

September 2023 Newsletter

Let's Celebrate our Colleagues!

By now, you might have heard about the new class of AGU Fellows, as well as the other honors bestowed upon members—and I'm delighted to say that we can count among them some of our Planetary Sciences colleagues!

First, huge congratulations to David Catling and Victoria Meadows, both at the University of Washington, for their election to the 2023 Class of Fellows! David's nomination came from Planetary Sciences, and Victoria's was led by Biogeosciences and supported by Planetary Sciences.

I'm also excited to share with you our PS Section Award winners:

- **Shauna Morrison** (Carnegie Institution for Science) is the Ronald Greeley Early Career Award winner
- **Barbara Sherwood Lollar** (University of Toronto) will give the Carl Sagan Lecture
- **Dante Lauretta** (University of Arizona) will give the Eugene Shoemaker Lecture
- **Thomas Prettyman** (Planetary Science Institute) is the Fred Whipple Award and Lecture winner

Thank you to everyone for submitting nominations (and to our Nominations and Canvassing Committees for their work). If your nominee wasn't successful this year, please consider nominating them again for the next award cycle.

On that note, next year Planetary Sciences will have a more standardized procedure for soliciting and evaluating nominations for all of our Section awards.

In the meantime, please join me in congratulating again our new Planetary Sciences Fellows and Award winners!

And as always, 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](#).

Paul

Paul Byrne, President

Wendy Calvin, President-Elect

Sarah Hörst, Secretary

Emma Dahl, Early Career representative

An Li, Student representative

Michael Mischna, Past President

(1) MS/PhD positions for Fall 2024 in Planetary Science, Exoplanets and Astrobiology

I am community sourcing a list of people who are actively in search of MS/PhD students in planetary science/astrobiology/exoplanets for Fall 2024. If you are such a person, please fill out the following [Google form](#).

Prospective graduate students, please [find the resulting list here](#).

Questions: Please email [Sarah Hörst](#).

(2) Planetary Exploration Newsletter Invitation

Dear Colleagues,

You are invited to subscribe to and participate in the Planetary Exploration Newsletter (PEN), now in its seventeenth year. PEN is a free weekly electronic newsletter, provided as a service by the Planetary Science Institute, for planetary scientists around the world to communicate with each other. The editors are volunteers.

PEN contains meeting announcements, job announcements, and your submissions of news regarding or impacting solar system exploration, upcoming mission events, awards, policy issues, as well as editorials, commentary and memorials and planetary-related commercial announcements. PEN also includes announcements of PDS data releases, ROSES programs and special messages to the planetary community from NASA leadership.

The [PEN Meeting Calendar](#) strives to be the most exhaustive listing of planetary-related meetings, conferences and workshops around the world. Send the title, dates, location and URL to pen_editor@psi.edu.

Go to <http://planetarynews.org> to subscribe to future mailings, read current and past newsletters and see guidelines for submitting content. There is no charge.

PEN was interrupted by a massive server failure of uncertain origin. Unfortunately, we lost about 25% of our subscriber list. We are now back to full operation, so if you have not received a newsletter for the last month, please go to <http://planetarynews.org> and re-subscribe.

Thank you!

Your PEN Editors,

Mark Sykes, Alex Morgan, Matt Perry (Planetary Science Institute)

(3) Faculty Position at Arizona State University

The School of Earth and Space Exploration (SESE) at Arizona State University (ASU) invites applications for a full-time, tenure-track faculty appointment in Planetary Science. This is an open-rank search for an Assistant Professor, Associate Professor, or Professor in any area of Planetary Science. We seek an innovative scholar who is an emerging or established leader in the future of planetary exploration, and who is dedicated to the ideals of the ASU Charter. We are especially interested in applicants who can complement or extend SESE's existing strengths in Earth and space science research and education. The anticipated start date is August 2024.

For full position details and how to apply, [please go here](#).

Initial deadline for receipt of complete applications is 19 October; Applications will continue to be accepted on a rolling basis for a reserve pool. Applications in the reserve pool may then be reviewed in the order in which they were received until the position is closed.

(4) The Fourth Planetary Science Informatics and Data Analytics Conference

The fourth Planetary Science Informatics and Data Analytics (PSIDA) conference will be held 16-18 July 2024, in St. Louis, MO. [Information and interest form are available here](#). The PSIDA conference provides a forum to discuss approaches, challenges and applications of informatics and data analytics technologies and capabilities in planetary science. Topics include data architectures, management and data technologies; scalable data processing; data-driven discovery and analytics; visualization; science applications and open science; and planetary data archiving.

For more information, contact [Tom Stein](#).

(5) NASA Planetary Data Training Workshop Course Materials Available

NASA Planetary Data Training Workshops, focused on training to use JMARS, ArcGIS Pro, USGS ISIS3, the NASA Planetary Data System and Planetary Data Management, and Agisoft Structure-from-Motion stereo photogrammetry software, were held at Arizona State University in May and August 2023. [The course materials and exercises for the August workshop are freely available here.](#)

Additional Workshops will be held at GSA-Pittsburg in October, Cornell University in February 2024, LPSC in March 2024 and ASU in May and August of 2024. Stereo Photogrammetry Workshops focused on training for SOCET SET and Ames Stereo Pipeline will be held at the University of Arizona in September 2023 and April 2024. We are exploring doing more remote workshops in 2024. Please contact [Dr. David Williams](#) for more information.

(6) Journal of Geophysical Research: Planets, Volume 128, Issue 8

<https://agupubs.onlinelibrary.wiley.com/toc/21699100/2023/128/8>

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

1. (OA) Slope Deformation Associated With Recent Tectonism and the Lasting Effect of Local Subsurface Geometry in the Taurus-Littrow Valley, Apollo 17 Landing Site, by G. Magnarini, P. M. Grindrod, T. M. Mitchell, <https://doi.org/10.1029/2022JE007726>
2. (OA) Can Archean Impact Structures Be Discovered? A Case Study From Earth's Largest, Most Deeply Eroded Impact Structure, by M. S. Huber, E. Kovaleva, A. S. P. Rae, N. Tisato, S. P. S. Gulick, <https://doi.org/10.1029/2022JE007721>
3. (OA) Surprising Decrease in the Martian He Bulge During PEDE-2018 and Changes in Upper Atmospheric Circulation, by Meredith K. Elrod, Stephen Bougher, Kali Roeten, Kenneth Arnold, <https://doi.org/10.1029/2022JE007727>
4. (OA) Understanding VNIR Plagioclase Signatures on Mars Through Petrographic, Geochemical, and Spectral Characterization of Terrestrial Feldspar-Bearing Igneous Rocks, by M. Barthez, J. Flahaut, M. Guitreau, G. Ito, R. Pik, <https://doi.org/10.1029/2022JE007680>
5. (OA) Nocturnal Turbulence at Jezero Crater as Determined From MEDA Measurements and Modeling, by Jorge Pla-García, A. Manguira, S. Rafkin, C. Newman, T. Bertrand, G. Martínez, R. Hueso, A. Sánchez-Lavega, T. del Río Gaztelurrutia, A. Stott, N. Murdoch, M. de la Torre Juárez, M. Lemmon, B. Chide, D. Viúdez-Moreiras, H. Savijarvi, M. Richardson, M. Marín, E. Sebastian, A. Lepinette-Malvitte, L. Mora, J. A. Rodríguez-Manfredi, <https://doi.org/10.1029/2022JE007607>
6. (OA) An Energetic Eruption With Associated SO₂ 1.707 Micron Emissions at Io's Kanehekili Fluctus and a Brightening Event at Loki Patera Observed by JWST, by Imke de Pater, Emmanuel Lellouch, Darrell F. Strobel, Katherine de Kleer, Thierry Fouchet, Michael H. Wong, Bryan J. Holler, John Stansberry, Patrick M. Fry, Michael E. Brown, Dominique Bockelée-Morvan, Samantha K. Trumbo, L. N. Fletcher, Matthew M. Hedman, Edward M. Molter, Mark Showalter, Matthew S. Tiscareno, Stéphanie Cazaux, Ricardo Hueso, Statia Luszcz-Cook,

Henrik Melin, Chris Moeckel, Alessandro Mura, Glenn Orton, Lorenz Roth, Joachim Saur, Federico Tosi, <https://doi.org/10.1029/2023JE007872>

7. (OA) Early Formation of a Water Ocean as a Function of Initial CO₂ and H₂O Contents in a Solidifying Rocky Planet, by H. Massol, A. Davaille, P. Sarda, <https://doi.org/10.1029/2023JE007848>
8. (OA) Near Infrared Spectral Radiance at Multiple Wavelengths From Io's Volcanoes 1: The Low Spatial Resolution Night-Time Galileo NIMS Data Set, by Ashley Gerard Davies, Glenn J. Veeder, <https://doi.org/10.1029/2023JE007839>
9. (OA) LRO-LAMP Lunar South Pole Cold Traps: Assessment of H₂O and Potential CO₂ and NH₃ Reserves, by L. O. Magaña, K. D. Retherford, B. D. Byron, A. R. Hendrix, C. Grava, K. E. Mandt, U. Raut, E. Czajka, P. O. Hayne, D. M. Hurley, G. R. Gladstone, M. J. Poston, T. K. Greathouse, W. Pryor, J. T. Cahill, A. Stickle, <https://doi.org/10.1029/2023JE007863>
10. (OA) Mineralogy, Morphology, and Emplacement History of the Maaz Formation on the Jezero Crater Floor From Orbital and Rover Observations, by Briony Horgan, Arya Udry, Melissa Rice, Sanna Alwmark, Hans E. F. Amundsen, James F. Bell III, Larry Crumpler, Brad Garczynski, Jeff Johnson, Kjartan Kinch, Lucia Mandon, Marco Merusi, Chase Million, Jorge I. Núñez, Patrick Russell, Justin I. Simon, Michael St. Clair, Kathryn M. Stack, Alicia Vaughan, Brittan Wogsland, Andrew Annex, Andreas Bechtold, Tor Berger, Olivier Beyssac, Adrian Brown, Ed Cloutis, Barbara A. Cohen, Sarah Fagents, Linda Kah, Ken Farley, David Flannery, Sanjeev Gupta, Svein-Erik Hamran, Yang Liu, Gerhard Paar, Cathy Quantin-Nataf, Nicolas Randazzo, Eleni Ravanis, Steven Sholes, David Shuster, Vivian Sun, Christian Tate, Nick Tosca, Meenakshi Wadhwa, Roger C. Wiens, <https://doi.org/10.1029/2022JE007612>
11. Nonthermal Hydrogen Loss at Mars: Contributions of Photochemical Mechanisms to Escape and Identification of Key Processes, by Bethan S. Gregory, Michael S. Chaffin, Rodney D. Elliott, Justin Deighan, Hannes Gröller, Eryn Cangi, <https://doi.org/10.1029/2023JE007802>
12. Differences in Scattering Properties of the Shallow Crusts of Earth, Mars, and the Moon Revealed by P-Wave Receiver Functions, by Jing Shi, Tao Wang, Han Chen, Minghan Yang, Ling Chen, Hejiu Hui, Zongbo Xu, Philippe Lognonné, Taichi Kawamura, <https://doi.org/10.1029/2022JE007676>
13. (OA) Using Lunar Granulites to Constrain Re-Equilibration Timescales of Contact Thermal Metamorphism on the Moon, by J. F. Pernet-Fisher, K. H. Joy, M. E. Hartley, <https://doi.org/10.1029/2022JE007570>
14. Layered Structures in the Upper Several Hundred Meters of the Moon Along the Chang'E-4 Rover's First 1,000-m Traverse, by Jianqing Feng, Matthew A. Siegler, Yan Su, Chunyu Ding, Iraklis Giannakis, <https://doi.org/10.1029/2022JE007714>
15. Evidence of Non-Thermal Hydrogen in the Exosphere of Mars Resulting in Enhanced Water Loss, by D. Bhattacharyya, J. T. Clarke, M. Mayyasi, V. Shematovich, D. Bisikalo, J. Y. Chaufray, E. Thiemann, J. Halekas, C. Schmidt, J. L. Bertaux, M. S. Chaffin, N. M. Schneider, <https://doi.org/10.1029/2023JE007801>
16. (OA) Evolution of Thrace Macula on Europa: Strike-Slip Tectonic Control and Identification of the Youngest Terrains, by Pietro Matteoni, Alicia Neesemann, Ralf Jaumann, Jon Hillier, Frank Postberg, <https://doi.org/10.1029/2023JE007905>

17. (OA) Mapping the Seismicity of Mars With InSight, by S. Ceylan, D. Giardini, J. F. Clinton, D. Kim, A. Khan, S. C. Stähler, G. Zenhäusern, P. Lognonné, W. B. Banerdt, <https://doi.org/10.1029/2023JE007826>
18. (OA) Description of Martian Convective Vortices Observed by InSight and Implications for Vertical Vortex Structure and Subsurface Physical Properties, by Keisuke Onodera, Kiwamu Nishida, Taichi Kawamura, Naomi Murdoch, Mélanie Drilleau, Ryoji Otsuka, Ralph Lorenz, Anna Horleston, Rudolf Widmer-Schmidrig, Martin Schimmel, Sebastien Rodriguez, Sebastián Carrasco, Satoshi Tanaka, Clement Perrin, Philippe Lognonné, Aymeric Spiga, Don Banfield, Mark Panning, William Bruce Banerdt, <https://doi.org/10.1029/2023JE007896>
19. (OA) Evidence for Extrusive Mg-Suite Magmatism on the Moon? Fine-Grained Magnesian Clasts in an Apollo 16 Impact Melt Breccia, by Amanda C. Stadermann, Jessica J. Barnes, Timmons M. Erickson, Tabb C. Prissel, Zachary D. Michels, <https://doi.org/10.1029/2022JE007728>
20. (OA) Planetary Impacts: Scaling of Crater Depth From Subsonic to Supersonic Conditions, by L. Allibert, M. Landeau, R. Röhlen, A. Maller, M. Nakajima, K. Wünnemann, <https://doi.org/10.1029/2023JE007823>
21. Modeling the Evolution of Lunar Regolith: 1. Formation Mechanism Through Individual Simple Impact Craters, by Mingwei Zhang, Wenzhe Fa, Vincent R. Eke, <https://doi.org/10.1029/2023JE007850>
22. (OA) Magmatic Origins of Extensional Structures in Tempe Terra, Mars, by C. J. Orlov, E. K. Bramham, P. K. Byrne, S. Piazzolo, M. Thomas, <https://doi.org/10.1029/2023JE007949>
23. Mars Global Surveyor's Mars Orbiter Camera (MOC) Wide-Angle Images (1999–2006): 2. Data Investigation Into North Polar Hood Formation, Broad Brightness Changes in Acidalia, and Seasonal Frost in Hellas, by Stuart J. Robbins, <https://doi.org/10.1029/2022JE007621>

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1. Extraction and Analysis of Three-Dimensional Morphological Features of Centimeter-Scale Rocks in Zhurong Landing Region, by Y. Li, Z. Xiao, C. Ma, L. Zeng, W. Zhang, M. Peng, A. Li, <https://doi.org/10.1029/2022JE007656>
2. (OA) Is There a Semi-Molten Layer at the Base of the Lunar Mantle?, by Michaela Walterová, Marie Běhounková, Michael Efroimsky, <https://doi.org/10.1029/2022JE007652>
3. Viking Marsquakes 1976—Seismic Archaeology, by Andrew R. Lazarewicz, <https://doi.org/10.1029/2022JE007660>
4. (OA) Ménec Fossae on Europa: A Strike-Slip Tectonics Origin Above a Possible Shallow Water Reservoir, by Pietro Matteoni, Alicia Neesemann, Ralf Jaumann, Jon Hillier, Frank Postberg, <https://doi.org/10.1029/2022JE007623>

5. Observed Dawn and Twilight Pressure Sudden Peaks in the Global Martian Surface and Possible Relationships With Atmospheric Tides, by Chengyun Yang, Cong Sun, Zhaopeng Wu, Tao Li, <https://doi.org/10.1029/2022JE007650>
6. Petrological Traverse of the Olivine Cumulate Séítah Formation at Jezero Crater, Mars: A Perspective From SuperCam Onboard Perseverance, by O. Beyssac, O. Forni, A. Cousin, A. Udry, L. C. Kah, L. Mandon, O. E. Clavé, Y. Liu, F. Poulet, C. Quantin Nataf, O. Gasnault, J. R. Johnson, K. Benzerara, P. Beck, E. Dehouck, N. Mangold, C. Alvarez Llamas, R. B. Anderson, G. Arana, R. Barnes, S. Bernard, T. Bosak, A. J. Brown, K. Castro, B. Chide, S. M. Clegg, E. Cloutis, T. Fouchet, T. Gabriel, S. Gupta, G. Lacombe, J. Lasue, S. Le Mouélic, G. Lopez-Reyes, J. M. Madariaga, F. M. McCubbin, S. M. McLennan, J. A. Manrique, P. Y. Meslin, F. Montmessin, J. Núñez, A. M. Ollila, A. Ostwald, P. Pilleri, P. Pinet, C. Royer, S. K. Sharma, S. Schröder, J. I. Simon, M. J. Toplis, M. Veneranda, P. A. Willis, S. Maurice, R. C. Wiens, The SuperCam Team, <https://doi.org/10.1029/2022JE007638>
7. (OA) Adaptation of a Thermorheological Lava Flow Model for Venus Conditions, by Ian. T. W. Flynn, Magdalena. O. Chevrel, Michael. S. Ramsey, <https://doi.org/10.1029/2022JE007710>
8. Chromium on Mercury: New Results From the MESSENGER X-Ray Spectrometer and Implications for the Innermost Planet's Geochemical Evolution, by Larry R. Nittler, Asmar Boujibar, Ellen Crapster-Pregont, Elizabeth A. Frank, Timothy J. McCoy, Francis M. McCubbin, Richard D. Starr, Audrey Vorburger, Shoshana Z. Weider, <https://doi.org/10.1029/2022JE007691>
9. Poroviscoelastic Gravitational Dynamics, by S. Kamata, <https://doi.org/10.1029/2022JE007700>
10. (OA) Diurnal Cycle of Rapid Air Temperature Fluctuations at Jezero Crater: Probability Distributions, Exponential Tails, Scaling, and Intermittency, by M. de la Torre Juárez, A. Chavez, L. K. Tamppari, A. Munguira, G. Martínez, R. Hueso, B. Chide, N. Murdoch, A. E. Stott, S. Navarro, A. Sánchez-Lavega, G. S. Orton, D. Viúdez-Moreiras, D. J. Banfield, J. A. Rodríguez-Manfredi, <https://doi.org/10.1029/2022JE007458>
11. Reflectance of Jezero Crater Floor: 2. Mineralogical Interpretation, by L. Mandon, C. Quantin-Nataf, C. Royer, P. Beck, T. Fouchet, J. R. Johnson, E. Dehouck, S. Le Mouélic, F. Poulet, F. Montmessin, C. Pilorget, O. Gasnault, O. Forni, L. E. Mayhew, O. Beyssac, T. Bertrand, E. Clavé, P. Pinet, A. J. Brown, C. Legett, J. Tarnas, E. A. Cloutis, G. Poggiali, T. Fornaro, S. Maurice, R. C. Wiens, The SuperCam Team, <https://doi.org/10.1029/2022JE007450>
12. (OA) Prolonged Record of Hydroclimatic Changes at Antoniadi Crater, Mars, by A. S. Zaki, K. S. Edgett, M. Pajola, E. Kite, J. M. Davis, N. Mangold, A. S. Madof, A. Lucchetti, P. Grindrod, C. M. Hughes, K. Sangwan, N. Thomas, M. Schuster, S. Gupta, G. Cremonese, S. Castellort, <https://doi.org/10.1029/2022JE007606>
13. (OA) Ice Content of Mantling Materials in Deuteronilus Mensae, Mars, by David M. H. Baker, Lynn M. Carter, <https://doi.org/10.1029/2022JE007549>
14. Water Supersaturation for Early Mars, by A. Delavois, F. Forget, M. Turbet, E. Millour, R. Vandemeulebrouck, L. Lange, A. Bierjon, <https://doi.org/10.1029/2022JE007424>
15. (OA) Diverse Lava Flow Morphologies in the Stratigraphy of the Jezero Crater Floor, by S. Alwmark, B. Horgan, A. Udry, A. Bechtold, S. Fagents, E. Ravanis, L. Crumpler, N. Schmitz, E. Cloutis, A. Brown, D. Flannery, O. Gasnault, J. Grotzinger, S. Gupta, L. Kah, P. Kelemen, K. Kinch, J. Núñez, <https://doi.org/10.1029/2022JE007446>

16. A Mars 2020 Perseverance SuperCam Perspective on the Igneous Nature of the Máaz Formation at Jezero Crater and Link With Séítah, Mars, by A. Udry, A. Ostwald, V. Sautter, A. Cousin, O. Beyssac, O. Forni, G. Dromart, K. Benzerara, M. Nachon, B. Horgan, L. Mandon, E. Clavé, E. Dehouck, E. Gibbons, S. Alwmark, E. Ravens, R. C. Wiens, C. Legett, R. Anderson, P. Pilleri, N. Mangold, M. Schmidt, Y. Liu, J. I. Núñez, K. Castro, J. M. Madariaga, T. Kizovski, P. Beck, S. Bernard, T. Bosak, A. Brown, S. Clegg, E. Cloutis, B. Cohen, S. Connell, L. Crumpler, V. Debaille, D. Flannery, T. Fouchet, T. S. J. Gabriel, O. Gasnault, C. D. K. Herd, J. Johnson, J. A. Manrique, S. Maurice, F. M. McCubbin, S. McLennan, A. Ollila, P. Pinet, C. Quantin-Nataf, C. Royer, S. Sharma, J. I. Simon, A. Steele, N. Tosca, A. Treiman, the SuperCam team, <https://doi.org/10.1029/2022JE007440>
17. (OA) Thermal Environments and Volatile Stability Within Lunar Pits and Caves, by A. X. Wilcoski, P. O. Hayne, C. M. Elder, <https://doi.org/10.1029/2023JE007758>
18. On the Potential for Cumulate Mantle Overturn in Mercury, by Megan D. Mouser, Nicholas Dygert, <https://doi.org/10.1029/2023JE007739>
19. The Rock Abundance of Crater Populations as a Probe of Mare Protolith Properties, by Marley A. Chertok, Paul G. Lucey, Emily S. Costello, Schelin M. Ireland, <https://doi.org/10.1029/2023JE007767>
20. (OA) The Mars Atmosphere Water Ice Aerosol Climatology by MRO/CRISM: 5 Mars Years of Observations, by Alain S. J. Khayat, Michael D. Smith, Michael J. Wolff, Scott D. Guzewich, Emily L. Mason, Samuel Atwood, <https://doi.org/10.1029/2023JE007761>
21. Quantifying Morphological Changes and Sediment Transport Pathways on Comet 67P/Churyumov-Gerasimenko, by M. N. Barrington, S. P. D. Birch, A. Jindal, A. G. Hayes, P. Corlies, J.-B. Vincent, <https://doi.org/10.1029/2022JE007723>
22. Fully Coupled Photochemistry of the Deuterated Ionosphere of Mars and Its Effects on Escape of H and D, by Eryn Cangi, Michael Chaffin, Roger Yelle, Bethan Gregory, Justin Deighan, <https://doi.org/10.1029/2022JE007713>
23. (OA) Bright Na-Carbonate Exposures Reveal Recent, Widespread Mobilization of Material in Ceres' Shallow Subsurface, by N. Stein, B. L. Ehlmann, D. J. Stevenson, J. Castillo-Rogez, C. A. Raymond, <https://doi.org/10.1029/2023JE007868>
24. On the Emplacement of the Impact Melt at the Dhala Impact Structure, India, by Gaurav Joshi, Pradyut Phukon, Amar Agarwal, Arun Kumar Ojha, <https://doi.org/10.1029/2023JE007840>
25. (OA) The Proximal Ejecta Around the Marine-Target Lockne Impact Structure, Sweden, by Erik Sturkell, Jens Ormö, Eric Austin Hegardt, Gabrielle Stockmann, Erik Meland, Torbjörn Wikström, <https://doi.org/10.1029/2023JE007777>
26. (OA) A Surface to Exosphere Non-Orographic Gravity Wave Parameterization for the Mars Planetary Climate Model, by Jiandong Liu, Ehouarn Millour, François Forget, Gabriella Gilli, François Lott, Deborah Bardet, Francisco González Galindo, Antoine Bierjon, Joseph Naar, Antoine Martinez, Sébastien Lebonnois, Siteng Fan, Thomas Pierron, Romain Vandemeulebrouck, <https://doi.org/10.1029/2023JE007769>
27. (OA) Multidisciplinary Analysis of the Nippur Sulcus Region on Ganymede, by Federico Tosi, Valentina Galluzzi, Alice Lucchetti, Roberto Orosei, Gianrico Filacchione, Francesca Zambon, Gabriele Cremonese, Pasquale Palumbo, Giuseppe Piccioni, <https://doi.org/10.1029/2023JE007836>

28. (OA) Twilight Mesospheric Clouds in Jezero as Observed by MEDA Radiation and Dust Sensor (RDS), by D. Toledo, L. Gómez, V. Apéstigue, I. Arruego, M. Smith, A. Munguira, G. Martínez, P. Patel, A. Sanchez-Lavega, M. Lemmon, L. Tamppari, D. Viudez-Moreiras, R. Hueso, A. Vicente-Retortillo, C. Newman, R. Lorenz, M. Yela, M. de la Torre Juarez, J. A. Rodriguez-Manfredi, <https://doi.org/10.1029/2023JE007785>

(8) AGU Celebrates a Year of Open Science

With the theme Wide. Open. Science., AGU23 will convene more than 25,000 attendees from over 100 countries in San Francisco and online everywhere on 11-15 December 2023. For more than 100 years, AGU has been committed to opening science, from fostering new pathways for discovery to championing DEI within the scientific community. [Learn more about AGU's efforts to advance open science](#) and follow #AGUOpenScience on [Twitter](#), [Instagram](#) and [Threads](#).