



Using GPS reference station near Polish Polar Station in Spitsbergen for environment monitoring and geodynamic purposes

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In the period of 1988-2005 four polar expeditions have been organized by the Warsaw University of Technology Faculty of Geodesy and Cartography. The main goals of the expeditions were to study the motion of the Hans-glacier situated close by the Polish polar station (belonging to Institute of Geophysics of the Polish Academy of Sciences) and geodynamical studies of the area of Hornsund-fjord. During the last three expeditions mainly GPS satellite measuring technologies were applied. During the expedition of 2005 the GPS reference station has been installed near the polar station. The preliminary results are presented in the paper.