Geophysical Research Abstracts, Vol. 8, 01261, 2006 SRef-ID: 1607-7962/gra/EGU06-A-01261 © European Geosciences Union 2006



A contribution of the Geodetic Observatory Pecny -Ondrejov to global and regional geodynamics

J. Simek, J. Dousa, J. Kostelecky (jun.), J. Kostelecky and V. Palinkas

Research Institute of Geodesy, Topography and Cartography, GO Pecny, CZ - 251 65 Ondrejov 244 (simek@pecny.asu.cas.cz)

The results of experimental research of geodetic applications in geodynamics currently carried out at the Geodetic Observatory Pecny, Ondrejov, Czech Republic, are presented and discussed from the point of view of an Integrated Global Geodetic Observation Project recently launched by IAG. In global geodynamics the attention is concentrated to EOP determination by combination of different techniques of space geodesy and multi-lateral collaboration is conducted within IAG international scientific services (EPN, IGS analysis centers). Investigation in regional geodynamics are supported by a dense network of permanent GNSS stations completed by continuous tidal gravity observations and repeated precise absolute gravity observations along with environmental parameters. Contribution to GNSS ground based meteorology is stressed and participation in international projects and services is summarized. Instrumental development foreseen for 2006 will increase the scientific potential of the observatory.