

Publications

This is a separate page for EPN2024, to make reporting easier; see [here for the EPN-2020 programme](#).

Contains international conferences only. Local meetings (ASOV...) and consortium meetings (IPDA, etc) are not listed here.

Bibtex version (integrated with EPN2020) [here](#)

Compulsory notice, to be included in all publications:

The Europlanet-2024 Research Infrastructure project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 871149.

- [Conference Presentations \(VESPA H2024\)](#)
 - [2021](#)
 - [AGU 2021 \(Dec 2021, New Orleans\)](#)
 - [Sessions](#)
 - [Presentations](#)
 - [ADASS 2021 \(Oct 2021, Virtual\)](#)
 - [Poster](#)
 - [EPSC 2021 \(Sept 2021, Virtual\)](#)
 - [Sessions](#)
 - [Presentations](#)
 - [2nd Planetary Science Informatics & Data Analytics \(PSIDA\) and 5th Planetary Data Workshop \(June 2021, Virtual\)](#)
 - [Presentations](#)
 - [2020](#)
 - [AGU 2020 \(Dec 2020, Virtual\)](#)
 - [Session](#)
 - [Presentations](#)
 - [EPSC 2020 \(Oct 2020, Virtual\)](#)
 - [Session](#)
 - [Presentations](#)
 - [EGU 2020 \(May 2020, Virtual\)](#)
 - [Presentations](#)
- [Peer-reviewed papers \(VESPA / Europlanet 2024\)](#)
 - [2021](#)
 - [2020](#)
- [Publications citing/using VESPA](#)

Conference Presentations (VESPA H2024)

2021

AGU 2021 (Dec 2021, New Orleans)

Sessions

- [IN55F Tools, Databases, and Data Analytics for Solar and Planetary Sciences in the Big-Data Era I Poster](#)
Conveners: Baptiste Cecconi, Emily Law and Steven P Joy

Presentations

- [S. Joy, I. Moon, J. N. Mafi, R. W. Walker, B. Cecconi, S. Erard \(2021\) Making the PDS Planetary Plasma Interactions \(PPI\) Node Data Accessible via the EPN-TAP Protocol](#)

ADASS 2021 (Oct 2021, Virtual)

Poster

- [S. Erard, G. Landais, C. Chauvin \(2021\) Access to VizieR catalogues of the Solar System. Poster X3-015](#)

EPSC 2021 (Sept 2021, Virtual)

Sessions

- [Tools, Databases and Data Analytics for Solar and Planetary Sciences at the Big Data Era — MITM4](#)
Convener: Baptiste Cecconi | Co-conveners: Sebastien Besse, Andrea Nass

- VESPA workshop — SMW12
Convener: Stéphane Erard

Presentations

- **Azria, C.**, Määttänen, A., Millour, E., Schmidt, F., Andrieu, F., Stéphane, E., Baptiste, C., and Le Sidaner, P. (2021) Planetary VO services on VESPA : MCD, SPICAM and EXOTOPO, Europlanet Science Congress 2021, online, 13–24 Sep 2021, EPSC2021-267 (MITM4 session), <https://doi.org/10.5194/epsc2021-267>.
- **S. Erard** and the VESPA team (2021) Virtual European Solar & Planetary Access (VESPA) 2021: consolidation. MITM4 session, EPSC2021-506. 10.5194/epsc2021-506. [2021EPSC...15..506E](https://doi.org/10.5194/epsc2021-506)
- **B. Schmitt**, M. Furrer, D. Albert, P. Bollard, M. Gorbacheva, L. Bonal, and O. Poch (2021) SSHADE-BandList, the new database of spectroscopy band lists of solids. MITM4 session, EPSC2021-458, <https://doi.org/10.5194/epsc2021-458>

2nd Planetary Science Informatics & Data Analytics (PSIDA) and 5th Planetary Data Workshop (June 2021, Virtual)

Presentations

- **S. Erard**, B. Cecconi, P. Le Sidaner, A. P. Rossi, L. Tomasik, S. Ivanovski, B. Schmitt, N. André, L. Trompet, M. Scherf, R. Hueso, M. Demleitner, N. Manaud, M. Taylor, I. Alexeev, A. Määttänen, E. Millour, F. Schmidt, I. Waldmann, P. Fernique, M. D'Amore, C. Brandt, H. Rothkaehl, M. Molinaro, V. Génot, A. C. Vandaele (2021) PLANETARY DATA IN THE VIRTUAL OBSERVATORY: VESPA (VIRTUAL EUROPEAN SOLAR & PLANETARY ACCESS).

2020

AGU 2020 (Dec 2020, Virtual)

Session

- **IN017** - Tools, Databases, and Data Analytics for Solar and Planetary Sciences in the Big-Data Era Posters (conveners: Cecconi, Law, Joy)

Presentations

- **M. Sharlow**, B. Cecconi, J. Sky, J. Mafi, W. Kurth, C. Higgins and R. Walker. IN017-0003 Archiving Citizen Science Data in a Public Archive: Radio JOVE Data and the Planetary Data System

EPSC 2020 (Oct 2020, Virtual)

Session

- Tools, Databases and Data Analytics for Solar and Planetary Sciences at the Big Data Era — **MITM9**
Conveners: Christophe Arviset, Baptiste Cecconi | Co-conveners: Sébastien Besse, Angelo Pio Rossi

Presentations

- **B. Cecconi** et al (2020) VESPA-Cloud. <https://doi.org/10.5194/epsc2020-1015>
- **B. Cecconi** et al (2020) *ExPRES Modeling of Auroral Radio Source Occultation observed by Galileo Application to JUICE and Juno*. <https://doi.org/10.5194/epsc2020-962>
- **Hueso, R.**, Sánchez-Lavega, A., Legarreta, J., Ordóñez-Etxebarria, I., Félix, J., Erard, S., Sidaner, P.L. (2020) The PVOL database in Europlanet 2024 RI. Session ODAA3, <https://doi.org/10.5194/epsc2020-47>
- **Hueso, R.** et al (2020) Monitoring Neptune's atmosphere with small and large telescopes: results for 2019. *European Planetary Science Congress EPSC2020-354*.
- **S. Erard** et al (2020) *Virtual European Solar & Planetary Access (VESPA): Progress and prospects*. <https://doi.org/10.5194/epsc2020-190>
- **B. Schmitt** et al (2020) *SSHADE, its solid spectra databases and its future band list of molecular solids*. Session SB11, <https://doi.org/10.5194/epsc2020-644>
- **A. Nass**, K. Asch, S van Gassel and A Pio Rossi (2020) *Spatial and Open Research Data Infrastructure for Planetary Science - Lessons learned from European developments*. *European Planetary Science Congress EPSC2020-1058*. <https://doi.org/10.5194/epsc2020-1058>

EGU 2020 (May 2020, Virtual)

Presentations

- **S. Erard** et al (2020) *Planetary Science Virtual Observatory: VESPA/Europlanet outcome and prospects*. Session ITS4.8/ESSI4.1. <https://doi.org/10.5194/egusphere-egu2020-17705>

Peer-reviewed papers (VESPA / Europlanet 2024)

2021

- **Cecconi, Baptiste** ; Louys, Mireille ; Preite Martinez, Andrea ; Derrière, Sébastien ; Ochsenbein, François ; Erard, Stéphane ; Demleitner, Markus (2021) UCD1+ controlled vocabulary - Updated List of Terms Version 1.4. IVOA Endorsed Note 16 June 2021. [2021iv oa.spec.0616C](https://doi.org/10.2021iv.oa.spec.0616C)
- **Another PVOL paper** submitted to Icarus at the end of 2021 on Junocam data, pending.
- **Barrado-Izaguirre N.**, Legarreta J., Sánchez-Lavega A., Pérez-Hoyos S., Hueso R., Iñurrigarro P., Rojas J.F., Mendikoa I., Ordoñez-Etxebarria I., and the IOPW Team (2021). Jupiter's third largest and longest-lived oval: Color changes and dynamics. *Icarus*, 361, 114394 . [doi:10.1016/j.icarus.2021.114394](https://doi.org/10.1016/j.icarus.2021.114394) (soon in arxiv).
- **Cecconi, Baptiste**, Corentin K Louis, Claudio Muñoz Crego, and Claire Vallat (2021) Jovian Auroral Radio Source Occultation Modelling and Application to the. *Planetary and Space Science*, August, 1–34. (accepted paper, no DOI yet)
- **Gil, A.**; Glavan, V.; Wawrzaszek, A.; Modzelewska, R.; Tomasik, L. (2021) "Katz Fractal Dimension of Geoelectric Field during Severe Geomagnetic Storms". *Entropy* 2021, 23, 1531. [doi:10.3390/e23111531](https://doi.org/10.3390/e23111531)

2020

- **Cecconi B.**, Le Sidaner P., Tomasik, L., Marmo C., Garnung M. B., Vaubaillon J., André N. and Gangloff M. (submitted 2019) VOEvent for Solar and Planetary Sciences. *Submitted to Journal of Space Weather and Space Climate*. arXiv:1811.12680
- **Erard S**, Cecconi B, Le Sidaner P, Chauvin C, Rossi AP, Minin M, Capria T, Ivanovski S, Schmitt B, Génot V, André N, Marmo C, Vandaele AC, Trompet L, Scherf M, Hueso R, Määttänen A, Carry B, Achilleos N, Soucek J, Pisa D, Benson K, Fernique P and Millour E. (2020). Virtual European Solar & Planetary Access (VESPA): A Planetary Science Virtual Observatory Cornerstone. *Data Science Journal*, 19(1), p. 22. DOI: [10.5334/dsj-2020-022](https://doi.org/10.5334/dsj-2020-022). arXiv <https://arxiv.org/abs/1907.06521>
- **Cecconi B**, Loh, A, Sidaner, PL, Savalle, R, Bonnin, X, Nguyen, QN, Lion, S, Shih, A, Aicardi, S, Zarka, P, Louis, C, Coffre, A, Lamy, L, Denis, L, Griebmeier, J-M, Faden, J, Piker, C, André, N, Génot, V, Erard, S, Mafi, JN, King, TA, Sky, J and Demleitner, M. 2020. MASER: A Science Ready Toolbox for Low Frequency Radio Astronomy. *Data Science Journal*, 19(1), p. 12. DOI: [doi:10.5334/dsj-2020-012](https://doi.org/10.5334/dsj-2020-012). arXiv [1902.00300](https://arxiv.org/abs/1902.00300)
- **Rossi, A. P. and Minin M.** (2020) Synergies in Astronomy and Geosciences. In *Knowledge Discovery in Big Data from Astronomy and Earth Observation*, Petr Skoda, Fathallah Adam Ed. doi: 10.1016/B978-0-12-819154-5.00014-X

Publications citing/using VESPA

- **Génot, V.**, Budnik, E., Jacquy, C., Bouchemit, M., Renard, B., Dufourg, N., André, N., Cecconi, B., Pitout, F., Lavraud, B., Fedorov, A., Ganfloff, M., Plotnikov, I., Modolo, R., Lormant, N., Mohand, H. S. H., Tao, C., Besson, B., Heulet, D., Boucon, D., Durand, J., Bourrel, N., Brzustowski, Q., Jourdan, N., Hitier, R., Garnier, P., Grison, B., Aunai, N., Jeandet, A., and Cabrolie, F. (2021) Automated Multi-Dataset Analysis (AMDA): An on-line database and analysis tool for heliospheric and planetary plasma data. *Planetary and Space Science, Volume 201, article id. 105214*. **201**, 105214
- **Kokori, A.**, Tsiaras, A., Edwards, B., Rocchetto, M., Tinetti, G., Wünsche, A., Paschalis, N., Agnihotri, V. K., Bachschmidt, M., Bretton, M., Caines, H., Caló, M., Casali, R., Crow, M., Dawes, S., Deldem, M., Deligeorgopoulos, D., Dymock, R., Evans, P., Falco, C., Ferratfiat, S., Fowler, M., Fitcher, S., Guerra, P., Hurter, F., Jones, A., Kang, W., Kim, T., Lee, R., Lopresti, C., Marino, A., Mallonn, M., Mortari, F., Morvan, M., Mugnai, L. V., Nastasi, A., Perroud, V., Pereira, C., Phillips, M., Pintr, P., Raetz, M., Regembal, F., Savage, J., Sedita, D., Sioulas, N., Strikis, I., Thurston, G., Tomacelli, A., and Tomatis, A. (2020) ExoClock Project: An open platform for monitoring the ephemerides of Ariel targets with contributions from the public. *Experimental Astronomy*. Aug 2021, 10.1007/s10686-020-09696-3
- **Albert D. et al**, A decade with VAMDC: results and ambitions. *Atoms* **2020**,8, doi: 10.3390/atoms8040076
- **Vinatier S.** et al (2020) Temperature and chemical species distributions in the middle atmosphere observed during Titan's late northern spring to early summer. *A&A*, **641**, A116. [10.1051/0004-6361/202038411](https://doi.org/10.1051/0004-6361/202038411)
- **Lagain A.** et al (2021) Mars crater Database: a Participative Project for the Classification of Large Martian Craters Morphological Characteristics. *GSA Book Special Paper, Large Meteorite Impacts and Planetary Evolution VI*. W. U. Reimold & C. Koeberl Edt. [https://doi.org/10.1130/2021.2550\(29\)](https://doi.org/10.1130/2021.2550(29))
- **Chamberlain, S.**, Mahieux, A., Robert, S., Piccialli, A., Trompet, L., Vandaele, A. C., and Wilquet, V. (2020). SOIR/VEx observations of water vapor at the terminator in the Venus mesosphere. *Icarus*, 346:113819. doi: 10.1016/j.icarus.2020.113819
- **Szakáts R**, Müller T, Ali-Lagoa V, Marton G, Farkas-Takács A, Bányai E, and Kiss C (2020) Small Bodies: Near and Far Database for thermal infrared observations of small bodies in the Solar System. *Astronomy & Astrophysics* 635, A54. doi: 10.1051/0004-6361/201936142. [arXiv:2001.01482](https://arxiv.org/abs/2001.01482)
- **Alei E.**, Claudi, R., Bignamini, A., and Molinaro, M. (2020). Exo-MerCat: A merged exoplanet catalog with Virtual Observatory connection. *Astronomy and Computing*, 31:100370. 10.1016/j.ascom.2020.100370. arXiv 2002.01834
- **Hueso, R.**, Sánchez-Lavega, A., Rojas, J. F., Simon, A. A., Barry, T., Río-Gaztelurrutia, T. d., Antuñaño, A., Sayanagi, K. M., Delcroix, M., Fletcher, L. N., García-Melendo, E., Pérez-Hoyos, S., Blalock, J., Colas, F., Gómez-Forrellad, J. M., Gunnarson, J. L., Peach, D., and Wong, M. H. (2020) Saturn atmospheric dynamics one year after Cassini: Long-lived features and time variations in the drift of the Hexagon. *Icarus* **336**, 113429. doi: 10.1016/j.icarus.2019.113429