



Monitoring of thickness and movements of the Hans glacier surface in a period of 2005-2006 by using GPS-RTK technology

K.Wezka, A.Pachuta, M.Rajner, D.Prochniewicz, J.Walo, A.Adamek

Warsaw University of Technology, Faculty of Geodesy and Cartography
(pachuta@gik.pw.edu.pl, +4822 6210052)

The aim of the expedition organised in the summer 2006 by the Faculty of Geodesy and Cartography of the Warsaw University of Technology was the determination of thickness and motion of the selected part of the Hans glacier. Based on the surveys data from the last year the lateral profile has been staked out and set up near the 4th ablation pole. GPS-RTK surveys were undertaken on the profile in three epochs. The technology has provided the determination of the glacier motion by the most useful and economic method. The paper presents the analysis of the measurements.