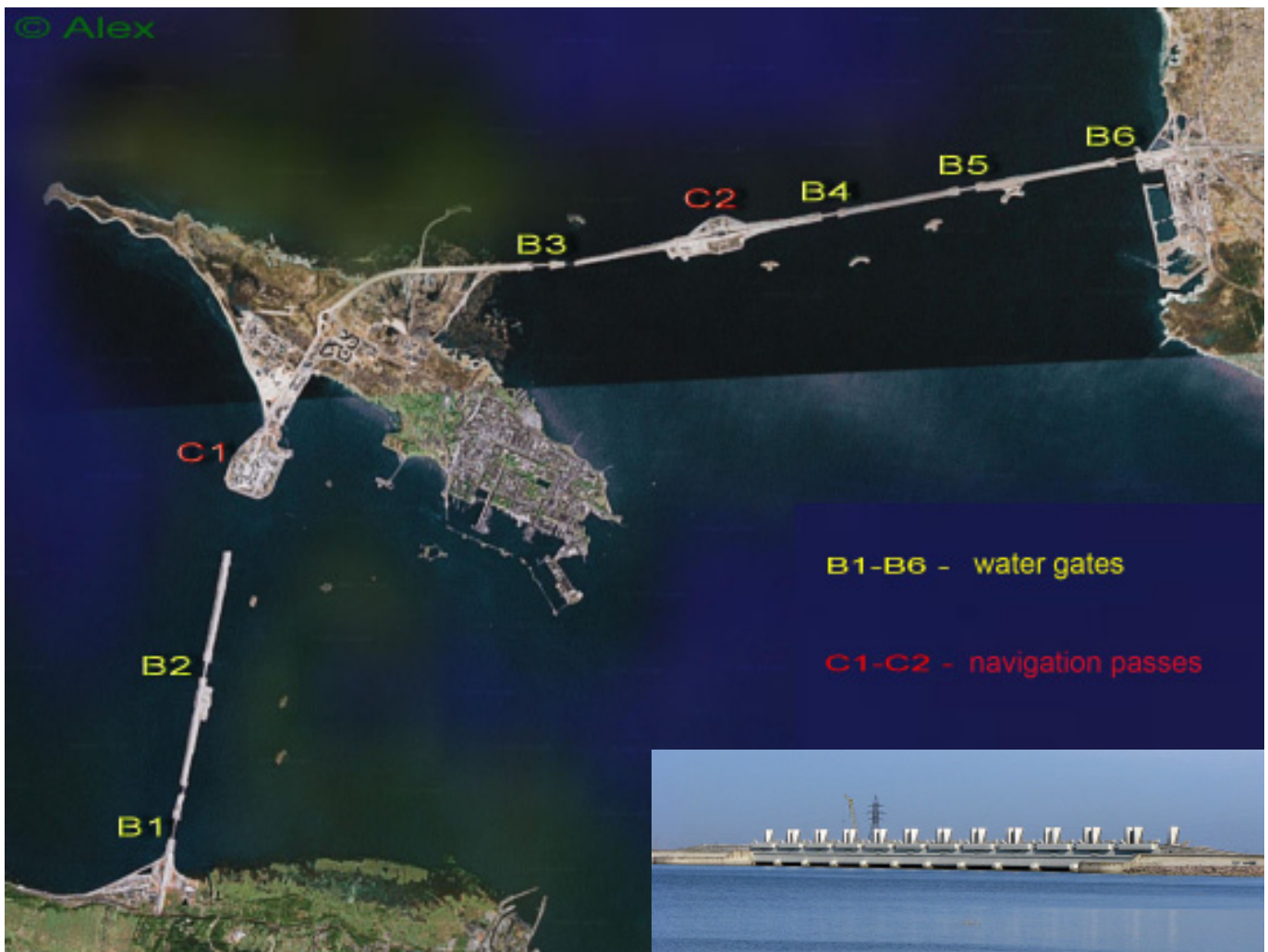


# Saint-Petersburg Flood Protection Barrier



The structure of the Flood Protection Barrier includes 11 stone-and-ground check dams, 6 water gates, 2 navigation passes (C-1 and C-2).

C-1: The navigation pass C-1 is designed for seagoing ships with displacement up to 120 ths. tons and river-sea vessels with displacement up to 4 ths. tons. The length of the channel is 273 m, the wide of fairway – 200 m, the depth - 16 m. If the forecast fixes the threat of flood, the floating dams at C-1 and water gates will be closed. The tunnel is constructed under the water and the basement of C-1. It provides 6 traffic lines.

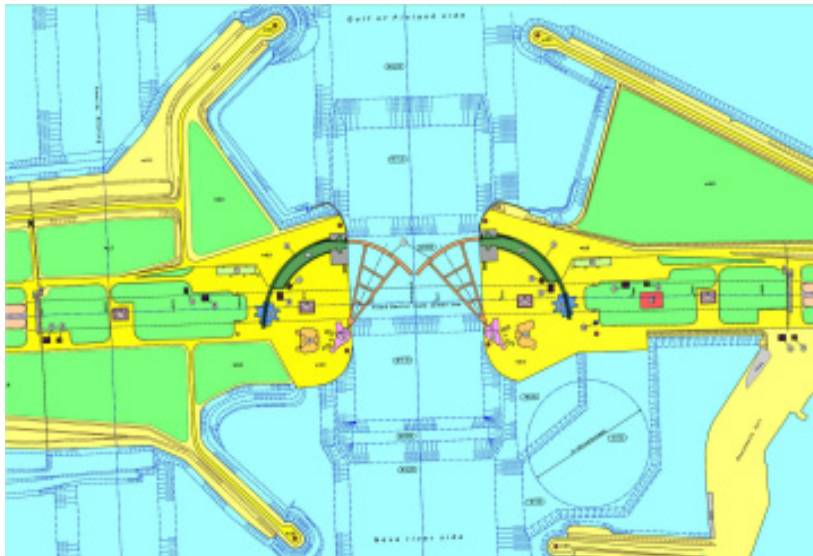
C-2: The navigation pass C2 is designed for river-sea vessels with the draught up to 5,5 m.

It is a bridge with gate-operating mechanism. The width – 110 m, the depth – 7 m.

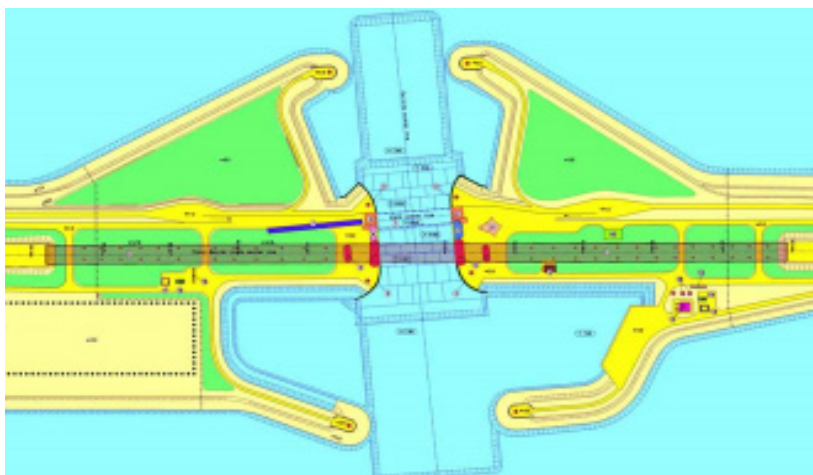
Water gates B1 and B2 have 12 culverts each. Width of the culvert – 24 m, depth at the threshold – 2,5 m. Water gates B4, B5, B6 have 6 culverts each. Width of the culvert – 24 m, depth at the threshold – 5 m. Water gate B3 has 10 culverts. Width of the culvert – 24 m, depth at the threshold – 2,5 m. All gates have segment gates.

Check dams D1 – D11 have the height 8 m up the sea level.

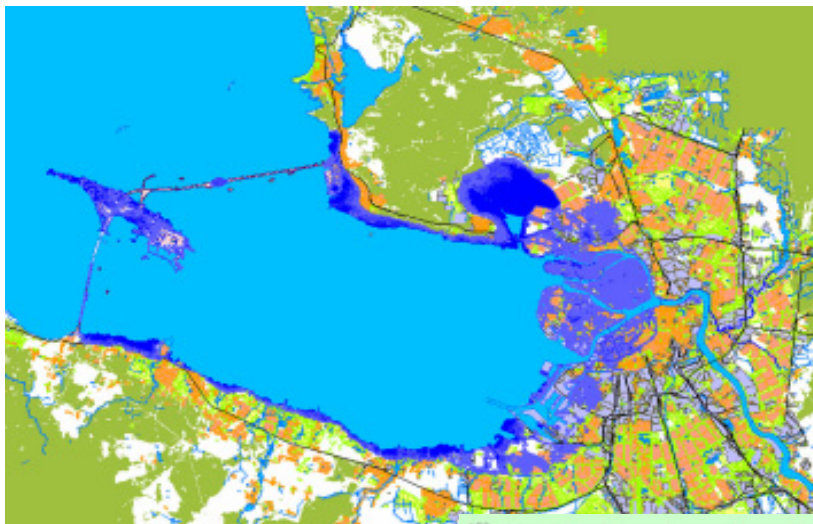
Total length of the dam – 25,4 km. On water area – 22,2 km.



The navigation pass C-1



The navigation pass C-2



The flooded territory is shown.  
The height of flood - 3 m.

Frequency of floods

The height of flood

