



Observation for the changes of the gravitational field of the Earth - one of fundamental factors that form the climate of planet

B. Kapochkin (1) and V. Dolia (2)

(1) Odesa State Ecological University, Ukraine (tsb1@mail.ru), (2) Odesa State Ecological University, Ukraine (vadim@earth.org.ua)

The gravitational field (GF) of the Earth changes in space and time. These changes are enough for influence on circulation of atmosphere and planet ocean that is repeatedly shown in modern researches of the given interrelation. Atmospheric and oceanic circulation - one of the cores climate forming ingredients of planet.

We had investigated the influence of the gravitational field on a circulating regime of atmosphere in different widths of the Earth. The direct relationship of cause and effect is found.

The basic programs of studying of interrelations of moving covers of the Earth, climate fluctuations and gravitational field - GOCE and GRACE, but for full understanding of these processes, in our opinion, it is necessary to generate a net of land points of observation over gravitational field change (surface level of geoid).

We have intentions to establish a net of sensors on the territory of Ukraine for observation over the main climate forming factor - a gravitational field (in the form of geoid).

We will be glad to cooperation.