



## **Monitoring of the Hans-glacier movement dynamics (Hornsund SW Spitsbergen, Svalbard)**

J. Walo (1), K. Puczko (2), A. Adamek (1,2), K. Węzka (1), M. Rajner (1), Z. Malinowski (1)

(1) Institute of Geodesy and Geodetic Astronomy, Warsaw University of Technology, Poland,

(2) Institute of Geophysics, Polish Academy of Sciences, Warsaw, Poland

(walus@gik.pw.edu.pl / Fax: +4822-6210052 / Phone: +4822-6607392)

Surface speed of the glacier is an important information for glaciological studies. Surface speed of the Hans-glacier has been determined since last several years mainly applying total-station instruments. GPS satellite measurements during last few years make possible to extend the glacier monitoring and considerably hasten the measuring process. The paper presents the observations done last summer of the positions of ablation poles oblong and crosswise profiles. The results concerning the surface motion of an ablation pole are presented in the paper.