The SWENET Software Infrastructure

We are happy to announce that the development of the SWENET Infrastructure is currently in its final steps. Thus I would like to invite you to visit the SWENET portal at :

www.esa-spaceweather.net/swenet

The SWENET software infrastructure provides users access to the data and services developed in the Service Development Activities of the Space weather Pilot Project. It also provides Space Weather data of interest to the SWENET community, collecting it from various external sources and making it available through a common database.

The SWENET portal has three main sections providing services and data related to space weather in general and the Service Development Activities in particular. The following list shortly describes the main functionalities available:

- **SWENET Services**

  The infrastructure provides a central access point to the services developed in the SDAs with:

  - the possibility to search for services and data
  - detailed descriptions of the SDAs and the services developed
  - an overview of the latest data from SDAs integrated in SWENET

- **Space Weather Data**

  Users can search for data from specific time periods and from different sources and either display the results in the web browser or save the results to a text file downloading the data to the user's own computer for more detailed analysis. The data can be also displayed graphically. The space weather data section provides:

  - the capability to browse the data through a step-by step web interface
  - tools for binning and analysis of GOES footpoints and >2 MeV e-flux
  - FTP mirror of the unprocessed data
  - overview of the latest space weather indices
  - overview of the latest plots from SEC

- **Automated data dissemination via email**

  The user has the possibility to obtain daily reports, data sets and alerts via email. Reports related to space weather conditions are provided by different sources such as SIDC or DIFS. Past reports can also be browsed though the web interface. The user can select what data sets and reports to receive through his personal settings in SWENET. Alerts for the most relevant indices can also be freely customised.

In combination with ESA's space weather website, the SWENET portal provides a central information service for space weather services in Europe, which we hope proves useful for both scientific and the user community.