

EPN-2020 Publications

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- JpGU-AGU joint meeting 2017, (20-25 May 2017, Tokyo)
 - Session
 - Oral talks
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- IVOA Interop spring meeting 2017 (14-19 May 2017, Shanghai, China)
 - Session
- EGU 2017 (Vienna, Austria)
 - Session
- Sixth International Workshop on the Mars Atmosphere: Modelling and Observations (Granada, Spain, 17-20 Jan)
 - Poster
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 - AGU 2016 (San Francisco, California, USA)
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 - IAU Symposium 325 on Astroinformatics (Sorrento, Italy)
 - Poster
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- Peer-reviewed papers (VESPA / Europlanet 2020)
 - 2020
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 - PSS Special Issue, 2018: Enabling Open and Interoperable Access to Planetary Science and Heliophysics Databases and Tools
 - 2017
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- Earlier, pre-Europlanet 2020 VESPA publications
- Publications citing/using VESPA

The Europlanet 2020 Research Infrastructure project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 654208.

Conference Presentations (VESPA H2020)

2019

AGU 2019 (9-13 Dec 2019, San Francisco, USA)

Sessions

- **IN11E:** Tools and Databases for Solar and Planetary Sciences in the big data era Posters
Conveners: Baptiste Cecconi, A Ware, E Law

Poster presentations

- **Cecconi, B.**; Erard, S.; Le Sidaner, P.; Chauvin, C. (2019) [Implementing and mapping the VESPA metadata dictionary in the PDS4](#).
- **Alan Loh**, Baptiste Cecconi, Stéphane Aicardi, Pierre Le Sidaner, Corentin Louis, Cyril Chauvin, Xavier Bonnin, Sonny Lion, Andrée Coffre, Emmanuel Thétas, Laurent Lamy and Stéphane Erard (2019) [MASER \(Measuring Analyzing & Simulating Emissions in Radio frequencies\), a Toolbox for Low Frequency Radio Astronomy](#). IN11E-0699

ADASS 2019 (Groningen, Neth.)

Poster

- **Savalle R.**, Erard S., Le Sidaner P. (2019). APERICubes. In Molinaro, M., Shorridge, K., and Pasian, F., editors, *Astronomical Society of the Pacific Conference Series*, volume 521 ADASS XXIX.

EPSC-DPS joint meeting 2019 (15-20 Sept 2019, Geneva)

Sessions

- **MIT9: Tools and Databases for Solar and Planetary Sciences at the Big Data Era**
Convener: Baptiste Cecconi | Co-conveners: Sébastien Besse, Angelo Pio Rossi

Presentations

- **B. Rousseau** and S. Erard (2019) Using TOPCAT with sparse measurements on planetary surfaces. Session MIT9
- **S. Erard** et al (2019) VESPA: Progress and prospects. Session MIT9
- **A. Nass** et al (2019) Towards a concept for a Planetary Science Data Library based on a Spatial Data Infrastructure Model. Session MIT9
- **B. Schmitt** et al (2019). Evolutions of SSHADE, the European solid spectroscopy database infrastructure. *European Planetary Science Congress – Division of planetary Sciences Joint Meeting 2019*, held 15-20 September, 2019 in Geneva, Switzerland, *EPS C Abstracts*, Vol. 13, id. EPSC-DPS2019-2022.

Meteoroids 2019 (17-21 June 2019, Bratislava, Slovakia)

Poster presentation

- **J. Vaubaillon**, P. Le Sidaner, S. Erard, N. André (2019) Meteor showers predictions available as VO-tool.

4th Planetary Data Workshop (June 18–20, 2019, Flagstaff, AZ)

Presentations

- **S. Erard** et al (2019) VESPA: progress and prospects.
- **P. Le Sidaner**, C. Chauvin, S. Erard, B. Cecconi (2019) Prototype to query PDS data from the VESPA interface
- **C. Marmo**, S. Erard, T. Hare (2019) Archiving geospatial metadata in hyperspectral planetary data with fits and PDS4

DDA conference (June 10–13, 2019)

Presentations

- Hestroffer D., Ivantsov A., Thuillot W., Desmars J., David P. 2019. Comparison of prediction of asteroids' close encounter with the Earth [2019DDA....50P..19H](#)

JpGU 2019 (25-31 May 2019, Tokyo)

Sessions

- **M-GI31: Session Open Science in Action: Research Data Sharing, Infrastructure, Transparency, and International Cooperation**
Convener: Baptiste Cecconi

Presentations

- **S. Erard** et al (2019) VESPA: Progress on the Planetary Science Virtual Observatory. *Session M-GI31*
- **B. Cecconi** et al (2019) Community-developed open tools for supporting the ESA JUICE space mission preparation. *Session M-GI31*
- **P. Le Sidaner**, B. Cecconi, S. Erard, C. Chauvin, A. Shih, S. Aicardi, P. Hamy, A. Loh (2019) Publishing planetary science data following FAIR principles. *Session M-GI31*

IVOA Interop spring meeting 2019 (12-17 May 2019, Paris)

Sessions

- **Solar System Interest Group plenary sessions, I & II**

PDC conference (April 29–May 3, 2019)

- Desmars J., Hestroffer D., David P., Ivantsov A., Thuillot W. 2019. DynastVO: Near-Earth asteroids orbits and close approaches database
- Ivantsov A., Hestroffer D., Desmars J., Thuillot W. David P. 2019. Statistics of close encounters predictions by the world services

EGU 2019 (April 2019, Vienna)

Presentations

- **A. Nass et al** (2019) Towards a Dynamic Spatio-Temporal Map and Information Library for the Planetary Sciences: Lessons learned from Earth-based approaches. EGU2019-10964, Session ESSI2.6 – Communities, tools and policies for integrated Earth and Space Science (e)infrastructures (co-sponsored by AGU).
- **L. Tomasik**, B. Matyjasiak, M. Pooga, B. Ceconi, P. Le Sidaner, H. Rothkaehl and I. Stanislawka. Virtual Observatory implementation for Space Weather products from single LOFAR station PL610. EGU2019

2018

AGU 2018 (10-14 December 2018, Washington, DC, USA)

Sessions

- **IN11D**: Interoperable Tools and Databases in Planetary Sciences and Heliophysics Posters
Conveners: Baptiste Ceconi, D A Roberts, A DeWolfe, D Crichton

Poster presentations

- **S. Erard et al** (2018) [VESPA, a Planetary Science Virtual Observatory cornerstone](#). **IN11D-0658 Poster available on-line**
- **S. Joy et al** (2018) [VESPA-Europlanet Planetary Coordinate Systems Update](#). **IN11D-0660**
- **B. Ceconi et al** (2018) [MASER, a toolbox for low frequency radio astronomy](#). **IN11D-0648 Poster available on-line**

EPSC 2018 (16-21 September 2018, Berlin, Ge)

Sessions

- **MD2/MTI4/LFI4** : Machine Learning for Planetary Science in times of increasing data volume and complexity
Conveners: Mario D'Amore, Stéphane Erard, Jörn Helbert
- **MD4**: Solar and Planetary Data system Interoperability
Conveners: Baptiste Ceconi, Stéphane Erard, Vincent Génot, Angelo Pio Rossi
- **SB12/MD10**: Imaging, photometry and spectroscopy of small bodies and planetary surfaces: theory and methods
Conveners Stéphane Erard, Frédéric Schmidt
- **OpenPlanetary Data café meetings** (2 sessions)
- **SSHADE training sessions** (3 sessions)

Oral talks

- **S. Erard**, B. Ceconi, P. Le Sidaner, A. P. Rossi, T. Capria, B. Schmitt, V. Génot, N. André, J.-M. Glorian, A. C. Vandaele, M. Scherf, R. Hueso, A. Määttänen, B. Carry, N. Achilleos, C. Marmo, O. Santolik, J. Soucek, K. Benson, P. Fernique (2018) Virtual European Solar & Planetary Access (VESPA): Year 3. id.EPSC2018-348
- **B. Schmitt**, Ph. Bollard, A. Garenne, D. Albert, L. Bonal, O. Poch and the SSHADE Consortium Partners (2018) SSHADE: the European solid spectroscopy database infrastructure. id.EPSC2018-529.
- **B. Ceconi** (2018) MASER: A Toolbox for Low Frequency Radio Astronomy. id.EPSC2018-822
- **D. Piša**, Ondej Santolík, Jan Souek, and Ulrich Taubenschuss (2018) Multi-dimensional analysis and visualization of planetary electromagnetic field fluctuations by the iPECMAN interface. id.EPSC2018-878
- **S. Ivanovski**, Angelo Zinzi, Maria Teresa Capria, Marco Giardino, Stéphane Erard, Andrea Longobardo, Sergio Fonte, Angelo Antonelli, Vincenzo Della Corte, Alessandra Rotundi, and Vladimir Zakharov (2018) MATISSE web-tool functions integration into VESPA-Europlanet 2020 infrastructure: real-time computation and visualization of aerodynamic coefficients for convex objects moving in a rarefied gas field. id.EPSC2018-1194

Poster presentations

- **R. Hueso**, J. Juaristi, J. Legarreta, A. Sánchez-Lavega, S. Erard, B. Ceconi and Pierre Le Sidaner (2018) Science from PVOL2 (The Planetary Virtual Observatory and Laboratory): A database of amateur observations of Solar system planets integrated in VESPA. id.EPSC2018-46
- **A. P. Rossi**, Jaeho Shin, Ramiro Marco Figuera, Mikhail Minin, and Nicolas Manaud (2018) Mapping bibliometrics for Planetary Science. id.EPSC2018-677
- **M. Minin**, Angelo Pio Rossi, Baptiste Ceconi, Chiara Marmo, and Stéphane Erard (2018) Applications of Jupyter Notebook to VO-GIS interoperability. id.EPSC2018-1095

Colloque du Programme National de Planétologie (5-7/9/2018, Nice, France)

Oral talks

- **Erard**, Stéphane et al (2018) Europlanet / VESPA : adapter l'Observatoire Virtuel à la Planétologie.

COSPAR 2018 (14-22/7/2018, Pasadena, CA, USA)

Session

- **5.2:** Planetary Data Management & Exploitation
Conveners: Thomas Steins, Baptiste Cecconi

Oral talks

- **Kasprzak**, Aurélie; Cecconi, Baptiste; Veillard, Hélène; Le Sidaner, Pierre; Aicardi, Stéphane; Erard, Stéphane; Boisson, Catherine; Stoll, Véronique; Barbet, Virginie; Saconnet, Frédéric; Zwölf, Carlo Maria (2018) BUILDING THE DATA MANAGEMENT PLAN OF OBSERVATOIRE DE PARIS. 42nd scientific assembly of the COSPAR, Pasadena, USA. Abst. S.2-0003-18
- **Erard**, Stéphane; Cecconi, Baptiste; Le Sidaner, Pierre; Pio Rossi, Angelo; Capria, Maria Teresa; Schmitt, Bernard; Genot, Vincent; Andre, Nicolas; Vandaele, Ann C.; Scherf, Manuel; Hueso, Ricardo; Määttänen, Anni; Carry, Benoit; Achilleos, Nicholas; Marmo, Chiara; Santolik, Ondrej; Benson, Kevin; Fernique, Pierre (2018) VESPA, A PLANETARY SCIENCE VIRTUAL OBSERVATORY CORNER STONE. 42nd scientific assembly of the COSPAR, Pasadena, USA. Abst. S.2-0008-18
- **Cecconi**, Baptiste; Le Sidaner, Pierre; Savalle, Renaud; Bonnin, Xavier; Louis, Corentin; Coffre, Andree; Aicardi, Stéphane; Lamy, Laurent; Denis, Laurent; Griessmeier, Jean-Mathias; Faden, Jeremy; Piker, Christopher; Andre, Nicolas; Genot, Vincent; Erard, Stéphane; Mafi, Joseph N; Sharlow, Mark; Sky, Jim; Demleitner, Markus (2018) MASER: A TOOLBOX FOR LOW FREQUENCY RADIO ASTRONOMY. 42nd scientific assembly of the COSPAR, Pasadena, USA. Abst. S.2-0010-18
- **Cecconi**, Baptiste; Le Sidaner, Pierre; Andre, Nicolas; Tomasik, Lukasz; Gangloff, Michel; Marmo, Chiara (2018) VOEVENT FOR SUN-EARTH AND PLANETARY SPACE WEATHER. 42nd scientific assembly of the COSPAR, Pasadena, USA. Abst. PSW.4-0008-18
- **Parunakian**, David; Alexeev, Igor; Belenkaya, Elena. Interplanetary magnetic field penetration into Mercury's magnetosphere. 42nd scientific assembly of the COSPAR, Pasadena, USA. Abs. C3.2-0035-18.
- **Robert**, Severine; Vandaele, Ann C.; Wilquet, Valérie; Trompet, Loïc; Camy-Peyret, Claude (2018) SOIR infrared spectral atlases of the Venus' atmosphere. 42nd COSPAR Scientific Assembly. Held 14-22 July 2018, in Pasadena, California, USA, Abstract id. C4.3-4-18.

MOP 2018 (8-13/7/2018, Boulder, CO, USA)

Posters

- Alexeev I.I., Lavrukhin A.S., **Parunakian D.A.** Contributions of ionospheric Hall currents to Jupiter's and Saturn's magnetic field. Magnetospheres of Outer Planets 2018, Boulder, USA.
- Belenkaya E.S., Cowley S.W.H., Alexeev I.I., Kalegaev V.V., Pensionerov I.A., Blokhina M.S., **Parunakian D.A.** Open and partially closed models of solar wind interaction with Saturn's magnetosphere.

Gringauz-100 (13-15/6/2018, Moscow, Russia)

Oral talks

- Alexeev I.I., Belenkaya E.S., Cowley S.W.H., Kalegaev V.V., Lavrukhin A.S., Parunakian D.A., Pensionerov I.A. ALFVENIC CURRENT SYSTEMS IN THE JUPITER'S AND SATURN'S MAGNETOSPHERES. Gringauz-100: Plasma in the solar system international conference.

Posters

- Parunakian D.A., Belenkaya E.S., Alexeev I.I. ANALYSIS OF SOLAR WIND PARAMETERS USING THE SWAMP VISUALISATION TOOL. Gringauz-100: Plasma in the solar system international conference.
- Pensionerov I.A., Belenkaya E.S., Cowley S.W.H., Kalegaev V.V., Lavrukhin A.S., Parunakian D.A., DETERMINATION OF JUPITER'S MAGNETOSPHERIC PARABOLOID MODEL PARAMETERS USING JUNO MAGNETOMETER DATA. Gringauz-100: Plasma in the solar system international conference.

AOGS 2018 (3-8 June 2018, Hawaii, USA)

Oral talks

- **Cecconi B.**, Erard S. and the VESPA team (2018) VESPA, A PLANETARY SCIENCE VIRTUAL OBSERVATORY CORNER STONE. AOGS 2018, Hawaii. PS14 - Planetary Data in the Big Data Era. PS14-D2-AM2-304A-009 (PS14-A001)

IVOA Interop spring meeting 2018 (27 May- 11 June 2018, Victoria, Canada)

Sessions

- **Solar System Interest Group plenary sessions, I & II**

JpGU 2018 (20-24 May 2018, Tokyo, Japan)

Session

- **M-GI23:** Open Science as a New Paradigm: Research Data Sharing, Infrastructure, Scientific Communications, and Beyond
Yasuhiro Murayama, Yasuhisa Kondo, Baptiste Cecconi, Sean Toczko

Oral talks

- **Aurélie Kasprzak**, Baptiste Cecconi, H el ene Veillard, Pierre Le Sidaner, St ephane Aicardi, St ephane Erard, Catherine Boisson, V eronique Stoll, Virginie Barbet, Fr ed eric Saconnet, Carlo-Maria Zw olf (2018) Building the Data Management Plan of Observatoire de Paris. JpGU, [MGI23-04].
- **Baptiste Cecconi**¹, Pierre Le Sidaner², Renaud Savalle², Xavier Bonnin¹, Corentin Louis¹, Andr ee Coffre³, Laurent Lamy¹, Laurent Denis³, Philippe Zarka¹, Jean-Mathias Grie fmeier⁴, Jeremy Faden^{5,6}, Chris Piker⁶, Nicolas Andr e⁷, Vincent G enot⁷, St ephane Erard¹, Todd A King⁸, Joseph N Mafi⁸, Mark Sharlow⁸, Jim Sky⁹, Markus Demleitner (2018) **MASER: A Toolbox for Measuring, Analysing, Simulating low frequency Radio Emissions**. JpGU, [MGI23-12]

PV2018 (15-17 May 2018, STFC RAL, Harwell, UK)

Oral talks / Proceedings (extended abstracts)

- **Erard et al** (2018) Virtual European Solar & Planetary Access (VESPA): a Virtual Observatory in Planetary Science. [arXiv 1907.06521](https://arxiv.org/abs/1907.06521)
- **Cecconi et al** (2018) Digitizing analog spectrograms recorded on 35 mm film rolls on the Nan ay Decameter Array from 1970 to 1990
- **Cecconi et al** (2018) Building the Data Management Plan of Observatoire de Paris
- **Cecconi et al** (2018) MASER: a toolbox for low frequency radio astronomy. [arXiv 1902.00300](https://arxiv.org/abs/1902.00300)
- **Gangloff et al** (2018) Virtual Planetary Space Weather Services offered by the Europlanet H2020 Research Infrastructure
- **Gangloff et al** (2018) A Space Weather VOEvent service provided by the CDPP in the frame of Europlanet H2020 PSWS

European Lunar Symposium (14-16 May 2018, Toulouse, Fr)

- **Schmitt, B.**, Ph. Bollard, A. Garenne, D. Albert, L. Bonal, and the SSHADE Consortium Partners, 2018. SSHADE: The European solid spectroscopy database infrastructure. European Lunar Symposium, Toulouse, 14-16 May 2018. <https://els-tlse.sciencesconf.org/>

PSIDA 2018 (24-26 April 2018, St Louis, US)

Oral talk

- **Erard S.**, Cecconi B., Le Sidaner P., Rossi A. P., Capria M. T., Schmitt B., Andr e N., Vandaele A. C., Scherf M., Hueso R., M aatt anen A., Carry B., Achilleos N., Marmo C., Santolik O., Benson K., and Fernique P. (2018) VESPA: enlarging the Virtual Observatory to Planetary Science [#6033]

Posters

- **Cecconi B.**, Le Sidaner P., Savalle R., Bonnin X., Zarka P., et al (2018) MASER: A Tool Box for Solar System Low Frequency Radio Astronomy [#6029]
- **Marmo C.**, Hare T. M., Erard S., Cecconi B., Minin M., Rossi A. P., Costard F., and F. Schmidt F. (2018) FITS and PDS4: Planetary Surface Data Interoperability Made Easier [#6024]
- **Trompet L.**, A.C. Vandaele, I. R. Thomas and the NOMAD team (2018) Tools to manage and access the NOMAD data [#6007]
- **Giardino M.**, Fonte S., Politi R., Ivanovski S., Longobardo A., Capria M. T., Erard S., and De Sanctis M. C. (2018) A Virtual Observatory Approach to Planetary Data for Vesta and Ceres [#6011]
- **Zinzi A.**, Longobardo A., Giardino M., Ivanovski S., Capria M. T., et al. (2018) MATISSE 2.0: New Ideas to Support Planetary Sciences [#6002]

EGU 2018 (9-13 April 2018, Vienna, Austria)

Session

- **SC1.12:** Solar System Virtual Observatory Hands-on Session (public)
Convener: Michel Gangloff | Co-Conveners: Baptiste Cecconi, St ephane Erard, Vincent G enot, Angelo Pio Rossi

Posters

- **Erard et al** (2018) Virtual European Solar & Planetary Access (VESPA): a Virtual Observatory in Planetary Science. Session ESSI2.4 – Virtual Research Environments: creating online collaborative environments to support research in the Earth Sciences and beyond

- **Cecconi et al.** (2018) MASER: Measuring, Analysing, Simulating low frequency Radio Emissions. EGU2018-6207 Session ESSI.2.1 – Metadata, Data Models, Semantics, and Collaboration
- **Parunakian et al.** (2018) Hermean magnetospheric structure shape dynamics. EGU2018-14366 Session ST2.3 - The role of the magnetosheath, cusps, foreshock, and transient solar wind phenomena in solar wind – magnetosphere coupling

13th Annual conference "Plasma physics in space" (12-16 February 2018, Moscow, Russia)

Orals

- **Alexeev et al.** Radial profile of the Jovian equatorial current sheet according to Ulysses data and JUNO results
- **Khodachenko et al.** The selfconsistent description of the current sheet, using the particle trajectory method and angular variables.
- **Khodachenko et al.** On the dynamic interaction of expanding plasmaspheres of hot Jupiters with stellar wind: spectral peculiarities of transits.

Posters

- **Pensionerov et al.** Determination of Jupiter's magnetospheric paraboloid model parameters using Juno magnetometer data

XIV Congresso Nazionale di Scienze Planetarie (Bormio, Italia, 5-9 Feb 2018)

- **Longobardo A., Zinzi A., Capria M.T., Erard S., Giardino M., Ivanovski S., Fonte S., Palomba E., Antonelli L.A.** (2018): 3D visualization of planetary data: the MATISSE tool in the framework of VESPA-Europlanet 2020 activity
- **Ivanovski S., Zinzi A., Capria M.T., Giardino M., Erard S., Longobardo A., Fonte S., Antonelli L.A., Della Corte V., Rotundi A., Zakharov V.** (2018): MATISSE web-tool functions integration into VESPA-Europlanet 2020 infrastructure: real-time computation and visualization of aerodynamic coefficients for convex objects moving in a rarefied gas field

2017

AGU 2017 (11-15 December 2017, New Orleans, USA)

Sessions

- **IN11C:** Interoperability in the Solar System Sciences Posters | [Details](#)
Convener: B. Cecconi | Angelo Pio Rossi, D Aaron Roberts, Daniel J Crichton

Posters

- **Erard et al** (2017) [Progress on VESPA, a community-driven Virtual Observatory in Planetary Science](#)
- **Jourdane et al** (2017) [Interoperability science cases with the CDP tools](#)
- **Cecconi et al** (2017) [MASER: Measuring, Analysing, Simulating low frequency Radio Emissions](#)

Eight Moscow Solar System Symposium (9-13 October, 2017)

Orals

- **Alexeev et al.**, Equatorial current disk dynamics in the Jovian magnetosphere

Posters

- **Pensionerov et al.**, Is Saturn's magnetosphere open to the interplanetary magnetic field?

ESEP day 2017 (« Bases de Données et Observatoires Virtuels » - 23 November 2017, Meudon, France)

SOC: B. Cecconi (LESIA), A. Määttänen (LATMOS), P. Drossart (LESIA/ESEP), M. Roos (ESEP)

- **Programme** detailed here: <http://www.esep.pro/Programme,225.html>
- **Marmo et al:** [GeoFITS ou de l'interopérabilité entre acquisition, traitement et visualisation des données planétaires](#)
- **Erard et al:** [Virtual European Solar and Planetary Access \(Europlanet-2020-RI/VESPA\)](#)
- **Fernique et al:** [Extension d'Aladin pour l'affichage de données planétaires](#)
- **Erard et al:** [VIRTIS / Venus-Express interoperable data service](#)
- **Lamy et al:** [APIS, un service de données de spectro-imagerie aurorale planétaire](#)
- **Crovisier et al:** [44 ans d'observations cométaires au radiotélescope de Nançay](#)
- **Cecconi et al:** [MASER \(Mesures Analyses Simulations d'Emissions Radio\) — a toolbox for low frequency radio astronomy](#)
- **Schmitt et al.** SSHADE: an European Database Infrastructure in Solid Spectroscopy. id. EPSC2017-702.

IVOA Interop fall meeting 2017 (27-29 Oct 2017, Santiago, Chile)

Oral talks (plenary only)

- **B. Cecconi:** SSIG activities

LDSE 2017 (Forum on Lunar and Deep-space Exploration - 19-22 September 2017, Beijing, China)

Oral talks

- **Angelo Pio Rossi, Stéphane Erard, Baptiste Cecconi, Mikhail Minin, Chiara Marmo, Pierre le Sidaner and the EuroPlanet VESPA Team (2017)** Accessing planetary exploration data via Virtual Observatory

EPSC 2017 (17-22 September 2017, Riga, Latvia)

Sessions

- **MT8.** Solar and Planetary Data system Interoperability
Convener: B. Cecconi | Co-conveners: S. Erard , A. P. Rossi , V. Génot
- **SMW1.3.** Solar System Virtual Observatory Hands-on Session
Convener: Michel Gangloff
- **SMW1.9.** OpenPlanetary Data Analysis Cafe
Convener: A. P. Rossi | Co-Conveners: A. Frigeri , N. Manaud , M. D'Amore , M. Aye

Oral talks

- **Longobardo A.**, A. Zinzi, M.T. Capria, S. Erard, M. Giardino, S. Ivanovski, S. Fonte, E. Palomba, L.A. Antonelli (2017) 3D visualization of planetary data: the MATISSE tool in the framework of VESPA-Europlanet 2020 activity
- **Erard S.**, B. Cecconi, P. Le Sidaner, A. P. Rossi, B. Schmitt, B. Rousseau, F. Andrieu, M. Minin, V. Génot, J.-M. Glorian, M. Birlan (2017) Spectroscopy of planetary surfaces in a VO context (VESPA)
- **Erard, S.** (2017) Spectral analysis via comparison of band characteristics
- **Cecconi B.**, P. Zarka, R. Savalle, P. Le Sidaner and the **Juno-Ground-Radio Team** (2017) Juno-Ground-Radio Observation Support Tools.
- (**Schmitt B.**, P. Bollard, A. Garenne, D. Albert, L. Bonal, and A. SSHADE Consortium Partners (2017) SSHADE: an European Database Infrastructure in Solid Spectroscopy)
- **Génot V.**, N. Dufourg, M. Bouchemit, E. Budnik, N. André, B. Cecconi, M. Gangloff, J. Durand, F. Pitout, C. Jacquy, A. Rouillard, N. Jourdane, D. Heulet, B. Lavraud, R. Modolo, P. Garnier, P. Louarn, P. Henri, M. Galand, and A. Beth (2017) Planetary data distribution by the French Plasma Physics Data Centre (CDPP): the example of Rosetta Plasma Consortium in the perspective of Solar Orbiter, Bepi-Colombo and JUICE
- B. Cecconi, **P. Le Sidaner**, N. André, and C. Marmo (2017) VOEvent for Solar and Planetary Sciences
- **Macfarlane A.**, I. Barbarisi, R. Docasal, C. Rios, J. Saiz, F. Vallejo, S. Martinez, C. Arviset, S. Besse, and C. Vallat (2017) Implementation of an EPN-TAP Service to Improve Accessibility to the Planetary Science Archive

Posters

- **A. Connell** (2017) Cassini VESPA
- **R. Hueso**, J. Juaristi, J. Legarreta, A. Sánchez-Lavega, S. Erard, B. Cecconi, and Pierre Le Sidaner (2017) PVOL2 (The Planetary Virtual Observatory and Laboratory): An improved database of amateur observations of Solar system planets
- **D. Henckel**, G. Arnold, D. Kappel, L.V. Moroz, and K. Markus (2017) Berlin Reflectance Spectral Library (BRSL)
- **M. Gangloff**, V. Génot, N. André, P-L Blelly, A. Marchaudon, S. Erard, B. Cecconi, N. Jourdane, M. Indurain, M. Bouchemit, E. Budnik, A. Rouillard, L. Beigbeder, J-M Glorian (2017) Interoperability of the CDPP tools and databases through the EPN-TAP protocol
- **D. Piša**, O. Santolík, J. Souek, and U. Taubenschuss (2017) Implementation of the interface for sPecTral Matrix ANalyzer (iPECMAN)
- **J. Desmars**, W. Thuillot, D. Hestroffer, P. David, and P. Le Sidaner (2017) DynAstVO : a Europlanet database of NEA orbits.
- **L. Trompet**, A.C. Vandaele, Y. Geunes, A. Mahieux, V. Wilquet, S. Chamberlain, S. Robert, I. Thomas, S. Erard, B. Cecconi, and P. Le Sidaner (2017) IASB-BIRA contribution to VESPA for planetary aeronomy studies
- **A. Beth**, M. Galand, C. Carr, B. Geiger, V. Génot, N. Jourdane, M. Gangloff, S. Erard, B. Cecconi (2017) Illumination maps of 67P: availability for the community

IAA Planetary Defense Conference (5-19 May 2017, Tokyo, Japan)

- **J. Desmars**, D. Hestroffer, W. Thuillot, P. David, P. Le Sidaner, S. Erard (2017) DynAstVO: the Europlanet orbital Near-Earth asteroid database

JpGU-AGU joint meeting 2017, (20-25 May 2017, Tokyo)

Session

- **M-GI27.** Challenges of Open Science: Research Data Sharing, Infrastructure, and Scientific Communications
Convener: Yasuhiro Murayama | Co-conveners: S. Toczko, B. Cecconi, B. Hanson, K. Lehnert, T. Oguchi, Y. Kondo

Oral talks

- **Atsushi Kumamoto**, Fuminori Tsuchiya, Hiroaki Misawa, Masato Kagitani, Hajime Kita, Tomoki Kimura, Chihiro Tao, Kazumasa Imai, Tomoyuki Nakajo, Baptiste Cecconi (2017) Development status of the metadata server and data archives at Tohoku University for collaborative studies using planetary radio and spectroscopic data [MGI27-05]

- Stéphane Erard, **Baptiste Cecconi**, Pierre Lesidaner, Angelo P. Rossi, Maria Teresa Capria, Bernard Schmitt, Vincent Génot, Nicolas André, Ann Carine Vandaele, Manuel Scherf, Ricardo Hueso, Anni Määttänen, William Thuillot, Benoit Carry, Nicholas Achilleos, Chiara Marmo, Ondrej Santolik, Kevin Benson, Pierre Fernique, Laurent Beigbeder, Ehouarn Millour, Baptiste Rousseau, Francois Andrieu, Cyril Chauvin, Mikhail Minin, Stavro Ivanovski, Andrea Longobardo, Philippe Bollard, Damien Albert, Michel Gangloff, Nathanael Jourdan, Myriam Bouchemit, Jean-Michel Glorian, Loïc Trompet, Tarek Al-Ubaidi, Jon Juaristi Campillo, Josselin Desmars, Patrick Guio, Omar Delaa, Anthony Lagain, Jan Soucek, David Pisa (2017) VESPA: a community-driven Virtual Observatory in Planetary Science [MGI27-08]

Posters

- **Baptiste Cecconi**, Philippe Zarka, Renaud Savalle, Pierre Lesidaner, Corentin Louis, Laurent Lamy, Andree Coffre, Laurent Denis, Cedric Viou, Alexander A Konvalenko, Vyacheslav Zakharenko, Serge Yerin, Anastasia Skoryk, Yasumasa Kasaba, Hiroaki Misawa, Fuminori Tsuchiya, Yasuhide Hobara, Tomoyuki Nakajo, Kasumasa Imai, Vladimir Riabov, Hanna Rothkaehl, Glenn S Orton, Tom Momary, Jean-Mathias Griessmeier, Masafumi Imai, Julien N Girard, Marin Anderson, Nicolas André, Vincent Génot, Rob Ebert, Tobia Carozzi, Tomoki Kimura, William S Kurth, Chuck A Higgins, John L Mugler, Dave Typinski, Tracy Clarke, Jim Sky, Richard Flagg, Francisco Reyes, Wes Greenman, Jim Brown, Andy Mount, Tom Ashcraft, Jim Thieman, Whit Reeve, Shing Fung, Todd King, Mark Sharlow, Scott Bolton (2017) Juno-Ground-Radio Observation Support Tools [MGI27-P08]

IVOA Interop spring meeting 2017 (14-19 May 2017, Shanghai, China)

Session

- **Solar System Interest Group plenary session**

EGU 2017 (Vienna, Austria)

Session

- **SC18: Solar System Virtual Observatory Hands-on Session (public)**
Convener: Michel Gangloff | Co-Conveners: Baptiste Cecconi, Stéphane Erard, Vincent Génot

Sixth International Workshop on the Mars Atmosphere: Modelling and Observations (Granada, Spain, 17-20 Jan)

Poster

- **S. Erard**, Z. Yin, B. Cecconi, E. Millour, A. Määttänen, P. Le Sidaner (2017) Interoperable Mars Atmosphere Data Services.

2016

AGU 2016 (San Francisco, California, USA)

Session

- **IN31B: Enabling Open and Interoperable Access to Planetary Science and Heliophysics Databases and Tools Posters** | [Details](#)

Posters

- **S. Erard**, B. Cecconi, P. Le Sidaner, A. P. Rossi, T. Capria, B. Schmitt, N. André, A. C. Vandaele, M. Scherf, R. Hueso, A. Määttänen, W. Thuillot, N. Achilleos, C. Marmo, O. Santolik, K. Benson (2016) [One year on VESPA, a community-driven Virtual Observatory in Planetary Science](#). IN31B: Enabling Open and Interoperable Access to Planetary Science and Heliophysics Databases and Tools Posters
- **Mikhail Minin**, Angelo Pio Rossi, Chiara Marmo, Baptiste Cecconi, Pierre Le Sidaner and Stéphane Erard (2016) [Virtual Observatory Integration of OGC geospatial data and services](#). IN31B: Enabling Open and Interoperable Access to Planetary Science and Heliophysics Databases and Tools Posters
- **Baptiste Cecconi**, Kevin Benson, Pierre Le Sidaner, Nicolas André (2016) [Developing an Efficient Planetary Space Weather Alert Service using Virtual Observatory Standards](#). IN31B: Enabling Open and Interoperable Access to Planetary Science and Heliophysics Databases and Tools Posters

IAU Symposium 325 on Astroinformatics (Sorrento, Italy)

Poster

- **A. Longobardo** et al (2016) Data mining and visualization from planetary missions: the VESPA-Europlanet2020 activity. Proceedings of the International Astronomical Union on Astroinformatics, IAU Symposium, Volume 325, pp. 316-319 (held 20-24/10)

ADASS 2016 (Trieste, Italy)

Poster

- **Savalle R.**, Erard S., Le Sidaner P. (2016) APERICubes: An on-line astronomical & planetary ergonomic research interface for data cubes. ADASS XXVI, 16-20/10 2016.

EPSC-DPS 2016 (Pasadena, California, USA)

Oral talks

Poster

- **Erard S.**, P. Drossart, G. Piccioni, F. Henry, R. Politi (2016) Access to VIRTIS / Venus-Express post-operations data archive. Poster Number 216.01 (in Venus session)
- **J. Desmars**, W. Thuillot, D. Hestroffer, P. David, P. Le Sidaner (2016) DynAstVO: the Europlanet orbital Near-Earth asteroid database (small bodies session)

AGOS 2016 (Beijing, China)

Oral talk

- **Erard S.**, B. Cecconi, P. Le Sidaner, A. P. Rossi, T. Capria, B. Schmitt, N. André, A. C. Vandaele, M. Scherf, R. Hueso, A. Määttänen, W. Thuillot, N. Achilleos, C. Marmo, O. Santolík, K. Benson (2016) VESPA: A community-driven Virtual Observatory in Planetary Science - Session PS09 - **Planetary Science Data Archiving**

Poster

- **Erard S.**, B. Cecconi, P. Le Sidaner, A. P. Rossi, T. Capria, B. Schmitt, N. André, A. C. Vandaele, M. Scherf, R. Hueso, A. Määttänen, W. Thuillot, N. Achilleos, C. Marmo, O. Santolík, K. Benson (2016) VESPA: Enlarging the Planetary Science Virtual Observatory. Session PS09 - **Planetary Science Data Archiving**

Panel of Planetary Science forum on international collaboration

- **Erard S.** (2016) International Data Archiving Collaborations. Session PS09 - **Planetary Science community forum**

COSPAR 2016 (Istanbul, Turkey)

plouf

SF2A 2016 (Lyon, France)

Oral talk (plenary session S00)

- **S. Erard**, B. Cecconi, P. Le Sidaner, A. P. Rossi, T. Capria, B. Schmitt, N. André, A. C. Vandaele, M. Scherf, R. Hueso, A. Määttänen, W. Thuillot, N. Achilleos, C. Marmo, O. Santolík, K. Benson (2016) Europlanet/VESPA: developing the Planetary Science Virtual Observatory | [Details](#)

JpGU 2016 (Tokyo, Japan)

Session

- **MGI04**: Open Research Data and Interoperable Science Infrastructures for Earth & Planetary Sciences | [Details](#)

EGU 2016 (Vienna, Austria)

Session

- **SMP11**: Virtual European Solar and Planetary Access Solar System Virtual Observatory Hands-on Sessions (public)

Oral talk

- **Erard**, Cecconi, Le Sidaner, Capria, and Rossi (2016) VESPA: developing the Planetary Science Virtual Observatory in H2020. [EGU2016-17527](#)

Poster

- **Cecconi et al. (2016)** Virtual observatory tools and amateur radio observations supporting scientific analysis of Jupiter radio emissions. [EGU2016-17613](#)

ESLAB 2016 (Leiden, Netherlands)

- **Erard S. and Snodgrass C. (2016)** Adding value to 67P/Churyumov-Gerasimenko data archives with Virtual Observatory protocols (abstract). "From Giotto to Rosetta" 50th ESLAB Symposium. Leiden, 14-18 March 2016.

LPSC 2016 (Houston, USA)

- **Marmo C., T.M. Hare, S. Erard, B. Cecconi, F. Costard, F. Schmidt and A. P. Rossi (2016)** Fits format for planetary surfaces: bridging the gap between fits world coordinate systems and geographical information systems (abstract). Lunar and Planetary Science Conference **XLVII**, [abstract #1870](#). Lunar and Planetary Institute, Houston.
- **Rossi A. P., T. Hare, P. Baumann, D. Misev, C. Marmo, S. Erard, B. Cecconi, R. Marco Figuera (2016)** Planetary coordinate reference systems for OGC web services (abstract). Lunar and Planetary Science Conference **XLVII**, [abstract #1422](#). Lunar and Planetary Institute, Houston.

2015

AGU 2015 (San Francisco, California, USA)

Sessions

- **IN33E:** Enabling Access to Solar and Planetary Resources through the Virtual Observatory I (Oral)
Convener: B Cecconi | Co-Covener: D Crichton, AP Rossi, DA Roberts
[Oral Programme](#)
- **IN41A:** Enabling Access to Solar and Planetary Resources through the Virtual Observatory II (Poster)
Convener: B Cecconi | Co-Covener: D Crichton, AP Rossi, DA Roberts
[Poster Programme](#)

Oral talks

- **S Erard, B Cecconi, P Le Sidaner, MR Capria, AP Rossi, B Schmitt, N Andre, A-C Vandaele, R Hueso, AE Määttänen, W Thuillot, N Achilleos, C Marmo, O Santolik, K Benson.** *VESPA: Developing the Planetary Science Virtual Observatory in H2020.* [N33E-03](#).
- **VN Genot, N Andre, B Cecconi, M Gangloff, M Bouchemit, N Dufourg, F Pitout, E Budnik, B Lavraud, AP Rouillard, D Heulet, A Bellucci, J Durand, D Delmas, O Alexandrova, C Briand and A Biegun.** *CDPP activities: Promoting research and education in space physics.* [IN33E-05](#).

Posters

- **B Cecconi, R Savalle, PM Zarka, M Anderson, N André, A Coffre, T Clarke, L Denis, RW Ebert, S Erard, V Génot, JN Girard, J-M Griessmeier, SLG Hess, CA Higgins, Y Hobara, K Imai, M Imai, Y Kasaba, AA Konovalenko, A Kumamoto, WS Kurth, L Lamy, P Le Sidaner, H Misawa, T Nakajo, GS Orton, VB Ryabov, J Sky, J Thieman, F Tsuchiya, D Typinski and the JUNO Ground Radio.** *Sharing Low Frequency Radio Emissions in the Virtual Observatory: Application for JUNO-Ground-Radio Observations Support.* [IN41A-1691](#).

PV2015 (Darmstadt, Germany)

Posters

- **Erard S., Cecconi B., Le Sidaner P., Capria T., Rossi A.P. (2015)** VESPA: Developing The Planetary Science Virtual Observatory in H2020 (abstract). PV2015, EUMETSAT Darmstadt, 3-5/11/2015.
- **Cecconi B., Erard S., Le Sidaner P. (2015)** Standardization Of Observatories, Instruments And Reference Frames For Planetary Sciences (abstract). PV2015, EUMETSAT Darmstadt, 3-5/11/2015.

Oral talks

- **Cecconi B., Hess S., Le Sidaner P., Savalle R., Erard S., Coffre A., Thétas E., André N., Génot V., Thieman J., Typinski D., Sky J., Higgins C. (2015)** Virtual Observatory Tools And Amateur Radio Observations Supporting Scientific Analysis of Jupiter Radio Emissions (abstract). PV2015, EUMETSAT Darmstadt, 3-5/11/2015.

EPSC 2015 (Nantes, France)

Sessions

- **MT9.** Enabling Access to Solar and Planetary Resources through the Virtual Observatory
Convener: B. Cecconi | Co-Covener: A. Csillaghy, W. Thuillot, A. P. Rossi, M. Khodachenko, M. T. Capria, and T. Cook
[Oral Programme](#) | [Poster Programme](#)
- **SMW1.9.** Virtual European Solar and Planetary Access Solar System Virtual Observatory Hands-on Sessions (public)
Convener: B. Cecconi

Oral talks

- **S Erard**, B. Cecconi, P. Le Sidaner, T. Capria, A. P. Rossi, B. Schmitt, N. André, A.-C. Vandaele, M. Scherf, R. Hueso, A. Maattanen, W. Thuillot, N. Achilleos, C. Marmo, O. Santolik, K. Benson, and Ph. Bollard, *VESPA: Developing the Planetary Science Virtual Observatory in H2020*. [EPSC2015-270](#).
- **AP Rossi**, B. Cecconi, N. Manaud, S. Erard, and C. Marmo. *Planetary GIS and EuroPlanet-RI H2020*. [EPSC2015-178](#).
- **B Cecconi**, SLG Hess, P Le Sidaner, R Savalle, S Erard, A Coffre, E Thétas, N André, V Génot, J Thieman, D Typinski, J Sky, and C Higgins. *Virtual Observatory tools and Amateur Radio Observations Supporting Scientific Analysis of Jupiter Radio Emissions*. [EPSC2015-140](#).

Posters

- **P. Le Sidaner**, J. Abouadarham, M. Birlan, D. Briot, X. Bonnin, B. Cecconi, C. Chauvin, S. Erard, F. Henry, L. Lamy, M. Mancini, J. Normand, F. Popescu, F. Roques, R. Savalle, J. Schneider, A. Shih, W. Thuillot, and S. Vinatier (2015). *Planetary Sciences Interoperability at VO Paris Data Centre*. [EPSC2015-765](#).
- **B. Schmitt**, D. Albert, P. Bollard, L. Bonal, M. Gorbacheva, L. Mercier, and the SSHADE Consortium Partners (2015). *SSHADE in H2020: Development of an European Database Infrastructure in Solid Spectroscopy*. [EPSC2015-628](#) | [Presentation](#).
- **O. Santolik**, D. Pisa, and J. Soucek (2015). *Multidimensional analysis of electromagnetic fields*. [EPSC2015-877](#).
- **B. Cecconi**, S. Erard, and P. Le Sidaner (2015). *Standardization of Observatories, Instruments and Reference Frames for Planetary Sciences*. [EPSC2015-141](#).
- **R. Hueso**, J. Legarreta, and A. Sánchez-Lavega (2015). *Amateur – professional collaborations in Giant Planets Atmospheres Research through the Planetary Virtual Observatory of the International Outer Planets Watch (PVOL - IOPW)*. [EPSC2015-182](#).

IAU 2015 General Assembly (Honolulu, Hawaii, USA)

Posters

- **S Erard**, B Cecconi, P Le Sidaner, F Henry, C Chauvin, J Berthier, N André, V Génot, B Schmitt, MT Capria, G Chanteur (2015). *Developing the Planetary Science Virtual Observatory*. IAU General Assembly, Meeting #29. DBp.1.04.
- **B Cecconi**, SLG Hess, P Le Sidaner, S Erard, A Coffre, E Thétas, N André, V Génot, J Thieman, D Typinsky, J Sky, CA Higgins (2015). *Low Frequency Radio Data in the Virtual Observatory*. IAU General Assembly, Meeting #29. DBp.1.03.
- **B Cecconi**, S Erard, P Le Sidaner (2015). *Standardization of Observatories, Instruments and Reference Frames for Planetary Sciences*. IAU General Assembly, Meeting #29. DBp.1.40.

Peer-reviewed papers (VESPA / Europlanet 2020)

2020

- **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: XX, pp. 1–10. 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: 12, pp. 1–7. DOI: [doi:10.5334/dsj-2020-012](https://doi.org/10.5334/dsj-2020-012). arXiv [1902.00300](https://arxiv.org/abs/1902.00300)

2019

- **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
- **Louis**, C. K., Hess, S. L. G., Cecconi, B., Zarka, P., Lamy, L., Aicardi, S., and Loh, A. (2019). EXPRES: an Exoplanetary and Planetary Radio Emissions Simulator. *A&A*, 627:A30. doi: [10.1051/0004-6361/201935161](https://doi.org/10.1051/0004-6361/201935161)
- **Minin M.**, A. P. Rossi, R. Marco Figuera, V. Unnithan, C. Marmo, S. Walter, M. Demleitner, P. Le Sidaner, B. Cecconi, S. Erard, T. M. Hare (2019) Bridging the gap between Geographical Information Systems and Planetary Virtual Observatory. *Earth and Space Science* **6** (special section *Planetary Mapping: Methods, Tools for Scientific Analysis and Exploration*). <https://doi.org/10.1029/2018EA000405>
- **Pensionerov**, I. A., Belenkaya, E. S., Cowley, S. W. H., Alexeev, I. I., Kalegaev, V. V., and Parunakian, D. A. (2019). Magnetodisc modelling in Jupiter's magnetosphere using Juno magnetic field data and the paraboloid magnetic field model. *Annales Geophysicae*, 37 (1):101–109.

2018

- **Marmo C.**, T. M. Hare, S. Erard, M. Minin, F.-X. Pineau, A. Zinzi, B. Cecconi, A. P. Rossi (2018) FITS format for planetary surfaces: definitions, applications and best practices. *Earth and Space Science* **5**, 640-651 (special section *Planetary Mapping: Methods, Tools for Scientific Analysis and Exploration*). <https://doi.org/10.1029/2018EA000388>. <https://hal.archives-ouvertes.fr/hal-01942550v1>
- **Longobardo A.**, A. Zinzi, M.T. Capria, S. Erard, M. Giardino, S. Ivanovski, S. Fonte, G. Di Persio, E. Palomba, L.A. Antonelli (2018) Production and 3D visualization of high-level data of minor bodies: the MATISSE tool in the framework of VESPA-Europlanet 2020 activity. *Adv Space Res.* **62**, 2317-2325. <https://doi.org/10.1016/j.asr.2017.12.001>
- **Carry B. & Berthier J.** (2018) ViSiON: Visibility Service for Observing Nights. *Planet Space Sc* **164**, 79-84. <https://doi.org/10.1016/j.pss.2018.06.012>. arXiv:1806.09425

- **Alexeev I.**, Parunakian D., Dyadechkin S., Belenkaya E., Khodachenko M., Kallio E., Alho M. Calculation of the Initial Magnetic Field for Mercury's Magnetosphere Hybrid Model. *Cosmic Research*, vol.56, no.2, pp.108-114
- **Pensionerov I.**, Belenkaya E., Alexeev I., Kalegaev V. Analysis of paraboloid magnetosphere model parameter influence on the model magnetic field profile along JUNO spacecraft trajectory. *Moscow University Physics Bulletin*, vol. 4.
- **Bradley T.J.**, Cowley S.W.H, Provan G., Hunt G.J., Bunce E.J., Wharton S.J., Alexeev I.I., Belenkaya E.S., Kalegaev V.V., Dougherty M.K. Fieldaligned currents in Saturn's nightside magnetosphere: Subcorotation and planetary period oscillation components during northern spring. *Journal of Geophysical Research: Space Physics* **123**, no.4
- Jose Luis **Ballester**, Igor Alexeev, Manuel Collados, Turlough Downes, Pfaff Robert F., Holly Gilbert, Maxim Khodachenko, Elena Khomenko, Shaikhislamov Ildar F., Roberto Soler, Enrique Vazquez-Semadeni, Teimuraz Zaqarashvili. Partially Ionized Plasmas in Astrophysics. *Space Science Reviews* **214**, no 2, . 58-207
- Andrea **Nass**, Kaichang Di, Stephan Elgner, Stephan van Gassel, Trent Hare, Henrik Hargitai, Irina Karachevtseva, Akos Kereszturi, Elke Kersten, Alexander Kokhanov, Nicolas Manaud, Thomas Roatsch, Angelo Pio Rossi, James Skinner, Jr., and Marita Wählisch (2018) Planetary Cartography – Activities and Current Challenges. *Proc. Int. Cartogr. Assoc.*, **1**, 81. <https://doi.org/10.5194/ica-proc-1-81-2018>

PSS Special Issue, 2018: Enabling Open and Interoperable Access to Planetary Science and Heliophysics Databases and Tools

- **Cecconi B.**, Roberts A., Yamamoto Y. (2018) Editorial to Special Issue on Enabling Open and Interoperable Access to Planetary Science and Heliophysics Databases and Tools. *PSS* **150**, 1. doi: 10.1016/j.pss.2017.12.13
- **Génot V.**, L. Beigbeder, D. Popescu, N. Dufourg, M. Gangloff, M. Bouchemit, S. Caussarieu, J.-P. Toniutti, J. Durand, R. Modolo, N. André, B. Cecconi, C. Jacquy, F. Pitout, A. Rouillard, R. Pinto, S. Erard, N. Jourdane, L. Leclercq, S. Hess, M. Khodachenko, T. Al-Ubaidi, M. Scherf, E. Budnik (2018) Science data visualization in planetary and heliospheric contexts with 3DView. *PSS* **150**, 111-130. doi: 10.1016/j.pss.2017.07.007
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