

June 22,2021

**ILRS QCB Meeting  
June 15, 2021  
Virtual Meeting  
Next Meeting August 10, 2021  
9:00 am EDT (13:00 UT)**

**Participants**

Erricos Pavlis, Peter Dunn, Van Husson, Mike Pearlman, Randy Ricklefs, Toshi Otsubo. Jose Rodrigues, Matt Wilkinson, Claudia Carabajal, Frank Lemoine, Tom Oldham, Tom Varghese

The charts from the meeting are available at

[https://ilrs.cddis.eosdis.nasa.gov/docs/2021/ILRSQCB\\_slides\\_20210615.pdf](https://ilrs.cddis.eosdis.nasa.gov/docs/2021/ILRSQCB_slides_20210615.pdf)

See the charts for more detail.

**Status of the ILRS ITRF contribution (Erricos)**

All seven ACs have submitted their post-1992 solutions; a few small issues being worked.

Processing of the pre-1992 data are in process. Once these data sets are available, a comparison of solutions will be performed. No new entries should be added to the handing file until the ITRF 2020 solutions are finalized.

The UAW has been delayed until next year; a virtual meeting of the ASC will likely be scheduled to review the ILRS ITRF submission.

Erricos has provided an updated list of History Log data voids by station; The plan is to contact stations to see if we can reclaim any of the missing information. Jason will work with the NASA and partnership stations.

The History Log from Arequipa have been updated.

**Diagnostic Analyses (Van and Peter)**

**Simosato:**

- The range biases seen in the HITU routine analysis with the new laser in 2021 are more positive than the range biases from the old laser in 2017.
- Action: Jose will add the 1 kHz laser specs to the CoM tables.
- The return rates from the new laser are very low, for all satellites.
- Action: The low data yield will be reported to the NESC for guidance on possible causes.
- Station personnel provided a new set of system changes since 1990.

- ACTION: Peter will supplement the changes with site log information and forward the Log to the station for verification;

#### **SPAD Range Biases dependencies with LAGEOS Single Shot RMSs**

- HITU routine analysis in 2018 shows a number of ILRS stations with SPAD/APD detectors with positive linear dependencies between LAGEOS range bias and single shot bin RMS.
- ACTION: Van and Peter will consider the effect of calibration and satellite tracking editing technique on this feature, and investigate any elevation dependence.

#### **Herstmonceux Data Analysis**

- The HITU analysis in 2017 showed significant differences between LAGEOS-1 and LAGEOS-2.
- ACTION: Van and Peter will track the evolution of these differences and possible causes.

#### **Graz Data Analysis**

- The HITU analysis showed a significant reduction in LAGEOS and Ajisai single shot RMSs with a new Graz editing theme in 2008;
- ACTION: Van will contact the station to ask them to add the change in the pulse distribution module level change to their History Log;
- ACTION: Van will continue to monitor Graz LAGEOS range biases.

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