Geophysical Research Abstracts Vol. 20, EGU2018-14670-1, 2018 EGU General Assembly 2018 © Author(s) 2018. CC Attribution 4.0 license.



## Statistical search for solar wind source variation events

Andrea Opitz and Klaudia Szabo

Wigner Research Centre for Physics, Institute for Nuclear and Particle Physics, Department of Space Physics and Technology, Budapest, Hungary (opitz.andrea@wigner.mta.hu)

Exploiting the large number of spacecraft observing solar wind plasma, we perform a statistical search for solar wind source variation events. Comparison of in situ solar wind obervations from multi-spacecraft (STEREO, SOHO, ACE, WIND, VEX and MEX), results in finding such events. We analyze these changes in the solar source considering the spatial variability and temporal evolution on different scales. The in-situ results are validated by remote observations of the solar corona. This study provides information on the solar wind persistence. Since this work is performed from 2006 until 2017, we can follow the solar activity cycle influence on the occurrence of such events.