

## Recent Development of ICWSE/MAGDAS project for Study of Coupling Processes in the Solar-Terrestrial System

\*Akimasa Yoshikawa<sup>1</sup>

1. Department of Earth and Planetary Sciences, Kyushu University

For study of coupling processes in the Solar-Terrestrial System, International Center for Space weather Science and Education (ICSWSE), Kyushu University has developed a real time magnetic data acquisition system (the MAGDAS project) around the world. The number of observational sites is increasing every year with the collaboration of host countries. Now at this time, the MAGDAS Project has installed 77 real time magnetometers –so it is the largest magnetometer array in the world. The history of global observation at Kyushu Univ is over 30 years and number of developed observational sites is over 140. By using MAGDAS data, ICSWSE produces many type of space weather index, such as EE-index (for monitoring long term and short term variation of equatorial electrojet), Pc5 index (for monitoring solar-wind velocity and high energy electron flux), Sq-index (for monitoring global change of ionospheric low and middle latitudinal current system), and Pc3 index (for monitoring of plasma density variation at low latitudes). In this talk, we will introduce recent development of MAGDAS/ICSWSE Indexes project and topics for open policy for MAGDAS data will be also discussed.

Keywords: Space Weather, Master Plan, MAGDAS