



Eisbericht Nr. 52

Amtsblatt des BSH

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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 Norden und Osten zumeist 20–50 cm dickes, sehr dichtes Eis, örtlich aufgedrückt, übereinandergeschoben und teilweise schwer zu passieren. Im Westen befindet sich eine breite Rinne mit sehr lockerem Eis. An den Küsten von Norra Kvarken liegt bis 45 cm dickes Festeis und auf See treibt im Norden 10–30 cm dickes, sehr lockeres Eis. 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 30 cm dickes Eis. Im Rigaischen Meerbusen kommt im Nordosten bis zu 35 cm dickes Festeis vor und entlang der nördlichen Küste treibt dichtes 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 and east, there is mostly 20–50 cm thick, very close, partly ridged and rafted ice that is difficult to force at places. In the western part runs a wide lead with very open ice. In the Quark there is up to 45 cm thick fast ice at the coasts and at sea there is 10–30 cm thick, very open ice in the northern part. 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 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. At sea there is mostly 20–50 cm thick, very close, ridged and rafted ice in the north and east north of about

64°00'N. The ice field is under pressure and difficult to force at places. Further south is open to very open, 10–30 cm thick drift ice. Along the Swedish coast runs a wide lead with very open ice from about Falkensgrund and Nygrån to Norra Kvarken.

With temperatures around or slightly below 0 °C no larger changes are expected. The ice will continue

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

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to drift to the northeast.

The Quark

There is 20–45 cm thick fast ice in the Vaasa archipelago out to Ensten. Along the Swedish coast there is up to 40 cm thick fast ice and 10–30 cm thick, very close ice to Holmöarna. At sea in the

north, there is mostly very open, 10–30 cm thick ice.

With temperatures around 0 °C no larger changes are expected. The ice will drift to the northeast.

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

shuga.

With temperatures around 0 °C no larger changes are expected. The ice will drift in northerly directions.

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

cm thick fast or level ice in bays along the coast.

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

Northern Baltic

In Lake Mälaren there is 5–20 cm thick fast ice. At the outer Swedish coast there is 5–15 cm thick fast ice or level ice and some new ice slightly further

out.

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

Gulf of Finland

From St. Petersburg to past Kotlin there is 30–40 cm thick fast ice. Further out is very close, 10–30 cm thick, partly ridged and rafted ice north of about the line Šepelevskij – Kotka. In Luga Bay, there is mostly very open, 5–20 cm thick drift ice. In the Bjerkesund there is 10–20 cm thick fast and in the Vyborg Bay there is 20–35 cm thick fast ice. Along

the northern coast there fast ice in the archipelago, 10–35 cm thick in the west and up to 45 cm thick in the east. Further out, there is a narrow band of very close ice in the east and shuga in the west.

With temperatures around 0 °C no larger changes are expected the coming day. The ice will drift increasingly to the northeast.

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 a band of close ice. In the Bay of Pärnu, there is 25–35 cm thick fast ice to the line Liu – Tahkuranna followed by very close ice to about the line Kihnu –

Kabli. In Irben Strait is open water.

With temperatures slightly above 0 °C some ice melt is possible, but else no larger changes are expected. There will be an increasing ice drift to northerly directions the coming day.

Central Baltic

Thin level ice is present along the Swedish coast. In the Kalmarsund there is some close to very open ice around Kalmar. Remnants of ice are present at few places along the coasts of Öland and

around Gotland.

With temperatures above 0°C some ice melt is expected the coming day.

Southeastern Baltic

Mostly 15–20 cm thick, very close ice with some open water in the southwestern part is present in the Curonian Lagoon. In Vistula Lagoon some very close, thin ice is present in the northeast else-

where is open water.

With temperatures mostly slightly above 0°C some ice melt is expected the coming day.

Southern Baltic

Some thin ice is present along the coast from around Karlskrona.

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

Skagerrak and Kattegat

In the Svinesund there is 15–30 cm thick open ice, in the Mossesundet and Drammensfjord there is a lead in very close, mostly thicker than 30 cm ice. Near Tønsberg there is 10–15 cm thick fast ice in places. Near Kragerø there is 10–15 cm thick fast ice in places. New ice can also be found in other

Norwegian Fjords. Along the Swedish coast, there is new ice in some sheltered areas. Kattegat is mostly ice free.

With temperatures mostly above 0°C and around 0°C in the northern Oslofjord some ice melt is expected the coming day but else no larger changes.

Swedish Lakes

In Lake Vänern 5–20 cm thick fast ice is present in northern bays and 10–30 cm thick fast ice in southern bays. Along the coast southeast of Åmal, there is very close, 5–15 cm thick ice. At sea, there

mostly open water.

With temperatures slightly above 0 °C some ice melt is possible but else no larger changes are 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,	2000 dwt	IB	17.01.

	Hudiksvall, Iggesund, Söderhamn, Orrskär and Norrsundet			
	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 and BALTICA assist 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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Estonia, 30.01.2024

Shipping route from Narva-Jõssuu	1///
Paernu, port and bay	8355
Irben Strait	1///
Moonsund	7353

Finland, 30.01.2024

Röyttä – Etukari	8446
Etukari – Ristinmatala	7476
Ajos – Ristinmatala	7476
Ristinmatala – Kemi 2	5476
Kemi 2 – Kemi 1	5476
Sea area SW of Kemi 1	5476
Kemi 2 – Ulkokrunni – Virpiniemi	7476
Oulu harbours – Kattilankalla	8446
Kattilankalla – Oulu 1	7476
Sea area SW of Oulu 1	5476
High Sea N of the latitude of Marjaniemi	5476
Raahe harbour – Heikinkari	6856
Heikinkari – Raahe lighthouse	6856
Raahe lighthouse – Nahkiainen	6856
Latitude Marjaniemi – Ulkokalla, Sea	5476
Rahja harbour – Välimatala	7876
Vaelimatala to line Ulkokalla – Ykskivi	5476
Sea betw. lat. of Ulkokalla –Pietarsaari	5476
Ykspihlaja – Repskär	8846
Repskär – Kokkola lighthouse	8846
Sea area off Kokkola lighthouse	3336

Pietarsaari – Kallan	8846
Sea area off Kallan	8846
Sea lat. Pietarsaari – NE Nordvalen	2126
Sea area ENE of Nordvalen	2126
Sea area Nordvalen to W of Norrskär	0//6
Vaskiluoto – Ensten	7346
Ensten – Vaasa lighthouse	5346
Vaasa lighthouse – Norrskär	2126
Kaskinen – Sälgrund	8846
Sea area off Sälgrund	7746
High sea from N to latitude Yttergrund	0//6
Pori harb. to line Pori lighth. – Säppi	5746
Sea W of line Pori lighthouse – Säppi	0//6
Rauma, Harbour – Kylmäpihlaja	8846
Kylmäpihlaja – Rauma lighthouse	7746
Sea area W of Rauma lighthouse	0//6
The high sea S of the latitude of Rauma	0//6
Uusikaupunki harbour – Kirsta	8846
Kirsta – Isokari	8846
Isokari – Sandbäck	2126
Sea area off Sandbäck	2126
Sea area N of Sälskär	2125
Sea area N of Märket	0//5
Sea area W of Märket	0//5
Maarianhamina – Marhällan	8745
Naantali and Turku – Rajakari	8846
Rajakari – Lövskär	8846
Lövskär – Korra	8846

Korra – Isokari	8746	Sweden, 30.01.2024	
Lövskär – Berghamn	8746	Karlsborg – Malören	8546
Berghamn – Stora Sottunga	1106	Sea area off Malören	8446
Stora Sottunga – Ledskär	8746	Luleå – Björnklack	8446
Sea area at Rödhavn	1106	Björnklack – Farstugrunden	5476
Lövskär – Grisselborg	8746	E and SE of Farstugrunden	5476
Grisselborg – Norparskär	1106	Sandgrönn fairway	8446
Sea area at Vidskär	1106	Rödskallen – Norströmsgrund	8446
Hanko harbours – Hanko 1	3735	Haraholmen – Nygrån	8446
Sea area S of Hanko 1	1105	Sea area off Nygrån	2226
Hanko – Vitgrund	8742	Skelleftehamn – Gåsören	8446
Vitgrund – Utö	8745	Sea area off Gåsören	8446
Koverhar – Hästö Busö	8346	Sea area off Bjuröklubb	8446
Hästö Busö – Ajax	3736	Western Quark (W of Holmöarna)	5366
Inkoo a. Kantvik – sea area Porkkala	7756	Umeå – Väktaren	8446
Helsinki harbours – Harmaja	8346	Örnsköldsvik – Hörnskatan	8346
Harmaja – Helsinki lighthouse	1106	Hörnskatan – Skagsudde	8346
Fairway Helsinki – Porkkala – Rönnskär	8346	Sea area off Skagsudde	4236
Vuosaari harbour – Eestiluoto	8346	Fairway W of Ulvöarna	4236
Eestiluoto – Helsinki lighthouse	1106	Sea area E of Ulvöarna	2226
Porvoo harbours – Varlax	7756	Ångermanälven north Sandö Bridge	8344
Varlax – Porvoo lighthouse	5756	Ångermanälven south Sandö Bridge	8344
Valko Harbour – Täktarn	8346	Härnösand – Härnön	4234
Archipelago fairway Boistö – Glosholm	5756	Sundsvall – Draghallan	8346
Archipelago fairway Glosholm–Helsinki	7756	Hudiksvallfjärden	8346
Kotka – Viikari	8346	Iggesund – Agö	8346
Viikari – Orregrund	7356	Sandarne – Hällgrund	8346
Orregrund – Tiiskeri	2726	Ljusnefjärden – Storjungfrun	8346
Tiiskeri – Kalbådgrund	0//6	Gävle – Eggegrund	8346
Hamina – Suurmusta	8346	Öregrundsgrepen	8246
Suurmusta – Merikari	7356	Hallstavik – Svartklubben	8246
Merikari – Kaunissaari	5356	Trälhavet – Furusund – Kapellskär	8246
		Stockholm – Trälhavet – Klövholmen	8246
Latvia, 28.01.2024		Klövholmen – Sandhamn	8246
Port of Riga	1000	Köping – Kvicksund	8344
Riga to the Cape of Mersrags, fairway	1000	Västerås – Grönsö	8344
		Grönsö – Södertälje	8344
Norway, 30.01.2024		Stockholm – Södertälje	8344
Svinesund – Halden	33//	Södertälje – Fifong	8244
Mossesund	9836	Norrköping – Hargökalv	8246
Drammensfjord	9955	Hargökalv – Vinterklasen – N Kränkan	3126
Tønsberg, inner harbour	82/3	Järnverket-Lillhammaren – N Kränkan	3226
Vestfjord (Tønsberg)	82/3	Västervik – Marshalmen – Idö	5246
Larviksfjorden (Stavern – Larvik)	121/	Blå Jungfrun – Kalmar	5136
Langårsund (Kragerø)	8248	Kalmar – Utgrunden	2126
		Uddevalle – Stenungsund	4136
Russian Federation, 30.01.2024		Vänernborgsviken	8346
Port of St. Petersburg	89//	Fairway through Lurö archipelago	5256
St. Petersburg – E-point island Kotlin	89//	Fairway to Gruvön	8346
E-point Kotlin – long. lighth. Tolbuhkin	89//	Fairway to Karlstad	8346
Lighth. Tolbuhkin – lighth. –Šepelevskij	53//	Fairway to Kristinehamn	8346
Lighthouse Šepelevskij – island Sescar	53//	Fairway to Otterbäcken	8346
Island Sescar – Island Sommers	52//	Fairway to Lidköping	8346
Vyborg, port and bay	83//		
Island Vichrevoj – Island Sommers	53//		
Strait Bjerkesund	82//		
E-point Bol'šoj Ber'ozovyj – Šepelevskij	53//		
Appr. Luga bay – line Moš.-Šepel.	21//		