



Local geodynamic researches in Polish Sudetes and the Mediterranean region

S. Cacon (1), B. Kontny (1), J. Bosy (1), G. Cello (2), L. Piccardi (3), E. Tondi (2), G. Drakatos (4) and A. Ganas (4)

(1) Department of Geodesy and Photogrammetry, Agricultural University of Wrocław, Grunwaldzka 53, 50-357 Wrocław, Poland, (2) Department of Geosciences, University of Camerino, Via Gentile III da Varano, 62032 Camerino (MC), Italy, (3) C.N.R. - Institute of Geosciences and Earth Resources - Florence Section, Via G. La Pira 4, Florence, 50121, Italy, (4) Institute of Geodynamics, National Observatory of Athens, Lofos Nymfon, Thissio, Athens, GR-11810 Greece (Contact Email cacon@kgf.ar.wroc.pl / Fax-Nr. +4871 3205617)

The general characteristic of local tectonic movements researches based on the own monitoring system are presented in the paper. The system has been installed on the selected objects in Polish Sudetes (e.g. Snieznik Massif and Dobromierz) and in the Mediterranean basin (Gargano and Norcia in Italy, Kapareli in Greece). These research areas are located in the zones with different scale of the recent tectonic activity. The main notice is focused on research network organisation principles and monitoring of movements using GPS. The accuracy analysis of repeated GPS observations with respect to tectonic movements detection is presented. This work has been supported by the COST Action 625 "3D Monitoring of Active Tectonic Structures".