

# PDS ATMOSPHERES NODE NEWSLETTER



Volume 1

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Welcome to the final issue in 2020 of the NASA Planetary Data System (PDS) Planetary Atmospheres Node (ATM) Archiving Newsletter. These newsletters are intended to serve as your definitive source for all archiving news related to planetary atmospheres, and to keep you informed of PDS ATM activities. We want to strike the right balance between providing open and transparent communications to our user community without overdoing it. With that in mind, in 2021 we will be issuing these newsletters somewhat less frequently (likely every trimester or quarterly, not bimonthly), with each issue containing a focus area along with our regular updates. *If there are topics that you would like to see addressed in future newsletters, please let us know!* As always, for data access, usability, and proposal assistance, please visit our website: <https://pds-atmospheres.nmsu.edu/>. We wish you a healthy and safe holiday season and we look forward to working with you in 2021!

## POLICY UPDATES/REMINDERS

Note for new data providers/proposers: Requests for letters of support should be submitted to the appropriate nodes no later than a week before the submission deadline as required by PDS policy. (Effective October 2019). See the adopted policy text for more information:

[https://pds.nasa.gov/datastandards/documents/policy/FINAL\\_PDS\\_Policy\\_Letters\\_of\\_Support\\_2019\\_10\\_08.pdf](https://pds.nasa.gov/datastandards/documents/policy/FINAL_PDS_Policy_Letters_of_Support_2019_10_08.pdf)

## NEW MISSION RELEASES

*ATM is involved in archiving data from five active missions. This involves working closely with the instrument teams and mission archiving teams to ensure that the data are delivered, validated, and released to the public on a predetermined schedule available from: <https://pds.nasa.gov/datasearch/subscription-service/data-release-calendar.shtml>. Here, we provide a status report of recent data releases from these missions at ATM:*

### MARS



*InSight* 1<sup>st</sup> through 6<sup>th</sup> data release is available and certified including atmospheric data from the Temperature and Wind Sensors (TWINS) and Pressure Sensors (PS). Release 7 will be January 4. [https://pds-atmospheres.nmsu.edu/data\\_and\\_services/atmospheres\\_data/INSIGHT/insight.html](https://pds-atmospheres.nmsu.edu/data_and_services/atmospheres_data/INSIGHT/insight.html)

Entry, Descent, and Landing (EDL) data is also now available.

[https://pds-atmospheres.nmsu.edu/data\\_and\\_services/atmospheres\\_data/INSIGHT/insight\\_edl.html](https://pds-atmospheres.nmsu.edu/data_and_services/atmospheres_data/INSIGHT/insight_edl.html)



**Mars Atmospheres and Volatile Evolution (MAVEN)** 1<sup>st</sup> through 23<sup>rd</sup> data release is available for Accelerometer (ACC), Neutral Gas and Ion Mass Spectrometer (NGIMS), and Imaging Ultraviolet Spectrograph (IUVS). Release 24 will be February 15.

[https://pds-atmospheres.nmsu.edu/data\\_and\\_services/atmospheres\\_data/MAVEN/maven\\_main.html](https://pds-atmospheres.nmsu.edu/data_and_services/atmospheres_data/MAVEN/maven_main.html)



**Mars Reconnaissance Orbiter (MRO)** 1<sup>st</sup> through 55<sup>th</sup> data release is available including data from the Mars Climate Sounder (MCS). Release 56 will be March 1.

[https://pds-atmospheres.nmsu.edu/data\\_and\\_services/atmospheres\\_data/MARS/mars\\_reconnaissance\\_orbiter.html](https://pds-atmospheres.nmsu.edu/data_and_services/atmospheres_data/MARS/mars_reconnaissance_orbiter.html)



**Mars Science Laboratory (MSL) Curiosity** 1<sup>st</sup> through 25<sup>th</sup> data release is now available for the Rover Environmental Monitoring Station (REMS). Release 26 will be March 16.

[https://pds-atmospheres.nmsu.edu/data\\_and\\_services/atmospheres\\_data/MARS/curiosity/curiosity.html](https://pds-atmospheres.nmsu.edu/data_and_services/atmospheres_data/MARS/curiosity/curiosity.html)

## JUPITER



**Juno** Both PDS4 and PDS3 data are available for Microwave Radiometer (MWR), Ultraviolet Imager/Spectrograph (UVS), Jovian Infrared Auroral Mapper (JIRAM), and Gravity Science Experiment (GRAV), through perijove 26 data. Next release will be February 19.

[https://pds-atmospheres.nmsu.edu/data\\_and\\_services/atmospheres\\_data/JUNO/juno.html](https://pds-atmospheres.nmsu.edu/data_and_services/atmospheres_data/JUNO/juno.html)

## NEW DERIVED DATA RELEASES (by program)

*In addition to archiving mission data, ATM is also involved in hosting and archiving derived data, which are typically provided by individual data providers. These data are a valuable complement to the ATM mission data because they represent the results of investigations involving the analysis of mission data or the acquisition of field, laboratory, or ground-based data that support NASA's planetary missions. Below is a listing of derived data (by program) that have recently completed the archiving process and are now available online at ATM (since last issue – for past issues see: [https://pds-atmospheres.nmsu.edu/data\\_and\\_services/atmospheres\\_data/newsletter/newsletter.html](https://pds-atmospheres.nmsu.edu/data_and_services/atmospheres_data/newsletter/newsletter.html)).*

### PLANETARY DATA ARCHIVING AND TOOLS (PDART)

**Recalibrated Mars Global Surveyor (MGS) Thermal Emission Spectrometer (TES) (Pankine) – Completed Online** – PDS4 Bundle containing recalibrated MGS TES data pertaining to atmospheric observations. More derived products have been submitted and should be online soon.

[https://pds-atmospheres.nmsu.edu/data\\_and\\_services/atmospheres\\_data/MARS/pankine\\_data.html](https://pds-atmospheres.nmsu.edu/data_and_services/atmospheres_data/MARS/pankine_data.html)

## PDS4 TOOL DEVELOPMENT NEWS



The Atmospheres Node is in the progress of developing a PDS4 tool for helping users plan and design labels for simple bundles of data that they wish to archive in the PDS. The Educational Labeling System at Atmospheres (ELSA) is well on its way to being a functional guide for putting archive bundles together. ELSA aims to allow easy access to tailoring PDS4-compliant label templates for your needs. ELSA will allow persistent editing through a free account and step-by-step tutoring for building your bundles. Stay tuned to this section for future updates.

We are closing in on opening ELSA to external beta-testing, hopefully in the Jan-Feb 2021 timeframe. For more information or to volunteer as a beta-tester for the online tool, contact: [elsa@atmos.nmsu.edu](mailto:elsa@atmos.nmsu.edu).

A screenshot of the ELSA web application's login page. The page has a dark header with navigation links: "ELSA", "About", "Review", "Sign Up", "Login", and "Contact". A "PDS" logo is in the top right corner. Below the header, the text "Welcome to ELSA." is displayed. A paragraph of introductory text follows, explaining the tool's purpose. A "SIGN UP HERE" button is positioned above the login form. The form includes fields for "Username:" and "Password:". Below the password field are two buttons: "LOGIN" and "FORGOT PASSWORD?".

## ATM Advisory Group

*The Atmospheres Node has reconstituted its Advisory Group, which is designed to provide input and feedback to us on issues of importance to our user base. We adjusted the AG membership to better reflect our current user community, and we anticipate that the members will serve as a sounding board for new ideas about ways we can better serve the planetary atmospheres community, as well as a conduit for ideas and feedback from our user community. Please join us in thanking the current AG members for their service:*

Natasha Batalha (NASA/ARC)  
Don Banfield (Cornell)  
Ashley Davies (JPL)  
Melinda Kahre (NASA/ARC)  
Ralph Lorenz (JHU/APL)

Kevin McGouldrick (CU/LASP)  
Conor Nixon (NASA/GSFC)  
Paul Withers (Boston University)  
Mike Wong (UC Berkeley)

## Contact Us

We want to hear from you! We value your feedback and are committed to improving the archiving process as well as the usability and discoverability of data at ATM. If you have a derived data set that fits our archiving mission, please contact us to start a dialog. Also please contact us at: [pds-atm@nmsu.edu](mailto:pds-atm@nmsu.edu) if you have any questions or concerns. There is also a feedback widget on our web site that you can use if you are having trouble finding something on our web site.

**HAPPY END OF 2020 - THANKS TO ALL ATM DATA PROVIDERS & USERS!  
LOOKING FORWARD TO WORKING WITH YOU IN 2021!**