

## German Ice Report - No. 09

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Ice growth continued.

### 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 1m 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 to Stadersand, then close ice at Brunsbüttel, open ice to Großer Vogelsand and open water out to the approach buoy. On the Weser there is from 10-15cm close ice at Bremen to open water with new ice at 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 does occur, but in places like Wangrooge and Norderney there is also up to 15cm thick compact ice. On Kiel Canal there is new ice and open thin ice in places.

### Western Baltic Sea

In the inner fjord of Flensburg there is 5-15cm thick very close ice. 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 to open new ice occurs in the Kieler Förde. In Heiligenhafen there is very close 5-10 cm thick ice. In Fehmarnsund and in the Fehmarnbelt there is some new ice. In the harbour of Neustadt and in the Bight of Neustadt there is 5-10cm thick very close ice. On the Trave there is open 10-15cm thick ice, in the harbour of Travemünde very open thin ice and farther out thin open ice. In the harbour of Wismar thin open ice, farther out to Walfisch 10-15cm thick fast ice, to Timmendorf 5-10cm very close ice and close new ice to the approach buoy. In Rostock the Unterwarnow is covered with up to 10 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 10-15cm thick ice. Outside Zingst there is a belt of frozen shuga.

### 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 very close to compact 10-15 cm thick ice. At the coasts of the Greifswalder Bodden there is 10-20 cm thick fast ice, farther out compact 5-15 cm thick ice. On the northern Peenestrom from Wolgast to Ruden and in Osttief there is compact 10-20 cm thick ice. Southern Peenestrom and Kleines Haff are covered with 10-20 cm thick fast ice. In the harbours of Sassnitz and Mukran as well as farther out there is close new ice and thin ice. Along the outer coasts of Rügen and Usedom and in the Pomeranian Bight there is close thin ice, new ice and ice formation.

### Outlook

The ice formation will continue at a somewhat slower pace.

**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