Geophysical Research Abstracts, Vol. 8, 01404, 2006

SRef-ID: 1607-7962/gra/EGU06-A-01404 © European Geosciences Union 2006



Current geodynamic investigations in Romania in the frame of CERGOP-2

Tiberiu Rus(1), Lucian Besutiu(2), Ioan Buse(3), Ioan Stoian(3), Vasile Nacu(3)

(1) National Agency for Cadastre and Land Registration, (2) Institute of Geodynamic, (3) National Centre for Geodesy, Cartography, Photogrammetry and Remote Sensing (rus@utcb.ro / Fax: +40-21-3165224)

Starting from 2002 the CERGOP-2/Environment project concentrated geodynamic research in the region of Central Europe including 17 countries. The project continues the previous phase - CERGOP-1(1994-2000) of geodynamic investigations in this area. Among the participating countries, Romania represented by National Centre for Geodesy, Cartography, Photogrammetry and Remote Sensing (NCGCPRS), investigates the three dimensional plate kinematics on this territory. Romania it is a well known region in Europe for their active seismicity with strong earthquakes. Within the frame of CERGOP1 and CERGOP2/Environment projects, geodynamic investigations were supported by geodetic observations, mainly satellite geodetic data collected over a time span of more than 10 years (1995-2005). GPS epoch and permanent stations are now established in Romania for geodynamic investigations. Seven GPS observation campaigns organized within the CEGRN (Central European Geodynamic Regional Network), site velocities and coordinate time series computed represents the main geodetic contribution to this research on the Romanian territory. Based on these achievements the geodynamic investigations could reveal new aspects for this interesting area. As a result of the project the "Monograph of geodynamics research in Romania - Vrancea region" was jointly prepared by scientists from the Institute of Geodynamic of the Romanian Academy and NCGCPRS. The results obtained within CERGOP2 will contribute to the better understanding of the complicated mechanisms generating the seismicity in Romania and to the improvement of the authorities tools in order to reduce the seismic damages. The investigations on this important topic should be continued in the future according to the well organized frame of the CERGOP.