



Eisbericht Nr. 24

Amtsblatt des BSH

Jahrgang 95

Nr. 24

Thursday, 30.12.2021

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Übersicht

In der nördlichen Bottenwiek liegt in den Schären 15–30 cm dickes Festeis und weiter außerhalb treibt zumeist dichtes, 5–15 cm dickes Eis. In der südlichen Bottenwiek und Norra Kvarken liegt in den Schären bis zu 30 cm dickes Festeis und weiter außerhalb kommt lockeres bis dichtes Treibeis vor. Auf See treibt in Norra Kvarken sehr lockeres Eis. Entlang der Küsten der Bottensee, dem Schärenmeer und der Ålandsee liegt Festeis, dünnes ebenes Eis oder Neueis. Im Finnischen Meerbusen liegt entlang der Nordküste dünnes, ebenes Eis. Im Osten kommt bis zu 25 cm dickes Festeis und auf See bis 10 cm dickes Treibeis vor. Im Rigaischen Meerbusen befindet sich Neueis und 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, der westlichen Ostsee und dem Skagerrak vor.

Overview

In the northern Bay of Bothnia, there is 15–30 cm thick fast ice in the archipelagos, and mostly close, 5–15 cm thick drift ice further out. In the southern Bay of Bothnia and Norra Kvarken, there is up to 30 cm thick fast ice in the archipelagos and very open to open drift ice further out. There is very open drift ice at sea in Norra Kvarken. Along the coasts of the Sea of Bothnia, the Archipelago Sea and Åland Sea, there is fast ice, thin level ice or new ice. In the Gulf of Finland, thin level ice is present along the northern coast. In the eastern part, there is up to 25 cm thick fast ice and up to 10 cm thick drift ice at sea. In the Gulf of Riga, there is new ice and 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, the western Baltic and Skagerrak.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 15–30 cm thick fast ice, from the Finnish coast reaching out to Hebe-3 and Kattilankalla. Off the fast ice, there is 5–15 cm thick, close drift ice to Nordströmsgrund in the west and in the east to 8 sm west of Oulu-1 – Nahkiainen. In the southern Bay of Bothnia, there is 10–25 cm thick fast ice in

the archipelagos and thin open to close drift ice further out.

Some ice growth and ice drift is expected over the weekend. With changing winds, the ice drift will first be to the north, Friday/Saturday to the south and Sunday to the north.

Herstellung und Vertrieb

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Norra Kvarken

In the archipelagoes off Vaasa, there is 10–30 cm thick fast ice out to Storhåsten and 5–15 cm thick, compact ice out to Ensten. Very open ice is present to Vaasa lighthouse and along the northern fast ice edge. Along the Swedish coast, there is 5–20 cm thick fast in the inner archipelagos. North of Holmöarna open or close, 5–15 cm thick drift ice.

Sea of Bothnia

On Ångermanälven, there is 10–25 cm thick fast ice in the upper part, and thin level ice and new 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

Archipelago and Åland Sea

Thin level ice is present in places along the eastern coast. Else, there is new ice in the archipelagos and along the western coast.

Gulf of Finland

From St. Petersburg up to the dike, there is 15–25 cm thick fast ice. Farther out, there is very close, 5–20 cm thick ice to Šepelevskij. In the Bay of Vyborg, there is 15–25 cm fast ice. 15–25 cm very close ice or fast ice is present in the Bjerkesund. In the archipelagoes of the northern coast, there is 5–20 cm thick level ice or fast ice. Further out in the east, there is very open, 3–10 cm thick drift ice. East of about the longitude of the island Moščnyj,

Gulf of Riga

In Moonsund, there is very close, 10–25 cm thick ice and new ice on the fairways. In the northeastern part, there is thin level or very close ice along the coast and new ice further out. In Pärnu Bay, there is 10–25 cm thick very close ice or thin level

Northern Baltic

In Lake Mälaren, there is 5–20 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

Central Baltic

New ice occurs in sheltered bays along the Swedish coast. In Kalmarsund, there are strings with shuga.

Southeastern Baltic

The Curonian Lagoon is covered by new ice and in the Vistula Lagoon, there is up to 7 cm thick ice.

Southern Baltic

New ice occurs in the Szczecin Lagoon, along the river Peene and in sheltered bays of the Bay of Greifswald. New ice is also present along the

North of Nordvalen, there is open water with strings and patches of drift ice at sea.

Some ice growth and ice drift is expected over the weekend. With changing winds, the ice drift will first be to the north, Friday/Saturday to the south and Sunday to the north.

of 3–10 cm thick, very close drift ice in the north and open drift ice in the south.

Some ice growth and ice formation are expected over the weekend.

No larger changes are expected over the weekend.

there is very open, 3–10 cm drift ice. At the southern coast, new ice is present in places near the shore. In Lake Saimaa and the Saimaa Canal, there is 10–25 cm thick ice.

Over the weekend, some new ice formation and ice growth is expected over the weekend. The ice will first drift to the north and later mostly to the east/southeast.

ice and some new ice to Kihnu. In the port of Riga, there is open water with some drift ice.

Over the weekend, no major changes are expected. Changing winds cause some ice drift mostly to the north and south.

some sheltered bays.

With temperatures mostly around the freezing, no larger changes are expected over the weekend.

Over the weekend, ice melt is expected especially along the Swedish coast.

Some ice melt occurs over the weekend.

Swedish coast off Karlshamn.

Over the weekend, the ice will be melting.

Western Baltic

New ice occurs in some sheltered areas, inside the Darss-Zingst Bodden Chain and the Bodden waters around Rügen.

Over the weekend, ice melt continues with temperatures up to 10 °C. Most of the ice will be gone after the weekend.

Belts and Sound

Mostly ice free.

Ice melt continues over the weekend.

Skagerrak und Kattegat

In some inner fjords of the Skagerrak, there is fast ice up to 30 cm thick. Else, new ice occurs in a few sheltered places. The Kattegat is mostly ice free. Over the weekend some ice formation and growth

is expected in sheltered places in the Oslofjord. Else, ice melt continues in Kattegat and the southern Skagerrak.

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 and new ice

further out.

Over the weekend, some ice melt is expected.

Dr. W. Aldenhoff

***The ice service wishes all its readers a happy New Year!
Next report will be issued on Monday 03.01.2022***

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 Raahе	2000 dwt	IB	25.12.
	Kokkola and Vaasa	2000 dwt	I	22.12.
	Kalajoki and Pietarsaari	2000 dwt	I	25.12.
	Loviisa, Kotka and Hamina	2000 dwt	II	22.12.
	Mussalo	2000 dwt	II	25.12.
	Lake Saimaa and Saimaa Canal	2000 dwt	I	22.12.
	Kaskinen, Kristinnankaupunki, Pori, Rauma, Uusikaupunki, Naantali, Turku, Taalintehdas, Förby, Koverhar, Lappohja, Inkoo, Kantvik, Helsinki, Sköldvik	2000 dwt	II	01.01.
	Hamina	2000 dwt	I	01.01.
	Kotka, Loviisa	2000 dwt	I	04.01.
Sweden	Karlsborg and Luleå	2000 dwt	IC	11.12.
	Haraholmen and Skelleftehamn	2000 dwt	IC	22.12.
	Holmsund, Rundvik and Husum	2000 dwt	II	22.12.
	Örnsköldsvik	2000 dwt	II	22.12.
	Ångermanälven	2000 dwt	IC	22.12.
	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, FREJ, ALE and YMER assist in the Bay of Bothnia. VOIMA assists in the eastern Gulf of Finland. PROTECTOR and CALYPSO assist in the northern Lake Saimaa. METEOR 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.

There is a requirement of ice class Ice 1 or icebreaker assistance to Vyborg from 30.12., Ust-Luga from 04.01.2022 and Primorsk from 12.01.2022. Icebreaker assistance is required for vessels without ice reinforcement to St. Petersburg from 31.12.

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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Germany, 30.12.2021

Anklam, Hafen – Peenestrom	1001
Rankwitz, Peenestrom	6041
Wismar, Hafen	2000
Schlei, Schleswig – Kappeln	2000

Estonia, 30.12.2021

Shipping route from Narva-Jõssuu	3000
Kunda, port and bay	2000
Muuga, port and bay	2000
Tallinn, port and bay	2000
Paernu, port and bay	53/5
Moonsund	41/2

Finland, 30.12.2021

Roeyttae – Etukari	8346
Etukari – Ristinmatala	7346
Ajos – Ristinmatala	7346
Ristinmatala – Kemi 2	5246
Kemi 2 – Kemi 1	5246
Sea area SW of Kemi 1	4046
Kemi 2 – Ulkokrunni – Virpiniemi	7346
Oulu harbours – Kattilankalla	8346
Kattilankalla – Oulu 1	5346
Sea area SW of Oulu 1	5246
High Sea N of the latitude of Marjaniemi	1026
Raahe harbour – Heikinkari	7746
Heikinkari – Raahe lighthouse	5766
Raahe lighthouse – Nahkiainen	4246

Latitude Marjaniemi – Ulkokalla, Sea	3126
Rahja harbour – Välimatala	5746
Vaelimatala to line Ulkokalla – Ykskivi	3226
Sea betw. lat. of Ulkokalla – Pietarsaari	1006
Ykspihlaja – Repsaer	7766
Repskaer – Kokkola lighthouse	5146
Sea area off Kokkola lighthouse	3106
Pietarsaari – Kallan	5746
Sea area off Kallan	3026
Sea lat. Pietarsaari – NE Nordvalen	2006
Sea area ENE of Nordvalen	1006
Vaskiluoto – Ensten	7346
Ensten – Vaasa lighthouse	5246
Vaasa lighthouse – Norrskaer	1006
Kaskinen – Sälgrund	5145
Sea area off Sälgrund	5145
Pori harb. to line Pori lighth. – Säppi	2015
Rauma, Harbour – Kymäpihlaja	5145
Kymäpihlaja – Rauma lighthouse	1005
Uusikaupunki harbour – Kirsta	5245
Kirsta – Isokari	4145
Naantali and Turku – Rajakari	2001
Koverhar – Hästö Busö	3005
Inkoo a. Kantvik – sea area Porkkala	4145
Helsinki harbours – Harmaja	4145
Harmaja – Helsinki lighthouse	1005
Fairway Helsinki – Porkkala – Rönnskär	1005
Vuosaari harbour – Eestiluoto	4045
Porvoo harbours – Varlax	4145

Varlax – Porvoo lighthouse	1005	Hallstavik – Svartklubben	5142
Porvoo lighthouse – Kalbådagrund	0//5	Koeping – Kvicksund	8346
Valko Harbour – Tåktarn	5265	Västerås – Grönsö	8346
Archipelago fairway Boistö – Glosholm	1005	Grönsö – Södertälje	5146
Archipelago fairway Glosholm–Helsinki	4045	Stockholm – Södertälje	5246
Kotka – Viikari	5145	Södertälje – Fifong	4046
Viikari – Orregrund	4045	Norrköping – Hargökalv	4041
Orregrund – Tiiskeri	0//5	Karlskrona – Aspö	5041
Tiiskeri – Kalbådagrund	0//5	Fairway to Karlshamn	4041
Hamina – Suurmusta	8745	Uddevalla – Stenungsund	5041
Suurmusta – Merikari	5145	Vänersborgsviken	5041
Merikari – Kaunissaari	1015	Fairway to Karlstad	5342
		Fairway to Kristinehamn	5342
		Fairway to Otterbäcken	5041
Latvia, 30.12.2021			
Port of Riga	1101		
Poland, 30.12.2021			
Zalew Szczecinski	311/		
Russian Federation, 30.12.2021			
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	51/2		
Lighthouse Šepelevskij – island Sescar	50/2		
Island Sescar – Island Sommers	50/2		
Vyborg, port and bay	83/3		
Island Vichrevoj – Island Sommers	50/2		
Strait Bjerkesund	50/2		
E-point Bol'šoj Ber'ozovyj – –epelevskij	50/2		
Luga bay	1000		
Apr. Luga bay – line Mo–.—epel.	1000		
Sweden , 30.12.2021			
Karlsborg – Maloeren	8346		
Luleå – Bjoernklack	8346		
Bjoernklack – Farstugrunden	4236		
E and SE of Farstugrunden	4236		
Sandgroenn fairway	8346		
Roedkallen – Norstroemsgrund	4236		
Haraholmen – Nygrån	8346		
Sea area off Nygrån	4236		
Skelleftehamn – Gåsoeren	5136		
Sea area off Gåsoeren	5136		
Sea area off Bjueroeklubb	4236		
NE of Nordvalen	1106		
Western Quark (W of Holmoearna)	8246		
Umeå – Vaektaren	1106		
Fairway to Husum	2026		
Oernskoeldsvik – Hoernskaten	5246		
Ångermanaelven north Sandoe Bridge	8346		
Ångermanaelven south Sandoe Bridge	8346		
Haernoessand – Haernoen	5246		
Sundsvall – Draghaellan	8346		
Draghaellan – Åstholmsudde	5146		
Hudiksvallfjaerden	4136		
Iggesund – Agoe	4136		
Sandarne – Haellgrund	5146		
Gaeve – Eggegrund	5146		
Oeregrundsgrepen	5142		