January 24, 2018

ILRS Quality Control Board (QCB)
Telecon
January 24, 2018

Next meeting: Wednesday, February 21 at 14:00 UTC, 09:00 EST, 14:00 in UK; 15:00 in Central Europe; 23:00 in Japan.

Participants: Frank Lemoine, Horst Mueller, Carey Noll, Toshi Otsubo, Erricos Pavlis, Mike Pearlman, Matt Wilkinson, Alexandre Couhert, and Sean Bruinsma

Data Systematics Pilot Project (Erricos)

ESA has submitted its DSPP contribution, but there are issues with results for some of the stations. Cinzia is working on the four-year combination test. The plan is to have the aggregated station biases back to 1992 ready for EGU. Then will come the operational version of the Data Systems operational tools.

Web Based Station Performance Tool (Erricos)

The beta version of this tool is being tested (http://geodesy.jcet.umbc.edu/QC/). The data set from the Russians with proper span of ITRF 2014 (going back to June 2016) is still outstanding from Glotov. Erricos is writing a memo on the use of this tool.

Site Logs (Carey)

Christian is working on the web based editing process and the transfer of current site log information into the new format. Changes made on the EDC website will be forwarded to the CDDIS. Randy will manage the implementation. He will work with Carey and Christian to update the related ILRS webpages.

We have agreed to give the stations 90 days (from completion of set up) to update their site logs. We should specify the expected reporting time for site log updates.

Tom Varghese was going to give us an update on status of the site logs for the NASA stations.

Range Dependent Errors

This topic will wait for the new center of mass corrections and will be left to the systems bias activity. No center-of mass values have been generated for the Wettzell SOS system.

Full-Rate Data and NP Testing

Many of the stations are already submitting FR data, a message has been sent out urging the others to comply. FR data would be a good tool for diagnostic work, and will also help us diagnose timing issues using the Jason-2 satellite and follow-on missions.

Matt is working on the NP evaluation; first priority will be the spherical geodetic satellites.

A message was sent out to the stations by the CB asking for routine submission of full-rate data to the ILRS OCs. Three additional stations (Beijing, Kunming, and Shanghai) have started submitting their full-rate data.

ACTION Mike: Check with Graham that the individual recipes for generating NP's at the stations have been included in his satellite center-of-mass corrections.

Low Elevation Data Modeling

Stefan Riepl will take over the range dependent error studies from Horst once the updated satellite center-of-mass values are available.

Satellites Center-of-Mass Parameters on new Satellites

We discussed the issue of who provides the CoM correction for new satellites, the mission or the ILRS. Naturally the mission needs to provide the array offset to the satellites center-of-mass. For the LEO and GNSS missions that use already analyzed arrays, the correction should already be available. Some missions may not be in the mm regime, so a rough correction maybe adequate. For new geodetic satellites, using new design (non-standard) arrays, we will probably have to work with them since its unlikely that they will be able to generate the full suite of corrections.

Data Population on LAGEOS and Other Satellite Passes

Work continues at CDDIS express all data reports issued by CDDIS in terms of passes. The issue of synchronous satellites is not resolved but will be consistent with how statistics are posted in the ILRS report cards.

The Study Group tasked with recommending new criteria for evaluating (and rewarding) station performance (rather than just number of passes) is still thinking. The CB should also issue a document of best practices for tracking operations including pass coverage and time separation of calibrations.

Station Tools

Matt has started discussion on this within the Networks and Engineering Standing Committee and on the forum on stations tools and practices that might be useful. Toshi has asked that the forum have a section on satellite missions.

Other Topics

In our 1 mm long-term interest, it probably is a good idea to do a rigorous component-by-component examination of the SLR systems, trying to understand all error sources in measurements. We should discuss this with Ivan Prochazka.

Next meeting: Wednesday, February 28 at 14:00 UTC, 09:00 EST, 14:00 in UK; 15:00 in Central Europe; 23:00 in Japan.

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