ARTWEI kick-off meeting Warnemuende 25th – 27th April 2010

Vistula Lagoon

Piotr Margonski¹, Boris Chubarenko²

¹- Sea Fishery Institute, Gdynia, Poland **pmargon@mir.gdynia.pl**

² – Atlantic Branch of P.P.Shirshov Institute of Oceanology of Russian Academy of Sciences, Kaliningrad, Russia chuboris@mail.ru





Importance for the Baltic:

Lagoons accept seeward river drain flow from main part of the South and Eastern Baltic transboundary catchments and keep the water during a residence time of 1-3 months

Chubarenko B. The role of coastal lagoons in land-sea transport of water and substances in the South-east Baltic. / Transboundary waters and basins in the South-East Baltic, ed. by B.Chubarenko, – Kaliningrad: Terra Baltica, 2008, 291-300 pp

Chubarenko B. The role of coastal lagoons in land-sea transport of water and substances in the South-east Baltic. / Transboundary waters and basins in the South-East Baltic, ed. by B.Chubarenko, – Kaliningrad: Terra Baltica, 2008, 291-300 pp

Importance for the Baltic:

Lagoons modify a temporal variations of the water discharge and, consequently, sediment, nutrient and pollution load toward the Baltic Sea















Water budget for the Vistula Lagoon

Water gain: River runoff - 3.68 km³/year Precipitation – 0.5 km³/year Inflow from the sea - 17 km³/year

Water loss: Evaporation - 0.65 km³/year Outflow to the sea - 20.6 km³/year

Water budget components for the Vistula lagoon



<u>Chubarenko, B.V.,</u> Chubarenko, I.P., Baudler, H. Comparison of Darss-Zingst Bodden Chain and Vistula Lagoon (Baltic Sea) in a view of hydrodynamic numerical modelling. The Baltica. 2005. V.18-2, pp. 56-67.

Salinity variability



<u>Chubarenko, B.V.</u>, Chubarenko, I.P., Baudler, H. Comparison of Darss-Zingst Bodden Chain and Vistula Lagoon (Baltic Sea) in a view of hydrodynamic numerical modelling. The Baltica. 2005. V.18-2, pp. 56-67.



Chubarenko, B.V., Chubarenko, I.P., Baudler, H. Comparison of Darss-Zingst Bodden Chain and Vistula Lagoon (Baltic Sea) in a view of hydrodynamic numerical modelling. The Baltica. 2005. V.18-2, pp. 56-67.



Population density





Early earnings average/eur

YEAR_EUR

Personal income

