



Environmental Data Analysis Center Facility

Purpose:

To provide an interactive analysis center for projects involving direct interaction with on-line and operational satellite data streams and field observations.

The Environments Data Analysis Center (EDAC) provides conference, workstation, communications, and data server space to support the research and acquisition, analysis, archiving, and dissemination of space and terrestrial environment data. The facility supports the establishment/definition of environment parameters, development and maintenance of environment models and databases, and spacecraft and payloads performance assessments in various environments including on-orbit anomaly investigations. During special events the center is used to provide analysis results to satellite operators and launch vehicle operators so that they can assess and mitigate any impacts on their assets. Specific environment research enabled by this facility includes: thermosphere, ionosphere, magnetosphere analysis and definition; ionizing radiation definition; solar activity; plasma effects; meteoroids; orbital debris; external contamination analysis. For example, the EDAC serves as the Leonids Environmental Operations Center, a real-time data analysis hub for a worldwide network of NASA and other agencies' observers during

the Leonids Meteor events of 1999, 2000, 2001, and 2002. It is also a resource used for a number of other research and data analysis activities.

The EDAC will also house the Mission Science Team for the ProSEDS tether mission in mid 2002.

POINT-OF-CONTACT:

Rob Suggs / ED44
(256) 544-2704
rob.suggs@msfc.nasa.gov

