Agenda for Fall 2013 ILRS AWG Meeting

Sunday, Sept. 1, GFZ, Potsdam, Germany, 9:00 – 17:00

News Items:

– NASA Goddard's NGSLR is about to be delivered after successful completion of the co-location campaign with MOB7
– Ramesh Govind started at the University of Cape Town where he intends to continue his AWG work in the near future
– **Next AWG meeting in Japan, 9:00 – 17:00, Saturday, November 9, 2013**

AC and CC Reports (*please keep these VERY brief !!!*)

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

SLRF2008 updates: Koganei, Simosato, Concepcion and new Russian sites

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

• Validation of the correct implementation of the new CoM model by all ACs:

  o ALL ACs completed the test, report by JCET and decision on the adoption date of the new model

• **AC need to follow a new procedure for an improved description of station operational modes (replacing SCH/SCI)**

Harmonization of the AWG analysis procedures and modeling standards:

- gravity fields: at present any model is allowed, similar to or better than GGM02C, EIGEN-GL04S etc. (to 30x30 minimum for LAGEOS). Need to decide model for LARES and for SH estimation PP.

- time variable gravity (TVG): JCET will provide the values taken from CSR GRACE models and for $\dot{C}_{2,1}$ and $\dot{S}_{2,1}$, derived from IERS EOP for the period before GRACE

- solid earth tides: IERS2010

- ocean tides: any model similar to GOT4.7, FES2004, etc. is allowed

- atmospheric tides: applied to gravity variations but NOT to station deformations. Bode- Biancale 2003 and Ray-Ponte are acceptable.

- Albedo: applied, any model (e.g Knocke)

- Thermal forces: none available for the current time period.

- Ocean tidal load: Pavlis to provide GOT4.7 values in the IERS format from Duncan Agnew's s/w SPOTL.

- Satellite CoM correction: site and time dependent correction according to Appleby's tables.

- o Revise current AWG rules on the regular estimation of systematic errors for other than the non- core sites

- o Estimation of low-degree SH of the gravity field (decide a priori gravity & tides model)

- o Inclusion of LARES as a 5th satellite in the group of analyzed data

- o The NT Atm. Loading & Gravity implementation will continue as an internal PP

- o The naming convention and the directory structure at the data centers should be revised

- o Orbital Product

PREPARATION FOR ITRF2013 RE-ANALYSIS:

- Discussion of model improvements to be adopted prior to the re-analysis

- Schedule for delivery of AC products to CC for combination

- Participating AC and CC:

Other topics, next meeting(s)…

– **Next meeting(s) options:**

  o 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.

Last meeting (EGU 2013) 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)
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 April 2013
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
16. ACs must send their updated description files for their operational products to Carey
18. AC should submit orbits with SLRF2008 and EOP fixed starting from the first submission immediately.
19. ESA & NSGF AC must implement the gravity coefficient parameter estimation **ASAP**.

21. We will start the SH (4x4) Pilot Project after validation and adoption of the 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 will finalize JoG SI TOC and last two abstracts, then submit to journal editor

CL – Cinzia Luceri   GA – Graham Appleby
CS – Cecilia Sciarretta   HM – Horst Müller
DT – Daniela Thaller   RK – Rolf König
ECP – E. C. Pavlis   USch – Ulli Schreiber
FD – Florent Deleflie