

VA-Task 2. sub-task Surfaces

Sub-Task Description

The JRA Planetary Surface Task will bridge between the mapping/Geographic Information System (GIS) standards and practice and the Virtual Observatory (VO) ones. It will develop and implement coordinate system the Solar System into the thools used in VO world (FITS format, VO protocols) as well as define protocols to exchange data between VO and GIS systems. The developments will target both existing WebGIS systems as well as Open Source desktop clients.

Sub-Task Pages

- [status at the onset of EPN2024](#)
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Discussion pages from EPN2020

[GeoFITS: FITS for Planetary Surfaces](#) (published)

[Use cases with Aladin and TOPCAT](#) (to be implemented as tutorials)

Link to other relevant tasks

Contacts

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Contributors

Publications

- **Marmo** et al (2018) FITS format for planetary surfaces: definitions, applications and best practices. <https://hal.archives-ouvertes.fr/hal-01942550v1>
 - **Minin** et al (2019) Bridging the gap between Geographical Information Systems and Planetary Virtual Observatory. <https://doi.org/10.1029/2018EA000405>
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Useful Links

- <https://github.com/eprn-vespa> and repositories therein
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(GitHub) Projects

- [VOTable2GeoJson](#)
- [FITS for Planetary Surfaces](#)
- [FITS2VRT](#)