

## German Ice Report - No. 10

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AA	16235 26235 362/5 46235 51000 60//0 70//0
BB	16325 262/5
CC	15242 23122 32111 41110
DD	19232 25111 33112 44211 54211 63111 70//0
EE	10//0 41000 61000
FF	15221 24041 32041
GG	20//0 40//0
HH	15752 25202 331/1 41000 50//0
II	12251 23111 33302
KK	25212 32011
LL	13211 22001 31000 41000

Ice is drifting in SW direction, ice at open sea therefore is decreasing.

### North Sea coast

In the Northfrisian Wadden Sea there is mostly close to very close 10-20 cm thick ice, in harbours up to 30cm thick, up to 2m thick floebits occur. There is up to 30cm thick very close ice in the port of Hamburg. Farther out on the Elbe 10-15cm thick ice very close ice to Stadersand, then 5-15cm open to very open to Cuxhaven and open water out to Neuwerk. On the Weser there is 10-20cm open out to Bremerhaven. On the Jade thin ice and new ice in places. On the Ems there is close to open 5-15 cm thick ice or new ice. In the Eastfrisian Wadden Sea mostly new ice and thin ice, but in places like Wangerooge and Norderney there is also up to 15cm thick compact ice and floebits do occur the Kiel Canal is mostly ice free.

### Western Baltic Sea

In the inner fjord of Flensburg there is 5-15cm thick very close ice, further out very open new ice to lighthouse Kalkgrund. The Schlei is covered with 10-15 cm thick ice. In the harbour of Eckernförde there is close new ice and very open new ice in the bay. Very open new ice occurs in the inner Kieler harbour. In Heiligenhafen there is very close 5-10 cm thick ice. In Fehmarnsund and in the Fehmarnbelt there is open water. In the harbour of Neustadt there is 5-10cm thick open ice, the Bight is icefree. On the Trave and in the harbour of Travemünde there is close 10-15cm thick ice, farther out 5-10cm thick open ice. In the harbour of Wismar 10-15cm thick close ice, farther out to Walfisch 10-15cm thick fast ice, to Timmendorf 5-10cm very close ice and open thin ice to the approach buoy. In Rostock the Unterwarnow is covered with up to 20 cm thick ice, in the overseas ports there is 5-10cm open ice and at Warnemünde very open thin ice. The Bodden waters south of Darß and Zingst are covered with 10-20cm thick ice. Outside Zingst open water.

### Southern Baltic Sea

The Bodden waters between Rügen and Hiddensee and the northern approach to Stralsund are covered with 10-20 cm thick ice. In the harbour of Stralsund and on the eastern approach to Stralsund there is 10-15 cm thick compact ice. At the coasts of the Greifswalder Bodden there is 10-20 cm thick fast ice, farther out compact 10-15 cm thick ice. On the northern Peenestrom there is compact 10-20 cm thick ice. Southern Peenestrom and Kleines Haff are covered with 10-20 cm thick fast ice. In the harbour of Sassnitz there is 10-15cm thick open ice and in Mukran there is open water. Along the outer coast of Usedom there is 10-15cm thick compact ice. In the Pomeranian Bight there is close thin ice and new ice which is drifting to the SW towards the coast.

### Outlook

New ice formation will be slow. At open sea, specially in the Pomeranian Bay, the ice will drift in SW-direction towards the coast. At the Baltic coast an increasing sea level will break up some of the ice cover in the bays and fjords.

**Restrictions**

The northern approach to Stralsund and Bodden waters south of Darß and Zingst are closed for navigation.

Only daytime navigation is allowed in the eastern approach to Stralsund and in approaches to Wolgast as well as to the harbours in Greifswalder Bodden and Kleines Haff.

To Stralsund port, to Wolgast port and to ports in Greifswalder Bodden use of pilot are mandatory.

Only ships with minimum ice class 1C and engine power not less than 1000 kW are assisted to Stralsund, Wolgast and the harbours in the southern Greifswalder Bodden (Lubmin, Vierow, Ladebow).

**Icebreakers**

There is 24h ice breaking assistance in the port of Hamburg.

ARKONA and some icebreaking vessels are working in the eastern waters.

BSH - Ice Service