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Technical data acquisition equipment for GOSAT

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Abstract content

We have developed the technical data acquisition equipment (TEDA) for Green House Observing Satellite (GOSAT). GOSAT will be launched in middle of 2008 into sun synchronous sub-recurrent orbit with altitude of 666km and inclination of 98deg, and nominal mission duration is 5years.

TEDA is a comprehensive orbital radiation environment monitor system designed to provide measurement of the energy spectra of energetic electron, proton, and heavy ion having mass from helium to iron. TEDA comprises new developed five sensors that are considerably compact, lightweight and improved in the detection performance compared to the conventional sensors for spacecraft.

The obtained data is expected to contribute to science and technology such as understanding the cause of radiation-induced spacecraft degradation and anomalies, updating the space radiation environment model, and so on.

If this papers is presented for a collaboration, please specify the collaboration

Summary

Reference

Proceedings of the 30th International Cosmic Ray Conference; Rogelio Caballero, Juan Carlos D'Olivo, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia (eds.); Universidad Nacional Autónoma de México, Mexico City, Mexico, 2008; Vol. 1 (SH), pages 643-646

Primary author(s) : Mr. SASAKI, yasutomo (Japan Aerospace Exploration Agency)

Co-author(s) : Mr. MATSUMOTO, Haruhisa (Japan Aerospace Exploration Agency); Mr. GOKA, Tateo (Japan Aerospace Exploration Agency); Mr. NAKAMURA, Toshiyuki (Japan Aerospace Exploration Agency)

Presenter(s) : Mr. SASAKI, yasutomo (Japan Aerospace Exploration Agency)

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