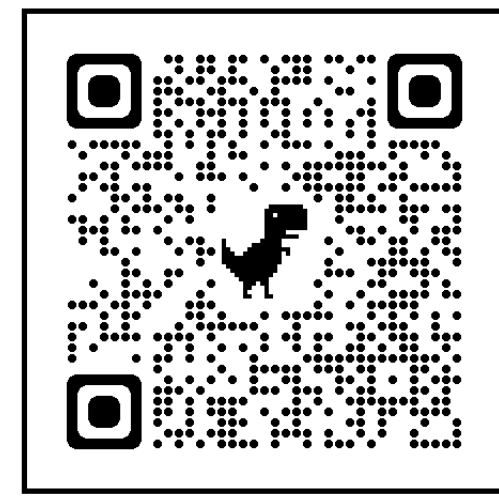




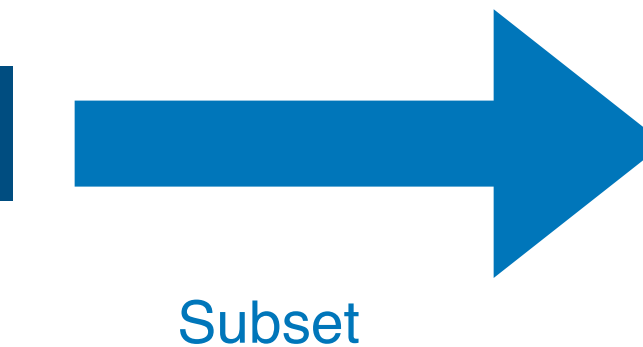
Space Weather Data Mashups: Collections and Correlations with SWx TREC's Space Weather Data Portal Catalog

Jenny Knuth, Greg Lucas, Christopher Pankratz, Thomas Berger, and the LASP Web Team, University of Colorado, Boulder

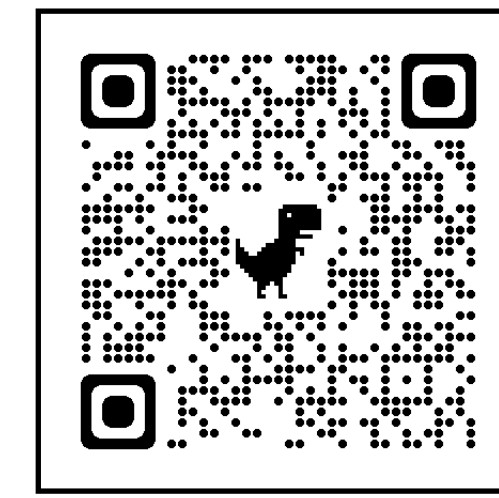


SWx TREC Space Weather Data Portal

<https://lasp.colorado.edu/space-weather-portal>



Subset



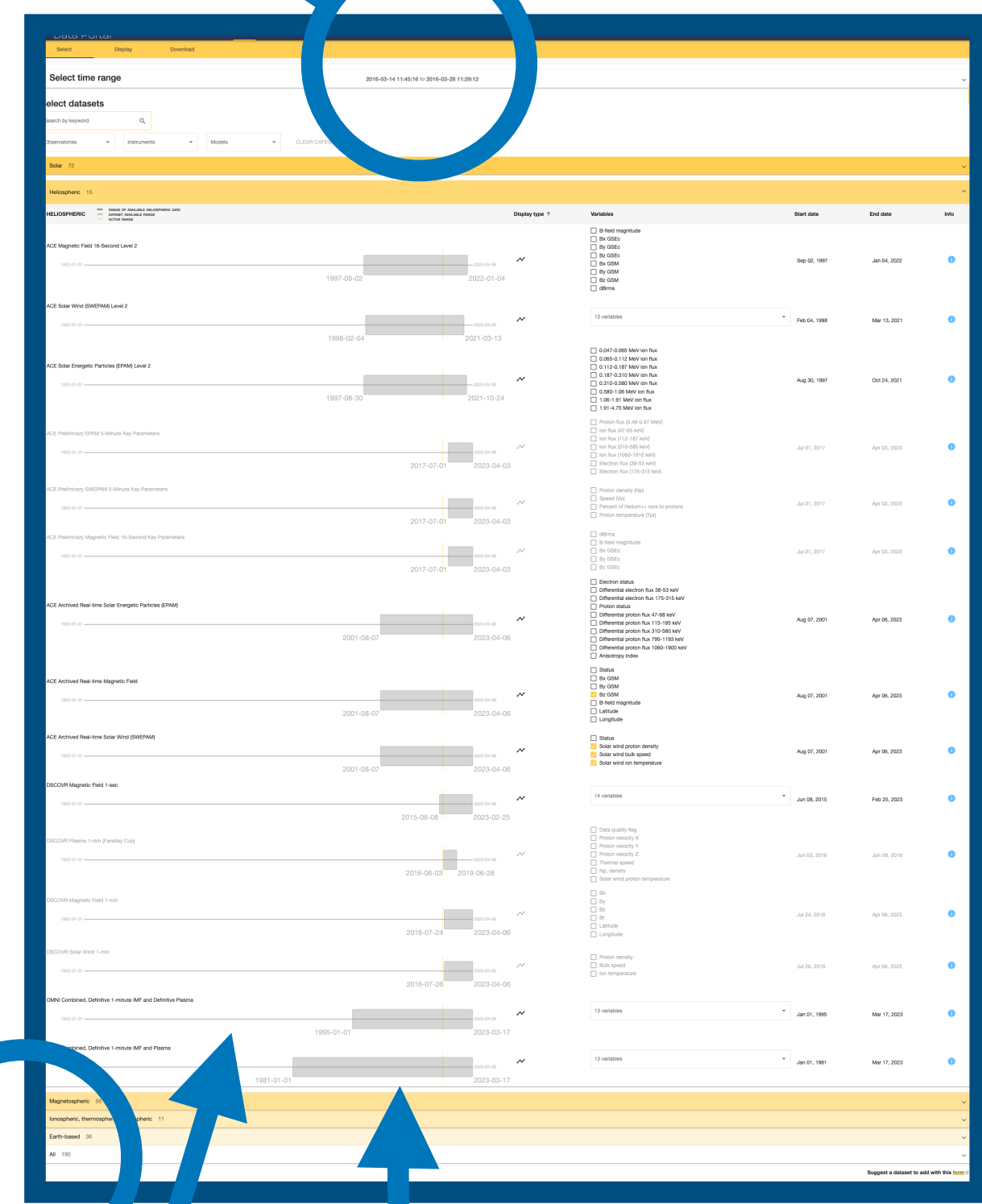
Space Weather Now!

<https://lasp.colorado.edu/space-weather-portal/now>

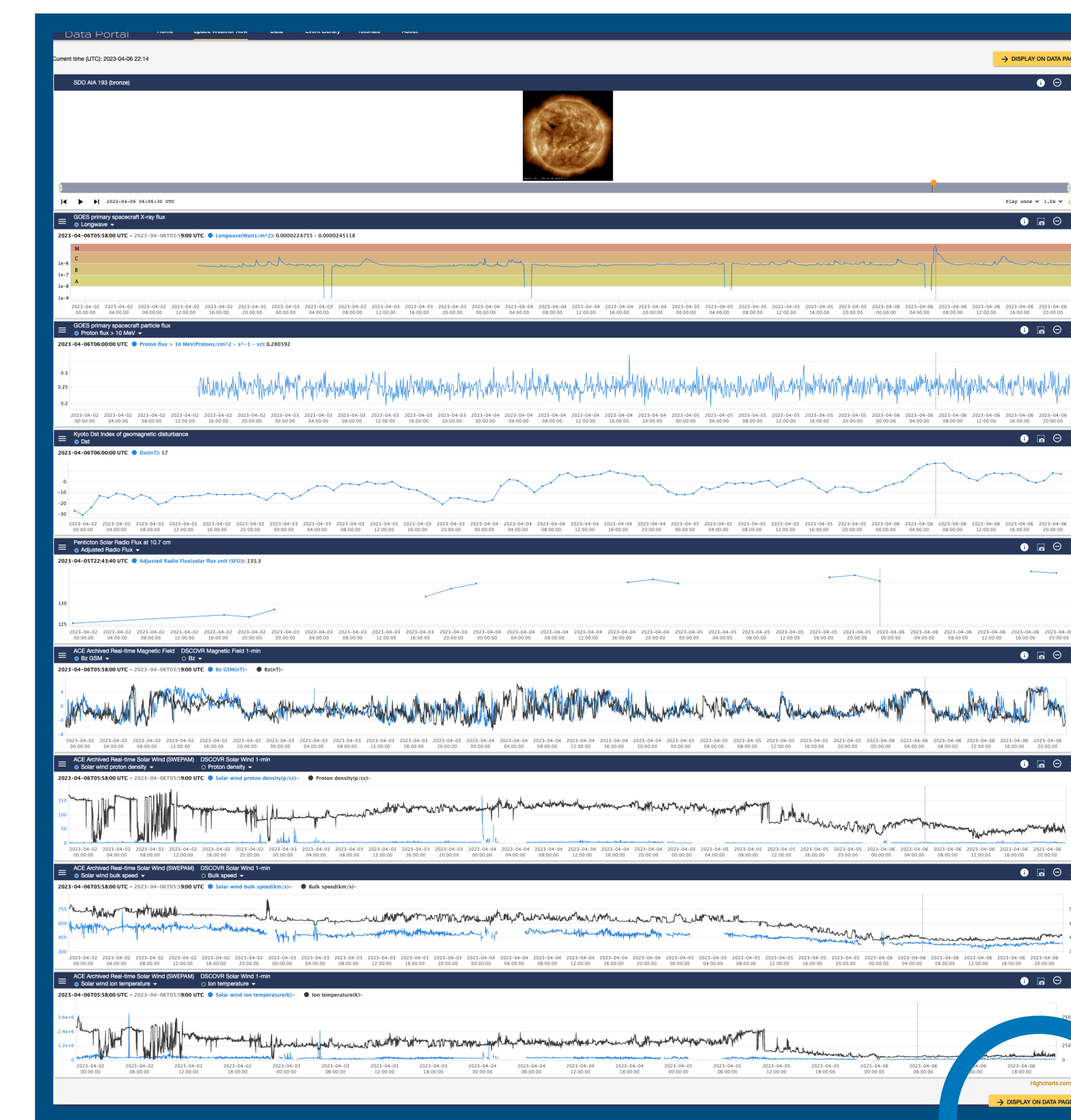
Create selections correlated by time range

- Data is not stored locally, but accessed from its source in real time
- Good for historic research and space weather forensics

- A forecaster's dashboard
- Quick-look collection of real-time datasets from the Space Weather Data Portal catalog



F10.7 solar flux
 ACE Bz
 ACE speed, density, and temperature
 Ap geomagnetic index
 Dst geomagnetic index

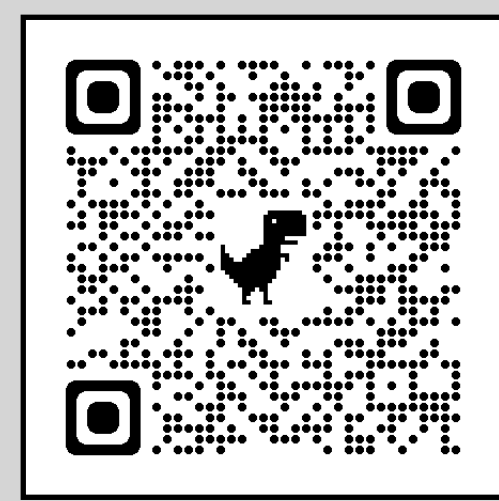


Solar images
 X-ray flux
 Particle flux
 Dst geomagnetic index
 F10.7 solar flux
 ACE and DSCOVR Bz
 ACE and DSCOVR Speed
 ACE and DSCOVR Density
 ACE and DSCOVR Temperature

Data from 1932 to the present

See at a glance what data is available when

Link to full application for further customization and deep-dive comparisons



SWx TREC Model Staging Platform

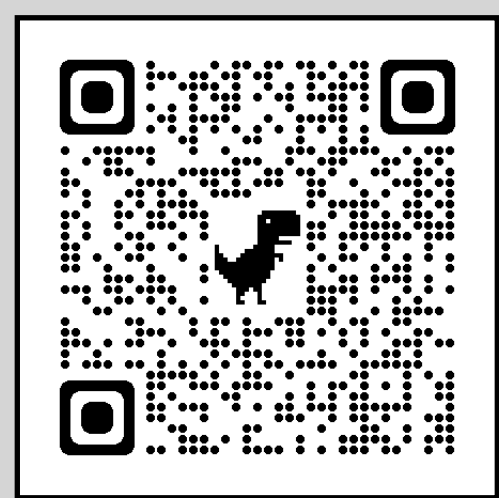
<https://swx-trec.com>

Standard API allows programmatic access to the same datasets for model inputs

Model inputs from Space Weather Data Portal catalog

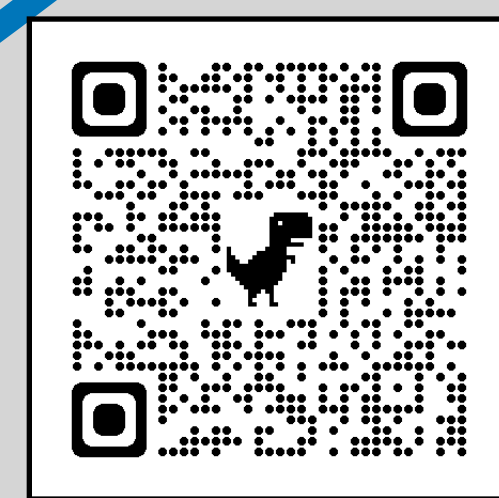
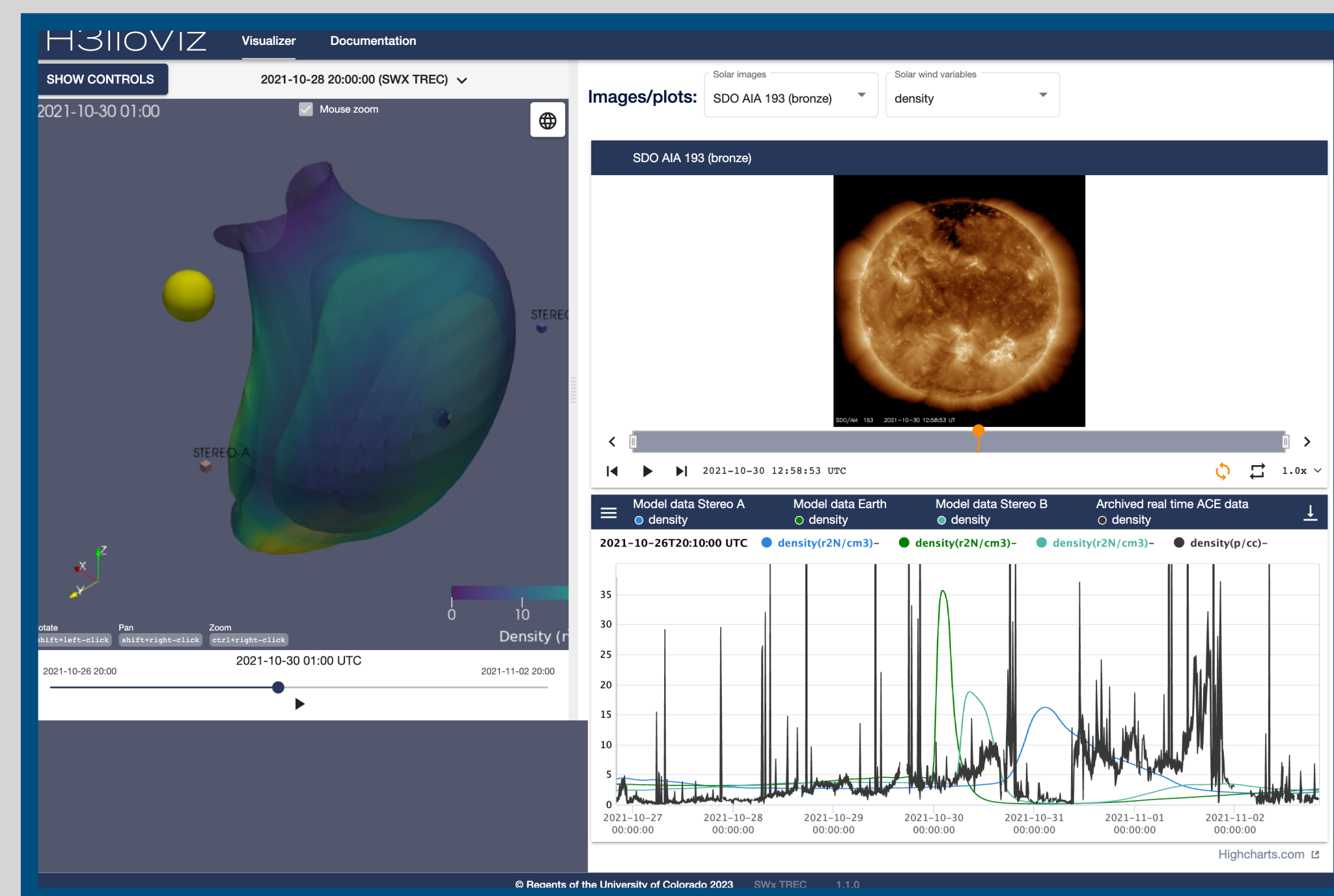
Model inputs from Space Weather Data Portal catalog

Catalog of 190+ space weather datasets



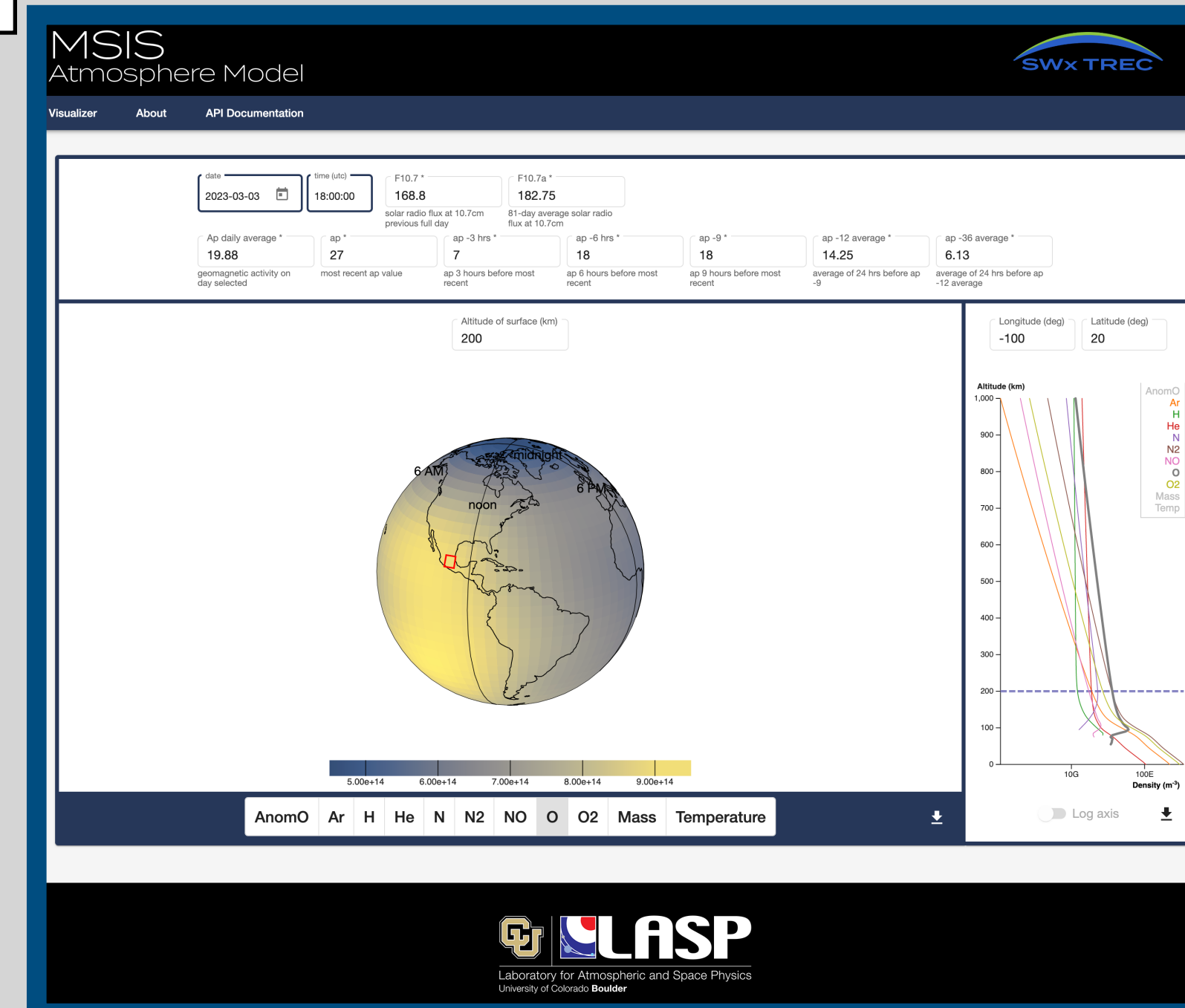
H3IioViz

<https://swx-trec.com/h3Iioviz>

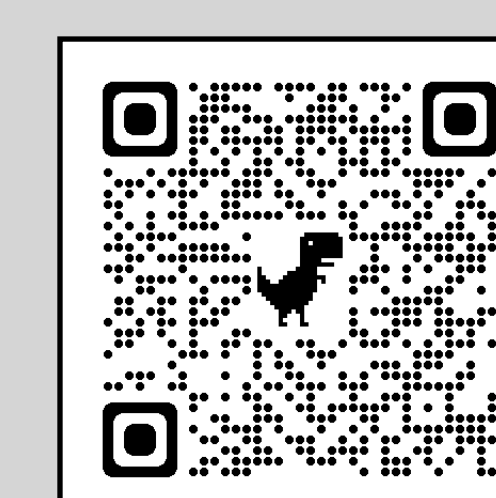


MSIS Visualizer

<https://swx-trec.com/msis>

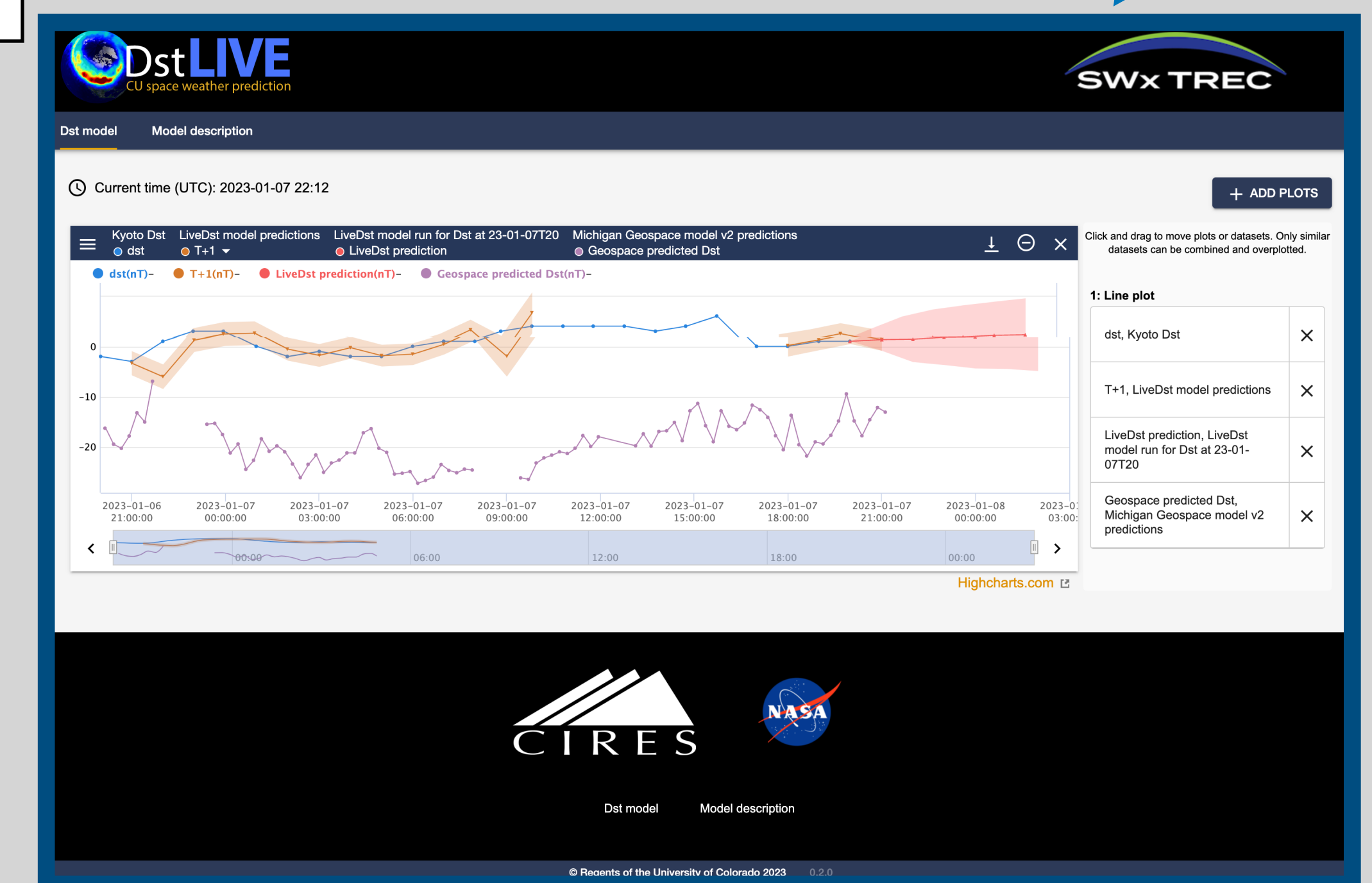


Observations displayed alongside model results



Dst Live

<https://swx-trec.com/dst>



Observations displayed alongside model results