

## **Improvements of the SOS-W automatic scheduler for special campaign support**

S.Riepl<sup>1</sup>, A.Boer<sup>1</sup>, C.Schade<sup>1</sup>, T.Schüler<sup>1</sup>

<sup>1</sup>Federal Agency for Cartography and Geodesy, Geodetic Observatory Wettzell,  
Sackenriederstr. 25  
93444 Bad Kötzing, Germany

Since the end of 2016, the SOS-W is exclusively operated in autonomous mode, relying on an automatic scheduler for observation planning. As the number of missions requiring laser tracking is steadily growing and the number of special campaigns is increasing, it is quite an effort for an operator to keep track of which observation is carried out next. Therefore an additional feature has been added to the SOS-W automatic scheduler, which enables for flexible allocation of observation time for certain targets in a predefined manner, which overrides the selection of the ordinary schedule for user supplied observation intervals. The information is passed to the automatic scheduler in form of a file with simple but effective syntax. The mechanism was tested during the SUCCESS campaign (intensive tracking of Galileo satellites during eclipses) and was able to realize the required tracking scenarios.