

SDDAS – Southwest Research Data Display & Analysis System

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Description

The SDDAS maintains a large optical disk database of data returned by the Dynamics Explorer satellites 1 & 2. It provides interactive tools for displaying this data in various ways and selected subsets may be acquired via anonymous FTP. This data is primarily used by those doing research in space physics, magnetospheric physics, and the dynamics of the upper atmosphere. The measurements are classified as follows: DC magnetic field; AC electric field; particles; electron and ion ionospheric temperature and density; ion composition and drift; thermal neutral drift, composition, density, and temperature.

Network Access

Access is made via TELNET to espsun.space.swri.edu using port 10000. One may also request a private account if extensive use is projected. NASA sponsored investigators may access this system through the NASA Master Directory on host nssdca.gsfc.nasa.gov. X-window system servers are supported for graphical displays.

Who Can Use SDDAS

A potential user must receive verbal authorization from Dr. J. D. Winningham (512-522-3075 or dwinningham@swri.edu) before making use of this resource. A User's Guide will be sent to each authorized user. There are no restrictions on who may use this system, except that credit must be given in any publications that result from its use. There is also a limit of 8 users at any one time.

Miscellaneous

A detailed list of the data holdings may be requested from sddas-help@swri.edu. The database server is a SUN SPARCserver 330, soon to be upgraded with additional CPUs. The SDDAS software is available to qualified users for installation on their own workstations. Immediate plans involve the addition to the archive of particle and field measurements from the Upper Atmosphere Research Satellite.

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