, there is mostly very close, 5–30 cm thick drift ice to about Sydostbrotten in

Herstellung und Vertrieb

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the south.

With temperatures reaching values down to -25°C ice formation and growth will continue. A slight

Sea of Bothnia

Thin level ice or 5–20 cm thick fast ice is present in bays along both coasts. Further out on the Finnish side there is a 5–20 NM wide area with new ice and ice formation. Outside the Swedish coast north of 63°N there is 5–20 cm thick very close ice, further south there is new ice. On Ångermanälven, there is 10–20 cm thick fast ice on the upper part

Archipelago Sea and Åland Sea

In the Archipelago Sea there is thin level ice and new ice in the archipelago and around Åland Islands. In the Åland Sea there is new ice and thin level ice in bays along the coast.

Northern Baltic

In Lake Mälaren there is 5–15 cm thick fast and level ice in the west and new ice in the east with open water in the central part. New ice is present in sheltered places at the outer coast.

Gulf of Finland

From St. Petersburg to Kotlin there is 20–30 cm thick fast ice. In the Bjerkesund there is level ice. In the top of Vyborg Bay there is 10–25 cm thick fast ice with level ice further out. At sea, there is new ice east of about the line Šepelevskij – Seskar – Kotka. Along the northern coast there is 5–20 cm thick fast ice and thin level ice in the inner archi-

Gulf of Riga

In Väinameri there is 10-15 cm thick fast ice near the coasts. Farther out and on the fairway is very close ice or level ice. In the Bay of Pärnu, there is fast ice at the coast followed by very close ice to the line Cape Suurna – island Kihnu. Farther out, there is new ice out to the line southern part of Kihnu – Salacgriva. Else along the coast in the

Central Baltic

New ice is forming along the Swedish coast. New ice is also present in the harbors of Ventspils and Liepaja along the Latvian coast.

Southeastern Baltic

New ice is forming in the Vistula Lagoon and Curonian Lagoon.

Southern Baltic

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

Skagerrak, Kattegat, Belts and Sound

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

northerly ice drift which is increasing and veering to northeast on Sunday is expected over the weekend.

and new ice or thin level ice is present in the lower part.

With temperatures around -20°C in the northeast and -10°C in the southwest and mostly light to gentle winds of varying direction ice growth and formation will continue over the weekend.

With severe frost in the east and moderate frost in the west, ice formation will continue over the weekend.

With moderate to severe frost ice and light winds ice formation and ice growth will continue over the weekend.

pelago and farther out new ice and ice formation. Near the southern shore there is new ice in places. In Lake Saimaa there is 10–30 cm thick fast ice. With severe frost ice formation and ice growth will continue over the weekend. The ice will drift to the southwest and with decreasing speed more to the south in the course of Saturday.

northeastern part of the Gulf of Riga, there is ice formation and new ice. In the port of Riga thin close ice is present and further on the fairway to Irben strait is open water.

With mostly moderate to severe frost ice formation and ice growth will continue over the weekend. The ice will slightly drift to southwest/west.

With moderate frost ice formation will continue over the weekend.

With light to severe frost new ice formation and ice growth will continue over the weekend.

With moderate frost ice formation will continue over the weekend.

new ice in few sheltered areas.

With moderate to severe frost ice formation and ice growth is expected along the coast. In Danish wa-

ters ice may form in very sheltered coastal areas.

Swedish Lakes

Thin level ice is present in sheltered bays and new ice is forming along the coasts of Lake Vänern.

With moderate to severe frost and mostly light winds ice formation and ice growth will continue.

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 dwt	IB	17.12.
	Tornio, Kemi and Oulu	2000 dwt	IA	07.01.
	Raahe, Kalajokki, Kokkola, Pietarsaari and Vaasa	2000 dwt	IB	02.01.
	Raahe, Kalajokki, Kokkola and Pietarsaari	2000 dwt	IA	07.01.
	Kristiinankaupunki, Pori and Rauma	2000 dwt	II	01.01.
	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.
	Loviisa, Kotka and Hamina			
	Lake Saimaa	2000 dwt	I	07.01.
	Lake Saimaa	2000 dwt	IB	13.12.
Saimaa Canal	2000 dwt	IA	08.01.	
Saimaa Canal	2000 dwt	IB	13.12.	
		2000 dwt	IA	08.01.
Russia	Vyborg	-	Ice 1	30.12.
	Vysotsk	-	Ice 1	30.12.
	Ust-Luga	-	Ice 1	29.12.
Sweden	Karlsborg and Lulea	2000 dwt	IB	18.12.
	Karlsborg and Lulea	2000 dwt	IA	09.01.
	Haraholmen and Skelleftehamn	2000 dwt	IB	20.12.
	Haraholmen and Skelleftehamn	2000 dwt	IA	09.01.
	Rundvik and Husum	2000 dwt	IC	04.01.
	Örnsköldsvik	2000 dwt	IC	18.12.
	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.
	Gävle	2000/4000 dwt	IC/II	04.01.
	Skutskär, Öregrund, Hargshamn, 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	IC	04.01.
	Oxelösund, Norrköping, Västervik, Oskarshamn, Mösterås, Kalmar, Degerhamn, Berkvara and Karlskrona	2000 dwt	II	04.01.
	Stenungsund and Uddevalla	2000 dwt	II	04.01.
	Trollhätte Canal and Göta Älv	2000 dwt	IC	04.01.
	Vänern	2000 dwt	IC	04.01.

Estonia

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

Finland/Sweden

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, POLARIS and YMER assist in the Bay of Bothnia. ATLE and ZEUS assist in the Quark. VOIMA is heading for the Gulf of Finland.

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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Stockholm – Trälhavet – Klövholmen	4046
Köping – Kvicksund	8244
Västerås – Grönsö	5244
Grönsö – Södertälje	4044
Stockholm – Södertälje	4044
Norrköping – Hargökalv	5146
Västervik – Marsholmen – Idö	4046
Karlskrona – Aspö	4046
Vänersborgsviken	4046
Fairway to Gruvön	4046
Fairway to Karlstad	5146
Fairway to Kristinehamn	5146
Fairway to Lidköping	4046