

Mapping 2019 Programme

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Final report to NA1

is available here: <http://fmispace.fmi.fi/index.php?id=802>

July 1st

- morning :
 - 9:30 Welcome and logistic
 - 10:00 [The Virtual European Solar and Planetary Access Project](#) (Stéphane Erard, LESIA - Observatoire de Paris, Meudon)
 - 10:40 Break
 - 11:00 [PLANMAP: Geological mapping supporting the exploration of the Moon, Mars, and Mercury](#) (Angelo Pio Rossi, Jacobs University, Bremen)
 - 11:40 [EPOS, OneGeology INSPIRE and other geoscience data infrastructures : nothing without standards](#) (François Robida, BRGM, Orléans, France)
 - 12:10 Lunch
- afternoon: lightning talks (5' presentation +5' discussion)
 - 14:00
 - Ines Belgacem - [Image processing for remote sensing applications](#)
 - Jakub Ciazela - [Geomorphological constraints on the current eruptive flux in the Tharsis volcanic province](#)
 - Maxim Chernetskiy - [Application of the CASP-GO processing chain to the retrieval of 3D information of lunar landing site candidates](#)
 - Marta Ciazela - [Thermal mapping of the martian surface](#)
 - Chiara Marmo - [A Cesiumjs App for planetary data visualization](#)
 - François Costard - [Mapping the tsunami deposits on Mars](#)
 - Andrea Nass - [A Map Package based on 15 individual Geological Maps of Ceres: Review of a Compilation Process](#)
 - 15:30 Break
 - 16:00
 - Mayssa El Yazidi - [Analyses of linear structures, Pit chains and rifting in Noctis Labyrinthus \(Mars\) based on Data derived from HRSC and MOLA](#)
 - Andrea Nass - [Towards a concept for a Planetary Science Data Library based on a Spatial Data Infrastructure Model](#)
 - Joanna Gurgurewicz - [Structural and compositional mapping of shear zones in northern Valles Marineris](#)
 - Björn Grieger - [Mapping a duck: on the pitfalls of highly irregular bodies like 67P/Churyumov-Gerasimenko](#)
 - Erica Luzzi - [Geological mapping of Arsinoes and Pyrrhae Chaos](#)
 - Nicolas Manaud - [Towards a New Face for Planetary Maps on the Web](#)

July 2nd

- morning : tutorials and hackathons
- afternoon : lightning talks (5' presentation +5' discussion)
 - 14:00
 - Ramiro Marco-Figuera - [Analysis of CRISM images using ADAM](#)
 - Daniel Mège - [Diversity of tectonics in Valles Marineris and surroundings revealed by structural mapping](#)
 - Pierre Fernique - [Aladin and HiPS planetary maps](#)
 - Pieterek Bartosz - [Mapping and dating of small volcanic cones to reconstruct Tharsis plumbing system](#)
 - Alessandro Frigeri - [A workflow for earth and planetary geologic mapping in the digital domain](#)
 - Antoine Séjourné - [Mapping the northern plains of Mars: origins, evolution and response to climate change – Using distribution of icerelated landforms to understand multiple icerich deposits in Utopia Planitia](#)
 - Alessandro Frigeri - [The python interface to the MoonDB lunar sample database](#)
 - 15:30 Break
 - 16:00
 - Yu Tao - [3D multi-resolution mapping of RSLs at Valles Marineris](#)
 - Batiste Rousseau - [Using TOPCAT with sparse measurements on planetary surfaces](#)
 - Pierre-Antoine Tesson - [Tectonic mapping of Hydrae Cavus, Valles Marineris, Mars](#)
 - Sebastian Walter - [Virtual Observatory interoperability to the HRSC services offered by Freie Universitaet Berlin](#)
 - Gloria Tognon - [Geological characterization of Tsiolkovskiy crater as a possible landing site for rover-based lunar exploration](#)
 - Angelo Zinzi - [MATISSE 2.0: a hub for the planetary science community](#)
 - Francesca Zambon - [Mineralogical mapping of airless bodies of the Solar System](#)

July 3rd

- morning : tutorials + hackathons

Tutorials and hackathons summary table

See also <https://forum.openplanetary.org/t/tutorials-hackathons-schedule-and-topics/90>

Day	Time	Topic	Type	Organisers	Room
02 Jul 2019	09:00 - 10:30	cartography: <ul style="list-style-type: none"> • OpenPlanetaryMap (Nicolas) • Mappy • Styling of planetary symbology 	Hackathon	Nicolas, Alessandro, Andrea, Luca	Large Room
02 Jul 2019	10:50 - 12:20	data science tools (sci-kit learn)	Tutorial	Chiara	Mid room
02 Jul 2019	10:50 - 12:20	VO Tools, see here: https://github.com/eprn-vespa/tutorials/blob/master/README.md	Tutorial	Stephane, Pierre Fernique	Small room
03 Jul 2019	09:00 - 10:30	3d geo-modelling tools	Tutorial	Luca	Mid room
03 Jul 2019	09:00 - 10:30	Git & version control	Tutorial	Carlos	Small room
03 Jul 2019	10:50 - 12:20	Mobile/Python OGC app	Tutorial /Hackathon	Sebastian, Carlos	Large Room

- git versioning
- cartography tools
- data science tools (scikit-learn)
- 3D modeling
- Python/GIS
- Mobile OGC/MS client app
- data discovery with VO tools:
 - [Searching for overlapping files in spatially extended datasets](#)
 - [Comparing related observations and models \(atmospheric profiles\)](#)