

# Dynamics of relative movements in the Earth-Moon System.

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The spatio-temporal technology (STT) developed by Bulatova (1998-2001) is represented in the terms of 3D geometry and astronomy as a change in impact direction of the sources (Moon and etc.) on the Earth. The technology STT consists of three-dimensional model based on Ptolomaios idea of the immobile Earth [1] and the moving source method (MDS) [2,3]. The algorithm of this technology works equally for global and regional scales.

In this work the MDS method was used to research the positional relationship of the Earth (Moon and etc.) and the dynamics of its oscillations with respect to equatorial plane for the past twenty five years taking into consideration the following astrometric parameters: their declination and distance from the Earth. The goal of these studies is the elucidation of the contribution of the Moon direction influence to Earth's active processes.

## References

- [1] Bulatova N.P. About the ray's angles for the neutrino tomography the Earth/ EGS Annales Geophysicae. Suppl. V. 16, Part 1. 1998, P.34.
- [2] Bulatova N.P. "The method of moving source" (MDS) and it's application for the Earth's researches. Vestnik DGGGGS RAS, 2000, №2(12), P.110-125. Метод движущегося источника и его применение к исследованию Земли// Вестник ОГТГГН РАН. М.:ОИФЗ РАН, Т.1. №2(12). 2000. С. 110-125.(rus/)
- [3] Bulatova N.P. "The method of moving source" (MDS) and it's application for the Earth's researches. Geophysical. Research Abstracts (EGS) 26 th General Assembly Society Symposium, Solid Earth Geophysic & Geodesy. 2001, V.3, N1.