

Eisbericht Nr. 49

Amtsblatt des BSH

Jahrgang 97

Nr. 49

Thursday, 25.01.2024

1

Übersicht

In der Bottenwiek befindet sich in den nördlichen Schären bis 60 cm dickes, in den südlichen bis 40 cm dickes Festeis. Außerhalb des Festeis kleine Rinnen im Norden, lockeres Eis im Westen und Dichtes Eis im Osten. Ansonsten treibt auf See zumeist 20–50 cm dickes, sehr dichtes Eis, örtlich aufgepresst und übereinandergeschoben. An den Küsten von Norra Kvarken liegt bis 40 cm dickes Festeis und auf See treibt 5-40cm dickes, lockeres bis dichtes Eis. An den Küsten der Bottensee kommt im Osten bis 40 cm und im Westen bis 25 cm dickes Festeis vor. Davor treibt im Westen meist sehr lockeres Eis und im Osten ein 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. Im Rigaischen Meerbusen kommt im Nordosten bis zu 35 cm dickes Festeis vor und entlang der nördlichen Küste treibt sehr dichtes Treibeis. Ansonsten kommt im Mälaren, Vänern und Norwegischen Fjords etwas dickeres Eis vor. Dünnes 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, open ice in the west and close ice in the east. 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 5-30cm thick open to close ice. At the coasts of the Sea of Bothnia there is fast ice, up to 40 cm thick in the east and up to 25 cm thick in the west. Further out there is very open ice in the west and an 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. 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 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. Further south there is an about 5nm wide region with open ice outside the Swedish side south of 65°N and outside on the Finnish side there is an about 10nm wide area of 20-40cm thick

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

www.bsh.de/eis

www.bsh.de/ice

© BSH - Alle Rechte vorbehalten
Nachdruck, auch auszugsweise, verboten

Eisankünfte / Ice Information

Telefon: +49 (0) 381 4563 -780

Telefax: +49 (0) 381 4563 -949

E-Mail: ice@bsh.de

© BSH - All rights reserved
Reproduction in whole or in part prohibited

close ice south of Raahe. At Sea, there is mostly very close, ridged and rafted, 20–50 cm thick drift ice.

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 10–40 cm thick close ice north of the line

Sea of Bothnia

Along the coasts there is mostly fast ice in the inner bays; 15–40 cm thick in the east and 5–30 cm thick in the west. On Ångermanälven, there is 15–25 cm thick fast ice. Outside the Swedish coast there is a wide band of 5-15cm thick very open 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

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, partly rafted 15–30 cm thick ice to about the line Šepelevskij – Seskar – Kotka. Further west to about Moščnyj, there is open drift ice. From Šepelevskij to Narva there is 5-20cm thick close ice just outside the coast. 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.

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. Along the southern coast of Saaremaa there is a band of very close ice. In the Bay of Pärnu, there is 25–35 cm thick fast ice to the line Liu – Tahku-

Central Baltic

Thin level ice is present along the Swedish coast. In the Kalmarsund there is very close, thin ice south of Kalmar and very open ice slightly further north. New ice is present at few places along the

Southeastern Baltic

15–20cm thick fast ice covers the Curonian Lagoon and thin open to very close ice covers the Vistula Lagoon.

Southern Baltic

New ice is present in the archipelagos along the Swedish coast. Around Karlskrona there is some thin level ice.

With strong frost and light winds, ice formation and ice growth will occur.

Valasaaret to Nordvalen and open ice and new ice further south and west.

With moderate to string frost and light winds, ice formation and growth is expected.

Off the Finnish coast is a 5–15 NM wide band with first some areas of 5-30cm thick, very close ice and then open ice and new ice further out.

With light to moderate frost some ice formation is expected.

Islands. In the Åland Sea there is 5–15 cm thick fast or level ice in bays along the coast.

With light frost some ice formation may occur.

out.

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

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 a band of very close ice with a brash ice barriers at places. In the southwest there is very open ice stretching along the coast from Paldiski to Väinameri.

With temperatures decreasing from 0°C to -10°C ice formation will start again.

ranna followed by very close, partly ridged ice to a line from southern point of Kihnu to Kabli. In the port of Riga there is open water.

With temperatures slowly decreasing ice formation may start again.

coasts of Öland and around Gotland.

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

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

With expected temperatures 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 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.

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 around 0 °C 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.
	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, Degerhamn, 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 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), 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: 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>
--	--

Estonia, 25.01.2024

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

Raahe lighthouse – Nahkiainen	5456
Latitude Marjaniemi – Ulkokalla, Sea	5476
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	5876
Sea area ENE of Nordvalen	4746
Sea area Nordvalen to W of Norrskär	4746
Vaskiluoto – Ensten	8346
Ensten – Vaasa lighthouse	4746
Vaasa lighthouse – Norrskär	4746
Sea area SW of Norrskär	1306
Kaskinen – Sälgrund	8346
Sea area off Sälgrund	5746
Pori harb. to line Pori lighth. – Säppi	5776

Finland, 25.01.2024

Röyttä – Etukari	8446
Etukari – Ristinmatala	6346
Ajos – Ristinmatala	6846
Ristinmatala – Kemi 2	5356
Kemi 2 – Kemi 1	5356
Sea area SW of Kemi 1	5356
Kemi 2 – Ulkokrunni – Virpiniemi	7356
Oulu harbours – Kattilankalla	8446
Kattilankalla – Oulu 1	7356
Sea area SW of Oulu 1	5356
High Sea N of the latitude of Marjaniemi	5476
Raahe harbour – Heikinkari	8446
Heikinkari – Raahe lighthouse	6856

Sea W of line Pori lighthouse – Säppi	4046	Björnklack – Farstugrunden	5476
Rauma, Harbour – Kymäpihlaja	8846	E and SE of Farstugrunden	5476
Kymäpihlaja – Rauma lighthouse	7746	Sandgrönn fairway	8446
Sea area W of Rauma lighthouse	3156	Rödkallen – Norströmsgrund	8446
Uusikaupunki harbour – Kirsta	8846	Haraholmen – Nygrån	8446
Kirsta – Isokari	7746	Sea area off Nygrån	5476
Isokari – Sandbäck	3136	Skelleftehamn – Gåsören	8346
Sea area N of Sälskär	5145	Sea area off Gåsören	8346
Sea area N of Märket	2005	Sea area off Bjuröklubb	8346
Sea area W of Märket	2005	NE of Nordvalen	4456
Maarianhamina – Marhällan	5145	SW of Nordvalen	4456
Naantali and Turku – Rajakari	8846	Western Quark (W of Holmöarna)	3356
Rajakari – Lövskär	8846	Umeå – Väktaren	3356
Lövskär – Korra	8846	SE of Väktaren	3356
Korra – Isokari	5746	NE and SE of Sydostbrotten	3356
Lövskär – Berghamn	5146	Fairway to Husum	3356
Berghamn – Stora Sottunga	1006	Örnsköldsvik – Hörnskatan	8346
Stora Sottunga – Ledskär	5146	Hörnskatan – Skagsudde	8346
Sea area at Rödhamn	1006	Sea area off Skagsudde	3356
Lövskär – Grisselborg	5146	Fairway W of Ulvöarna	5146
Grisselborg – Norparskär	1006	Sea area E of Ulvöarna	3226
Hanko harbours – Hanko 1	5765	Ångermanälven north Sandö Bridge	8344
Hanko – Vitgrund	5142	Ångermanälven south Sandö Bridge	8344
Vitgrund – Utö	5145	Härnösand – Härnön	5244
Koverhar – Hästö Busö	7766	Sea area off Härnö	2226
Hästö Busö – Ajax	5766	Sundsvall – Draghällan	8346
Inkoo a. Kantvik – sea area Porkkala	7766	Draghällan – Åstholmsudde	5146
Helsinki harbours – Harmaja	7765	Off Åstholmsudde and Brämön	2226
Harmaja – Helsinki lighthouse	5765	Hudiksvallfjärden	8346
Fairway Helsinki – Porkkala – Rönnskär	7765	Iggesund – Agö	8346
Vuosaari harbour – Eestiluoto	7765	Sea area off Agö	2226
Eestiluoto – Helsinki lighthouse	5765	Sandarne – Hällgrund	8346
Porvoo harbours – Varlax	8745	Sea area off Hällgrund	2226
Varlax – Porvoo lighthouse	5765	Ljusnefjärden – Storjungfrun	8346
Valko Harbour – Tåktarn	8346	Sea area off Storjungfrun	2226
Archipelago fairway Boistö – Glosholm	5766	Gävle – Eggegrund	8346
Archipelago fairway Glosholm–Helsinki	7765	Sea area off Eggegrund	2226
Kotka – Viikari	8346	Sea area off Orskär	2226
Viikari – Orregrund	7766	Öregrundsgrepen	8246
Orregrund – Tiiskeri	5766	Passage at Grundkallen	2226
Hamina – Suurmusta	8346	Passage at Understen	2226
Suurmusta – Merikari	7766	Hallstavik – Svartklubben	8246
Merikari – Kaunissaari	5766	Trälhavet – Furusund – Kapellskär	8246
		Kapellskär – Söderarm	4046
Latvia, 25.01.2024		Stockholm – Trälhavet – Klövholmen	8246
Port of Riga	1000	Klövholmen – Sandhamn	4046
		Trollharan – Langgarn	4046
Norway, 25.01.2024		Mysingen	4046
Svinesund – Halden	33//	Köping – Kvicksund	8344
Mossesund	9956	Våsterås – Grönsö	8344
Drammensfjord	9955	Grönsö – Södertälje	8344
Tønsberg, inner harbour	82/3	Stockholm – Södertälje	8344
Vestfjord (Tønsberg)	82/3	Södertälje – Fifong	8244
Larviksfjorden (Stavern – Larvik)	121/	Fifong – Landsort	8246
Langårsund (Kragerø)	8248	Norrköping – Hargökalv	8246
		Hargökalv – Vinterklasen – N Kränkan	5246
Sweden, 25.01.2024		Oxelösund harbour	5136
Karlsborg – Malören	8546	Järnverket-Lillhammaren – N Kränkan	8246
Sea area off Malören	8446	Västervik – Marsholmen – Idö	5246
Luleå – Björnklack	8446	Blå Jungfrun – Kalmar	5136

Kalmar – Utgrunden	5136
Uddevalla – Stenungsund	4136
Stenungsund – Hätteberget	5046
Vänersborgsviken	8346
Fairway through Lurö archipelago	5256
Fairway to Gruvön	8346
Fairway to Karlstad	8346
Fairway to Kristinehamn	8346
Fairway to Otterbäcken	8246
Fairway to Lidköping	8346

Russian Federation, 25.01.2024

Port of St. Petersburg	89//
St. Petersburg – E-point island Kotlin	89//
E-point Kotlin – long. lighth. Tolbuhkin	88//
Lighth. Tolbuhkin – lighth. –Šepelevskij	53//
Lighthouse Šepelevskij – island Sescar	53//
Island Sescar – Island Sommers	32//
Vyborg, port and bay	83//
Island Vichrevoj – Island Sommers	53//
Strait Bjerkesund	82//
E-point Bol'šoj Ber'ozovyj – Šepelevskij	53//
Luga bay	42//
Appr. Luga bay – line Moš.-Šepel.	21//