

Workshop Resolutions

Closing Session

21st International Workshop on Laser Ranging

November 09, 2018

Workshop resolution / from IGS (1 of 2)

- IGS (on behalf of the scientific GNSS community) asks the ILRS workshop to adopt Recommendation 1 (of 2):

Recognizing the increasing load on ILRS stations caused by the increasing number of GNSS satellites equipped with laser retroreflectors and the priority of geodetic laser satellites and as well as the needs from other missions;

considering, furthermore, the importance of SLR tracking for orbit validation and analysis of GNSS satellites as well as the need to achieve a homogeneous coverage of all GNSS constellations, satellite types, orbital planes and individual spacecraft;

IGS recommends that the ILRS

retains the general prioritization of geodetic laser satellites before GNSS satellites and satellites from other missions and on request by the GNSS providers or the GNSS user community gives priority to dedicated campaigns for tracking of selected GNSS satellites at the expense of a reduced background tracking activity and uses remaining tracking resources to select and track the remaining GNSS satellites in a randomized manner, where each station can freely select a set of GNSS satellites for tracking on a weekly basis.

Workshop resolution / from IGS (2 of 2)

- IGS Recommendation 2 (of 2):

Considering the increasing number of GNSS satellites in geosynchronous and geostationary orbit and the special challenges for determination and validation of the respective orbits

the IGS encourages

the extension of SLR stations supporting high-altitude tracking, specifically in the Asia-Pacific region, and the transition to kHz laser systems enabling shorter normal point duration.

Workshop resolution / from ILRS

- On behalf of the ILRS:
 - GNSS constellations may select 4 to 8 satellites for high tracking priority
 - Stations should take more robust sampling of the selected satellites (3 segments per pass)
 - Constellations may switch to different selections at agreed intervals
 - Some number of additional GNSS satellites in each constellation will remain on the ILRS tracking list at lower priority
 - Stations should track these satellites on a non-interference basis with other requirements

Workshop resolution / from participants

- On behalf of the workshop participants:

Recognizing the great success of the 21st International Workshop on Laser Ranging,

the Workshop participants

express their sincere appreciation to:

- SERC for organizing and hosting the Workshop, and
- David Ball, Michelle Fulton, Claire Dodds-Eden, and all the members of the Local Organizing Committee for their exhaustive efforts and meticulous organization that enabled this successful workshop.