

CGMS-XXXI-ESA-WP-10
Prepared by ESA
Agenda Item: B.4
Discussed in Plenary

Solar/geomagnetic activity data supply

CGMS is informed about the solar/geomagnetic activity data supply provided by ESA/ESOC

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Solar/geomagnetic activity data supply by ESA/ESOC

1. Introduction

Solar and geomagnetic activity data are supplied by ESOC as atmosphere model inputs for orbit predictions.

2. The service

ESOC is providing a free-of-charge service by which solar and geomagnetic activity data can be acquired via "ftp" file copies.

The data files and associated PostScript data plots can be accessed via a password protected ftp server or alternatively via command line or automated scripts.

The directory contains the following information:

Short-term predictions for the next solar rotation period (+27 days ahead), and daily activity data for the previous solar rotation period (-27 days observation history) are contained in the file "short-term.dat" (including +/- 95%-ile prediction uncertainties).

A related PostScript plot is provided in the file "fap-daily.ps" (or in a compressed version as "fap-daily.ps.gz"). The daily activity data and the short-term predictions are updated every day at 08:30 UTC.

Long-term predictions for the next two solar cycles (2 x 11 years) in terms of centered 13-months moving averages are listed in the file "long_term.dat" (including 1-sigma uncertainties). The related Post-Script plot is provided in the file "fap-monthly.ps" (or in a compressed version in file "fap-monthly.ps.gz"). The monthly activity predictions are updated on the 4th day of each month, at 08:30 UTC.

3. Conditions of access

The use of the activity data files is free of charge. Any new user should, however, register with "Heiner.Klinkrad@esa.int", giving his/her name, affiliation, address, e-mail, and phone/fax. This information will only be used to keep the user informed of future changes in formats or in the password.

However, users should accept that this data supply service is of a non-operational nature, with no liability on ESA's side for the timely update, and/or for the accuracy of the data contained in the above mentioned files.