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GEO-6 Project for Galileo Data Utilization and Czech Participation in

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The aim of the GEO-6 project "Scientific research Using GNSS" is to propose and broaden scientific utilization of future GNSS Galileo system data in research. It is a joint project of seven institutions from six countries led by the AtosOrigin company from Spain. The core of the project consists from six projects in five priority areas: PA-1 Remote sensing of the ocean using GNSS reflections, PA-2a Investigating GNSS ionospheric data assimilation, PA-2b 3-D gravity wave detection and determination (both PA-2a and PA-2b are ionospheric topics), PA-3 Demonstration of capability for operational forecasting of atmospheric delays, PA-4 GNSS seismometer, PA-5 Spacecraft formation flying using global navigation satellite systems. Institute of Atmospheric Physics, Prague, Czech Republic is responsible for PA-2b, where we developed and tested (to the extent allowed by available data) an algorithm and computer code for the 3-D detection of gravity waves and determination of their characteristics, particularly of medium and smaller-scale waves. The paper will present basic description of the project with more details concerning Czech participation.