



Eisbericht Nr. 18

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Übersicht

In den Schären der Bottenwiek befindet sich bis 25cm dickes Festeis und weiter außerhalb kommt zuerst ebenes Eis und dann Neueis vor. In Norra Kvarken liegt bei Vaasa 10cm dickes Festeis, ansonsten kommt an den Küsten Neueis vor. In der Bottensee, dem Schärenmeer und dem Mälarsee kommt an geschützten Stellen dünnes ebenes Eis und entlang den Küsten Neueis. 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, langsam abschmelzendes Eis vor.

Overview

In the archipelagos of the Bay of Bothnia there is up to 25cm thick fast ice and further out there is first level ice and then new ice. In the Quark there is 10cm thick fast ice near Vaasa and else new ice along the coasts. In the Sea of Bothnia, the Archipelago Sea and Lake Mälaren, there is thin level ice in sheltered areas 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, slowly melting.

Bay of Bothnia

In the archipelagos of the northern Bay of Bothnia, there is 10–25 cm thick fast and further out 5-15cm thick level or very close ice. Still further out, there is new ice out to a distance of about 20-25nm from the coast. There is 10–20 cm thick fast ice between Hailuoto and Oulu. Level ice, and in places 5-15cm thick fast ice, is present in the inner archi-

pelagos south of about 65°N. Further out a 5-10nm wide zone of new ice on the Finnish side and on the Swedish side there is 3-7cm thick very open ice out to 10-15nm from the coast.

Only minor ice formation and overall no major change is expected.

The Quark

There is up to 10cm thick fast or level ice in the Vaasa archipelago. On the Swedish side thin level ice in sheltered regions and new ice and very open

thin ice further out and around Holmöarna. No larger change is expected.

Herstellung und Vertrieb

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Sea of Bothnia

In the archipelagos along the coasts there is mostly thin level ice on the Finnish side and new ice on the Swedish side. On the upper Ångermanälven,

there is 5–15 cm thick fast or level ice and new ice is present in the lower part. No larger change is expected.

Archipelago Sea

New ice is present in sheltered inner bays. Some melting may occur.

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. Some melting is expected.

Gulf of Finland

10-25cm 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 15–25 cm thick fast ice and in the entrance there is very open new ice. In places along the northern

coast and in sheltered places along the southern coast, there is thin level ice and new ice. On Lake Saimaa, there is 5–20 cm thick ice and new ice, in the southern part also places with open water. Some melting may occur, but overall no larger change is expected.

Gulf of Riga

In Väinameri there is fast ice and light nilas, on the fairways there is open water. In the Bay of Pärnu, there is a 10–15 cm thick fast ice out to the line Lindi-Uulu (~58°17'N) and further out very close nilas to the line Liu-Voiste (~58°12'N). Further

south very open ice to about 58°04'N. In the port of Riga and further on the fairway to Mersrags is open water. Some melting is expected.

Central Baltic

New ice in some sheltered areas, open water in

Ventspils. Some melting is expected. .

Southeastern Baltic

In the Curonian lagoon there is level ice and in the Vistula lagoon there is new ice. Some melting is

expected.

Western Baltic

The Stettin lagoon and the Peenestrom as well as the inner water around Rügen, south of Darss and Zingst and on the Schlei,. are covered by rotten,

thin level ice or new ice with areas of open water. Open water is present at Rostock and near Wismar. Further ice melt is expected.

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. Some 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	IC	22.12.
Sweden	Karlsborg and Lulea	2000 dwt	II	05.12.
	Karlsborg and Lulea	2000 dwt	I	25.12.
	Haraholmen and Skelleftehamn	2000 dwt	II	12.12.
	Haraholmen and Skelleftehamn	2000 dwt	I	25.12.
	Holmsund, Rundvik, Husum and Örnköldvik	2000 dwt	II	21.12.
	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 and ALE assist in the Bay of Bothnia. **TYRSKY** assists in the Lake Saimaa.

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 , 21.12.2022

Paernu, port and bay 5223

Moonsund 3112

Finland , 21.12.2022

Röyttä – Etukari 8345

Etukari – Ristinmatala 7245

Ajos – Ristinmatala 7245

Ristinmatala – Kemi 2 5145

Kemi 2 – Kemi 1 5145

Sea area SW of Kemi 1 4045

Kemi 2 – Ulkokrunni – Virpiniemi 8745

Oulu harbours – Kattilankalla 8745

Kattilankalla – Oulu 1 5145

Sea area SW of Oulu 1 4045

Raahe harbour – Heikinkari 2132

Heikinkari – Raahe lighthouse 2021

Raahe lighthouse – Nahkiainen 2021

Rahja harbour – Välimatala 2021

Vaelimatala to line Ulkokalla – Ykskivi 2021

Ykspihlaja – Repskär 5142

Repskär – Kakkola lighthouse 4042

Pietarsaari – Kallan 5142

Vaskiluoto – Ensten 5142

Rauma, Harbour – Kymäpihlaja 5042

Uusikaupunki harbour – KIRSTA 3001

Helsinki harbours – Harmaja 4042

Valko Harbour – Täktarn 5042

Kotka – Viikari 5142

Hamina – Suurmusta 5042

Germany , 21.12.2022

Stralsund – Palmer Ort 4000

Wolgast – Peenemünde 4000

Rostock – Warnemünde 1000

Latvia , 21.12.2022

Port of Riga 1100

Riga to the Cape of Mersrags, fairway 1000

Port of Ventspils 1000

Norway , 21.12.2022

Svinesund – Halden 31//

Mossesund 9223

Drammensfjord 3212

Tønsberg, inner harbour 8101

Skåtøysund (Kragerø) 8143

Langårsund (Kragerø) 8144

Russian Federation , 21.12.2022

Port of St. Petersburg 63/3

St. Petersburg – E-point island Kotlin 53/2

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 , 20.12.2022

Karlsborg – Malören	8346
Sea area off Malören	4046
Luleå – Björnklack	8246
Björnklack – Farstugrunden	4046
E and SE of Farstugrunden	4046
Sandgrönn fairway	4046
Rödkaullen – Norströmsgrund	4046
Haraholmen – Nygrån	5246
Sea area off Nygrån	2126
Skelleftehamn – Gåsören	5246
Sea area off Gåsören	4046
Sea area off Bjuröklubb	5142
Western Quark (W of Holmöarna)	4041
Umeå – Väktaren	5041
Fairway to Husum	2121
Örnsköldsvik – Hörnskatan	5142
Hörnskatan – Skagsudde	5142
Ångermanälven north Sandö Bridge	8244
Ångermanälven south Sandö Bridge	8244
Härnösand – Härnön	2124
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
Vänersborgsviken	5146
Fairway to Karlstad	5046
Fairway to Lidköping	4046