

Virginia Tech MIST Data Policy and Disclaimer

We have an open data policy for scientific and educational use. Use of the data for other purposes requires consultation with the Virginia Tech Magnetosphere-Ionosphere Science Team (MIST), please contact a team member for appropriate arrangements. We request acknowledgement of the use of these data in publications or projects.

- The proper citation for Antarctic AAL-PIP data from the 40-degree magnetic meridian chain is: Clauer C. Robert, Hyomin Kim, Kshitija Deshpande, Zhonghua Xu, Daniel Weimer, Stephen Musko, Geoff Crowley, Chad Fish, Randall Nealy, T. E. Humphreys, J. A. Bhatti, and A. J. Ridley, "Autonomous adaptive low-power instrument platform (AAL-PIP) for remote high-latitude geospace data collection", *Geosci. Instrum. Method. Data Syst.*, 3, 211-227, doi:10:5194/gi-3-211-2014, 2014.
- Acknowledgement of the source of these data should be given in publications as: "The Antarctic AAL-PIP data have been provided by Virginia Tech which is supported by the National Science Foundation through the following awards for this purpose: ANT0839858, ATM922979, ANT0838861, PLR-1243398, and PLR-1543364"
- Co-authorship on publications utilizing the AAL-PIP data is not required unless a MIST team member contributes significantly in the analysis and interpretation of the data.

Despite considerable effort in instrument development, deployment, and calibration, the data may still contain errors. The accuracy of the data is not guaranteed. Please contact a MIST team member with any questions about data quality.

Note on PGO measurement and GPS timing: AAL-PIP instruments were designed to use GPS for timing (accuracy +/- 40 ms UTC). In late 2019, the PGO, PG2, PG3, and PG4 systems were affected by a GPS rollover, causing a system malfunction that prevents communication. PGO was visited in early 2020, and a partial fix was implemented by severing the GPS cable to re-establish communication. This has resulted in a new post-processing method for obtaining timestamps that relies on Iridium satellites. Though timing is accurate to less than 1s, users should contact the MIST team before using these data