

## On-board Automatic Data-Reduction Method for Plasma Wave Observation by Scientific Satellite

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Plasma waves in space are generally observed by scientific satellites. It is important to observe waveforms as well as spectra of such plasma waves. Since the capacity of transmission from spacecraft to the ground is very small, only a part of waveform data are normally obtained. We developed new method of on-board automatic data reduction for plasma wave observation. We can find significant time-frequency space of waveform, and the transmission effectiveness becomes drastically improved.