



Eisbericht Nr. 25

Amtsblatt des BSH

Jahrgang 95

Nr. 25

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Übersicht

In der nördlichen Bottenwiek liegt in den Schären 20–35 cm dickes Festeis. Weiter außerhalb treibt im Osten dichtes, 5–20 cm dickes Eis und im Westen Neueis. In der südlichen Bottenwiek und Norra Kvarken liegt in den Schären bis zu 30 cm dickes Festeis. Weiter außerhalb kommt sehr lockeres Treibeis oder Neueis vor und auf See treibt in Norra Kvarken lockeres Eis oder Neueis. Entlang der Küsten der Bottensee, dem Schärenmeer und der Ålandsee liegt Festeis oder dünnes ebenes Eis und etwas Treibeis weiter außerhalb in der Bottensee. Im Finnischen Meerbusen liegt entlang der Nordküste und im Osten Festeis. Im östlichen Teil treibt auf See sehr lockeres Eis oder Neueis. Im Rigaischen Meerbusen befindet sich bis zu 25 cm dickes Eis im Moonsund und in der Pärnubucht. Neueis oder dünnes, ebenes Eis kommt in der nördlichen Ostsee, den Haffgebieten der südöstlichen Ostsee und dem Vänern vor. Neueis kommt in geschützten Buchten der zentralen Ostsee, der südlichen Ostsee und dem Skagerrak vor.

Overview

In the northern Bay of Bothnia, there is 20–35 cm thick fast ice in the archipelagos. Further out in the east, there is close, 5–20 cm thick drift ice or new ice, and in the west new ice. In the southern Bay of Bothnia and Norra Kvarken, there is up to 30 cm thick fast ice in the archipelagos. Further out, there is very open ice or new ice and at sea in Norra Kvarken, there is open drift ice or new ice. Along the coasts of the Sea of Bothnia, the Archipelago Sea and Åland Sea, there is fast ice or thin level ice and some drift ice further out in the Sea of Bothnia. In the Gulf of Finland, there is fast ice along the northern coast and in the easternmost part. At sea in the east, there is very open ice and new ice. In the Gulf of Riga, there is up to 25 cm thick ice in Moonsund and Pärnu Bay. New ice and thin level ice occurs at places in the northern Baltic, in the lagoons of the southeastern Baltic and Lake Vänern. New ice occurs in sheltered areas of the central Baltic, the southern Baltic and Skagerrak.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 20–35 cm thick fast ice, from the Finnish coast reaching out to Hebe-3 and Kattilankalla. Further out in the east, there is 10–25 cm thick consolidated ice to Kemi-3 and Oulu-3 followed by close, 5–20 cm thick ice to the line Malören – Ulkokalla. Off the fast ice in the west, there is first thin level ice and then new ice/shuga to Farstu-

grunden – Norströmsgrund and past Bjuröklubb. In the southern Bay of Bothnia, there is 10–30 cm thick fast ice in the archipelagos. Further out in the east, there is new ice and thin close ice, and in the west, very open, 3–10 cm thick ice or new ice. Ice growth and ice formation is expected the coming days. The ice drift is to the west/northwest.

Herstellung und Vertrieb

Bundesamt für Seeschifffahrt und Hydrographie (BSH)

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Norra Kvarken

In the archipelagoes off Vaasa, there is 10–30 cm thick fast ice out to Storhästen and 5–15 cm thick, compact ice out to Ensten. Further out, there is new ice and ice formation to Utgrynnan. Along the Swedish coast, there is 5–20 cm thick fast in the

inner archipelagos. At sea, there is 3–10 cm thick open ice east of Holmöarna and else, new ice or open water with stripes and patches.

Some ice growth is expected the coming days. The ice drifts to the west/northwest.

Sea of Bothnia

On Ångermanälven, there is 15–35 cm thick fast ice in the upper part and 5–20 cm level ice in the lower part. Else, there is 10–20 cm fast ice or thin level ice in the archipelagos and bays. Further out

along the Finnish coast, there is a thin belt of 3–10 cm thick, very close drift ice in the north and open drift ice in the south.

Some ice growth is expected the coming days.

Archipelago and Åland Sea

Thin level ice is present in inner archipelagos of the coasts. Else, there is new ice in the archipela-

gos.

No larger changes are expected the coming days.

Gulf of Finland

From St. Petersburg up to the dike, there is 20–30 cm thick fast ice. Farther out, there is close to very close, 5–20 cm thick ice past Šepelevskij. In the Bay of Vyborg, there is 20–30 cm fast ice. 15–25 cm fast ice and new ice in the southern entrance are present in the Bjerkesund. In the archipelagoes of the northern coast, there is 10–25 cm fast ice and thin level ice further out. At sea, there

is very open, 3–10 cm thick drift ice or new ice north and east of the line Gogland – Moščnyj. At the southern coast, new ice is present in places near the shore. In Lake Saimaa and the Saimaa Canal, there is 15–35 cm thick ice.

Some ice formation is expected the coming days. The ice drifts to the northwest.

Gulf of Riga

In Moonsund, there is very close, 10–25 cm thick ice. In the central part, there is open ice. South of Saaremaa, there is a 10 nm wide band of new ice and open ice. In Pärnu Bay, there is 10–25 cm

thick fast ice to Kihnu and a thin band of close ice further out.

No larger changes are expected. Ice drift is to the north/northeast.

Northern Baltic

In Lake Mälaren, there is 10–20 cm thick fast ice or level ice in the western part. In sheltered bays further east, there is thin level or new ice. Along

the Swedish coast, there is new ice or shuga in some sheltered bays.

No major changes the coming days.

Central Baltic

New ice occurs in sheltered bays along the Swedish coast.

Some ice melt the coming days.

Southeastern Baltic

The Curonian Lagoon is covered by ice and in the Vistula Lagoon, there is very close thin ice.

Ice melt continues the coming days.

Southern Baltic

In the Szczecin Lagoon, some thin rest ice is found along the northern and northeastern coast.

Ice melt continues.

Western Baltic

The area is ice free.

Skagerrak und Kattegat

In some inner fjords of the Skagerrak, there is fast ice, up to 30 cm thick at a few places. Else, it is

mostly ice free.

No large changes are expected.

Swedish Lakes

New ice as well as thin level ice is present in sheltered bays of Lake Vänern. Along the northern

coast, there is 5–20 cm thick, level ice. Some ice melt is expected the coming days.

Dr. W. Aldenhoff

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Estonia	Pärnu	1600 kW	1C	17.12.
Finland	Tornio, Kemi, Oulu and Raahe	2000 dwt	IB	25.12.
	Kokkola and Vaasa	2000 dwt	I	22.12.
	Kalajoki and Pietarsaari	2000 dwt	I	25.12.
	Kaskinen, Kristiinankaupunki, Pori, Rauma, Uusikaupunki, Naantali, Turku, Taalintehdas, Förby, Koverhar, Lappohja, Inkoo, Kantvik, Helsinki and Sköldvik	2000 dwt	II	01.01.
	Loviisa and Kotka	2000 dwt	II	22.12.
	Loviisa and Kotka	2000 dwt	I	04.01.
	Hamina	2000 dwt	I	01.01.
	Mussalo	2000 dwt	II	25.12.
	Lake Saimaa and Saimaa Canal	2000 dwt	I	22.12.
	Lake Saimaa and Saimaa Canal	2000 dwt	IB	06.01.
Russia	Vyborg	-	Ice 1	30.12.
	Vysotsk	-	Ice 1	27.12.
	Primorsk	-	Ice 1	12.01.
	Ust-Luga	-	Ice 1	04.01.
	St. Petersburg	-	required	04.01.
Sweden	Karlsborg and Luleå	2000 dwt	IC	11.12.
	Karlsborg and Luleå	2000 dwt	IB	06.01.
	Haraholmen and Skelleftehamn	2000 dwt	IC	22.12.
	Haraholmen and Skelleftehamn	2000 dwt	IB	06.01.
	Holmsund, Rundvik and Husum	2000 dwt	II	22.12.
	Örnsköldsvik	2000 dwt	II	22.12.
	Ångermanälven	2000 dwt	IC	22.12.
	Ångermanälven	2000 dwt	IB	06.01.
	Härnösand- Skutskär	2000 dwt	II	22.12.
	Köping and Västerås	2000 dwt	IC	27.12.
	Bålsta	1300/2000 dwt	IC/II	27.12.
	Trollhätte Canal and Göta Älv	1300/2000 dwt	IC/II	03.01.
	Vänern	1300/2000 dwt	IC/II	03.01.

Information of the Icebreaker Services

Estonia

Icebreaker: EVA-316 assists to the port of Pärnu.

Finland/Sweden

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 78. 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:

OTSO, KONTIO, **URHO**, FREJ and YMER assist in the Bay of Bothnia. ALE assists in the Quark and **SISU** in the eastern Gulf of Finland. PROTECTOR and METEOR assist in the northern Lake Saimaa. CALYPSO assists in the southern Lake Saimaa and the Saimaa Canal.

Russia

There are restrictions for small crafts going to Vysotsk, Vyborg, St. Petersburg, Ust-Luga and Primorsk.

Icebreakers: Several icebreakers assist vessels to the port of Vyborg, Vysotsk, Primorsk, Ust-Luga and St. Petersburg.

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, 03.01.2022

Shipping route from Narva-Jõssuu	50/1
Kunda, port and bay	3000
Muuga, port and bay	1000
Tallinn, port and bay	1000
Paernu, port and bay	7345
Moonsund	52/2

Finland, 03.01.2022

Roeyttae – Etukari	8346
Etukari – Ristinmatala	7346
Ajos – Ristinmatala	7346
Ristinmatala – Kemi 2	4746
Kemi 2 – Kemi 1	4746
Sea area SW of Kemi 1	4746
Kemi 2 – Ulkokrunni – Virpiniemi	7346
Oulu harbours – Kattilankalla	8346
Kattilankalla – Oulu 1	6346
Sea area SW of Oulu 1	5756
High Sea N of the latitude of Marjaniemi	2126
Raahe harbour – Heikinkari	7746
Heikinkari – Raahe lighthouse	3016
Raahe lighthouse – Nahkiainen	4746
Latitude Marjaniemi – Ulkokalla, Sea	2126
Rahja harbour – Välimatala	5766
Vaelimatala to line Ulkokalla – Ykskivi	2126
Sea betw. lat. of Ulkokalla –Pietarsaari	1006
Ykspihlaja – Repsaer	7766
Repskaer – Kokkola lighthouse	5146

Sea area off Kokkola lighthouse	1106
Pietarsaari – Kallan	5746
Sea area off Kallan	2016
Sea lat. Pietarsaari – NE Nordvalen	3016
Sea area ENE of Nordvalen	3016
Vaskiluoto – Ensten	7346
Ensten – Vaasa lighthouse	4046
Vaasa lighthouse – Norrskaer	2106
Kaskinen – Sälgrund	5145
Sea area off Sälgrund	2115
Pori harb. to line Pori lighth. – Säppi	1015
Rauma, Harbour – Kylmäpihlaja	5145
Kylmäpihlaja – Rauma lighthouse	1005
Uusikaupunki harbour – Kirsta	5245
Kirsta – Isokari	3225
Naantali and Turku – Rajakari	1005
Koverhar – Hästö Busö	1005
Inkoo a. Kantvik – sea area Porkkala	5745
Helsinki harbours – Harmaja	5145
Harmaja – Helsinki lighthouse	1005
Fairway Helsinki – Porkkala – Rönnskär	1005
Vuosaari harbour – Eestiluoto	4145
Eestiluoto – Helsinki lighthouse	2005
Porvoo harbours – Varlax	5145
Varlax – Porvoo lighthouse	1015
Valko Harbour – Täktarn	5765
Archipelago fairway Boistö – Glosholm	1015
Archipelago fairway Glosholm–Helsinki	4045
Kotka – Viikari	5145

Viikari – Orregrund	1015	Vänernborgsviken	2026
Orregrund – Tiiskeri	1015	Fairway to Karlstad	5346
Hamina – Suurmusta	8746	Fairway to Kristinehamn	5362
Suurmusta – Merikari	5146	Fairway to Otterbäcken	3026
Merikari – Kaunissaari	1016		

Russian Federation, 03.01.2022

Port of St. Petersburg	63/3
St. Petersburg – E-point island Kotlin	83/3
E-point Kotlin – long. lighth. Tolbuhkin	83/3
Lighth. Tolbuhkin – lighth. –Šepelevskij	52/2
Lighthouse Šepelevskij – island Sescar	20/1
Island Sescar – Island Sommers	20/1
Vyborg, port and bay	83/3
Island Vichrevoj – Island Sommers	3002
Strait Bjerkesund	3002
E-point Bol'šoj Ber'ozovyj – –epelevskij	2102
Luga bay	2000
Appr. Luga bay – line Mo.–epel.	2000

Sweden, 03.01.2022

Karlsborg – Maloeren	8446
Sea area off Maloeren	0//6
Luleå – Bjoernklack	8446
Bjoernklack – Farstugrunden	4046
E and SE of Farstugrunden	4046
Sandgroenn fairway	8446
Roedkallen – Norstroemsgrund	4046
Haraholmen – Nygrån	8446
Sea area off Nygrån	4046
Skelleftehamn – Gåsoeren	5136
Sea area off Gåsoeren	5136
Sea area off Bjuroeklubb	4046
NE of Nordvalen	1106
SW of Nordvalen	1106
Western Quark (W of Holmoearna)	8246
Umeå – Vaektaren	1106
SE of Vaektaren	1106
Fairway to Husum	2026
Oernskoeldsvik – Hoernskaten	5246
Ångermanaelven north Sandoe Bridge	8446
Ångermanaelven south Sandoe Bridge	8446
Haernoessand – Haernoen	5246
Sundsvall – Draghaellan	8346
Draghaellan – Åstholmsudde	3126
Hudiksvallfjaerden	5246
Iggesund – Agoe	5246
Sandarne – Haellgrund	5146
Gaevle – Eggegrund	5146
Oeregrundsgrepen	3122
Hallstavik – Svartklubben	5142
Koeping – Kvicksund	8346
Västerås – Grönsö	8346
Grönsö – Södertälje	5144
Stockholm – Södertälje	5244
Södertälje – Fifong	3124
Norrköping – Hargökalv	3021
Karlskrona – Aspö	3021
Fairway to Karlshamn	3021
Uddevalla – Stenungsund	5041