

Sixth meeting of representatives of laboratories contributing to TAI

31 March 2004, BIPM

Dr Patrizia Tavella, Chair of the CCTF Working Group on TAI

Agenda

1. Opening of the meeting 09:30-09:45
 - Opening remarks (P. Tavella, Chair, IEN)
 - Current status of TAI (F. Arias, BIPM)

2. Algorithms 09:45-10:10
 - Report on changes in the TAI algorithm (F. Arias, BIPM)
 - Report of the sub-group on algorithms (P. Tavella, Chair, IEN)

3. Time links for TAI 10:10-13:00
 - Methods of clock comparison
 - Current status of clock comparison in TAI (F. Arias, BIPM)
 - Processing of GPS geodetic data with the algorithm Precise Point Positioning (P. Tavella, IEN)
 - Method to increase the number of CV tracks using a single channel GPS receiver (J. Palacio, ROA)
 - Data format: modification of CGGTTS format for P3 and other possible changes.
 - New receivers (P. Defraigne, ORB)
 - Use of daily TWSTFT observations in the computation of TAI (G. de Jong/B. Klepczynski)
 - Calibration of TWSTFT stations (G. de Jong/B. Klepczynski)
 - PTB-USNO: two independent TWSTFT links (A. Bauch, PTB)

- Coffee break 11:10-11:30

- Comparison between time transfer methods
 - Comparisons at the BIPM (G. Petit, W. Lewandowski, BIPM)
 - Comparison between satellite averaged GPS P3 comon-views and TWSTFT on the link OP-PTB in July-August 2003 (P. Urich, BNM-SYRTE)

- Report of calibration of time links for TAI
 - Calibration of GPS time receivers in TAI (W. Lewandowski, BIPM)
 - Calibration of Ashtech Z12-T receivers (G. Petit, BIPM)

- Uncertainties of TAI time links
 - (W. Lewandowski, BIPM)

- Link to GPS time
 - (G. Petit, BIPM)

- Lunch (New Pavillon, level +1) 13:00-14:00

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| 4. | Primary frequency standards in TAI | 14:00-15:00 |
| | <ul style="list-style-type: none"> • Reported uncertainties in primary frequency standard measurements <ul style="list-style-type: none"> • Uncertainty of NIST-F1 and its stability over time relative to the frequency of various time scales (T. Parker, NIST) • Contribution of the BNM-SYRTE primary frequency standards to TAI (J.-Y. Richard, BNM-SYRTE) • Interpretation of PTB CSF1 data (A. Bauch, PTB) • Primary frequency standards in TAI (G.Petit, BIPM) | |
| 5. | TAI activities in laboratories | 15:00-15:20 |
| | <ul style="list-style-type: none"> • Report from USNO (D. Matsakis, USNO) • Report on TAI activities at CRL (T. Morikawa, CRL) • Problems when running the NTP system (P. Fisk, NML) | |
| 6. | The IGS Working Group on clock products | 15:20-15:40 |
| | <ul style="list-style-type: none"> • Status report (K. Senior, IGS) • Link between the BIPM and the IGS (F. Arias, BIPM) | |
| | Coffee break | 15:40-16:00 |
| 7. | Evolution of BIPM publications | 16:00-16:10 |
| | <ul style="list-style-type: none"> • (F. Arias, BIPM) | |
| 8. | Communications | 16:10-16:35 |
| | <ul style="list-style-type: none"> • WG on the MRA in Time and Frequency (G. de Jong, Nmi VSL) • SRG colloquium on UTC, Torino (R. Beard, ITU) • Action team on GNSS at the UN (F. Arias, BIPM) | |
| 9. | Recommendations to be proposed to the CCTF | 16:35 |

All speakers are requested to respect the 10 min allotted to oral presentations.