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SuperMAG News: Significant Expansion of Capabilities and Data Holdings

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SuperMAG is a worldwide collaboration of ground based magnetometers generously supported by the National Science Foundation. It currently includes data from more than 250 stations generously provided by a long list of organizations and national agencies.

SuperMAG provides a user-friendly web based interface to measured ground magnetic field perturbations in the same coordinate system, identical time resolution and with a common baseline removal approach. The data set provided by the ground magnetometer community is truly unique since it provides a nearly global and continuous measurement of a fundamental parameter - the ground level magnetic field perturbations.

Supported by grants from NSF and NASA SuperMAG has recently undergone a series of significant expansions and improvements. Programming by Robin Barnes supported by Syau-Yun Hsieh and web-design by Tove Dehn.

We wish to draw your attention to four areas:

1) Redesign of website:

The website has been redesigned in order to provide the user with an intuitive and esthetic interface.

2) Expansion of ground magnetometer data holdings:

We have expanded the data holding to include the years 2002-2008 although the coverage for the later years currently is sparse. Significant amounts of data will be included over the next few months.

3) Inclusion of IMAGE WIC Camera images:

SuperMAG now includes the entire collection of auroral images obtained by the IMAGE WIC Imager. To ingest these images we have produced several powerful and easy to use tools for analysis.

4) Development of an interactive inventory:

To administrate decades of data from more than 250 ground stations SuperMAG now includes an impressive interactive inventory tool aimed at providing a quick and easy overview of the vast data holdings.

All comments, corrections and suggestions are welcome.

Best wishes on behalf of the SuperMAG team,  
Jesper W Gjerloev