

## Relativistic Electron Measurement by JAXA Satellites and ISS

Takahiro Obara<sup>1\*</sup>, Space Environment Group<sup>1</sup>

<sup>1</sup>Japan Aerospace Exploration Agency

In order to monitor space environment and its temporal variations, JAXA has been conducting space environment observation for more than 20 years. JAXA installed space radiation detectors, magnetometers and plasma detectors on LEO (Low Earth Orbit) satellites, GEO (Geostationary Orbit) satellites, GTO (Geostationary Transfer Orbit) satellites and JEM (Japanese Experimental Module) of the ISS (International Space Station). With these data, JAXA has been investigating space environment variations to make assessment of space environment models. Solar proton advanced model has recently been proposed to ISO (International Standard Organization) and advanced radiation belt model, which accommodates dynamical variation of relativistic electrons in the radiation belts, will be proposed to ISO shortly. JAXA is using real-time space environment data brought by JAXA satellites and ISS/JEM to inform warnings to operators of JAXA satellites as well as ISS/JEM. In this talk we will present some distinguish achievements by the measurements and explain forthcoming projects; i.e. Quasi Zenith Satellites observation of the space environment.

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