



Eisbericht Nr. 21

Amtsblatt des BSH

Jahrgang 95

Nr. 21

Monday, 27.12.2021

1

Übersicht

In der nördlichen Bottenwiek liegt in den Schären 15–30 cm dickes Festeis und weiter außerhalb treibt meist dünnes Eis oder Neueis. In der südlichen Bottenwiek und Norra Kvarken liegt in den Schären bis zu 30 cm dickes Festeis. Entlang der Küsten der Bottensee, dem Schärenmeer und der Ålandsee liegt 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 Neueis vor. Im Rigaischen Meerbusen befindet sich Neueis und bis zu 15 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, in Bereich Belte und Sund, dem Kattegat und dem Skagerrak vor.

Overview

In the northern Bay of Bothnia, there is 15–30 cm thick fast ice in the archipelagos, and mostly thin ice or new ice further out. In the southern Bay of Bothnia and Norra Kvarken, there is up to 30 cm thick fast ice in the archipelagos. Along the coasts of the Sea of Bothnia, the Archipelago Sea and Åland Sea, there is 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 new ice further out. In the Gulf of Riga, there is new ice and up to 15 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, in the Belts and Sound, Kattegat 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. Adjacent to the fast ice in the east, there is an area with 10–25 cm thick, very close ice; followed by level ice and later new ice to about the line west of Kemi-1 – Ulkokalla – Kokkola. Off the fast ice in

the west, there is new ice past Norströmsgrund. In the southern Bay of Bothnia, there is 10–25 cm thick fast ice in the archipelagos and new ice further out.

Ice formation and ice growth is expected the coming day. The ice is drifting to the east/northeast.

Norra Kvarken

In the archipelagoes off Vaasa, there is 10–30 cm thick fast ice out to Storhåsten with thin ice outside out to Norra Globsten. New ice and ice formation

follows to Vaasa lighthouse. Along the Swedish coast, there is 5-20 cm thick fast or level ice in the inner archipelago and new ice past Holmöarna. Ice

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

formation continues the coming day and ice drift is

mainly to the northeast.

Sea of Bothnia

On Ångermanälven, there is 10–25 cm thick fast ice in the upper part and open 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. Along

the Finnish coast, there is new ice further out. Ice growth and ice formation is expected the coming day.

Archipelago and Åland Sea

Thin ice and ice formation occur in the inner Archipelago and in sheltered places of the Åland and

Archipelago Sea.
Ice formation will continue.

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, with decreasing thickness to the west. In the Bay of Vyborg, there is 15–25 cm fast ice. 5–15 cm very close ice or fast ice is present in the Bjerkesund. In the archipelagos of the northern coast, there is 5–10 cm thick level ice or fast ice. Further out, there is some new

ice or very open ice. East of the line Haapasaari – Moščnyj, there is new ice at sea. 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.

New ice formation and ice growth will take place the coming days and the ice will drift to the east/northeast.

Gulf of Riga

In Moonsund, there is nilas and very close, 5–15 cm thick ice near the coasts. In the central part is very open ice in the north and else new ice. New ice occurs south of Saaremaa and along the

northeastern coast. In Pärnu Bay, there is very close, 5–20 cm thick ice and new ice further out to Kihnu. In the port of Riga, there is consolidated ice. Some ice growth is expected.

Northern Baltic

In Lake Mälaren, there is 5–15 cm thick level ice or new ice except for the central part. Along the Swe-

dish coast, there is new ice or shuga in some sheltered bays. Some ice formation will occur.

Central Baltic

New ice occurs in sheltered bays along the Swedish coast.

New ice formation ceases during Tuesday.

Southeastern Baltic

The Curonian Lagoon is covered by new ice and in the Vistula Lagoon, there are areas with new ice.

Some new ice formation is expected but will cease during Tuesday.

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

Swedish coast off Karlshamn.
Some new ice formation is expected the coming night ceasing during Tuesday.

Western Baltic

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

Some new ice formation is expected the coming night ceasing during Tuesday.

Belts and Sound

New ice occurs in a few places.
Some new ice formation the coming night, ceasing

on Tuesday.

Skagerrak und Kattegat

New ice occurs in a few sheltered places.
Some new ice formation is expected until tomor-

row.

Swedish Lakes

New ice as well as 5–15 cm thick level ice is present in sheltered bays of Lake Vänern. Some ice formation is expected.

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.	
	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	
	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.	

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>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Deutschland, 27.12.2021

Rankwitz, Peenestrom	6041
Wismar, Hafen	3000
Schlei, Schleswig – Kappeln	3001
Flensburg – Holnis	1000
Husum, Hafen	2001

Estonia, 27.12.2021

Shipping route from Narva-Jõssuu	51/1
Kunda, port and bay	51/1
Paernu, port and bay	53/5
Moonsund	41/2

Finland, 27.12.2021

Roeyttae – Etukari	8346
Etukari – Ristinmatala	7346
Ajos – Ristinmatala	7346
Ristinmatala – Kemi 2	5146
Kemi 2 – Kemi 1	5146
Sea area SW of Kemi 1	5146
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	3026
Raahe harbour – Heikinkari	7246
Heikinkari – Raahe lighthouse	5766
Raahe lighthouse – Nahkiainen	5246
Latitude Marjaniemi – Ulkokalla, Sea	3026

Rahja harbour – Välimatala	5245
Vaelimatala to line Ulkokalla – Ykskivi	5146
Ykspihlaja – Repsaer	7766
Repskaer – Kokkola lighthouse	5146
Pietarsaari – Kallan	5745
Sea area off Kallan	3025
Sea lat. Pietarsaari – NE Nordvalen	3005
Sea area ENE of Nordvalen	3005
Vaskiluoto – Ensten	7346
Ensten – Vaasa lighthouse	5146
Vaasa lighthouse – Norrskauer	1006
Kaskinen – Sälgrund	3125
Sea area off Sälgrund	3005
Pori harb. to line Pori lighth. – Säppi	2005
Rauma, Harbour – Kylmäpihlaja	3105
Uusikaupunki harbour – Kirsta	3215
Koverhar – Hästö Busö	3005
Inkoo a. Kantvik – sea area Porkkala	3005
Helsinki harbours – Harmaja	3005
Fairway Helsinki – Porkkala – Rönnskär	3005
Vuosaari harbour – Eestiluoto	3005
Porvoo harbours – Varlax	3005
Valko Harbour – Täktarn	5145
Archipelago fairway Boistö – Glosholm	2005
Archipelago fairway Glosholm–Helsinki	2005
Kotka – Viikari	3005
Viikari – Orregrund	2005
Orregrund – Tiiskeri	2005
Hamina – Suurmusta	8246

Suurmusta – Merikari 3126
 Merikari – Kaunissaari 2006

Latvia, 27.12.2021

Port of Riga 6161
 Riga to the Cape of Mersrags, fairway 3021
 Mersrags to Irben Strait, fairway 3021

Russian Federation, 27.12.2021

Port of St. Petersburg 83/3
 St. Petersburg – E-point island Kotlin 83/3
 E-point Kotlin – long. lighth. Tolbuhkin 83/3
 Lighth. Tolbuhkin – lighth. –Šepelevskij 51/2
 Lighthouse –epelevskij – island Sescar 40/1
 Island Sescar – Island Sommers 40/2
 Island Sommers– S-point island Gogland 40/2
 Vyborg, port and bay 83/3
 Island Vichrevoj – Island Sommers 40/2
 Strait Bjerkesund 50/2
 E-point Bol'–oj Ber'ozovyj – –epelevskij 40/2
 Luga bay 40/2
 Appr. Luga bay – line Mo–.–epel. 2001

Sweden, 27.12.2021

Karlsborg – Maloeren 8346
 Luleå – Bjoernklack 8346
 Bjoernklack – Farstugrunden 4046
 Sandgroenn fairway 8346
 Roedkallen – Norstroemsgrund 4046
 Haraholmen – Nygrån 8346
 Sea area off Nygrån 4046
 Skelleftehamn – Gåsoeren 5136
 Sea area off Gåsoeren 5136
 Sea area off Bjuroeklubb 4046
 NE of Nordvalen 4046
 SW of Nordvalen 4046
 Western Quark (W of Holmoearna) 8246
 Umeå – Vaektaren 4046
 SE of Vaektaren 4046
 Oernskoeldsvik – Hoernskaten 5146
 Ångermanaelven north Sandoe Bridge 8346
 Ångermanaelven south Sandoe Bridge 8346
 Sundsvall – Draghaellan 5146
 Draghaellan – Åstholmsudde 4046
 Hudiksvallfjaerden 5146
 Iggesund – Agoe 4046
 Gaevle – Eggegrund 5146
 Hallstavik – Svartklubben 4041
 Koeping – Kviksund 5244
 Västerås – Grönsö 5244
 Grönsö – Södertälje 5144
 Stockholm – Södertälje 5144
 Norrköping – Hargökalv 4041
 Fairway to Karlshamn 4041
 Uddevalla – Stenungsund 5041
 Vänersborgsviken 5041
 Fairway to Karlstad 5242
 Fairway to Kristinehamn 5242
 Fairway to Otterbäcken 5041