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Analysis of geomagnetic day-to-day variations by using the Solar Terrestrial Analysis and Reference System (STARS) [1]

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¹NICT

Solar-Terrestrial data Analysis and Reference System (STARS) is the system which realizes the crossover search and integrated analyses of ground-based and satellites observations of solar-terrestrial physics. We have implemented new functions concerning geomagnetic data handling and plotting. New functions consist of some pre-processing functions, user-friendly Graphical User Interface (GUI) and well organized plotting functions, for an example, time-shifted overlay plotting.

As an example of the usefulness of the new functions, we show the applying process of the functions to geomagnetic data at many observatories and preliminary results of our analysis of day-to-day geomagnetic variation.

[Acknowledgements]

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We thank the World Data Center for Geomagnetism, Kyoto for providing 1-minute digital data from many observatories. We thank the national institutes that support the observatories.

Keywords: geomagnetic variation, day-to-day variation, time-shift, overlay