

Eisbericht Nr. 43

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Nr. 43

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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 ebenem Eis bedeckte Rinnen vor. Auf See treibt ansonsten meist 15–40 cm dickes, sehr dichtes Eis, 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 ansonsten dichtes 5–15 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 Neueis. Das Schärenmeer ist mit dünnem, ebenem Eis bedeckt. Im Osten und Norden des Finnischen Meerbusens liegt bis 35 cm dickes Festeis und ganz im Osten treibt auf See dichtes, bis 15 cm dickes Eis. Ansonsten treibt weiter außerhalb und entlang der Küsten örtlich Neueis. Im Rigaischen Meerbusen kommt bis zu 30 cm dickes Festeis vor und vor den Küsten treibt Neueis. Ansonsten kommt im Mälaren, Vänern und Norwegischen Fjords dickeres Eis vor und dünnes Eis und Neueis ist in geschützten Bereichen bis in die Nordsee hinein zu finden.

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 level ice. Else at sea there is mostly 15–40 cm thick very close ice, ridged and rafted at places. In the Quark there is up to 35 cm thick fast ice at the coasts. At sea there is up to 30 cm thick very close ice in the northeast and up to 5-15cm thick close ice elsewhere. 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 new ice. 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. In the easternmost part there is up to 15 cm thick ice at sea. Further out and along the southern coast there is new ice in places. 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. Else thicker ice is present in the Mälaren, Vänern and Norwegian fjords and thin ice and new ice is found in some sheltered areas all the way to the North Sea.

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 level 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 Norströmsgrund to about Skellefteå bay. At sea there is mostly 15–40 cm thick, rafted and ridged, very close ice with 25–40 cm thick ice in the central western part southwest of about Simpgrund. The

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ice field in the southeast is difficult to force in places. Outside the Swedish coast in the south there is level ice followed by 15-30cm thick, very close ice.

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 thin level ice. Along the Swedish coast there is up to 30 cm thick fast and level ice further out. At sea north of Nordvalen and

Sea of Bothnia

Thin level ice or 5–35 cm thick fast ice is present in bays along both coasts. On Ångermanälven, there is 10–25 cm thick fast ice. Outside the Swedish coast in the south, there is some ridged, very close ice. Further out at both coasts there is a 10-15nm wide area with new ice.

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

Northern Baltic

In Lake Mälaren there is 5–20 cm thick fast ice. At the outer Swedish coast there is 5-10cm thick fast ice or level ice. At the Estonian coast there is new

Gulf of Finland

From St. Petersburg to Kotlin there is 30–40 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 east. Further out, there is new ice and ice for-

Gulf of Riga

In Väinameri there is 25–35 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 25–35 cm thick fast ice to the line Liu – Voiste followed by very close ice to a line from island Kihnu to Häädemeeste. Outside the coast in the east there is very close to close ice out to

Central Baltic

New ice is present along the Swedish coast, the Kalmarsund, along the coast of Öland and a few places around Gotland.

Southeastern Baltic

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

With strong to severe frost further ice formation and ice growth is expected. The ice will drift southwestwards.

Valassaaret, there is very close, 10–40 cm thick ice. Else at sea there is 5-25cm thick close ice. With mostly moderate frost, ice formation and ice growth will continue. The ice will drift to the west.

With mostly light frost in the west and mostly moderate frost in the east further ice formation and ice growth is expected. The ice will drift westwards with the new ice area expanding in the east and shrinking in the west.

fast or level ice in bays and new ice is drifting close to the coast.

With light frost some ice formation and ice growth is expected and the ice will drift to the northwest..

ice.

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

mation to about a line Bengtskär - Tallinnamadal lighthouse - Kalbådagrund – Gogland. At the southern shore there is new ice along the coast from Narva Bay to Kunda Bay and also in Tallinn Bay. In Lake Saimaa there is 15–40 cm thick fast ice.

With light frost in the west and up to strong frost in the east frost ice formation and ice growth continues. The ice will first drift in northwesterly direction.

about a line from the southern point of Kihnu to Skulte. Off the northern and western coast of the Gulf of Riga there is new ice covering also the Irben Strait.

With mostly moderate frost ice formation and ice growth is expected and the ice will drift northwards.

With at most light frost no larger ice formation is expected.

With at most light frost some ice formation is possible.

Southern Baltic

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

With at most light frost some ice formation is possible.

Western Baltic

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

With at most light frost some ice formation is possible.

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 sheltered areas. With at most light frost along the Danish and Swedish coast some ice formation is possible. In the Norwegian fjords moderate to strong frost is expected and ice formation will therefore continue.

Swedish Lakes

In Lake Vänern thin 5–15 cm thick level ice is present in northern bays and 5-20cm thick fast ice in southern bays. At sea the southern part is covered by very open to open, 5-20cm thick ice and open

water is present in the northern part. With light to moderate frost some ice formation and growth are expected.

North Sea

In the Limfjord there is level ice and new ice. With at most light frost some ice formation is possible

and no larger changes are expected.

Dr. J.Holfort

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, Lappohja, 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, 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, Degeberhamn, 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, 17.01.2024			
Shipping route from Narva-Jõssuu	5102	Rajakari – Lövskär	8745
Kunda, port and bay	4001	Lövskär – Korra	8745
Paernu, port and bay	8345	Korra – Isokari	5145
Shipp. route from Paernu to Irben Strait	4113	Lövskär – Berghamn	5145
Irben Strait	3021	Berghamn – Stora Sottunga	5145
Moonsund	7353	Stora Sottunga – Ledskär	5145
		Sea area at Rödhamn	5145
		Lövskär – Grisselborg	5145
		Grisselborg – Norparskär	5145
		Hanko harbours – Hanko 1	4045
		Sea area S of Hanko 1	4045
		Hanko – Vitgrund	5142
		Vitgrund – Utö	5145
		Koverhar – Hästö Busö	5146
		Hästö Busö – Ajax	4046
		Sea area S of Ajax	4046
		Inkoo a. Kantvik – sea area Porkkala	8746
		Sea area at Porkkala	4046
		Sea area S of Porkkala lighthouse	4046
		Helsinki harbours – Harmaja	8745
		Harmaja – Helsinki lighthouse	4045
		Helsinki lighth. – sea S of Porkkala lh.	4045
		Fairway Helsinki – Porkkala – Rönnskär	4045
		Vuosaari harbour – Eestiluoto	5145
		Eestiluoto – Helsinki lighthouse	4045
		Porvoo harbours – Varlax	8745
		Varlax – Porvoo lighthouse	4045
		Porvoo lighthouse – Kalbådagrund	4045
		Sea Kalbådagrund – Helsinki lighthouse	4045
		Valko Harbour – Täktarn	8346
		Archipelago fairway Boistö – Glosholm	8746
		Archipelago fairway Glosholm–Helsinki	8745
		Kotka – Viikari	8745
		Viikari – Orregrund	8745
		Orregrund – Tiiskeri	4046
		Tiiskeri – Kalbådagrund	4045
		Hamina – Suurmusta	8746
		Suurmusta – Merikari	8746
		Merikari – Kaunissaari	4046
		Latvia, 17.01.2024	
		Port of Riga	2000
		Riga to the Cape of Mersrags, fairway	2000
		Mersrags to Irben Strait, fairway	2000
		Irben Strait, fairway	1000
		Irben Strait to the port of Ventspils	1000
		Norway, 16.01.2024	
		Svinesund – Halden	33//
		Mossesund	9956
		Drammensfjord	6315
		Tønsberg, inner harbour	82/3
		Vestfjord (Tønsberg)	82/3
		Larviksfjorden (Stavern – Larvik)	121/
		Skåtøysund (Kragerø)	8245
		Langårsund (Kragerø)	8248
		Kragerøfjord	3021
		Russian Federation, 17.01.2024	
		Port of St. Petersburg	88//

St. Petersburg – E-point island Kotlin	88//	Klövholmen – Sandhamn	4046
E-point Kotlin – long. lighth. Tolbuhkin	88//	Trollharan – Langgarn	4046
Lighth. Tolbuhkin – lighth. –Šepelevskij	53//	Köping – Kvikksund	8344
Lighthouse Šepelevskij – island Sescar	53//	Västerås – Grönsö	8344
Island Sescar – Island Sommers	52//	Grönsö – Södertälje	8344
Island Sommers– S-point island Gogland	20//	Stockholm – Södertälje	8344
Vyborg, port and bay	83//	Södertälje – Fifong	8144
Island Vichrevoj – Island Sommers	53//	Fifong – Landsort	8146
Strait Bjerkesund	83//	Norrköping – Hargökalv	8246
E-point Bol'šoj Ber'ozovjy – Šepelevskij	42//	Hargökalv – Vinterklasen – N Kränkan	5246
Luga bay	51//	Järnverket-Lillhammaren – N Kränkan	8146
Appr. Luga bay – line Moš.-Šepel.	41//	Västervik – Marsholmen – Idö	5246
		Oskarshamn – Furön	4046
Sweden, 17.01.2024		Blå Jungfrun – Kalmar	4046
Karlsborg – Malören	8546	Kalmar – Utgrunden	4046
Sea area off Malören	8446	Karlskrona – Aspö	5146
Luleå – Björnklack	8446	Fairway to Halmstad	1000
Björnklack – Farstugrunden	5456	Uddevalla – Stenungsund	5046
E and SE of Farstugrunden	5456	Vänersborgsviken	8346
Sandgrönn fairway	6346	Fairway through Lurö archipelago	5246
Rödskallen – Norströmsgrund	6356	Fairway to Gruvön	5246
Haraholmen – Nygrån	6346	Fairway to Karlstad	5246
Sea area off Nygrån	5246	Fairway to Kristinehamn	5246
Skelleftehamn – Gåsören	8346	Fairway to Otterbäcken	5246
Sea area off Gåsören	5356	Fairway to Lidköping	8346
Sea area off Bjuröklubb	8346		
NE of Nordvalen	5356		
SW of Nordvalen	4356		
Western Quark (W of Holmöarna)	5146		
Umeå – Väktaren	5146		
SE of Väktaren	5146		
NE and SE of Sydostbrotten	4356		
Fairway to Husum	5146		
Örnsköldsvik – Hörnskatan	8346		
Hörnskatan – Skagsudde	8346		
Sea area off Skagsudde	4046		
Fairway W of Ulvöarna	5146		
Sea area E of Ulvöarna	4046		
Ångermanälven north Sandö Bridge	8344		
Ångermanälven south Sandö Bridge	8344		
Härnösand – Härnön	8344		
Sea area off Härnön	4046		
Sundsvall – Draghällan	8346		
Draghällan – Åstholmsudde	4046		
Off Åstholmsudde and Brämön	4046		
Hudiksvallfjärden	8246		
Iggesund – Agö	8246		
Sea area off Agö	4046		
Sandarne – Hällgrund	8246		
Sea area off Hällgrund	4046		
Ljusnefjärden – Storjungfrun	8246		
Sea area off Storjungfrun	4046		
Gävle – Eggegrund	5236		
Sea area off Eggegrund	4046		
Sea area off Orskär	4046		
Öregrundsgrepen	5146		
Passage at Grundkallen	4046		
Hallstavik – Svartklubben	8246		
Trälhavet – Furusund – Kapellskär	8146		
Stockholm – Trälhavet – Klövholmen	8146		