



<http://supermag.jhuapl.edu/>
<http://supermag.uib.no/>

Dear SuperMAG Friend

Latest news from the SuperMAG service:

- 1) The SuperMAG family increases.
- 2) Partial ring current indices.
- 3) Movies.
- 4) Website security.
- 5) Polar VIS Earth Camera images.
- 6) SuperMAG reaches 300 registered users.
- 7) Other news.

As always we are open to any feedback.

Best wishes on behalf of the entire SuperMAG team;
Jesper W Gjerloev and Shin Ohtani

- 1) The SuperMAG family increases.

We are pleased to announce that the SuperMAG family has two new members:

ENIGMA; PI Prof. Daglis.
University of Tromsø; PI Prof. Hansen.

- 2) Partial ring current indices.

SuperMAG now derives partial ring current indices known as SMR. The average of these 4 local time indices is equivalent to the well-known SYM-H index. These indices are in addition to the already released auroral electrojet indices (SME). SuperMAG indices are not authorized by IAGA. The official SYM-H indices can be found at World Data Center for Geomagnetism; Kyoto.

- 3) Movies.

The user can now generate their own movies; browse previously generated movies; and view the standard daily movies.

- 4) Website security.

After two serious cyber-attacks we redesigned the entire website design for increased security as well as increased user friendliness. Following the attack the University of Bergen server remained open but the APL server was closed and has remained closed. It will; however; be reopened shortly. SuperMAG should now be as secure as the website of your typical bank. We sincerely apologize for any inconvenience these attacks may have caused.

5) Polar VIS Earth Camera images.

The entire Polar VIS Earth Camera database is currently being ingested. Geo-location has been determined using the latest available coefficients (courtesy of the late Dr. John Sigwarth). The images are available both through the polar plots and the movies (see point 3) although it will take a few weeks before all images have been processed. This is in addition to the IMAGE FUV images ingested last year.

6) SuperMAG reaches 300 registered users.
SuperMAG continues its growth. Approximately 20;000 plots are now produced every month for the more than 300 users.

7) Other news.

- We have removed limits on the download of several parameters.
- The lineplots now allow you to plot data without subtracting any baseline.
- Multiple minor errors and nuisances have been corrected.
- The website design has been improved to make it more user-friendly.