

Agenda for Spring 2013 ILRS AWG Meeting

Sunday, April 7, TUW, Vienna, Austria, 9:00 – 17:00

News Items:

- IERS released the ITRF2013 CfP – the AWG needs to plan the preparatory work that will lead to the reanalysis for the submission in early 2014
- Ramesh Govind left GA in early January, he will start soon at a new institution where he intends to continue his AWG work

AC and CC Reports (*please keep these very brief*)

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|-----------------|------------|------------------|
| • ASI – AC & CC | • ESA | • JCET – AC & CC |
| • BKG | • GFZ | • LLR WG report |
| • DGFI | • GRGS/OCA | • NSGF |

SLRF2008 updates

- New sites and improved coordinates for old sites, especially in use by QC-oriented ACs: need new policy and procedures:
 - Koganei, Simosato, and Concepcion experienced earthquakes, post-quake relaxation, requiring frequent updates
 - Need to setup a mechanism to provide the QC ACs a set of station coordinates (in SLRF2008) for such stations through regular updates (may be used by all ACs?)

New Products, Modeling Issues, New IERS Conventions (2010), etc.:

- Validation of the correct implementation of the new CoM model by all ACs:
 - Which ACs contributed/will contribute to the CoM PP test?
 - ALL ACs MUST complete the test ASAP so we can adopt the new model no later than the end of April 2013

- AC need to follow a new procedure for an improved description of station operational modes (replacing SCH/SCI)
- For data collected prior to new approach the old SCH/SCI files still valid (some last updated in 2006!)
- Non-Tidal Atmospheric gravity and loading modeling PP (UPDATE):
 - Pilot Project of the ITRS/GGFC for test products for 2006-2011 period completed (results are rather unclear)
 - Only SIX ILRS ACs contributed to this test, only TWO ACs updated their “Analysis Description” files ({AC}.dsc)
- Harmonization of the AWG analysis procedures and modeling standards:
 - The need to re-harmonize the modeling standards of all ACs or at least document the differences in the appropriate description files was already pointed out by Rolf König who suggested that we must clarify:
 - which gravity fields are allowed
 - apply atmospheric tides to the gravity variations YES/NO, which models are allowed?
 - apply atmospheric tides to the station deformations YES/NO, which models?
 - dito ocean tides (?)
 - other background models of interest?
 - Clearly some of these decisions will have major impact on our future products, e.g. low degree SHs, etc.
- Systematic Errors/Corrections/Edits & Discontinuities Files:
 - Data Handling & Discontinuities files maintenance (UPDATE)
 - **Revision of the current AWG rules on the regular estimation of systematic errors for other than the non-core sites:**
 - A brief PP to follow immediately after the adoption of the new CoM model will provide us with results we can use to design the new reanalysis this summer and the generation of the ITRF2013 submission

- Scheduling changes to the operational product (UPDATE):
 - The NT Atm. Loading & Gravity implementation (pending input from ITRS and GGFC PP this week)
 - The estimation of low-degree SH of the gravity field (4/4 ??)
 - The inclusion of LARES as a 5th satellite in the group of analyzed data and the possible elimination of the ETALONS due to diminishing data supply (unless the network can improve the data yield by at least a factor of two)
- Orbital Product:
 - PP release of SP3c files, we have few months of SLRF2008 & IERS 08 C04 submissions from 5-7 ACs:
 - Status for current contributors
 - When can we make the SP3c an operational product?
- Schedule for inclusion of the new models in the “Definitive” product:
 - Plan a the re-analysis before this summer, (depends on input from ITRS and GGFC PP), as a “dry run” before the submission for ITRF2013

Other topics, next meeting(s)...

– Next meeting(s) options:

- We currently have scheduled the next AWG meeting for 9:00 – 17:00, Saturday, November 9, 2013, at or around the LW18 venue in Japan. The main workshop starts on November 11, 2013.
- With the ITRF2013 development in progress, we may need to schedule an additional meeting earlier than the one in November, a possibility being on the occasion of:
 - the IAG Scientific Assembly 2013 in Potsdam, Germany, (September 1-6, 2013) ???

Last meeting (ITLW-12 2012) action items:

✓ = DONE

1. UPDATE AWG pages on ILRS recently launched website (send comments/suggestions to ECP)
2. Daily EOP product comparison with IERS EOP C04 08 to be done. (CS, ECP)
3. The dynamical model of the different SP3c orbit contributions should be checked.
4. The orbit combination to be done by the next AWG (CS, ECP)
5. DGFI GGFC PP solutions will be delivered by the end of November 2012.
6. Non-participation in GGFC PP endangers participation in ITRF2013 development (e.g. DGFI, ESA, GRGS)
7. Follow up Rolf König's questions to AWG
8. Site log compilation spreadsheet needs update (ECP)
9. SLRF2008 should be updated (ECP, CL, HM)
10. MATLAB QC viewer stand-alone s/w package to be released (ECP)
11. JM needs to deliver examples of LLR data where the same NPs exist with different information (met, etc.)
12. JM to ensure that LLR QC service gives feedback to the stations
13. Koganei, Simosato and Concepcion coordinates need updates (ECP, CL, HM)
14. JCET, DGFI, HITU and SAO to discuss the procedure for quick coordinate updates for QC process
15. ACs to be asked to provide the CoM values used in the official (v35 & v40) products for some specific weeks ✓
16. ACs must send their updated description files for their operational products to Carey
17. Daniela Thaller will send information on SINEX formatting to the Analysis Centers
18. AC should submit orbits with SLRF2008 and EOP fixed starting from the first submission in November 2011.
19. ESA & NSGF AC must implement the gravity coefficient parameter estimation.
20. GA and TO must update CoM tables and deposit them at the DCs ✓.
21. January 2013 is a tentative deadline to start the SH (4x4) Pilot Project after adoption of CoM model
22. CB should ask stations to increase ETALON time (ILRS CB/ECP)
23. HM will update the Data Handling file to include an entry for the current CoM model and a Yarragadee break in early 2010 (exact date TBD -> ECP).
24. ECP finalize JoG SI TOC and last two abstracts, then submit to journal editor.

CL – Cinzia Luceri
CS – Cecilia Sciarretta
DT – Daniela Thaller

ECP – E. C. Pavlis
FD – Florent Deleflie
GA – Graham Appleby

HM – Horst Müller
RK – Rolf König
USch – Ulli Schreiber