

6. Alongshore variations of shore cliff height and beach width in relations to morphodynamic type of the shores of South-Eastern Baltic

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The relations between terrace height (fore dune or cliff), beach width and morphodynamic type of the shore segments in the South-Eastern Baltic were discussed on the basis of field survey made during May–July 2018 with a step of 1 km along 147 km sea shore at the Kaliningrad Oblast (Russia).

Estimates of the input of eroded material to the Baltic Sea differ by more than 2 times (8.4–19.0 million m³/year) due to the lack of reliable data on the length and height of an eroded shore. The field survey (in the frame of RFBR Project 18-05-01145) was made during May–July 2018 with a step of 1 km along 147 km sea shore at the Kaliningrad Oblast (Russia), the South-East Baltic. The beach width, the height of cliff, geomorphological characteristics were collected.

The heights of fore dune on the Vistula and Curonian spits are within 5–8 m and 6–12 m, respectively, the heights of the fore dune at the eroded segments are somewhat less – between 5–6 m and 6–9 m, respectively.

The cliff at the western shore of the Sambian Peninsula is partly protected by fore dune (3–5 m height) along with 30 km, the eroded part (35–40 m height) has the length of 6 km. The cliff at the northern shore of the Samian Peninsula (varies from 45–50 m to 5–6 m) is eroded along its entire length (18 km). Further towards the Curonian Spit, the fore dune (6–8 m) is formed. The inverse relations between shore bench (terrace) and beach width was revealed. The higher is fore dune or cliff the less is beach width.

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