HAPI-- easy access to time series data for multiple missions http://hapi-server.org/

The <u>Heliophysics Data Application Programmer's Interface</u> (HAPI) specification is a time series download and streaming format specification plus tool bundle Useful for SCIENTISTS wanting easy access to multiple data sets, and to DATA PROVIDERS seeking a standard for serving time series data..

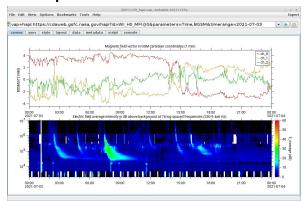
When data are available from a HAPI server, there is no need to download data files and write custom file reader programs.

Using a HAPI client library, data can be loaded into an array using a single command in IDL, MATLAB, and Python. Currently HAPI has time series data from AMDA, CCMC/iSWA, CDAWeb, Das2, FTEC, LISIRD, OMNIWeb & SSCWeb.

- HAPI provides a standard specification that simplifies data access for Heliophysics time series data
- Software for downloading data from HAPI servers in Autoplot, IDL, MATLAB, SPEDAS, and Python
- Provides the simplest API that allows access to time series data in a streaming form
- Allows a user not to need knowledge of file system boundaries, directory layouts, and file formats
- Data are accessible at a minimum in a simple CSV-formatted stream + JSON metadata
- COSPAR-approved: that "HAPI be the common data access API for space science and space weather data."
- All HAPI data accessible via: http://hapi-server.org/servers/

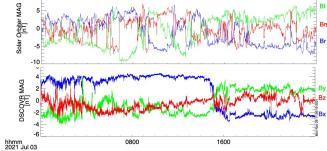
Tools and clients available at http://github.com/hapi-server/, data and documentation at http://github.com/hapi-server/, data and documentation at http://hapi-server.org/servers/, or contact us at hapi-help@groups.com

Autoplot



SPEDAS

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hapi_load_data, server='https://cdaweb.gsfc.nasa.gov/hapi', dataset='SOLO_L2_MAG_RTN-NORMAL-1-MINUTE', trange=trange hapi load_data, server='https://cdaweb.gsfc.nasa.gov/hapi', dataset='DSCOVR_H0_MAG', trange=trange options, 'b_rtn', loabels=['Br', 'Bt', 'Bn'] options, 'b_rtn', volors=[2, 4, 6] options, 'b_rtn', ysubtite='[n1'] options, 'b_rtn', ysubtite='[n1'] options, 'bigse', labels=['Br', 'By', 'Bz'] options, 'bigse', labels=['Br', 'By', 'Bz'] options, 'bigse', ytitle='DSCOVR_MAG' options, 'bigse', ytitle='DSCOVR_MAG
```



HAPI-Py



