



Carl Friedrich Gauß and nowadays global and solar system networking

H.O. Rucker (1), M. Groeschl (2), M. Scherf (1), P. Melichar (3)

- (1) Space Research Institute, Austrian Academy of Sciences, Schmiedlstraße 6, 8042 Graz, Austria (rucker@oeaw.ac.at)
- (2) Public Relations, Austrian Academy of Sciences, Dr. Ignaz Seipel-Platz 2, 1010 Vienna, Austria
- (3) Central Institute for Meteorology and Geodynamics, Hohe Warte 38, 1190 Vienna, Austria

Abstract

Carl Friedrich Gauß acted as the first initiator of global networking with regard to terrestrial magnetic measurements. Present solar system networking - for instance observations of solar wind properties - rely on the same methodological approach with regard to combined ground-based and space-based measurements. Corresponding to global observations of the magnetic field by C.F. Gauß, correlations between solar activity, physics of interplanetary space, and phenomena in the terrestrial environment can only be understood by combined scientific observations. The so-called “Space Weather” provides an understanding of how global and solar system networking has been improved since the times of C.F. Gauß up to now. The poster illustrates C.F. Gauß’ initiative in global magnetic measurements and visualizes nowadays global networking on Space Weather issues, in particular under the auspices of IYA.

