

Substorm Zoo - a browser-based tool for space weather research and teaching

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Large amount of high-resolution measurements are nowadays available from different heliospheric locations. It has become an issue how to best handle the ever-increasing amount of information about the near-Earth space weather conditions, and how to enable the social data analysis. To resolve the problem, we have developed an interactive web interface, called Substorm Zoo (www.substormzoo.org), which we expect to become a powerful tool for scientists and a useful tool for public. The aim is to (1) provide a combined data repository for different heliospheric measurements including the geomagnetic activity indices with a possibility to customized views, (2) enable the use of pre-identified event lists, creation and sharing of own lists, (3) allows discussion on individual activity events e.g. substorms from the users of the site, and (4) enable the interactive data analysis on-line with a possibility to write and share comments. In this paper, we will present the basic features of Substorm Zoo and give examples of the use for educational, scientific and public outreach purposes.

Keywords: Interactive web interface, Tool for data analysis, Space weather, Substorms, Event lists