

Failure Mode Effect Analysis of GOCI

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This paper presents Failure Mode Effect Analysis of GOCI(Geostationary Ocean Color Imager) at payload system level. The GOCI is one of the three payloads of the COMS satellite. Its function is to acquire data in 8 visible spectral bands with a spatial resolution of about 500m over the Korean sea. For each functional block of the subsystems making up the GOCI a functional FMEA is performed and each functional failure is studied in terms of functional effect on the system and, eventually, on the satellite.