Summary of session G2.2 :

The International Terrestrial Reference Frame: Elaboration, Usage and Applications

Dear Participants,

It is with great pleasure that we welcome you to Session G2.2 "The International Terrestrial Reference Frame: Elaboration, Usage and Applications".

During the chat, the papers of session G2.2 for which displays have been uploaded will be presented by following the order outlined in the EGU2020 program available at

https://meetingorganizer.copernicus.org/EGU2020/displays/35328.

Although not all of the submitted abstracts will be presented during our virtual session, we are very pleased to see that there is a large variety of topics that we will be able to cover in our chat-room.

These are the main topics that will be addressed and discussed:

- The ITRF is only possible with the invaluable contribution of the analysis centers involved in the reprocessing of the geodetic data sets from VLBI, SLR, GNSS and DORIS now spanning up to four decades. The emphasis will be on the improvements on models and data analysis strategies within the framework established by the IERS Conventions. The session will host VLBI, DORIS and GNSS-focused contributions where state-of-art reprocessing and (single-technique) combination approaches will be discussed.

- Systematic Errors characterizing the observing systems adopted in Space-Geodesy. The Session will focus in particular on VLBI with a contribution on the effect of radio-telescope structural deformations on VLBI-derived geodetic parameters.

- Multi-satellite GNSS solutions have become the new standard ever since additional constellations (i.e. Galileo, BeiDou) have been launched. We have papers discussing the contributions of Galileo and GLONASS observations into GNSS reprocessing as well discussions as to the impact of Galileo observations on EOP parameters.

- Strategies for optimally combining space-geodetic inputs in TRF analyses will also be discussed. Emphasis will be given to time-series based approaches, to the investigation of biases affecting the single-technique frame inputs and to how this should be treated in a multi-technique combination framework.

We appreciate your commitment to EGU2020 and we would like to thank you all in advance for attending Session G2.2 and for having quickly adapted to the "Virtual Format".

Note also that it is possible to make comments on uploaded presentations by clicking on the "Post comments" icon placed after each Abstract.

Enjoy EGU2020-Sharing Geoscience On-Line,

The Conveners of Session G2.2