



Eisbericht Nr. 16

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Übersicht

In den Schären der Bottenwiek befindet sich bis 20cm dickes Festeis und weiter außerhalb kommt Neueis vor. In Norra Kvarken, der Bottensee, dem Schärenmeer und dem Mälarsee kommt Neueis und dünnes Eis vor. Im Finnischen Meerbusen kommt in den östlichsten Buchten bis 20cm dickes Festeis, außerhalb davon und in geschützten Buchten entlang der Küsten kommt Neueis vor. Im Nordosten des Rigaischen Meerbusen befindet sich 5-15cm dickes ebenes Eis oder Neueis entlang der Küsten und der Bucht von Pärnu. Weiter südlich, bis hin zur westlichen Ostsee, kommt in geschützten inneren Bereichen örtlich dünnes, ebenes Eis vor.

Overview

In the archipelagos of the Bay of Bothnia there is up to 20cm thick fast ice and new ice is present further out. In the Quark, the Sea of Bothnia, the Archipelago Sea and Lake Mälaren, there is thin level ice and new ice along the coast. In the Gulf of Finland, there is up to 20cm thick fast ice in the easternmost bays. Outside the fast ice and in sheltered places along the coasts there is new ice. In the northeastern Gulf of Riga 5-15cm thick level ice or new ice is present along the coasts and in the Bay of Pärnu. Further south, all the way to the western Baltic, there is thin level ice in inner sheltered areas.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 10–20 cm thick fast and further out 5-10cm thick level ice. There is 7–15 cm thick fast ice between Hailuoto and Oulu. Further out, there is a zone with new ice, up to 15-20nm wide on the Swedish side and smaller on the Finnish side. Level ice is present in the inner archipelagos of the southern bay and new ice further out.

The temperatures will drop to below -15°C in places during the night, so ice will form. But tomorrow warmer air enters the region, bringing temperatures near 0°C and larger ice formation will cease. In the beginning the ice will drift towards the east, so overall the more compact nature of the ice edge in the east and the more loose ice edge in the west will persist.

The Quark

There is up to 10cm thick fast or level ice in the inner bays and archipelagos. On the Swedish side some new ice is present also further out.

With temperatures around 0°C and mostly eastward ice drift no larger change is expected.

Herstellung und Vertrieb

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Sea of Bothnia

New ice or thin level ice is present in places in the inner archipelagos along the coasts. On the upper part of Ångermanälven, there is 5–15 cm thick level ice and new ice is present in the lower part.

With temperatures slightly above 0°C in the east and slightly below in the west, no larger change is expected.

Archipelago Sea

New ice is present in sheltered inner bays. No significant change in the ice situation is expected.

Northern Baltic

In Lake Mälaren 2-10cm thick level ice is present in the western part and elsewhere at sheltered

regions at the coast new ice in places. No significant change is expected.

Gulf of Finland

10-20cm thick compact ice is present east of the island Kotlin, further out to the longitude of lighthouse Šepelevskij there is open water with nilas and new ice. In the top of Vyborg Bay, there is 10–20 cm thick fast ice and in the entrance there is open new ice. In places along the norther coast

and in sheltered places along the southern coast, there is new ice. On Lake Saimaa, there is 5–20 cm thick ice and new ice, in the southern part also places with open water.

No lager change is expected, but tomorrow a cold spell in the east can lead to new ice formation.

Gulf of Riga

In Väinameri there is fast ice near the coast and on the fairways there is new ice in the north and open water in the south. In the Bay of Pärnu, there is a narrow belt of 10–15 cm thick fast ice along the coast and further out very close light nilas to about

58°08'N. Further south open water with new ice in places.

With temperature above 0°C during day and below 0°C in the night, no larger ice formation is expected, but the ice will drift towards the northeast.

Central Baltic

New ice in some sheltered areas. With temperatures above 5°C in places, some ice melt can be

expected. .

Southeastern Baltic

In the Curonian lagoon there is level ice and in the Vistula lagoon there is new ice. No larger change

is expected.

Western Baltic

The Stettin lagoon and the Peenestrom are almost completely covered by thin level ice or new ice. Thin level ice or new ice is also present in the inner water west of Rügen south of Darss and Zingst and on the Schlei. At Rostock, Wismar and Lübeck

some new ice is present. With rain and expected temperatures surpassing 5°C ice melt is expected and the ice, except in the inner waters, will disappear.

Skagerrak and Kattegat

New ice in some sheltered areas. Thicker, up to 10cm thick ice is present in some Norwegian fjords

near Halden, Moss and Tønsberg. Ice melt is expected outside the fjords.

Swedish Lakes

New ice and thin level ice is present in some shel-

tered areas. A slowly starting ice melt is expected.

Restrictions to Navigation

	Harbour/District	At least dwt/hp/kW	Ice Class	Begin
Estonia	Pärnu	1600 kW	1 C	23.12.
Finland	Tornio and Kemi	2000 dwt	II	01.12.
	Oulu	2000 dwt	II	12.12.
	Tornio, Kemi and Oulu	2000 dwt	I	24.12.
	Raahe and Vaasa	2000 dwt	II	24.12.
	Loviisa, Kotka and Hamina	2000 dwt	II	24.12.
	Lake Saimaa and Saimaa Canal	2000 dwt	II	12.12.
	Lake Saimaa and Saimaa Canal	2000 dwt	I	22.12.
Sweden	Karlsborg and Lulea	2000 dwt	II	05.12.
	Haraholmen and Skelleftehamn	2000 dwt	II	12.12.
	Holmsund, Rundvik, Husum and Örnköldvik	2000 dwt	II	21.12.
	Angermanälven	1300/2000 dwt	IC/II	14.12.
	Angermanälven	2000 dwt	IC	21.12.
	Köping	1300/2000 dwt	IC/II	17.12.
	Västeras and Balsta	1300/2000 dwt	IC/II	22.12.
	Trollhätte Canal and Göta Älv	1300/2000 dwt	IC/II	17.12.
	Vänern	1300/2000 dwt	IC/II	17.12.

Estonia**Icebreakers:**

EVA-316 assists in 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 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:

OTSO assists in the Bay of Bothnia.

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 , 19.12.2022

Paernu, port and bay 5113

Moonsund 4112

Finland , 19.12.2022

Röyttä – Etukari 8745

Etukari – Ristinmatala 8745

Ajos – Ristinmatala 5145

Ristinmatala – Kemi 2 4045

Kemi 2 – Kemi 1 0//5

Kemi 2 – Ulkokrunni – Virpiniemi 5245

Oulu harbours – Kattilankalla 8245

Kattilankalla – Oulu 1 5145

Sea area SW of Oulu 1 0//5

High Sea N of the latitude of Marjaniemi 0//5

Raahe harbour – Heikinkari 5142

Heikinkari – Raahe lighthouse 5042

Rahja harbour – Välimatala 3001

Ykspihlaja – Repskär 5142

Repskär – Kakkola lighthouse 3001

Pietarsaari – Kallan 5142

Vaskiluoto – Ensten 5142

Rauma, Harbour – Kylmäpihlaja 5042

Uusikaupunki harbour – Kirsta 3001

Helsinki harbours – Harmaja 4042

Vuosaari harbour – Eestiluoto 4041

Valko Harbour – Täktarn 5042

Archipelago fairway Glosholm–Helsinki 4042

Kotka – Viikari 5142

Hamina – Suurmusta 5042

Germany , 19.12.2022

Wismar – Walfisch 2000

Walfisch – Timmendorf 2000

Lübeck – Travemünde 1000

Flensburg – Holnis 1000

Latvia , 19.12.2022

Port of Riga 1000

Riga to the Cape of Mersrags, fairway 1000

Norway , 19.12.2022

Svinesund – Halden 31//

Mossesund 9223

Drammensfjord 3212

Tønsberg, inner harbour 8101

Skåtøysund (Kragerø) 8143

Langårsund (Kragerø) 8144

Tromøysund (Arendal) 3110

Russian Federation , 19.12.2022

Port of St. Petersburg 62/3

St. Petersburg – E-point island Kotlin 52/2

E-point Kotlin – long. lighth. Tolbukhin 3001

Lighth. Tolbukhin – lighth. –Šepelevskij 20/0

Vyborg, port and bay 83/3

Island Vichrevoj – Island Sommers 2000

Sweden , 19.12.2022

Karlsborg – Malören	8246
Luleå – Björnklack	8246
Björnklack – Farstugrunden	4046
E and SE of Farstugrunden	4046
Sandgrönn fairway	5046
Rödkallen – Norströmsgrund	5046
Haraholmen – Nygrån	5046
Sea area off Nygrån	4046
Skelleftehamn – Gåsören	4046
Sea area off Gåsören	4046
Sea area off Bjuröklubb	4041
Western Quark (W of Holmöarna)	4041
Umeå – Väktaren	5041
SE of Väktaren	4041
Fairway to Husum	5041
Örnsköldsvik – Hörnskatan	5142
Hörnskatan – Skagsudde	5142
Ångermanälven north Sandö Bridge	5244
Ångermanälven south Sandö Bridge	5244
Härnösand – Härnön	4044
Sundsvall – Draghallan	4041
Draghallan – Åstholmsudde	4041
Hudiksvallfjärden	4041
Iggesund – Agö	4041
Sandarne – Hällgrund	4041
Ljusnefjärden – Störjungfrun	4041
Gävle – Eggegrund	5142
Öregrundsgrepen	4041
Hallstavik – Svartklubben	4041
Köping – Kvicksund	5144
Västerås – Grönsö	5142
Stockholm – Södertälje	4041
Södertälje – Fifong	4041
Norrköping – Hargökalv	4041
Oskarshamn – Furön	4041
Vänernborgsviken	5146
Fairway to Karlstad	5046
Fairway to Lidköping	4046