GGOS Bureau and Standing Committees: Recent Updates and Future Tasks

GGOS Bureau of Networks and Observations: Overview

IAG Services: Recent Developments

Bureau Leadership:

Objectives:

Gross):

Standing Committee on Performance Simulations and Architectural Trade-Offs (PLATO) (Daniela Thaller/Richard

• Monitor and project the status and evolution of the GGOS space geodesy network in terms of location and performance

• Develop a guidelines document of standard nomenclature (June 30, 2017)

• Support and advocate for new missions; new calls expected in 2017/2018 that shall be supported

• Demonstration of Phase 1 first operational system (June 2019)

• Resolve issues and applicability of the Australian GL scheme and recommend schema (EGU 2018)

• Deﬁnition of the requirements; deﬁnition of Phase 1 (March 1, 2018)

• Implementation of the operational data product metadata scheme (December 31, 2017)

• Simulation studies "space" to assess impact on reference frame products of: co-location in space, space ties, available sat-

Committees and Joint Working Groups play an essential role in the Bureau activity. The Standing Committee on Performance Simulations and Architectural Trade-off (PLATO) uses simulation and analysis techniques to project future network capability and to examine trade-off solutions. The Bureau and Information working group is working on new approaches to further integrate information in a way which will allow for a more systematic analysis of trade-offs. The Bureau continues to meet with organizations to discuss the most appropriate way to handle this task. The Bureau continues to work on the development of the Council of Members as an effective way to provide feedback to the PPAC on the impact of new networks and ideas for future network development.

• Simulation studies "ground" to assess impact on reference frame products of: location in space, site performance and infrastructure critical for the development of data products essential to GGOS.

• 2016 IGS Workshop held in Sydney Australia in February 2016; proceedings and presentations/videos available through IGS website (http://igsworkshop2016.ign.fr)

• IGS network now consists of 509 stations, 183 multi-GNSS, 198 real-time (with the IAG services)

• IGS products transitioned to IGS14 Reference Frame in January 2017

• IGS Analysis Coordination now performed by Geosciences Australia/MIT team using cloud-based server technology

• IGS Strategic Plan revised and in review, aided by community input through Strategic Planning Survey; currently in review by IGS Governing Board with expected publication on IGS website by May/June 2017

• IGS Working Group to support GNSS Performance Monitoring WG and Trial Project formed; currently deﬁning monitoring parameters, initiating trial project

• 20th International Workshop on Laser Ranging held at GFZ in October 2016 (http://www.iag-aig.org/Standards/Commissions/Com-WK gs/2016/)

• 2017 ILRS Technical Workshop to be held in Riga Latvia hosted by IGS and and Conceptual University of the Ocean of St Petersburg and held June 14/17 2017 (http://ilrs.gsfc.nasa.gov/docs/2017/2017ILRS_TechnicalWorkshop_circular1_20170228.pdf)

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• DORIS special issue in Advances in Space Research (co-editors: Frank G. Lemoine and Ernst J.O. Schrama) published December 2016

• New Working Group formed on NRT DORIS data (chair: D. Dettmering) to examine the relevance of such products

• With the recent addition of DORIS, Wettzell is now a new four techniques co-location site

• Complementing the work done about “DORIS Starec ground antenna characterization and impact on the combination of space geodetic data from DORIS and GNSS”, Burney et al. (2016)

• The ASC has implemented the new ITRF2014 in its operational products; the US National Geodetic Survey has implemented the new ITRF2014 for NGS projects.

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