



Eisbericht Nr. 90

Amtsblatt des BSH

Jahrgang 97

Nr. 90

Monday, 25.03.2024

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Übersicht

In der Bottenwiek befindet sich in den nördlichen Schären bis 75 cm dickes, in den südlichen bis 50 cm dickes Festeis. Im Nordosten verläuft außerhalb des Festeises eine Rinne. Auf See treibt im Norden zu meist 30–70 cm dickes, sehr dichtes, örtlich aufgepresstes und übereinandergeschobenes Eis, das teilweise schwer zu passieren ist. Weiter südlich treibt auf See zuerst sehr dichtes Eis, danach kommt dichtes Eis und außerhalb der Küsten offenes Wasser vor. An den Küsten von Norra Kvarken liegt bis 50 cm dickes Festeis; auf See treibt im Westen 10–50 cm dickes, dichtes Eis und ansonsten kommt offenes Wasser bis sehr dichtes Eis vor. An den Küsten der Bottensee kommt im Osten bis 55 cm und im Westen bis 30 cm dickes Festeis vor. Im Schärenmeer kommt Festeis und offenes Wasser vor. Im Osten und Norden des Finnischen Meerbusens liegt bis 55 cm dickes Festeis; auf See treibt im Norden 10–35 cm dickes Eis. Im Rigaischen Meerbusen kommt im Nordosten morsches Festeis vor und an den Küsten treibt örtlich Eis. Im Mälaren und Vänern kommt örtlich dünnes Eis und morsches Festeis vor.

Overview

In the Bay of Bothnia there is fast ice in the archipelagos, up to 75 cm thick in the north and up to 50 cm thick in the south. Outside the fast ice in the northeast there is lead. At sea in the north, there is mostly 30–70 cm thick, very close, ridged and rafted ice that is difficult to force at places. Further south there is first very close ice and later close ice with open water outside the coasts. In the Quark there is up to 50 cm thick fast ice at the coasts and at sea there is 10–50 cm thick, close ice in the west and else from open water to very close ice. At the coasts of the Sea of Bothnia there is fast ice, up to 55cm thick in the east and up to 30 cm thick in the west. Fast ice and open water is present in the Archipelago Sea. There is up to 55 cm thick fast ice at the eastern and northern coast of the Gulf of Finland. At sea in the north there is 5-35cm thick ice. In the northeastern Gulf of Riga there is rotten fast ice with some drifting ice outside the coast. In the Malären and Vänern there is thin ice or rotten fast ice at places.

Bay of Bothnia

In the archipelagos of the Bay of Bothnia there is fast ice; 45–75 cm thick in the north and up to 25–65 cm thick in the south. In the northeast the fast ice stretches out to Malören, Kemi-3, Oulu-3 and Raahe lighthouse and is followed by an new ice covered lead. At sea north of a line Simpgrundet to Kalajoki there is 40–70 cm thick, ridged and rafted, very close ice; the field is difficult to force at places

but several new ice covered leads are present in the field. Further south there is first 10-40cm thick very close ice to about the line Kokkola to Gasören, but very open ice outside the Finnish coast. Further south open water outside both coast and 5-25cm thick close ice stretching towards Holmöarna.

With light winds and moderate frost new ice for-

Herstellung und Vertrieb

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Eisankünfte / Ice Information

Telefon: +49 (0) 381 4563 -780

Telefax: +49 (0) 381 4563 -949

E-Mail: ice@bsh.de

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mation is expected

The Quark

There is 35–60 cm thick fast ice in the Vaasa archipelago out to Ensten. Along the Swedish coast there is up to 40 cm thick fast ice with adjacent consolidated ice. Off this ice, there is 10–50 cm thick, partly ridged, close ice from north of Högbonden to Sydostbrotten. At sea there is close

Sea of Bothnia

Along the coasts there is mostly fast ice in the inner bays; 20–55 cm thick in the east and 5–40 cm thick in the west. On Ångermanälven, there is 15–40 cm thick fast ice. Off the coast in the east

Archipelago Sea and Åland Sea

In the Archipelago Sea there is 25–40 cm thick fast ice in the inner archipelago of the Finnish coast. 10–30 cm thick, fast ice is present around the island of the outer archipelagos and the Åland Islands with open water in between. In the Åland

Northern Baltic

In Lake Mälaren there is 10–30 cm thick fast ice with mostly open water on the fairways. Along the outer Swedish coast there is open water and local-

Gulf of Finland

Along the northern coast there is fast ice in the archipelago, 10–40 cm thick in the west and up to 55 cm thick in the east. In the Vyborg Bay there is 30-40cm thick fast ice and in the Bjerkesund there is 20–30 cm thick fast ice; very close ice is present in both entrances. Off the northern fast ice, out to about 60°10'N, there is 10-35cm thick ice ranging from open ice to very close ice; east of about 27°30' there is ridged, 10-35cm thick very close

Gulf of Riga

In Väinameri there is rotten fast ice near the coast and else mostly open water or open ice. Off the south coast of Saaremaa there is a band with open to very close ice in the eastern part. In the Bay of

Central Baltic

In sheltered areas along the Swedish coast there is open water.

Swedish Lakes

In Lake Vänern rotten fast ice is present in the northern archipelagos. In the Dalbosjön there is 5–15 cm thick, very open to close ice at the north-

to very close ice between Valassaaret and Holmöarna and between Strömmingsbødan and Sydostbrotten; else mostly open water.

With light winds and light to moderate frost new ice formation is expected.

there is open water with single ice floes.

With mostly light frost, but also day temperatures above 0°C in the south, some ice formation at the coasts is expected.

Sea there is 5–20 cm thick, partly rotten fast ice in bays along the coast.

With temperatures ranging from light frost at night to slightly above 0°C during night, some smaller new ice formation may occur.

ly some broken ice.

With only light frost during night, overall some ice melt is expected.

ice. From St. Petersburg to the longitude of lighthouse Tolbuchin there is 35–45 cm thick fast ice with open water further out. Outside the southern coast it is mainly ice free with some open water in the far east. In Lake Saimaa 30-55cm thick ice with open areas.

With temperatures around zero no larger changes are expected.

Pärnu, there is narrow band of close ice near the coast, further out open water to Kihnu.

With at most light frost during night, overall ice melt is expected.

Further ice melt is expected.

western coast.

Ice melt is expected.

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Estonia	Pärnu	1600 kW	1C (Lloyd's)	11.03.
	Kunda and Sillamäe	1200 kW	II (Lloyd's)	04.02.
Finland	Tornio, Kemi and Oulu	2000/4000 dwt	IA Super (2000 t)/ IA (2000 t)	27.02.
	Vaasa	2000 dwt	IA	10.01.
	Raahe, Kalajoki, Kokkola and Pietarsaari	4000 dwt	IA	13.01.
	Pori, Rauma	2000 dwt	II	25.03.
	Kaskinen and Kristiinankaupunki	2000 dwt	II	25.03.
	Uusikaupunki	2000 dwt	II	25.03.
	Langnäs	2000 dwt	II	13.01.
	Naantali and Turku	2000 dwt	II	25.03.
	Mussalo	2000 dwt	I	25.03.
	Sköldvik	2000 dwt	II	25.03.
	Koverhar, Lappohja, Inkoo, Kantvik and Helsinki	2000 dwt	II	18.03.
	Taalintehdas and Förby	2000 dwt	II	18.03.
	Loviisa, Kotka and Hamina	2000 dwt	I	25.03.
	Lake Saimaa	2000 dwt	IA	08.01.
	Saimaa Canal	2000 dwt	IA	08.01.
Russia	Vyborg	-	Ice 1/Ice 2	11.03.
	Vysotsk	-	Ice 1/Ice 2	11.03.
	Primorsk	-	Ice 1	25.03.
	St. Petersburg		Ice 1	22.03.
	Ust-Luga	-	cancelled	25.03.
Sweden	Karlsborg	4000 dwt	IA (2000 t)	14.01.
	Lulea, Haraholmen and Skelleftehamn	4000 dwt	IA	14.01.
	Rundvik, Husum and Örnsköldsvik	2000 dwt	IA	19.02.
	Holmsund	2000 dwt	IA	17.02.
	Angermanälven	2000 dwt	IA	17.02.
	Stocka, Hudiksvall, Iggesund, Söderhamn and Öregrund	2000 dwt	IC	26.02.
	Orrskär, Norrsundet, Gävle and Skutskär	2000 dwt	II	18.03.
	Härnösand	2000 dwt	IB	26.02.
	Söråker and Sundsvall	2000 dwt	IC	22.03.
	Hargshamn	2000 dwt	IC	04.01.
	Hallstavik and Grisslehamn	2000 dwt	IC	04.01.
	Köping and Västerås	2000 dwt	IC	26.02.
	Balsta	2000 dwt	IC	26.02.
	Stockholm and Södertälje	2000 dwt	II	04.01.
	Vänern	2000 dwt	II	14.03.

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.

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, SISU, KONTIO and URHO assist in the Bay of Bothnia. OTSO and ATLE assist in the southern Bay of Bothnia. ZEUS and ALE assist in the Quark. NORDICA and CALYPSO assist the Gulf of Finland.

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 and Primorsk.

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>
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Estonia, 25.03.2024

Paernu, port and bay 4213
Moonsund 2/22

Finland, 25.03.2024

Röyttä – Etukari 8546
Etukari – Ristinmatala 8546
Ajos – Ristinmatala 8546
Ristinmatala – Kemi 2 7476
Kemi 2 – Kemi 1 5676
Sea area SW of Kemi 1 5676
Kemi 2 – Ulkokrunni – Virpiniemi 7476
Oulu harbours – Kattilankalla 8546
Kattilankalla – Oulu 1 7476
Sea area SW of Oulu 1 5676
High Sea N of the latitude of Marjaniemi 5476
Raahe harbour – Heikinkari 8546
Heikinkari – Raahe lighthouse 6856
Raahe lighthouse – Nahkiainen 9006
Latitude Marjaniemi – Ulkokalla, Sea 5476
Rahja harbour – Välimatala 7856
Vaelimatala to line Ulkokalla – Ykskivi 2826
Sea betw. lat. of Ulkokalla – Pietarsaari 5856
Ykspihlaja – Repskär 7476
Repskär – Kokkola lighthouse 5476
Sea area off Kokkola lighthouse 2726
Pietarsaari – Kallan 8446
Sea area off Kallan 1706
Sea lat. Pietarsaari – NE Nordvalen 3356
Sea area ENE of Nordvalen 5356
Sea area Nordvalen to W of Norrskär 3376
Vaskiluoto – Ensten 7356
Ensten – Vaasa lighthouse 5356
Vaasa lighthouse – Norrskär 2156
Sea area SW of Norrskär 4356
Kaskinen – Sälgrund 8445
Sea area off Sälgrund 3226
High sea from N to latitude Yttergrund 0//6
Pori harb. to line Pori lighth. – Säppi 1705
Sea W of line Pori lighthouse – Säppi 1705
Rauma, Harbour – Kymäpihlaja 1705
Kymäpihlaja – Rauma lighthouse 1705
Uusikaupunki harbour – KIRSTA 8845
KIRSTA – Isokari 8845
Isokari – Sandbäck 3335
Naantali and Turku – Rajakari 8845
Rajakari – Lövskär 7345
Lövskär – Korra 8845
Korra – Isokari 3335
Lövskär – Berghamn 8345
Berghamn – Stora Sottunga 1705
Stora Sottunga – Ledskär 8745
Lövskär – Grisselborg 8345
Grisselborg – Norparskär 1705
Sea area at Vidskär 1705
Hanko – Vitgrund 1702
Vitgrund – Utö 3132
Koverhar – Hästö Busö 3335
Hästö Busö – Ajax 1705
Inkoo a. Kantvik – sea area Porkkala 7755

Sea area at Porkkala 0//5
Helsinki harbours – Harmaja 7355
Harmaja – Helsinki lighthouse 1705
Fairway Helsinki – Porkkala – Rönnskär 1705
Vuosaari harbour – Eestiluoto 3335
Eestiluoto – Helsinki lighthouse 1705
Porvoo harbours – Varlax 5355
Varlax – Porvoo lighthouse 5355
Porvoo lighthouse – Kalbådagrund 0//5
Valko Harbour – Täktarn 7356
Archipelago fairway Boistö – Glosholm 5356
Archipelago fairway Glosholm–Helsinki 5355
Kotka – Viikari 7356
Viikari – Orregrund 5356
Orregrund – Tiiskeri 3336
Tiiskeri – Kalbådagrund 4346
Hamina – Suurmusta 8446
Suurmusta – Merikari 7356
Merikari – Kaunissaari 5356

Russian Federation, 25.03.2024

Port of St. Petersburg 89//
St. Petersburg – E-point island Kotlin 89//
E-point Kotlin – long. lighth. Tolbukhin 53//
Lighthouse Šepelevskij – island Sescar 22//
Island Sescar – Island Sommers 22//
Island Sommers– S-point island Gogland 22//
Vyborg, port and bay 89//
Island Vichrevoj – Island Sommers 53//
Strait Bjerkesund 89//
E-point Bol'šoj Ber'ozovyj – Šepelevskij 43//

Sweden, 25.03.2024

Karlsborg – Malören 8646
Sea area off Malören 5676
Luleå – Björnklack 8646
Björnklack – Farstugrunden 5576
E and SE of Farstugrunden 5576
Sandgrönn fairway 8646
Rödkaullen – Norströmsgrund 5576
Haraholmen – Nygrån 8646
Sea area off Nygrån 5456
Skelleftehamn – Gåsören 8446
Sea area off Gåsören 5456
Sea area off Bjuröklubb 5456
NE of Nordvalen 5456
SW of Nordvalen 1406
Western Quark (W of Holmöarna) 6456
Umeå – Väktaren 6456
SE of Väktaren 1406
NE and SE of Sydostbrotten 5476
Fairway to Husum 5476
Örnsköldsvik – Hörnskatan 8446
Hörnskatan – Skagsudde 8446
Sea area off Skagsudde 5476
Fairway W of Ulvöarna 8446
Sea area E of Ulvöarna 5476
Ångermanälven north Sandö Bridge 8444
Ångermanälven south Sandö Bridge 8444
Härnösand – Härnön 8444

Sea area off Härnö	1306
Sundsvall – Draghällan	2326
Draghällan – Åstholmsudde	2326
Off Åstholmsudde and Brämön	1306
Hudiksvallfjärden	8346
Iggesund – Agö	8346
Sandarne – Hällgrund	8346
Ljusnefjärden – Storsjungfrun	8346
Gävle – Eggegrund	8346
Hallstavik – Svartklubben	8396
Trälhavet – Furusund – Kapellskär	1000
Stockholm – Trälhavet – Klövholmen	1000
Köping – Kvicksund	8394
Västerås – Grönsö	8394
Grönsö – Södertälje	1204
Stockholm – Södertälje	1204
Södertälje – Fifong	1104
Västervik – Marsholmen – Idö	1101
Fairway to Gruvön	8396
Fairway to Karlstad	8396
Fairway to Kristinehamn	8396