

IV.6 Conventions

Activity in 2000 was threefold:

- Continue the editing of the new version of the IERS Conventions;
- Incorporate changes brought about by the Resolutions adopted at the IAU2000 24th General Assembly and interact with the working groups involved in the preparation of these resolutions;
- Prepare the program of work of the Conventions Product Center (CPC) in the new IERS organization

At the time of this writing, the new organization of the IERS is installed and the CPC is provided jointly by the U. S. Naval Observatory (USNO) and the Bureau International des Poids et Mesures (BIPM), who are working on the new edition of the IERS Conventions. The organization of this new edition is still based on the plan of Conventions 1996, with numerous updates. The work accomplished or in progress is the following:

Chapter 1 - Conventional Celestial Reference Frame

Update to incorporate the effects of the IAU 2000 24th General Assembly

Chapter 2 - Conventional Dynamical Reference Frame

Consistency of notation and concepts with other sections

Chapter 3 - Conventional Terrestrial Reference Frame.

Update for ITRF2000. A complete rewriting is in progress.

Chapter 4 - Numerical Standards

Update for consistency of notation and concepts with other sections. Update values according to IAG and IAU working groups.

Chapter 5 - Transformation Between the Celestial and Terrestrial Systems.

Modify to be consistent with the resolutions adopted at the 24th IAU General Assembly.

Chapter 6 – Geopotential

Update conventional geopotential model. Update treatment of tides.

Chapter 7 - Site Displacement

Update to account for models used in IERS analysis centers and ensure consistency with chapters 3 and 6.

Chapter 8 - Tidal Variations in the Earth's Rotation

Update to be consistent with resolutions adopted at the 24th IAU General Assembly

Chapter 9 - Tropospheric Model

Update model

Chapter 10 - Radiation Pressure Reflectance Model

This chapter is being deleted.

Chapter 11 - General Relativistic Models for Time, Coordinates and Equations of Motion

Update for consistency of notations and concepts with other sections.

Chapter 12 - General Relativistic Models for Propagation

Update for consistency of notations and concepts with other sections.

Appendix - Resolutions from the 24th IAU General Assembly

New versions of chapters and accompanying software are posted on the web as they become available, see
<<http://maia.usno.navy.mil/conv2000.html>>.

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