SuperMAG Activity: Latest and Future Tools

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Usage

~870 registered users
~35,000 downloads in 2015
~50 peer reviewed papers in 2015

November 2015 new record of >15,000 downloads beating the previous record of ~8000.
Tool #1: Global ULF

Processed, ingested and released all data from 1980-2014
Tool #2: Satellite Footpoints

Currently:
- NASA RBSP
- ESA SWARM
Multi-linear regression model: \[ y_i = \beta_0 + \beta_1 x_{1i} + \ldots + \beta_k x_{ki} + \epsilon_i \quad (i = 1, \ldots, n) \]
where \( \beta_k \) are the regression coefficients, \( x_{ki} \) are SuperMAG indices, and \( \epsilon_i \) is the model errors.
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