



The use of a DGPS system in examining changes in the bathymetry of the Piastowski Canal (West Pomerania)

A. Banachowicz (2), R. Bober (1), A. Dolgopolow (3), Z. Kozłowski (1), **A. Wolski** (1)

(1) Maritime University of Szczecin (Poland), (2) Gdynia Maritime University (Poland), (3) Maritime Office in Szczecin (Poland)

Constant monitoring of the fairway bottom and shore parameters after the performance of considerable hydro-technical works together with new hydro-technical engineering solutions makes it a significant part of navigational safety. Modern satellite navigation systems can be used to inspect them after checking the accuracy of operation in a given area. DGPS, a radio navigational system commonly used at sea constitutes one of the ways to determine a position accurately. In the area of the Swinoujście - Szczecin fairway there are many possibilities to operate a DPGS system by making use of corrections transmitted by the reference stations in Dziwnów, Hammerodde and Wüstrow as well the EGNOS system. This article presents the results of the examination of the bathymetry of the entrance to the Piastowski Canal after its reconstruction using a DGPS system.