

Status quo of the JAXA space environment measurement

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In order to monitor space environment and its temporal variations, JAXA Space Environment Group has been developing space radiation detectors and installing them on Low Earth Orbit(LEO) satellites, Geostationary Orbit (GEO) satellites, Geostationary Transfer Orbit (GTO) satellite,

Quasi Zenith Orbit (QZO) satellite and Japanese Experimental Module (JEM) of the International Space Station (ISS).

We are using these space environment data to know the situation of space environment and to provide warning messages to the satellite operators, when the space environment will be harmful. Based on our observation data, we also have constructed a quasi-dynamic radiation belt model for the use in satellite manufacturing.

We report on the status quo of the JAXA space environment measurement.