

Agenda for April 12 AWG meeting, TU Wien, 9:00 – 18:00

Agenda Items

- **Minutes of Grasse meeting: comments, corrections?**
 - **ILRS News**
 - **UAW Summary, Action Items and Recommendations – ECP**
 - **ILRS representatives present at UAW meeting:**
 - E. C. Pavlis, AWG overview on operations, products, future plans
 - V. Luceri, Analysis procedures review, bias estimation, etc.
 - C. Sciarretta, Combination procedures review, SLR_TRF, Orbits, etc.
 - G. Appleby, Range modeling improvements, CoM, calibrations, etc.
 - Horst Müller, Station performance monitoring, qualifying, feedback...
 - Jürgen Müller, LLR overview, status, science, products, future...
 - Michael Pearlman, Werner Gurtner, Pippo Bianco
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- **BRIEF AC and CC Reports with emphasis on the 2003 IERS Conventions implementation in their s/w and procedures**
 - ASI – AC & CC
 - BKG
 - DGFI – AC & CC
 - GA
 - GFZ
 - GRGS/OCA
 - JCET
 - NSGF
 - **Recent data analysis issues – 1993 – present:**
 - Stanford corrections for additional sites ??? - GA
 - Station bias adjustment, revision of current list, implementation – CL, ECP, ?
 - Core site re-classification (update?) – CL
 - SLRF2005: proposal to adopt as JASON-2 POD standard - JR

- **Historical data analysis – 1983 – 1993:**
 - Status, AC contributions, CC combinations
 - Core-site selection for the historical network - **CL**
 - 1983 – present product:
 - Combination results? – **CS & RK**
 - **Final results by? ...(ITRF2008+ needs input!!!)**

- **New/Returning station qualification:**
 - define and implement the activity and identify primary and back-up centers and procedures – **HM, ?**

- **Other products from Pilot Projects, Modeling issues, etc.:**
 - Daily “weekly” analysis & pos+eop report for station feedback – **ECP, ?**
 - SP3c Orbit files – **CL, HM, ECP**
 - Product improvements – **ECP**
 - New basic models: gravity (M & V), tides, loading, etc. – **ECP, ?**
 - New data format testing (CRD) – **ECP**
 - Target-signature modeling specific to site and mode of operation – **GA, ECP**
 - Inclusion of atmospheric effects, (gravity, tides, loading) – **ECP, ?**
 - Test files for ECMWF, 6- & 3-hour products (JPB)/**ECP**

- **Proposition for new procedure for acceptance of candidate ACs/CCs– **ECP****

- **Other topics ???, next meeting? (16th ILW @ Poznan?)**

- **Project Status - a “living document” matrix** (*to be maintained under the ILRS pages*):

AC/CC	Weekly POS+EOP	Daily POS+EOP	Orbit Product SP3c	Reanalysis 1983 - 1993	Reanalysis 1993 - 2007	Reanalysis 1983 – 2007 (SET, biases, data editing)
ASI - AC	✓	✓	✓ (test)	✓	✓	✓
ASI - CC	✓	✓				
BKG	✓	✓		---		???
DGFI - AC	✓	?	✓ (test)	???	✓ (version w/SET)	???
DGFI - CC	✓	✓				
GA	✓	?		✓	✓	✓
GFZ	✓	✓		???	✓	✓
GRGS	✓	?			✓	✓
JCET	✓	✓	✓ (test)	✓	✓ (version w/SET)	???
NSGF	✓	✓		✓	✓ (version w/SET)	???

version w/SET: Solutions that used the initial, erroneous Stanford Event Timer corrections

• **Action items from past AWG meetings**

✓ = DONE

Pavlis, Luceri ✓	new ITRF for SLR analysis
Luceri ✓	new list of core sites from SLR2005 for daily EOP referencing
Luceri ✓	contact stations to rationalize biases seen in the data analysis
Müller (H) ✓	exchange and compare bias estimates with Luceri
Appleby ✓	send Luceri the Potsdam Stanford ET corrections to test
Appleby ✓	contact Francis Pierron to test their Stanford ET
Müller (H), Pavlis ✓, Luceri ✓	exchange and compare orbits in SP3c format
Pavlis ✓	check with GA/Mt. Stromlo the reason for delayed submissions of data
Pavlis ✓	check with Noll that ONLY latest SINEX versions are online
Pavlis ✓	check with Noll and Seemüller to generate archive for daily submissions
Müller (H), Pavlis ✓, Luceri ✓	validate the SLRF2005 (final version)
ACs ✓	verify that your SINEXs are formatted correctly for daily submissions!!!
AWG ✓	re-assess AWG core stations status + general ILRS classification
CCs ✓	prepare for combination of SP3c files
ACs	prepare for new format (CRD) SLR data
ACs	include conversion of orbit solutions into SP3c format (step-size 2 minutes for LAGEOS; 15 minutes for Etalon)
Mareyen	<i>develop 2-day analysts get-together in Frankfurt (???)</i>
Müller (H), König	develop SLR discontinuities file further (1976-2007)
Müller (H)	develop validation plan for (new) SLR stations
Müller (Jürgen)	develop validation plan for (new) LLR stations
Pavlis	get letter expressing general support for ILRS activities from IERS chairman (is this really necessary by now???)
Pavlis, Luceri, Pearlman, Gurtner	organize JoG special issue
Pavlis	check IERS procedure for station documentation after earthquakes and such
Pearlman	remind Simosato to become IGS station (done, no?)

· **New action items**

Pavlis	datasets for the test on the models of atmospheric loading and gravity
Pavlis, Luceri	pilot project for the generation of a master bias list, etc.
Müller (H) , Luceri	Differences in CDDIS and EDC data file contents (examples)
ACs and CCs	work on generating daily submission of weekly solutions
Task Force I	homogenization of QC reports & development of a report with pos+eop use for stations and managers
Task Force II	develop a precise computation of the spacecraft CoM offset for given station-s/c configurations

GGOS Unified Analysis Workshop Summary

Beach Resort Monterey, Monterey, CA 93940, USA, 05 - 07 December 2007

Workshop Scope <http://www.iers.org/MainDisp.csl?pid=66-1100205>

An important goal of GGOS is to advance the combination and integration of the various space and insitu geodetic techniques. This goal can only be achieved with the help of all the IAG Services, and especially the IERS and IGFS.

Even if considerable progress has been made in the effort towards a rigorous combination of the various space geodetic techniques (e.g. the realization of ITRF2005, making use of a new approach based on time series of SINEX files), there are still many deficiencies (missing parameters), inconsistencies and systematic effects to be addressed.

Important topics are therefore:

- *Assessment of technique-specific systematic biases affecting the co-location on the ground and on satellites*
- *Step by step inclusion of all parameter types common to more than one observation technique*
- *Definition of common standards for all these parameters and their a priori values/models*
- *Improvements in combination strategies and rigorousness*
- *Development of new products based on a rigorous combination of the space geodetic techniques*
- *Setup of a common data portal for the products and data, and the definition of meta data and data flow*

The workshop was intended to be a forum to exchange information and results and thus increase the common understanding of all the technique representatives for each of the individual techniques as they contribute to GGOS.

The workshop was organized in the following six sessions:

- *Session 1: Details of Product Generation of the Services and Future*
- *Session 2: Technique-Specific Biases and Effects at Co-Location Sites/Satellites*
- *Session 3: Standardization/Extension of Common Parameterization*
- *Session 4: Combination Strategies and Aspects*
- *Session 5: New Products Based on Inter-technique Combinations*
- *Session 6: GGOS Portal and Meta Data Flow*