



TAI/12-34

The CCTF Working Group on TAI

Report to the 19th CCTF

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***The CCTF Working Group on TAI
aims at promoting the knowledge on TAI/UTC
and the communication among the BIPM time section
and the timing laboratories to improve mutual support***

***To this aim meetings of TAI/UTC laboratories are
regularly held at the BIPM*** **SEPT 12, 2012**

***and for the first time also a “training day” has been
organized for new or possibly new laboratories*** **SEPT 11, 2012**

MEETING OF TAI/UTC LABORATORIES, SEPT 12, 2012

1st part

Report of the BIPM

UTC, Time links, algorithms, PFS

BIPM data base on time link equipment

Rapid UTC Pilot Project

Reports from the laboratories

“Real time” time scale monitoring

Major changes in time scales, time transfer equipment, clocks

2 New participants, 7 contributions in preparation, 2 withdrawals

MEETING OF TAI/UTC LABORATORIES, SEPT 12, 2012

2nd part

with attendance of representatives of contributing laboratories and of CCTF members

1. Revision of the definition of UTC at the ITU-R
 - 1.1. Report on last events
 - 1.2. Future actions, involvement of the CCTF/CGPM
 - 1.3. Possible re-allocation of responsibilities
 - 1.4. Recommendations

the majority of the attending laboratories is in favour of a continuous, unique, reference time scale ;

only one half has been involved in national discussion with the ITU official body.

Fundamentals for a time and frequency metrology laboratory

speaker

Welcome and introduction

UTC at the BIPM time section

Laboratory equipment, generation of UTC , local and remote comparison systems, traceability to UTC

GNSS time transfer

- o Tavella (10 m)
- o Arias (15 m)
- o Bauch (30 m)
- o Defraigne (30 m)

Joining the UTC community Rules and procedures for participation to UTC and UTCr

Laboratories clock data and UTC(k): how do they enter in UTC

- o Arias (30 m)
- o Panfilo (30 m)

Steering UTC(k) to UTC

Statistics to check clock and time scale behavior

- o Matsakis (30 m)
- o Tavella (30 m)

Dissemination of UTC(k)

Mutual Recognition Arrangement in TF

The Regional Metrological Organizations

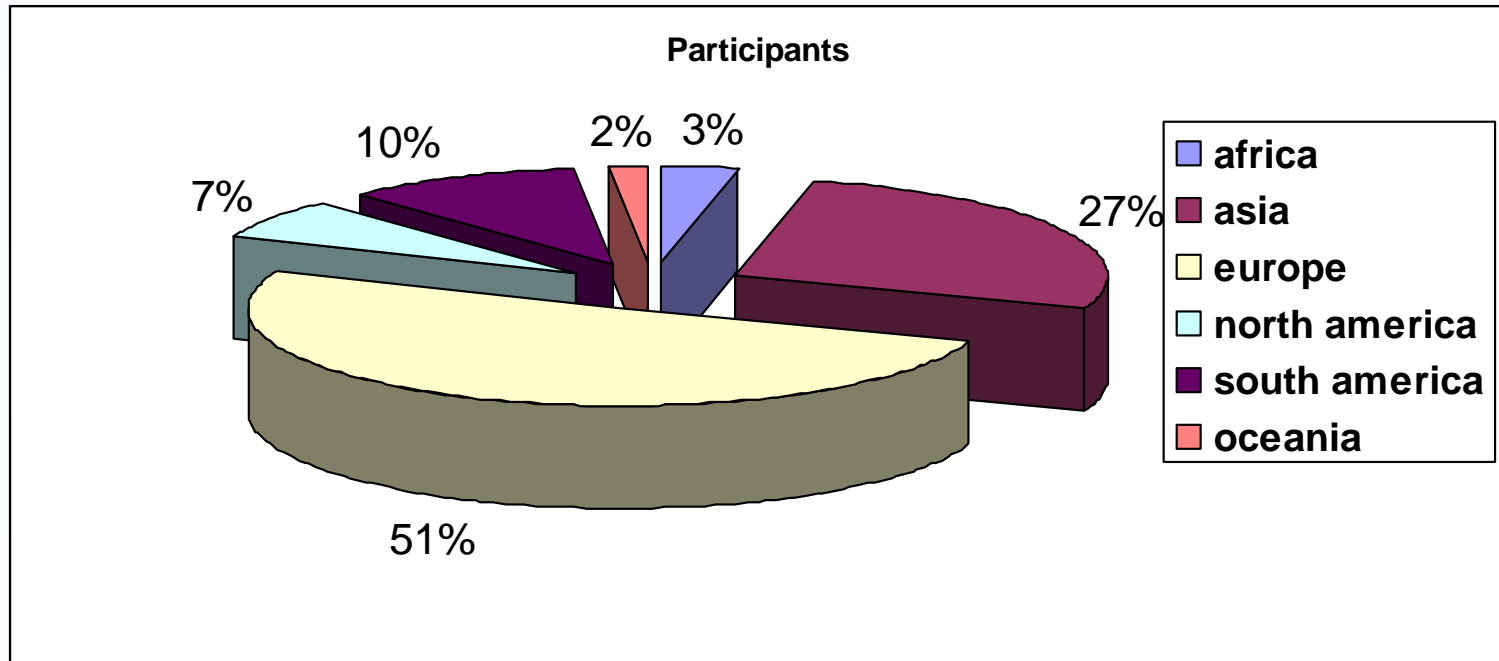
- o Levine (30 m)
- o Cordara (15 m)
- o Warrington (15 min)

SEPT 11, 2012

CCTF WG on TAI: training day

59 registered people: 5 continents, 26 countries

only 46 took part



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only 46 took part*



Thanks to the BIPM team, the experts accepting to give tutorials, and all the laboratories

The capacity to meet the expectations and the needs is to be assessed. The possibility to repeat the training can be harmonized with the RMO initiatives