



Eisbericht Nr. 62

Amtsblatt des BSH

Jahrgang 97

Nr. 62

Tuesday, 13.02.2024

1

Übersicht

In der Bottenwiek befindet sich in den nördlichen Schären bis 60 cm dickes, in den südlichen bis 50 cm dickes Festeis. Auf See treibt im Nordosten zumeist 20–50 cm dickes, sehr dichtes Eis, örtlich aufgepresst, übereinandergeschoben und teilweise schwer zu passieren. Im Süden treibt auf See 5–30 cm dickes, sehr dichtes Eis. An den Küsten von Norra Kvarken liegt bis 50 cm dickes Festeis und auf See treibt meist 5–30 cm dickes, dichtes bis sehr dichtes Eis. An den Küsten der Bottensee kommt im Osten bis 55 cm und im Westen bis 30 cm dickes Festeis vor. Auf See treibt im Norden lockeres bis sehr dichtes, 2–15 cm dickes Eis und im Süden kommt meist offenes Wasser vor. Das Schärenmeer ist größtenteils mit ebenem Eis oder Festeis bedeckt. Im Osten und Norden des Finnischen Meerbusens liegt bis 50 cm dickes Festeis und östlich 27°E treibt auf See sehr dichtes, bis 35 cm dickes Eis und westlich davon dichtes 3–20 cm dickes Eis oder Neueis bis etwa 24°30'E. Im Rigaischen Meerbusen kommt an der nordöstlichen Küste zu 35 cm dickes Festeis vor und auf See treibt im Norden sehr lockeres bis sehr dichtes Eis. Ansonsten kommt im Mälaren, Vänern, norwegischen Fjorden und entlang der schwedischen Küste nördlich von Kalmar bis 30 cm dickes Festeis oder ebenes 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 50 cm thick in the south. At sea in the northeast, there is mostly 20–50 cm thick, very close, partly ridged and rafted ice that is difficult to force at places. At sea in the south there is 5–30 cm thick very close ice. In the Quark there is up to 50 cm thick fast ice at the coasts and at sea there is mostly 5–30 cm thick close to very close ice. At the coasts of the Sea of Bothnia there is fast ice, up to 55 cm thick in the east and up to 30 cm thick in the west. At sea there open to very close, 2–15 cm thick ice in the north and mostly open water in the south. Level ice or fast ice covers large parts of the Archipelago Sea. There is up to 50 cm thick fast ice at the eastern and northern coast of the Gulf of Finland. At sea there is up to 35 cm thick very close ice east of 27° and further west there is close, 3–20 cm thick ice or new ice to about 24°30'E. In the Gulf of Riga there is up to 35 cm thick fast ice at the coast in the northeast and at sea there is very open to very close ice in the north. Else up to 30 cm thick fast ice or level ice is present in the Mälaren, Vänern, Norwegian fjords and the along the Swedish coast north of Kalmar.

Bay of Bothnia

In the archipelagos of the Bay of Bothnia there is fast ice with some consolidated ice further out; 35–60 cm thick in the north and up to 25–50 cm thick in the southern part. In the northeast the fast ice

stretches out to Malören, Kemi-3, Oulu-3 and Raahe lighthouse. In the north and east runs a lead covered with 5–20 cm thick level ice past Malören – Kemi-1 – Merikallat to off Raahe and further to

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

the Quark. At sea in the northeast, up to a line from about Ulkokalla to Norströmsgrund, there is 20–50 cm thick, very close, ridged and rafted ice. The ice field is difficult to force at places. Further towards the southwest there is an area with 20–40 thick, very close drift ice. Else at sea there is mostly 5–30 cm thick very close ice with level ice at

The Quark

There is 35–55 cm thick fast ice in the Vaasa archipelago out to Ensten followed by 10–30 cm thick very close ice to Norrskär. Along the Swedish coast there is up to 40 cm thick fast ice. At

Sea of Bothnia

Along the coasts there is mostly fast ice in the inner bays; 20–55 cm thick in the east and 5–30 cm thick in the west. On Ångermanälven, there is 15–30 cm thick fast ice. At sea north of about 62°N there is close to very close 3–15 cm thick drift ice west of about 20°00'E and open, 2–8 cm thick ice in the east. In the southern part, there is a wide

Archipelago Sea and Åland Sea

In the Archipelago Sea there is 15–50 cm thick fast ice in the inner archipelago of the Finnish coast. Mostly 10–30 cm thick, level or fast ice with new ice and ice formation are present in the outer archipelagos to the Åland Islands. In the Åland Sea there is 5–20 cm thick fast or level ice in bays

Northern Baltic

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

Gulf of Finland

Along the northern coast there is fast ice in the archipelago, 10–30 cm thick in the west and up to 55 cm thick in the east. In the Vyborg Bay there is 30–40 cm thick fast ice and in the Bjerkesund there is 25–35 cm thick fast ice. From St. Petersburg to the longitude of lighthouse Tolbuchin there is 35–45 cm thick fast ice. Further out there is 10–

Gulf of Riga

In Väinameri there is 25–40 cm thick fast ice near the coasts and very close, 10–30 cm thick ice at sea. Off the south coast of Saaremaa is first very close, 5–20 cm thick ice followed by close ice. In the Bay of Pärnu, there is 25–35 cm thick fast ice. Further out there is very close, 5–20 cm thick ice to

Central Baltic

Thin level ice is present at places along the Swedish coast.

Southeastern Baltic

In the Curonian Lagoon, there are some ice remnants.

places. Along the southern Finnish coast consolidated brash ice is present in places off the fast ice edge.

With severe frost ice in the north formation and ice growth will continue. The ice will drift to the west/northwest.

sea there is 5–30 cm thick close to very close ice. With mostly moderate frost at sea, ice formation and ice growth will continue with a mostly westward ice drift.

band of 3–10 cm thick very close ice. In the east there is thin open ice and new ice off the coast. At sea in the south there is open water with stripes and patches at places.

With moderate frost in the north and east and light frost in the southwest new ice formation will continue. The ice will drift in westerly directions.

along the coast and open water at sea in the north. With light frost in the east to temperatures around 0°C in the west some ice formation and ice growth is possible in the eastern part. The ice will first drift in westerly directions and later with slightly to the north.

With temperatures around 0°C no larger change is expected.

35 cm thick very close ice or level ice to about Moščnyj and Gogland. Further west there is close, 3–20 cm thick ice, new ice and ice formation to about Helsinki lighthouse.

With moderate frost in the east and light frost in the west ice formation and ice growth will continue. The ice will drift to west/northwest.

about Kihnu. Else at sea in the northeast is very open ice with open ice at places and new ice.

With temperatures mostly around 0 °C no larger changes are expected but some easterly and later ceasing northerly ice drift.

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

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

Skagerrak and Kattegat

In some sheltered Norwegian fjords and bays is thin level ice or fast ice notably near Tønsberg, Kragerø, Svinesund, Mossesund and Drammensfjord. Along the Swedish coast of the Skager-

rak there is very open ice in some sheltered areas. With light frost in the northern part, some ice formation and ice growth is possible. But overall no larger change is expected.

Swedish Lakes

In Lake Vänern 10–30 cm thick fast ice is present at the coasts. In the Dalbosjön there is 10–20 cm thick, very close or level ice outside the coast with brash ice at the edge; still further out there is very open ice. In the Värmlandssjön there is level ice

outside the northern fast ice. In the south there is open to close ice and open water elsewhere. With temperatures around 0°C and light frost in the northern part some ice formation is possible but overall no larger changes with only light winds.

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.
	Rauma	2000 dwt	IB	14.02.
	Pori	2000 dwt	IB	17.02.
	Kaskinen and Kristiinankaupunki	2000 dwt	IB	23.01.
	Kaskinen and Kristiinankaupunki	2000 dwt	IA	17.02.
	Uusikaupunki	2000 dwt	IA	11.02.
	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, Lapohja, Inkoo and Kantvik	2000 dwt	I	13.01.
	Taalintehdas and Förby	2000 dwt	IB	17.02.
	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, Haraholmen and Skelleftehamn	4000 dwt	IA	14.01.
	Rundvik, Husum and Örnköldsvik	2000 dwt	IB	17.01.
	Holmsund	2000 dwt	IB	04.01.
	Holmsund	2000 dwt	IA	17.02.
	Angermanälven	2000 dwt	IB	18.12.
	Angermanälven	2000 dwt	IA	17.02.
	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, ODEN, FREJ, POLARIS, KONTIO, SISU and URHO assist in the Bay of Bothnia. ATLE and OTSO assist in the southern Bay of Bothnia and in the Quark. ZEUS and BRAGE VIKING assist in the Sea of Bothnia. VOIMA, CALYPSO, FENNICA and NORDICA assist the Gulf of Finland. ALE assists in the Vänern.

Norway

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

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>
--	--

Finland, 13.02.2024

Röyttä – Etukari	8446	Repskär – Kokkola lighthouse	5476
Etukari – Ristinmatala	7446	Sea area off Kokkola lighthouse	9246
Ajos – Ristinmatala	7446	Pietarsaari – Kallan	7366
Ristinmatala – Kemi 2	5476	Sea area off Kallan	9246
Kemi 2 – Kemi 1	5476	Sea lat. Pietarsaari – NE Nordvalen	9246
Sea area SW of Kemi 1	9746	Sea area ENE of Nordvalen	5756
Kemi 2 – Ulkokrunni – Virpiniemi	7446	Sea area Nordvalen to W of Norrskär	5756
Oulu harbours – Kattilankalla	8446	Vaskiluoto – Ensten	8446
Kattilankalla – Oulu 1	7446	Ensten – Vaasa lighthouse	5356
Sea area SW of Oulu 1	9746	Vaasa lighthouse – Norrskär	5756
High Sea N of the latitude of Marjaniemi	5476	Sea area SW of Norrskär	5146
Raahe harbour – Heikinkari	8446	Kaskinen – Sälgrund	8446
Heikinkari – Raahe lighthouse	8446	Sea area off Sälgrund	7756
Raahe lighthouse – Nahkiainen	9746	High sea from N to latitude Yttergrund	5146
Latitude Marjaniemi – Ulkokalla, Sea	5476	Pori harb. to line Pori lighth. – Säppi	5366
Rahja harbour – Välimatala	8446	Sea W of line Pori lighthouse – Säppi	3136
Vaelimatala to line Ulkokalla – Ykskivi	5746	High sea betw. lat. Yttergrund a. Rauma	3016
Sea betw. lat. of Ulkokalla –Pietarsaari	5356	Rauma, Harbour – Kylmäpihlaja	7766
Ykspihlaja – Repskär	8846	Kylmäpihlaja – Rauma lighthouse	5246
		Sea area W of Rauma lighthouse	3136

The high sea S of the latitude of Rauma	1006	Skåtøysund (Kragerø)	4001
Uusikaupunki harbour – Kirsta	8846	Langårsund (Kragerø)	8248
Kirsta – Isokari	7766		
Isokari – Sandbäck	3126	Russian Federation, 13.02.2024	
Sea area off Sandbäck	3016	Port of St. Petersburg	89//
Sea area N of Sälskär	3015	St. Petersburg – E-point island Kotlin	89//
Sea area N of Märket	1005	E-point Kotlin – long. lighth. Tolbuhkin	89//
Sea area W of Märket	1005	Lighth. Tolbuhkin – lighth. –Šepelevskij	53//
Sea area S of Märket	1005	Lighthouse Šepelevskij – island Sescar	53//
Maarianhamina – Marhällan	2725	Island Sescar – Island Sommers	53//
Naantali and Turku – Rajakari	8846	Island Sommers– S-point island Gogland	42//
Rajakari – Lövskär	8846	S-point isl. Gogland – long. p. Kunda	42//
Lövskär – Korra	8346	Vyborg, port and bay	89//
Korra – Isokari	5245	Island Vichrevoj – Island Sommers	53//
Lövskär – Berghamn	8346	Strait Bjerkesund	89//
Berghamn – Stora Sottunga	5146	E-point Bol'šoj Ber'ozovyj – Šepelevskij	53//
Stora Sottunga – Ledskär	5746	Luga bay	53//
Sea area at Rödhamn	4046	Appr. Luga bay – line Moš.-Šepel.	53//
Lövskär – Grisselborg	8346		
Grisselborg – Norparskär	5146	Sweden, 12.02.2024	
Sea area at Vidskär	0//6	Karlsborg – Malören	8546
Hanko harbours – Hanko 1	0//5	Sea area off Malören	5476
Hanko – Vitgrund	8342	Luleå – Björnklack	8546
Vitgrund – Utö	4142	Björnklack – Farstugrunden	5476
Koverhar – Hästö Busö	8346	E and SE of Farstugrunden	5476
Hästö Busö – Ajax	2026	Sandgrönn fairway	8546
Inkoo a. Kantvik – sea area Porkkala	8346	Rödkaullen – Norströmsgrund	5456
Sea area at Porkkala	4046	Haraholmen – Nygrån	8546
Sea area S of Porkkala lighthouse	4046	Sea area off Nygrån	5456
Helsinki harbours – Harmaja	8346	Skelleftehamn – Gåsören	8446
Harmaja – Helsinki lighthouse	4746	Sea area off Gåsören	8446
Helsinki lighth. – sea S of Porkkala lh.	4746	Sea area off Bjuröklubb	5356
Fairway Helsinki – Porkkala – Rönnskär	5146	NE of Nordvalen	5356
Vuosaari harbour – Eestiluoto	8346	SW of Nordvalen	4356
Eestiluoto – Helsinki lighthouse	4046	Western Quark (W of Holmöarna)	5246
Porvoo harbours – Varlax	5146	Umeå – Väktaren	5246
Varlax – Porvoo lighthouse	4756	SE of Väktaren	5246
Porvoo lighthouse – Kalbådagrund	4756	NE and SE of Sydostbrotten	4356
Sea Kalbådagrund – Helsinki lighthouse	4756	Fairway to Husum	4356
Valko Harbour – Täktarn	8846	Örnköldsvik – Hörnskatan	8346
Archipelago fairway Boistö – Glosholm	5146	Hörnskatan – Skagsudde	8346
Archipelago fairway Glosholm–Helsinki	8346	Sea area off Skagsudde	4356
Kotka – Viikari	8346	Fairway W of Ulvöarna	8246
Viikari – Orregrund	4756	Sea area E of Ulvöarna	5146
Orregrund – Tiiskeri	5146	Ångermanälven north Sandö Bridge	8344
Tiiskeri – Kalbådagrund	4756	Ångermanälven south Sandö Bridge	8344
Hamina – Suurmusta	8346	Härnösand – Härnön	5144
Suurmusta – Merikari	8346	Sea area off Härnö	5144
Merikari – Kaunissaari	5146	Sundsvall – Draghällan	5146
		Draghällan – Ästholmsudde	5146
Latvia, 12.02.2024		Off Ästholmsudde and Brämön	5146
Port of Riga	1000	Hudiksvallfjärden	8346
		Iggesund – Agö	8346
Norway, 12.02.2024		Sea area off Agö	5146
Svinesund – Halden	33//	Sandarne – Hällgrund	8346
Mossesund	7046	Sea area off Hällgrund	4046
Drammensfjord	5354	Ljusnefjärden – Storjungfrun	8346
Tønsberg, inner harbour	82/3	Sea area off Storjungfrun	5146
Vestfjord (Tønsberg)	82/3	Gävle – Eggegrund	8346
Larviksfjorden (Stavern – Larvik)	121/	Sea area off Eggegrund	4046

Sea area off Orskär	4046
Öregrundsgrepen	8246
Passage at Grundkallen	1006
Passage at Understen	4046
Sea area off Svartklubben	4046
Hallstavig – Svartklubben	8346
Trälhavet – Furusund – Kapellskär	5146
Stockholm – Trälhavet – Klövholmen	5146
Klövholmen – Sandhamn	5146
Trollharan – Langgarn	5146
Köping – Kvicksund	8344
Västerås – Grönsö	8344
Grönsö – Södertälje	8344
Stockholm – Södertälje	8344
Södertälje – Fifong	8244
Fifong – Landsort	3126
Norrköping – Hargökalv	4046
Järnverket-Lillhammaren – N Kränkan	5246
Västervik – Marsholmen – Idö	5246
Uddevalla – Stenungsund	2126
Vänersborgsviken	5356
Fairway through Lurö archipelago	1106
Fairway to Gruvön	8346
Fairway to Karlstad	8346
Fairway to Kristinehamn	8346
Fairway to Otterbäcken	8346
Fairway to Lidköping	8346