



Eisbericht Nr. 55

Amtsblatt des BSH

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Nr. 55

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Übersicht

In der Bottenwiek befindet sich in den nördlichen Schären bis 60 cm dickes, in den südlichen bis 45 cm dickes Festeis. Auf See treibt im Nordosten zumeist 20–50 cm dickes, sehr dichtes Eis, örtlich aufgepresst, übereinandergeschoben und teilweise schwer zu passieren. Ansonsten befindet sich auf See meist offenes Wasser mit teils sehr lockerem oder lockerem Eis entlang der Küste. An den Küsten von Norra Kvarken liegt bis 45 cm dickes Festeis und auf See treibt 10–30 cm dickes, lockeres bis sehr dichtes Eis oder Neueis. An den Küsten der Bottensee kommt im Osten bis 45 cm und im Westen bis 30 cm dickes Festeis vor. Davor treibt im Osten ein dünnes Band sehr dichtes Eis. Das Schärenmeer ist mit ebenem Eis bedeckt. Im Osten und Norden des Finnischen Meerbusens liegt bis 45 cm dickes Festeis und ganz im Osten treibt auf See sehr dichtes, bis 35 cm dickes Eis. Im Rigaischen Meerbusen kommt im Nordosten bis zu 35 cm dickes Festeis vor und entlang der nördlichen Küste treibt lockeres bis sehr dichtes Eis. Ansonsten kommt im Mälaren, Vänern, norwegischen Fjorden und der schwedischen Küste im Südosten etwas dickeres 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 45 cm thick in the south. At sea in the north east, there is mostly 20–50 cm thick, very close, partly ridged and rafted ice that is difficult to force at places. Else at sea there is mostly open water with 10–30 cm thick, very open or open ice along the coasts. In the Quark there is up to 45 cm thick fast ice at the coasts and at sea there is 10–30 cm thick, open to very close ice or new ice. At the coasts of the Sea of Bothnia there is fast ice, up to 45 cm thick in the east and up to 30 cm thick in the west. Further out in the east there is a narrow band of very close ice. Level ice covers the Archipelago Sea. There is up to 45 cm thick fast ice at the eastern and northern coast of the Gulf of Finland. In the easternmost part there is up to 30 cm thick very close ice at sea. In the Gulf of Riga there is up to 35 cm thick fast ice in the northeast and along the northern coast there is open to very close ice. Else thicker ice is present in the Mälaren, Vänern, Norwegian fjords and the southeastern Swedish coast.

Bay of Bothnia

In the archipelagos of the Bay of Bothnia there is fast ice with some consolidated ice further out; 30–50 cm thick in the northwest, 40–60 cm thick in the northeast and up to 25–45 cm thick in the southern part. In the northeast the fast ice stretches out to Malören, Kemi-3, Oulu-3 and Raahe. Off the fast ice in the west runs a lead with new ice to Farstu-

grunden and Norrströmsgrund. At sea there is mostly 20–50 cm thick, very close, ridged and rafted ice in the north and east. The ice field is under pressure and difficult to force at places. The ice edge runs approximately from Norrströmsgrund to Kalajoki. Further south off the Finnish coast is open, 10–30 cm thick drift ice. Else at sea there is

Herstellung und Vertrieb

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mostly open water with some very open ice and strips and patches at places.

With mostly light frost and temperatures around 0°C some ice formation and ice growth may occur

The Quark

There is 20–45 cm thick fast ice in the Vaasa archipelago out to Ensten and new ice to Norrkär. Along the Swedish coast there is up to 40 cm thick fast ice. Further out is open ice and a band of very close, 10–30 cm thick ice from Holmöarna to Sydostbrotten. Else at sea, there is new ice and

Sea of Bothnia

Along the coasts there is mostly fast ice in the inner bays; 20–45 cm thick in the east and 5–30 cm thick in the west. On Ångermanälven, there is 15–30 cm thick fast ice. Off the Finnish coast is a narrow band with 5–30 cm thick, very close ice and

Archipelago Sea and Åland Sea

In the Archipelago Sea there is 20–40 cm thick fast ice in the inner archipelago of the Finnish coast and 10–20 cm thick, level or fast ice reaching to the Åland Islands. In the Åland Sea there is 5–15

Northern Baltic

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

Gulf of Finland

From St. Petersburg to past Kotlin there is 30–40 cm thick fast ice. Further out is very close, 10–35 cm thick, partly ridged and rafted ice north of about the line Šepelevskij – Seskar – Kotka. In Luga Bay and out to Moščnyj, there is mostly open water. In the Bjerkesund there is 10–20 cm thick fast and in the Vyborg Bay there is 25–35 cm thick fast ice. Along the northern coast there is fast ice in the archipelago, 10–35 cm thick in the west and up to

Gulf of Riga

In Väinameri there is 25–35 cm thick fast ice near the coasts and very close, 5–20 cm thick ice at sea. Off the southern coast of Saaremaa there is open drift ice and very close in the entrance to Väinameri. In the Bay of Pärnu, there is 25–35 cm thick fast ice to the line Liu – Tahkuranna followed

Central Baltic

Thin level ice is present along the Swedish coast. In the Kalmarsund there is 3–10 cm thick, very close ice at places around Kalmar and open water

Southeastern Baltic

In the Curonian Lagoon, there is 15–20 cm thick, very close ice in the eastern part and else open water. In Vistula Lagoon some very close, thin ice

especially in the northern part. The ice will drift first to the north and from Saturday in easterly directions. From late Sunday a southerly ice drift is expected.

open 10–30 cm thick drift ice east of Valassaaret. With temperatures around 0 °C no larger ice formation or melt is expected, but the ice will drift first to the north and from Saturday in easterly directions.

shuga. Open water is off the Swedish coast. With temperatures around 0 °C no larger ice formation or melt is expected. The ice will drift first to the north and from in easterly directions.

cm thick fast or level ice in bays along the coast. With temperatures mostly around 0 °C no larger changes are expected over the weekend.

With temperatures mostly around or slightly above 0 °C no larger changes are expected.

45 cm thick in the east. Further out, there is close 10–35 cm thick drift ice at places and else very open ice in the east further west is very open ice or open water.

With mostly temperatures around 0 °C and partly light frost in the eastern part, no larger changes are expected. The ice will first drift to the north and from Saturday noon in easterly directions.

by very close ice to about the line Kihnu – Kabli. With temperatures slightly above 0 °C some ice melt is possible is expected over the weekend but generally no larger changes. The ice will mostly drift first to the north and from Saturday to the east.

further north. With temperatures above 0°C some ice melt is expected over the weekend.

is present in the northeast. With temperatures above 0°C some ice melt is expected over the weekend.

Southern Baltic

Mostly ice free.

With temperatures above 0°C, most of the remnant

ice will disappear over the weekend.

Skagerrak and Kattegat

In the Svinesund there is 15–30 cm thick open to close ice. In the Mossesund, there are some larger drifting floes. In Drammensfjord there is a lead in very close, 10–30 cm thick ice. Near Tønsberg and Kragerø there is 10–15 cm thick fast ice in places.

Along the Swedish coast of the Skagerrak, there is new ice in some sheltered areas.

With temperatures mostly above 0°C and partly high winds from west ice melt is expected especially along the Swedish coast.

Swedish Lakes

In Lake Vänern 5–30 cm thick fast ice is present at the coasts. Along the coast southeast of Ämal, there is very close, 5–15 cm thick ice. Outside the

coastal areas it is mostly ice-free.

With temperatures mostly above 0 °C during the weekend some ice melt is expected.

Dr. W. Aldenhoff

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.
	Kaskinen, Kristiinankaupunki and Uusikaupunki	2000 dwt	IB	23.01.
	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, Lappohja, Inkoo and Kantvik	2000 dwt	I	13.01.
	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	4000 dwt	IA	14.01.
	Haraholmen and Skelleftehamn	4000 dwt	IA	14.01.
	Rundvik, Husum and Örnköldsvik	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, 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. 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, BRAGE VIKING, ODEN, FREJ, KONTIO, OTSO and URHO assist in the Bay of Bothnia. POLARIS, ATLE and SISU assist in the southern Bay of Bothnia and in the Quark. ZEUS assists in the Sea of Bothnia. VOIMA, CALYPSO, FENNICA and NORDICA assist the Gulf of Finland.

Norway

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

Drammensfjorden (Drammen), 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:</p> <p>A_B Amount and arrangements of sea ice</p> <p>0 Ice free</p> <p>1 Open water – concentration less than 1/10</p> <p>2 Very open ice - concentration 1/10 to 3/10</p> <p>3 Open ice – concentration 4/10 to 6/10</p> <p>4 Close ice – concentration 7/10 to 8/10</p> <p>5 Very close ice – concentration 9/10 to 9+/10</p> <p>6 Compact ice, including consolidated ice – concentration 10/10</p> <p>7 Fast ice with drift ice outside</p> <p>8 Fast ice</p> <p>9 Lead in very close or compact drift ice or along the fast ice edge</p> <p>/ Unable to report</p> <p>Third number:</p> <p>T_B Topography or form of ice</p> <p>0 Pancake ice, ice cakes, brash ice – less than 20 m across</p> <p>1 Small ice floes – 20 to 100 m across</p> <p>2 Medium ice floes – 100 to 500 m</p> <p>3 Big ice floes – 500 to 2000 m across</p> <p>4 Vast or giant ice floes – more than 2000 m across – or level ice</p> <p>5 Rafted ice</p> <p>6 Compact slush or shuga, or compacted brash ice</p> <p>7 Hummocked or ridged ice</p> <p>8 Thaw holes or many puddles on the ice</p> <p>9 Rotten ice</p> <p>/ No information or unable to report</p>	<p>Second number:</p> <p>S_B Stage of ice development</p> <p>0 New ice or dark nilas (less than 5 cm thick)</p> <p>1 Light nilas (5 - 10 cm thick) or ice rind</p> <p>2 Grey ice (10 - 15 cm thick)</p> <p>3 Grey-white ice (15 - 30 cm thick)</p> <p>4 White ice, first stage (30 - 50 cm thick)</p> <p>5 White ice, second stage (50 - 70 cm thick)</p> <p>6 Medium first year ice (70 - 120 cm thick)</p> <p>7 Ice predominantly thinner than 15 cm with some thicker ice</p> <p>8 Ice predominantly grey-white ice (15 – 30 cm) with some thicker ice</p> <p>9 Ice predominantly thicker than 30 cm with some thinner ice</p> <p>/ No information or unable to report</p> <p>Fourth number:</p> <p>K_B Navigation conditions in ice</p> <p>0 Navigation unobscured</p> <p>1 Navigation difficult or dangerous for wooden vessels without ice sheathing</p> <p>2 Navigation difficult for unstrengthened or low-powered vessels built of iron or steel. Navigation for wooden vessels even with ice sheathing not advisable</p> <p>3 Navigation without icebreaker assistance possible only for high-powered vessels of strong construction and suitable for navigation in ice</p> <p>4 Navigation proceeds in lead or broken ice-channel without the assistance of an icebreaker</p> <p>5 Icebreaker assistance can only be given to vessels suitable for navigation in ice and of special size</p> <p>6 Icebreaker assistance can only be given to vessels of special ice class and of special size</p> <p>7 Icebreaker assistance can only be given to vessels after special permission</p> <p>8 Navigation temporarily closed</p> <p>9 Navigation has ceased</p> <p>/ Unknown</p>
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Finland, 01.02.2024

Röyttä – Etukari	8446	Ensten – Vaasa lighthouse	3726
Etukari – Ristinmatala	7476	Vaasa lighthouse – Norrskär	2126
Ajos – Ristinmatala	7476	Kaskinen – Sälgrund	8846
Ristinmatala – Kemi 2	5476	Sea area off Sälgrund	7746
Kemi 2 – Kemi 1	5476	Pori harb. to line Pori lighth. – Säppi	5746
Sea area SW of Kemi 1	5476	Rauma, Harbour – Kylmäpihlaja	8846
Kemi 2 – Ulkokrunni – Virpiniemi	7476	Kylmäpihlaja – Rauma lighthouse	3736
Oulu harbours – Kattilankalla	8446	Uusikaupunki harbour – Kirsta	8846
Kattilankalla – Oulu 1	7476	Kirsta – Isokari	7746
Sea area SW of Oulu 1	5476	Isokari – Sandbäck	2126
High Sea N of the latitude of Marjaniemi	5476	Sea area off Sandbäck	2126
Raahe harbour – Heikinkari	8446	Sea area N of Sälskär	2125
Heikinkari – Raahe lighthouse	6856	Maarianhamina – Marhällan	8745
Raahe lighthouse – Nahkiainen	6856	Naantali and Turku – Rajakari	8846
Latitude Marjaniemi – Ulkokalla, Sea	5476	Rajakari – Lövskär	8846
Rahja harbour – Välimatala	8846	Lövskär – Korra	8846
Vaelimatala to line Ulkokalla – Ykskivi	5476	Korra – Isokari	2126
Sea betw. lat. of Ulkokalla – Pietarsaari	5476	Lövskär – Berghamn	8746
Ykspihlaja – Repskär	8846	Berghamn – Stora Sottunga	1706
Repskär – Kokkola lighthouse	7346	Stora Sottunga – Ledskär	8746
Sea area off Kokkola lighthouse	5346	Sea area at Rödhamn	1706
Pietarsaari – Kallan	7346	Lövskär – Grisselborg	8746
Sea area off Kallan	3336	Grisselborg – Norparskär	1706
Sea lat. Pietarsaari – NE Nordvalen	3336	Sea area at Vidskär	1706
Sea area ENE of Nordvalen	2126	Hanko harbours – Hanko 1	1705
Sea area Nordvalen to W of Norrskär	2126	Sea area S of Hanko 1	1705
Vaskiluoto – Ensten	7346	Hanko – Vitgrund	8742
		Vitgrund – Utö	8745

Koverhar – Hästö Busö	8346	SE of Väktaren	3326
Hästö Busö – Ajax	1706	NE and SE of Sydostbrotten	3326
Inkoo a. Kantvik – sea area Porkkala	8346	Fairway to Husum	1306
Helsinki harbours – Harmaja	8346	Örnsköldsvik – Hörnskatan	8346
Harmaja – Helsinki lighthouse	1706	Hörnskatan – Skagsudde	8346
Fairway Helsinki – Porkkala – Rönnskär	1706	Sea area off Skagsudde	1306
Vuosaari harbour – Eestiluoto	8346	Fairway W of Ulvöarna	4236
Eestiluoto – Helsinki lighthouse	1706	Sea area E of Ulvöarna	1306
Porvoo harbours – Varlax	7756	Ångermanälven north Sandö Bridge	8344
Varlax – Porvoo lighthouse	5756	Ångermanälven south Sandö Bridge	8344
Valko Harbour – Tåktarn	8346	Härnösand – Härnön	4234
Archipelago fairway Boistö – Glosholm	5756	Sea area off Härnö	1306
Archipelago fairway Glosholm–Helsinki	7756	Sundsvall – Draghällan	8346
Kotka – Viikari	8346	Draghällan – Åstholmsudde	1306
Viikari – Orregrund	5356	Off Åstholmsudde and Brämön	1306
Orregrund – Tiiskeri	1706	Hudiksvallfjärden	8346
Hamina – Suurmusta	8346	Iggesund – Agö	8346
Suurmusta – Merikari	7356	Sea area off Agö	1306
Merikari – Kaunissaari	5356	Sandarne – Hällgrund	8346
		Sea area off Hällgrund	1306
Norway, 02.02.2024		Ljusnefjärden – Storjungfrun	8346
Svinesund – Halden	33//	Sea area off Storjungfrun	1306
Mossesund	9836	Gävle – Eggegrund	8346
Drammensfjord	5354	Sea area off Eggegrund	1306
Tønsberg, inner harbour	82/3	Öregrundsgrepen	8246
Vestfjord (Tønsberg)	82/3	Hallstavik – Svartklubben	8246
Larviksfjorden (Stavør – Larvik)	121/	Trälhavet – Furusund – Kapellskär	8246
Langårsund (Kragerø)	8248	Stockholm – Trälhavet – Klövholmen	8246
		Klövholmen – Sandhamn	8246
Russian Federation, 02.02.2024		Köping – Kvicksund	8344
Port of St. Petersburg	89//	Västerås – Grönsö	8344
St. Petersburg – E-point island Kotlin	89//	Grönsö – Södertälje	8344
E-point Kotlin – long. lighth. Tolbuhkin	89//	Stockholm – Södertälje	8344
Lighth. Tolbuhkin – lighth. –Šepelevskij	53//	Södertälje – Fifong	8244
Lighthouse Šepelevskij – island Sescar	53//	Norrköping – Hargökalv	8246
Island Sescar – Island Sommers	22//	Hargökalv – Vinterklasen – N Kränkan	3126
Vyborg, port and bay	83//	Järnverket-Lillhammaren – N Kränkan	3226
Island Vichrevoj – Island Sommers	53//	Västervik – Marsholmen – Idö	5246
Strait Bjerkesund	82//	Blå Jungfrun – Kalmar	1106
E-point Bol'šoj Ber'ozovyj – Šepelevskij	53//	Kalmar – Utgrunden	1106
Luga bay	31//	Uddevalla – Stenungsund	2126
Appr. Luga bay – line Moš.-Šepel.	21//	Vänernborgsviken	8346
		Fairway to Gruvön	8346
Sweden, 02.02.2024		Fairway to Karlstad	8346
Karlsborg – Malören	8546	Fairway to Kristinehamn	8346
Sea area off Malören	5476	Fairway to Otterbäcken	8346
Luleå – Björnklack	8446	Fairway to Lidköping	8346
Björnklack – Farstugrunden	4046		
E and SE of Farstugrunden	5476		
Sandgrönn fairway	8446		
Rödkallen – Norströmsgrund	8446		
Haraholmen – Nygrån	8446		
Sea area off Nygrån	1306		
Skelleftehamn – Gåsören	8446		
Sea area off Gåsören	8446		
Sea area off Bjuröklubb	2326		
NE of Nordvalen	4046		
SW of Nordvalen	3326		
Western Quark (W of Holmöarna)	5356		
Umeå – Väktaren	3326		