

Report of the IERS Conventions Centre

G. Petit (BIPM) & B. Luzum (USNO)

20th CCTF Meeting
17-18 September 2015



The IERS Conventions (2010)

- A 180-page book
- Published electronically 15 Dec 2010 after last round of corrections and on paper in Spring 2011.
- Comprehensive software list on <http://maia.usno.navy.mil/conv2010/software.html>
- Replace the Conventions (2003)
- Define the standard reference systems realized by the IERS along with the models and procedures used for this purpose

International Earth Rotation and Reference Systems Service (IERS)
Service International de la Rotation Terrestre et des Systèmes de Référence

IERS Technical Note No. 36

IERS Conventions (2010)

Gérard Petit¹ and Brian Luzum² (eds.)

IERS Conventions Centre

¹ Bureau International des Poids et Mesures (BIPM)

² US Naval Observatory (USNO)

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IERS Conventions Centre

Since 2001, the BIPM and the U. S. Naval Observatory (USNO) have been providing the Conventions Centre of the International Earth Rotation and Reference Systems Service (IERS).

BIPM: G. Petit, F. Arias

USNO: B. Luzum, N. Stamatakos, M. Davis, D. McCarthy (contractor);
All part-time (with parts ranging from small to very small).

New organization set-up in 2014:

- Previous “Advisory Board” disappears.
- New “Editorial Board” with limited number of members; each member covers one topic / chapter of the Conventions.

IERS Conventions Editorial Board

- ◆ Gérard Petit, Brian Luzum: General coordination; All parts not covered in the list below
- ◆ Jean Souchay: Chapter 2
- ◆ Zuheir Altamimi: Chapter 4
- ◆ Sébastien Lambert: Chapter 5
- ◆ Isabelle Panet, John Ries: Chapter 6
- ◆ Laurent Métivier, Tonie van Dam: Chapter 7
- ◆ Srinivas Bettadpur: Tidal models
- ◆ Christian Bizouard: Chapter 8
- ◆ Johannes Böhm: Chapter 9
- ◆ Christophe Leponcin-Lafitte: Chapters 10 & 11



Updates to the Conventions (2010)

- Urgent updates carried out as needed
 - E.g. June 2015 for the needed modifications associated with the leap second, correct software bugs. Also provide a new IERS Conventional Mean Pole.
 - Chapter 9 modifications in final review
- A number of open topics still waiting finalization
 - Diurnal and semidiurnal EOP variations (needed for some time)
 - Model for low order geopotential coefficients
 - Study to validate relativistic models used for VLBI/SLR
 - Models for displacement due to non-tidal loading
 - ...