

Eisbericht Nr. 50

Amtsblatt des BSH

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Friday, 26.01.2024

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Übersicht

In der Bottenwiek befindet sich in den nördlichen Schären bis 60 cm dickes, in den südlichen bis 40 cm dickes Festeis. Außerhalb des Festeises befinden sich kleine Rinnen im Norden sowie dichtes Eis entlang der südlichen Küsten. Ansonsten treibt auf See zumeist 20–50 cm dickes, sehr dichtes Eis, örtlich aufgesprengt und übereinandergeschoben. An den Küsten von Norra Kvarken liegt bis 40 cm dickes Festeis und auf See treibt 5–40 cm dickes, dichtes 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 lockeres Eis. Das Schärenmeer ist mit ebenen 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. Außerhalb der nördlichen Küste treibt lockeres Eis. Im Rigaischen Meerbusen kommt im Nordosten bis zu 35 cm dickes Festeis vor und entlang der nördlichen Küste treibt sehr dichtes bis lockeres Treibeis. Ansonsten kommt im Mälaren, Vänern und norwegischen Fjorden etwas dickeres Eis vor. Dünnere Eis, Neueis oder Resteis ist in geschützten Bereichen örtlich bis in den Skagerrak zu finden.

Overview

In the Bay of Bothnia there is fast ice in the archipelagos, up to 60 cm thick in the north and up to 40 cm thick in the south. Outside the fast ice some smaller leads in the north and close ice along the southern coasts. Else at sea there is mostly 20–50 cm thick, very close, partly ridged and rafted ice. In the Quark there is up to 40 cm thick fast ice at the coasts and at sea there is 5–40 cm thick close 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 there is open ice in the east. 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 and open ice off the northern coast. 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 to open drift ice. Else thicker ice is present in the Mälaren, Vänern and Norwegian fjords and thin ice, new ice or ice remnants are found in some sheltered areas all the way to the Skagerrak.

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 25–40 cm thick in the southern part. In the northeast the fast ice stretches out to Malören, Kemi-3, Oulu-3 and Raahe. Outside the

northern fast ice, with adjoining smaller areas of very close ice, there are narrow leads covered by new ice. At sea there is mostly 20–50 cm thick, very close, ridged and rafted ice. Along the Finnish coast south of Raahe and the Swedish coast south of Skellefteå there is close drift ice 10–40 cm thick.

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

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With moderate frost increasing continuously to temperatures around 0 °C on Sunday ice growth and ice formation will cease during the weekend.

The Quark

There is 20–40 cm thick fast ice in the Vaasa archipelago out to Ensten. Along the Swedish coast there is up to 30 cm thick fast ice. At sea, there is 5–40 cm thick, close ice north of about 63°10'N. With temperatures increasing from light frost to

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 15–25 cm thick fast ice. Off the Finnish coast is a 5–15 NM wide band with 5–30 cm thick, close ice and new ice.

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 5–15 cm thick, level 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.

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

Gulf of Finland

From St. Petersburg to past Kotlin there is 30–40 cm thick fast ice. Further out is very close, 15–30 cm thick ice to about 27°45'E. In Luga Bay and Narva Bay, there is open, 3–20 cm thick drift ice. In Kunda Bay there is open water. 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

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 first very open ice and about 10 NM off the coast a band of close drift ice. In the Bay of Pärnu, there is 25–35 cm thick fast ice to the line Liu – Tahkuranna followed by very close to open ice to about the

Central Baltic

Thin level ice is present along the Swedish coast. In the Kalmarsund there is close to very open ice in the central part. New ice is present at few places

Southeastern Baltic

Mostly 15–20 cm thick, very close ice with some open water along the western coast and southwestern part is present in the Curonian Lagoon. In Vistula Lagoon some very close thin ice is pre-

The ice will drift to the north/northeast with a fresh to strong breeze from the south/southwest.

slightly above 0°C in the course of the weekend, some ice formation and ice growth is expected in the start of the weekend. The ice will drift to the north/northeast with a fresh to strong breeze from the south/southwest.

With mostly light frost and increasing temperatures to slightly above 0 °C in the course of the weekend some ice formation especially in the east is possible in the beginning of the weekend. With a mostly fresh breeze from the south the ice will drift northwards.

With initial light frost but increasing temperatures to slightly above 0 °C in the east, some ice formation may occur along the coast. Elsewhere with temperatures around to slightly above 0 °C no larger changes are expected.

out.

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

thick in the west and up to 45 cm thick in the east. Further out, there is open drift ice to about the line Kanko-1 – Helsinki lighthouse – slightly north of Gogland.

With mostly light frost some ice formation is expected. From Sunday temperatures will increase to around 0°C. The ice will drift increasingly to the north/northeast.

line Kihnu – Salacgriva. Slightly further out is open drift ice. In the port of Riga there is open water. Until Sunday some ice formation may occur with mostly light frost. On Sunday temperatures will increase to slightly above 0°C. The ice will drift in northerly directions over the weekend.

along the coasts of Öland and around Gotland. With temperatures above 0°C some ice melt is expected over the weekend.

sent in the northeast and south and elsewhere is open water.

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

Southern Baltic

Some thin ice is present along the coast from Karlshamn to Karlskrona.

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

Skagerrak, Kattegat, Belts and Sound

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

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 ice. At sea, there is very open

ice. With temperatures mostly slightly above 0 °C some ice melt is possible over the weekend 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	1600 kW	1C (Lloyd's)	22.12.
	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, Turku and Mussalo	2000 dwt	I	23.01.
	Mussalo	2000 dwt	IB	29.01.
	Helsinki and Sköldvik	2000 dwt	II	09.12.
	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	I	07.01.
	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 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, 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.

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. ALE and EMBLA 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), 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, 26.01.2024

Shipping route from Narva-Jõssuu	3011
Kunda, port and bay	1///
Paernu, port and bay	8355
Shipp. route from Paernu to Irben Strait	1//0
Irben Strait	3011
Moonsund	7353

Finland, 26.01.2024

Röyttä – Etukari	8446
Etukari – Ristinmatala	7376
Ajos – Ristinmatala	7376
Ristinmatala – Kemi 2	5376
Kemi 2 – Kemi 1	5476
Sea area SW of Kemi 1	5476
Kemi 2 – Ulkokrunni – Virpiniemi	7376
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	8446

Rahja harbour – Välimatala	7856
Vaelimatala to line Ulkokalla – Ykskivi	4856
Sea betw. lat. of Ulkokalla –Pietarsaari	5476
Ykspihlaja – Repskär	8846
Repskär – Kokkola lighthouse	7856
Sea area off Kokkola lighthouse	4856
Pietarsaari – Kallan	8846
Sea area off Kallan	7856
Sea lat. Pietarsaari – NE Nordvalen	5476
Sea area ENE of Nordvalen	4356
Sea area Nordvalen to W of Norrskär	4756
Vaskiluoto – Ensten	8846
Ensten – Vaasa lighthouse	2756
Vaasa lighthouse – Norrskär	4756
Sea area SW of Norrskär	4756
Kaskinen – Sälgrund	8846
Sea area off Sälgrund	7776
High sea from N to latitude Yttergrund	3156
Pori harb. to line Pori lighth. – Säppi	5776
Sea W of line Pori lighthouse – Säppi	3156
High sea betw. lat. Yttergrund a. Rauma	3156

Rauma, Harbour – Kylmäpihlaja	8846	Norway, 26.01.2024	
Kylmäpihlaja – Rauma lighthouse	8846	Svinesund – Halden	33//
Sea area W of Rauma lighthouse	3156	Mossesund	9956
Uusikaupunki harbour – Kirsta	8846	Drammensfjord	9955
Kirsta – Isokari	8846	Tønsberg, inner harbour	82/3
Isokari – Sandbäck	3156	Vestfjord (Tønsberg)	82/3
Sea area off Sandbäck	5146	Larviksfjorden (Stavern – Larvik)	121/
Sea area N of Sälskär	2115	Langårsund (Kragerø)	8248
Sea area N of Märket	0//5		
Sea area W of Märket	0//5	Russian Federation, 26.01.2024	
Maarianhamina – Marhällan	5145	Port of St. Petersburg	89//
Sea area off Nyhamn and Marhällan	2025	St. Petersburg – E-point island Kotlin	89//
Sea area S of Långskär	2025	E-point Kotlin – long. lighth. Tolbukhin	88//
Naantali and Turku – Rajakari	8846	Lighth. Tolbukhin – lighth. –Šepelevskij	53//
Rajakari – Lövskär	8846	Lighthouse Šepelevskij – island Sescar	53//
Lövskär – Korra	8846	Island Sescar – Island Sommers	32//
Korra – Isokari	5146	Vyborg, port and bay	83//
Lövskär – Berghamn	5146	Island Vichrevoj – Island Sommers	53//
Berghamn – Stora Sottunga	2026	Strait Bjerkesund	82//
Stora Sottunga – Ledskär	5146	E-point Bol'šoj Ber'ozovyj – Šepelevskij	53//
Sea area at Rödhamn	2026	Appr. Luga bay – line Moš.-Šepel.	11//
Lövskär – Grisselborg	5146		
Grisselborg – Norparskär	2026	Sweden, 26.01.2024	
Sea area at Vidskär	2026	Karlsborg – Malören	8546
Utö – Suomen Leijona	2026	Sea area off Malören	8446
Hanko harbours – Hanko 1	5145	Luleå – Björnklack	8446
Sea area S of Hanko 1	3735	Björnklack – Farstugrunden	5476
Hanko – Vitgrund	5142	E and SE of Farstugrunden	5476
Vitgrund – Utö	5145	Sandgrönn fairway	8446
Koverhar – Hästö Busö	8346	Rödcallen – Norströmsgrund	8446
Hästö Busö – Ajax	3736	Haraholmen – Nygrån	8446
Sea area S of Ajax	3736	Sea area off Nygrån	5476
Inkoo a. Kantvik – sea area Porkkala	8346	Skelleftehamn – Gåsören	8346
Sea area at Porkkala	2736	Sea area off Gåsören	8346
Sea area S of Porkkala lighthouse	2736	Sea area off Bjuröklubb	8346
Helsinki harbours – Harmaja	8345	NE of Nordvalen	4456
Harmaja – Helsinki lighthouse	2735	SW of Nordvalen	4456
Helsinki lighth. – sea S of Porkkala lh.	2735	Western Quark (W of Holmöarna)	4356
Fairway Helsinki – Porkkala – Rönnskär	8345	Umeå – Väktaren	4356
Vuosaari harbour – Eestiluoto	8345	SE of Väktaren	4356
Eestiluoto – Helsinki lighthouse	2735	NE and SE of Sydostbrotten	4356
Porvoo harbours – Varlax	8345	Fairway to Husum	4356
Varlax – Porvoo lighthouse	3735	Örnsköldsvik – Hörnskatan	8346
Porvoo lighthouse – Kalbådagrund	3735	Hörnskatan – Skagsudde	8346
Sea Kalbådagrund – Helsinki lighthouse	3735	Sea area off Skagsudde	4356
Valko Harbour – Täktarn	7756	Fairway W of Ulvöarna	5146
Archipelago fairway Boistö – Glosholm	5746	Sea area E of Ulvöarna	3226
Archipelago fairway Glosholm–Helsinki	7755	Ångermanälven north Sandö Bridge	8344
Kotka – Viikari	8346	Ångermanälven south Sandö Bridge	8344
Viikari – Orregrund	7756	Härnösand – Härnön	5244
Orregrund – Tiiskeri	3736	Sea area off Härnön	3226
Tiiskeri – Kalbådagrund	3736	Sundsvall – Draghällan	8346
Hamina – Suurmusta	8346	Draghällan – Åstholmsudde	5146
Suurmusta – Merikari	7756	Off Åstholmsudde and Brämön	1006
Merikari – Kaunissaari	3736	Hudiksvallfjärden	8346
		Iggesund – Agö	8346
Latvia, 26.01.2024		Sandarne – Hällgrund	8346
Port of Riga	1000	Ljusnefjärden – Storzjungfrun	8346
Riga to the Cape of Mersrags, fairway	1000	Gävle – Eggegrund	8346
Port of Liepaya	1000	Öregrundsgrepen	8246

Hallstavig – Svartklubben	8246
Trälhavet – Furusund – Kapellskär	8246
Stockholm – Trälhavet – Klövholmen	8246
Klövholmen – Sandhamn	4046
Trollharan – Langgarn	4046
Mysingen	4046
Köping – Kvicksund	8344
Västerås – Grönsö	8344
Grönsö – Södertälje	8344
Stockholm – Södertälje	8344
Södertälje – Fifong	8244
Fifong – Landsort	8246
Norrköping – Hargökalv	8246
Hargökalv – Vinterklasen – N Kränkan	5246
Oxelösund harbour	5136
Järnverket-Lillhammaren – N Kränkan	8246
Västervik – Marsholmen – Idö	5246
Blå Jungfrun – Kalmar	3026
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Fairway through Lurö archipelago	5256
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