

# GEOMAGNETIC OBSERVATORY “ODESSA”: FROM THE PAST TO THE FUTURE

*Yu.P. Sumaruk*

Institute of Geophysics of National Academy of Sciences of Ukraine (IGF NASU, Ukraine)

[yuri\\_sumaruk@ukr.net](mailto:yuri_sumaruk@ukr.net)

Magnetic observatory “Odessa” is one of the oldest on the territory of East Europa. The registration of geomagnetic field was began at the end of eighteenth century. Unfortunately the data were saved only since 1930. At the end of sixteenth years of twentieth century for registration of geomagnetic variation observatory was equipped by new devices such as magnetometer of Bobrov type and proton magnetometer for absolute measurements.

Now the cooperation agreement between the Helmholtz Zentrum Potsdam, Deutsches GeoForschungs Zentrum (GFZ) and Institute of Geophysics National Academy of Sciences of Ukraine was signed. According to the agreement the GFZ will installed at the observatory “Odessa” modern digital instruments. Thus magnetic observatory will be upgraded to the up-to-date standard and may be joined to INTERMAGNET network.

The magnetic observatory “Odessa” data are valuable and important for the scientific investigation of near-Earth environments because observatory is located near the focus of the ionospheric  $S_q$  current system. The data are valuable for studying of internal induction currents in the Earth and in the sea. The continuation of the long row of the geomagnetic absolute measurements of elements of the geomagnetic field at the observatory is important for studying of the secular variations and their separation on internal and external sources.