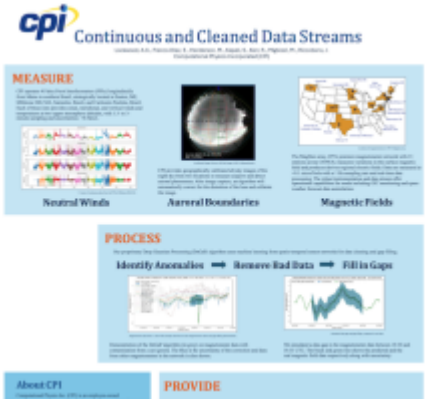
Alexandra
Lockwood
Computational Physics, Inc (CPI)
Efram Franco-Diaz, CPI
Michael Henderson, CPI
Sudha Kapali, CPI
Robert Kerr, CPI
Michael Migliozzi, CPI
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Poster
This poster will discuss two incredibly valuable data streams currently being provided free-of-charge from Computational Physics, Inc. (CPI): magnetometer data from 13 instruments distributed across the continental US and neutral wind and temperature data from 4 Fabry-Perot Interfrometers (FPIs) from Maine to Brazil. Use cases and advances in data processing techniques will be shared for both data sets. The FPI data is a multi-decade record of neutral winds with unmatched precision and fidelity. These data have been used to develop the first-ever 3D climatalogical wind model for the thermosphere and are used by institutes worldwide. Assimilation into space weather forecasting has already demonstrated the importance of the magnetometer data, and CPI has been developing algorithms to clean and fill the data in real-time, for improved operational capacity. CPI welcome conversation regarding future operational opportunities for this critical data.



Poster PDF
Lockwood-Alex-v2.pdf
Poster session day
Wednesday, April 29, 2026
Poster location
31
Meeting homepage
2026 Space Weather Workshop
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