July 2024 Newsletter

It’s the Most Wonderful Time of the Year*!

*from a certain point of view

Yes, we’re coming up on the AGU Annual Meeting abstract submission deadline!

For this year’s meeting in Washington, DC, Planetary Sciences is leading 43 sessions spanning the inner to the outer Solar System, sample return, volatiles, upcoming and in-flight missions, and so much more. You can find details of these sessions here.

But the deadline is coming up: **abstracts are due 31 July 2024 11:59 pm EDT!**

A relatively new AGU policy allows first authors to submit two non-invited abstracts, as long as the second is submitted to a session led by a different section from the first abstract. [The full abstract submission guidelines are here.](#)

As the summer goes on we will have more information on town halls, Planetary Section award lectures, and other events at this year’s Annual Meeting. In the meantime, if you have questions, concerns, or comments, don’t hesitate to reach out at paul.byrne@wustl.edu. And if you have any deadlines, events or announcements you would like to share, please email Sarah Hörst at sarah.horst@jhu.edu.

Happy writing (preferably not starting on 30 July), everyone!

Paul

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Planetary Sciences Announcements & Updates

(1) New Horizons PDS Release

The following New Horizons data were released in the NASA PDS in May and June and are now available for use in research and proposals:

2024.05.30 New Horizons Bolometric Hemispherical Albedo Map of Pluto

To access that data, go here.

2024.06.28 New Horizons Alice Reference Files Used in Calibrating Data
2024.06.28 New Horizons Alice KEM1 Encounter Calibrated Data
2024.06.28 New Horizons Alice KEM1 Encounter Raw Data
2024.06.28 New Horizons Documents for the Alice Instrument
2024.06.28 New Horizons Documents for the LORRI Instrument
2024.06.28 New Horizons Mission Documents v2.0
2024.06.28 New Horizons Documents for the SWAP Instrument
2024.06.28 New Horizons LORRI Reference Files Used in Calibrating Data
2024.06.28 New Horizons LORRI KEM1 Encounter Partially Processed Data
2024.06.28 New Horizons LORRI KEM1 Encounter Raw Data
2024.06.20 New Horizons SWAP KEM2 Raw,Calibrated V1.0
2024.06.20 New Horizons SDC KEM2 Raw,Calibrated V1.0
2024.06.20 New Horizons PEPSSI KEM2 Raw,Calibrated V1.0
2024.06.20 New Horizons LORRI KEM2 Raw,Calibrated V1.0
2024.06.20 New Horizons LEISA KEM2 Raw,Calibrated V1.0

To access that data, go here.


Articles preceded by (OA) are published with open access.


2. Reconciling Mars InSight Results, Geoid, and Melt Evolution With 3D Spherical Models of Convection, by J. P. Murphy, S. D. King, https://doi.org/10.1029/2023JE008143


6. Effects of Transient Obliquity Tides Within Mimas' Warm, Icy Interior Preserved as a Frozen Fossil Figure, by S. Gyalay, F. Nimmo, B. G. Downey, https://doi.org/10.1029/2023JE007903


8. Surface Geological Evolution in the Chang'e 5 Landing Area (Em4 Unit) Revealed by a New Age-Retrieving Method From Regression Learning, by Yuchao Chen, Qian Huang, Jiannan Zhao, Haolin Yin, https://doi.org/10.1029/2023JE008198


10. A Scaling Relation for Core Heating by Giant Impacts and Implications for Dynamo Onset, by You Zhou, Peter E. Driscoll, Mingming Zhang, Christian Reinhardt, Thomas Meier, https://doi.org/10.1029/2023JE008163


13. Lunar Farside South Pole-Aitken Basin Interior: Evidence for More Extensive Central Cryptomaria in the South Pole-Aitken Compositional Anomaly (SPACA), by Xing Wang, James


Articles preceded by (OA) are published with open access.


2. (OA) Lithologies and Chronologic Opportunities of Materials to Be Returned From the Artemis Exploration Zone, by Ruby V. Patterson, Thomas J. Lapen, David A. Kring, Myriam Lemelin, McKayla L. Meier, https://doi.org/10.1029/2023JE008275


6. (OA) Revealing the Local Time Structure of the Alfvén Radius in Jupiter's Magnetosphere Through High-Resolution Simulations, by Yan Xu, Licia Ray, Zhonghua Yao, Binzheng Zhang, Bertrand Bonfond, Sarah Badman, Denis Grodent, Enhao Feng, Tianshu Qin, Yong Wei, https://doi.org/10.1029/2024JE008368


9. Temperature and Composition Disturbances in the Southern Auroral Region of Jupiter Revealed by JWST/MIRI, by Pablo Rodríguez-Ovalle, Thierry Fouchet, Sandrine Guerlet, Thibault Cavalié, Vincent Hue, Manuel López-Puertas, Emmanuel Lellouch, James A. Sinclair, Imke de Pater, Leigh N. Fletcher, Michael H. Wong, Jake Harkett, Glenn S. Orton, Ricardo Hueso,

