March 30, 2021

ILRS QCB Meeting
March 30, 2021
Virtual Meeting
Next Meeting June 15th, 2021
9:00 am EDT (13:00 UT)

Participants

Erricos Pavlis, Peter Dunn, Van Husson, Jason Laing, Mike Pearlman, Randy Ricklefs, David Sarrocco, Toshi Otsubo, Rivers Lamb, Tom Oldham. Jose Rodrigues, Claudia Carabajal, Frank Lemoine, David Sarrocco, Stefan Riepl.

The charts from the meeting are available at
https://ilrs.cddis.eosdis.nasa.gov/docs/2021/ILRSQCB_slides_20210330.pdf
See the charts for more detail.

Agenda:

- Update on the ILRS contribution to the ITRF. - Erricos
- History log voids. - Erricos
- Comparison of Site Log and History Log information - Peter
- Met Data Issues - Jose (Not presented)
- Data issues on Moblas 4 and Zimmerwald – Van (Not presented)

Status of the ILRS ITRF contribution (Erricos)

Zuheir has set the deadline for submission of the ILRS contributions to the ITRF 2020 at April 10. Four ACs have submitted their solutions (NSGF, JCET, ESA, DGFI); two others are near ready.

Erricos has provided a 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.

Missing History Log information from Arequipa (Claudia)

Some updates in the Arequipa History Logs seem to be lost on route. They are accessible and will be entered into the History Logs.

Information available in the Site Logs (Peter)

Using Erricos's tabulations of Site Logs and History Logs for the Simosato site, Peter has found that some missing History Log information is available in the Site Logs. Rather than having the stations reclaim and enter past information into the History Logs themselves, Jose has suggested we could do it straight from those files. Then we could have the stations focus on the future.
UPDATE during editing (ECP): we have located the text version of all the entries for all sections of the site logs and for all ACTIVE stations, as they are internally generated each time we prepare the Excel spreadsheets with the summary (updated every time an updated sitelog is uploaded). The archive with the latest version of these flat text files will be emailed to the QCB for further processing that will lead to populating the History Change Logs with missing information.

ACTION Peter and Jose: Suggest how we would put this together.

Some Comments concerning deficiencies in the full-rate data system – exposed with the Wiener Filter (Stefan)

1. Development of parser software for automated retrieval of system configuration and change for arbitrary sites.
2. Try to identify optimal processing strategy in terms of applicability of double differencing.
3. Use of response functions recorded at diverse viewing angles from e.g. European cluster.

Observations so far:

- WLRS is missing site log information for dates < 2010;
- inconsistent format complicates parsing algorithm (every inconsistency requires special purpose solution);
- site log is actually a relation between site and system with data concerning both (and maybe something else?);
- inconsistencies can be found throughout the ILRS software (including information given in homepage);
- the way site log data is maintained and interchanges may not be adequate for the 21'st century;
- relationship between (redundant) configuration data in consolidated formats (shouldn't there be a unique way to markup observational data with adequate namespaces? I think there should if we want to make use of configuration data.)
- Issues with managing GGOS stations in site logs (redundant information)

Issues:

1. Stress Stations need for stable configurations;
2. More stress on long and short stability rather than NP rms
3. Stress need for up-to-date history logs;
4. Stress need for redundant barometers;
5. Stress need for frequent calibrations (ever 2 hours or at systems changes)

~~Next Meeting: April 26, 2021. 9:00 am EDT US (13:00 UT)~~
Next Meeting: June 15th, 2021 9:00 am EDT US (13:00 UT)