



**ISPRS Workshop on
Geospatial Data Infrastructure: from data acquisition
and updating to smarter services**
October 20-21, 2011, Guilin, China

ABSTRACT SUBMISSION FORM

Abstracts should be submitted via e-mail to isprswg41@nsdi.gov.cn or jjie@nsdi.gov.cn before April 30, 2011.

Title of the Paper: Summary of the IAU Working Group on Cartographic Coordinates and Rotational Elements and Its Current Report
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Technical Session ^[3] : Workshop on Planetary Mapping
Keywords (5-8) ^[4] : Extra-terrestrial, Geodesy, Georeferencing, Infrastructure, Specifications, Standards, International, Planetary
ABSTRACT (more than 300 words) ^[5] : Approximately every 3 years since 1979, the Working Group on Cartographic Coordinates and Rotational Elements ("WG") of the International Astronomical Union (IAU) has issued a report recommending coordinate systems and related parameters (body orientation and shape) that can be used for making cartographic products (maps) of solar system bodies. These recommendations, which are open to further modification when needed, are intended to facilitate the use and comparison of multiple datasets by promoting the use of a standardized set of mapping parameters. This paper is intended to draw the attention of the ISPRS and others to the WG's efforts and the recently published WG 2009 report [1,2,3]. The WG can assist users, instrument teams and missions on cartographic issues. The WG would like to encourage input, either generally from individuals, or, given this forum, from the ISPRS Working Group on Planetary Mapping and Databases (WGPMD). Individuals from the ISPRS would be welcome to volunteer to become members of the WG. It may also be desirable to explore a more formal relationship with the ISPRS. In the past the WG has been a joint WG with both the International Association of Geodesy and COSPAR. Such joint work might also be possible with the ISPRS WGPMD. The WG would also greatly appreciate receiving input from the general planetary community, e.g., regarding the systems for specific bodies, the operation of the WG, and even the need for and/or usefulness of the WG's efforts. With the 2009 report the WG announced it will consider providing limited updates to its recommendations on its Web site, so that changes can possibly be made more often than every 3 years. For the first time, the WG also provided some general recommendations regarding current urgent needs relative to the development of planetary cartographic products. Input is

also welcome on these changes. Contact the authors for information or to provide input.

[1] Archinal, B. A., et al. (2011). "Report of the IAU Working Group on Cartographic Coordinates and Rotational Elements: 2009," *Cel. Mech. & Dyn. Ast.*, 109, no. 2, 101, DOI 10.1007/s10569-010-9320-4. <http://www.springerlink.com/content/g272325h45517581/> [2] Errata to above, *Cel. Mech. & Dyn. Ast.*, submitted. [3] Archinal, B. A. (2011). "Overview of the IAU Working Group on Cartographic Coordinates and Rotational Elements and its Current Report," *Lunar Planet. Sci.*, XLII, Abstract 2362, Lunar and Planetary Institute, Houston (USB key). <http://www.lpi.usra.edu/meetings/lpsc2011/pdf/2362.pdf>

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Please refer to overleaf for details.

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- [2] Should indicate who the corresponding author is, and list the telephone and fax numbers.
- [3] The workshop will organize the technical sessions according to the following topics: (1) Data acquisition and updating; (2) database creation and maintenance; (3) smarter geo-spatial services and applications; (4) standards and liaison. Authors must indicate clearly to which topic the paper is intended.
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- [5] An abstract should be written in English comprising not less than 300 words. Each abstract must contain sufficient details for evaluation (including the approach, results, the concepts, the reasons why it should be considered an interesting message for the audience).