



Flexible tools for studying the magnetospheric boundary with Cluster and Themis

J. De Keyser (1), E. Gamby (1), and M. Roth (1)

(1) Belgian Institute for Space Aeronomy, Brussels, Belgium
(Johan.DeKeyser@aeronomie.be)

The study of the magnetospheric boundary requires the integration of observational data and modelling results. Modelling and analysis tools such as the MIM software package (downloadable from <http://www.spaceweather.eu/en/software/mim>) can provide uniform access to Cluster and Themis data and to model output. We discuss our experiences with automated caching strategies to speed up remote data access to on- and off-site Cluster and Themis data archives, and with generic data format descriptions to interpret the different storage formats. Such features are especially useful when applying multi-spacecraft data analysis techniques. As an example, we demonstrate how straightforward it is to compute empirical reconstructions of the magnetospheric boundary, be it using Cluster or Themis observations.