Substorm Zoo

A browser-based tool for research, teaching and social data analysis

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Why Zoo?

The web site is called Substorm Zoo, because the aim is to present events in a variety of data series. In a sense, these events are the animals of heliospheric wild life. Hence the zoo.

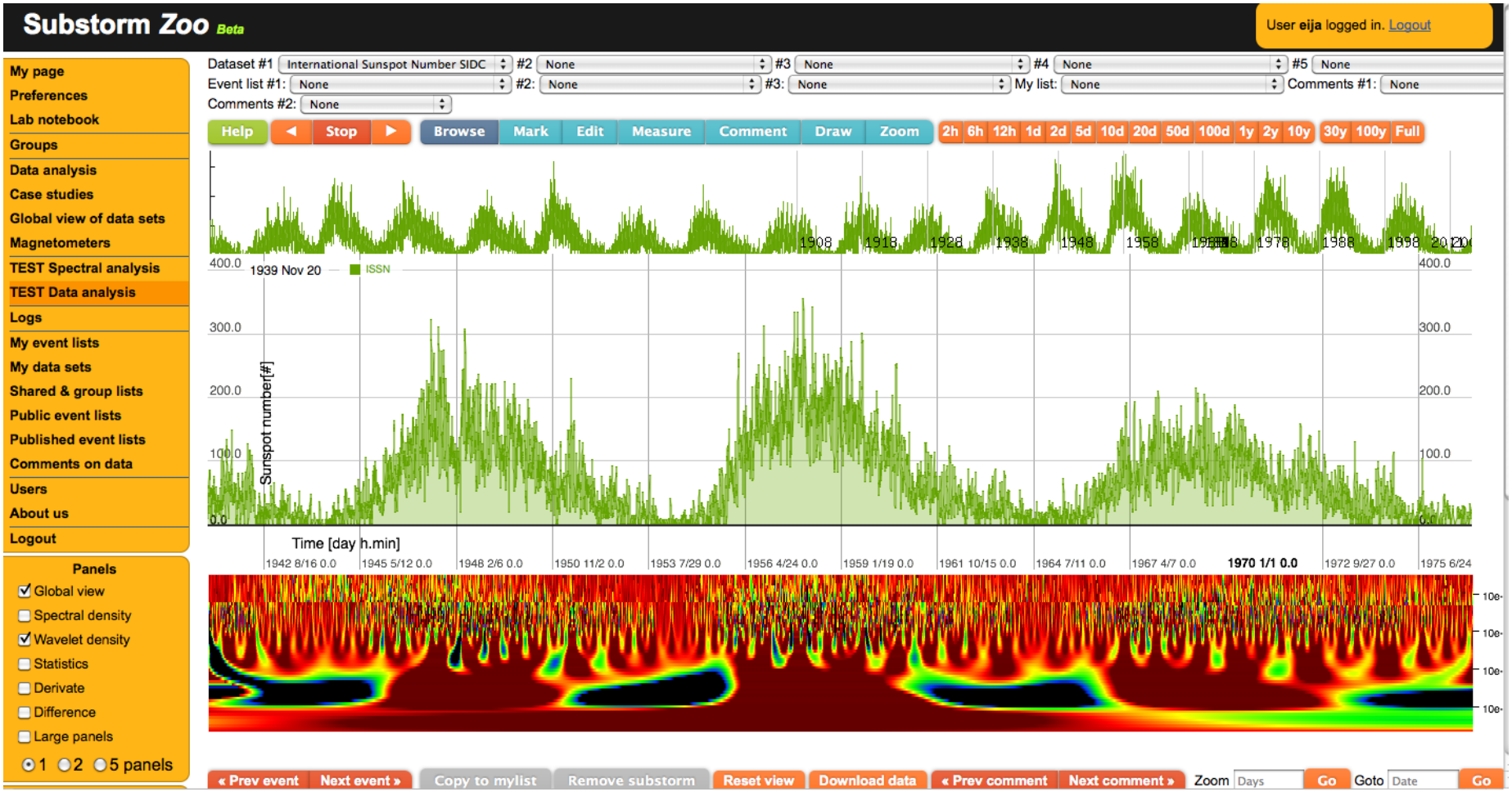
The goal

Substorm Zoo provides a browser-based tool for time-series analysis of data. Particular interest is in the identification of geo-effective and other important structures.

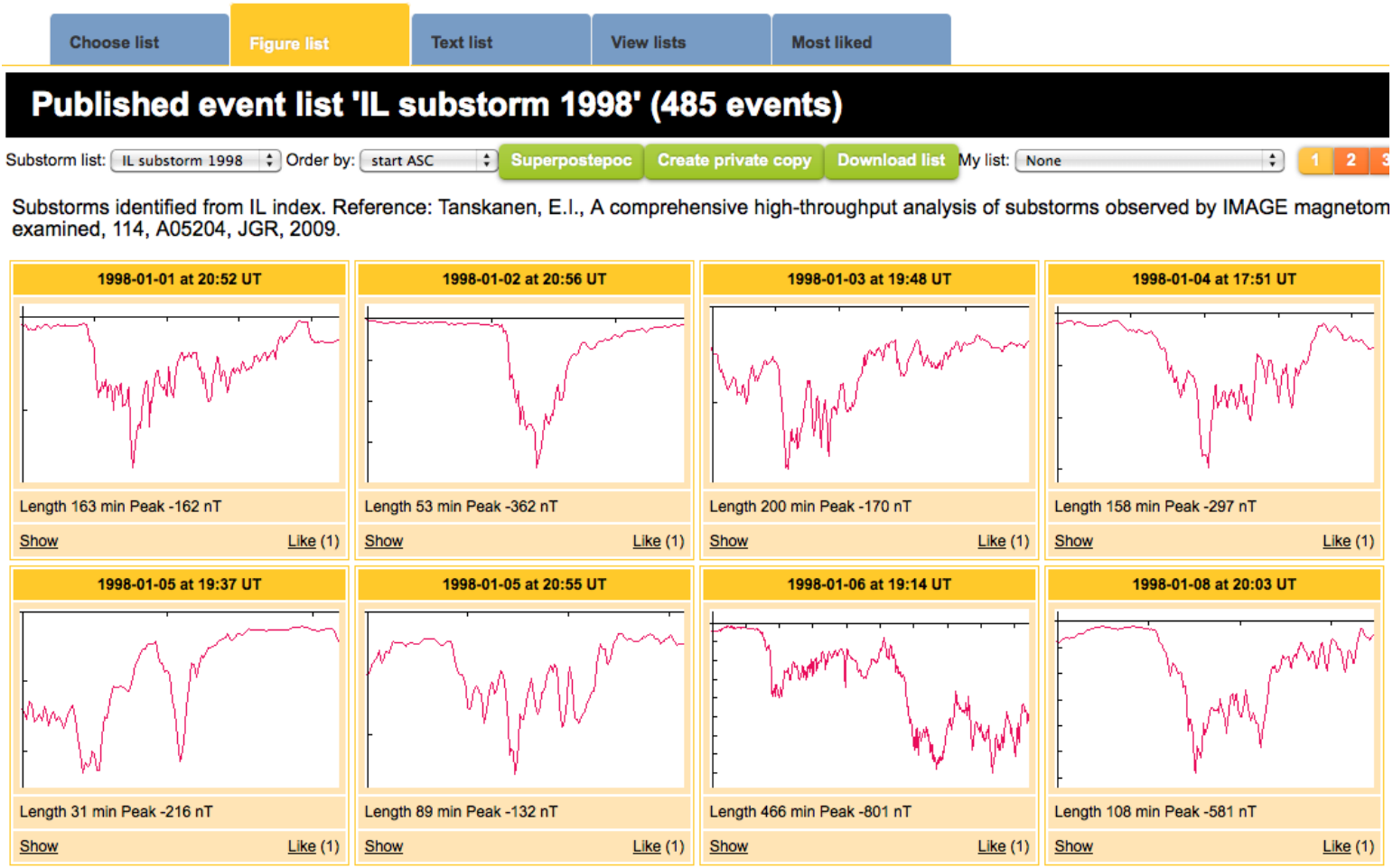
The web site enables the social data analysis by providing a possibility to create discussion groups, share event lists, upload own events, share the comments to the data etc.

Online tools for science

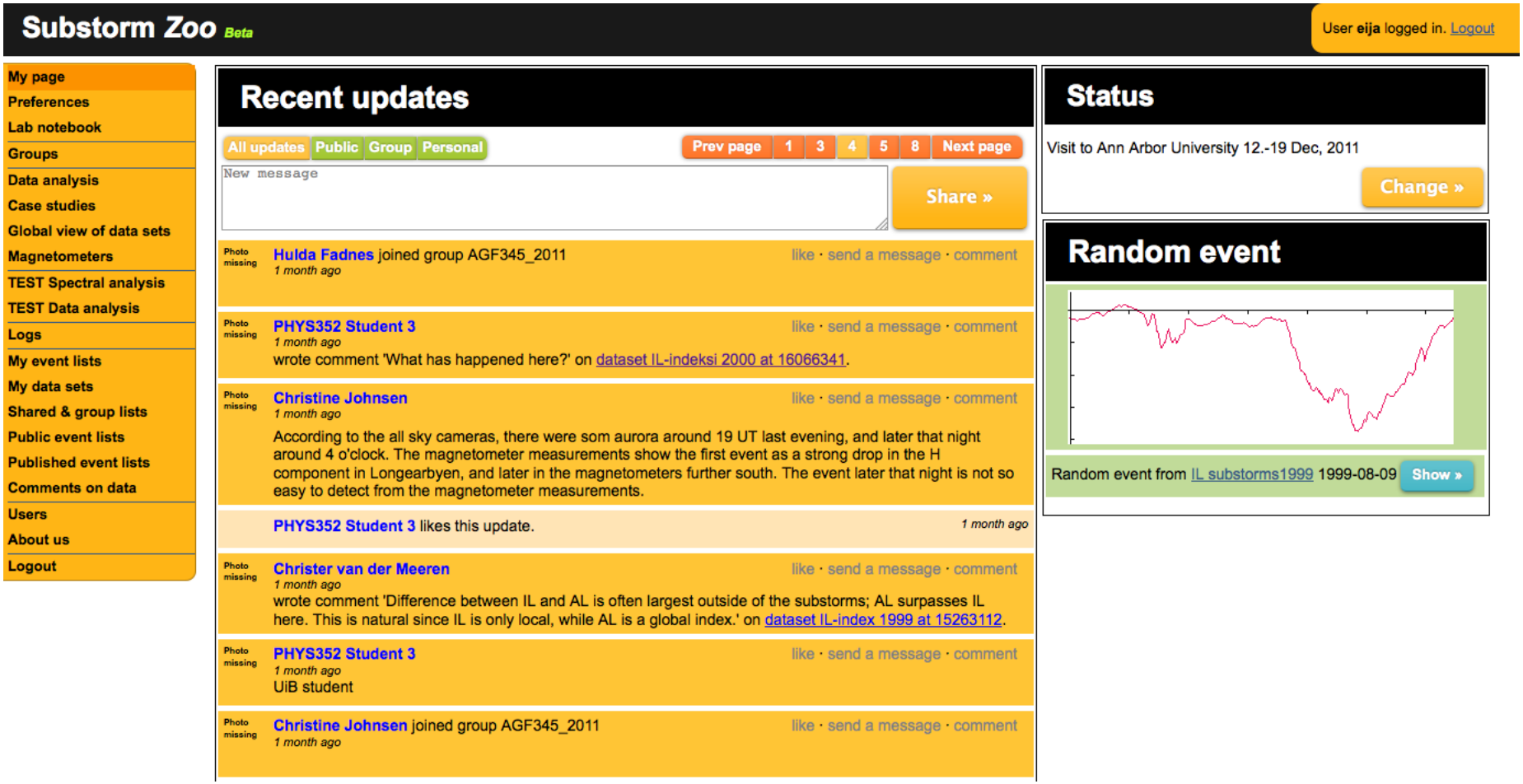
Powerful analysis methods



Libraries of pre-identified events



Tools for social data analysis



Discussion groups

Tools for public outreach

Tools for teaching

Substorm Zoo *Beta*

- My page
- Preferences
- Lab notebook
- Groups
- Data analysis
- Case studies
- Global view of data sets
- Magnetometers
- Realtime analysis
- TEST Data analysis
- Logs
- My event lists
- My data sets
- Shared & group lists
- Public event lists
- Published event lists
- Comments on data
- Users
- About us
- Logout

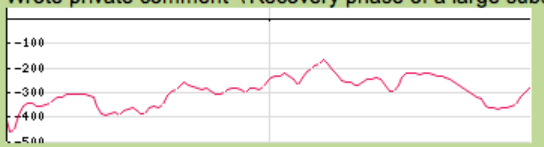
Lab notebook of Eija Tanskanen

Failed to log in on 2012-5-22 13:28.12.
24 seconds ago (2012-05-22 13:28:17)

Wrote private comment '\'What is this?\'' on dataset IL index at 1998-10-03 23:04.

1 hour ago (2012-05-22 12:21:45)

Wrote private comment '\'Recovery phase of a large substorm.\'' on dataset IL index at 2003-08-24 20:38.



1 hour ago (2012-05-22 11:49:59)

Failed to log in on 2012.5.21 13.49.19.
23 hours ago (2012-05-21 13:49:24)

Created a new event list ClusterNSC03_05il.
6 days ago May 16, 2012 (2012-05-16 13:00:27)

Created a new event list ICMEbegin96_2011il.
6 days ago May 16, 2012 (2012-05-16 12:57:48)

Created a new event list ICMEbegin96_2011.
6 days ago May 16, 2012 (2012-05-16 12:57:06)

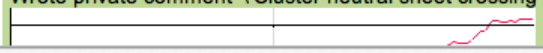
Created a new event list ClusterNSC2005_sc1.
6 days ago May 16, 2012 (2012-05-16 12:16:07)

Created a new event list ClusterNSC2004_sc1.
6 days ago May 16, 2012 (2012-05-16 12:13:53)

Created a new event list Cluster_sc1.
6 days ago May 16, 2012 (2012-05-16 12:09:49)

Created a new event list Cluster_test.
6 days ago May 16, 2012 (2012-05-16 11:32:30)

Wrote private comment '\'Cluster neutral sheet crossing ends.\'' on dataset IL index at 2004-10-15 15:52.



Welcome to Substorm Zoo

Our mission is to provide a best-in-class, browser-based tool for time-series analysis of data derived from magnetometer measurements, satellites and other instrument that provide time-series data of interest to the space science community. The aim is to provide a tool that is best suited for preliminary analyses, rapid data checks and comparisons of various data sets, not for all-encompassing comprehensive analyses.

In addition to data analysis, the website allows identification of important events in the data. The website is dedicated to the analysis of zoo of magnetospheric substorms and other meaningful events. For an account, please see More information.

To the login page! | More information

https://www.substormzoo.org

Acknowledgements and courtesy to:
Substorm Zoo co-founder and co-developer, Antti Tanskanen, EK, Finland
MIRACLE/IMAGE of IL index.
Kyoto World Data Center of AL and Dst indices.
SuperMAG initiative of SLM index.
SIDC Belgiumand NOAA of sunspot numbers.
DTU and Tromsø about individual magnetometer data.
ESA for Cluster data.
Oulu and Kiel universities of cosmic ray data.
ICME lists to E. Kilpua, I. Richardson.
CDAWeb, iSWA and
Illustration of the Sun and planets by Elsa Tanskanen.
We warmly thank all the other data providers not mentioned above and last, but not least
ALL THE USERS ABOUT THE USEFUL COMMENTS AND SUGGESTIONS!