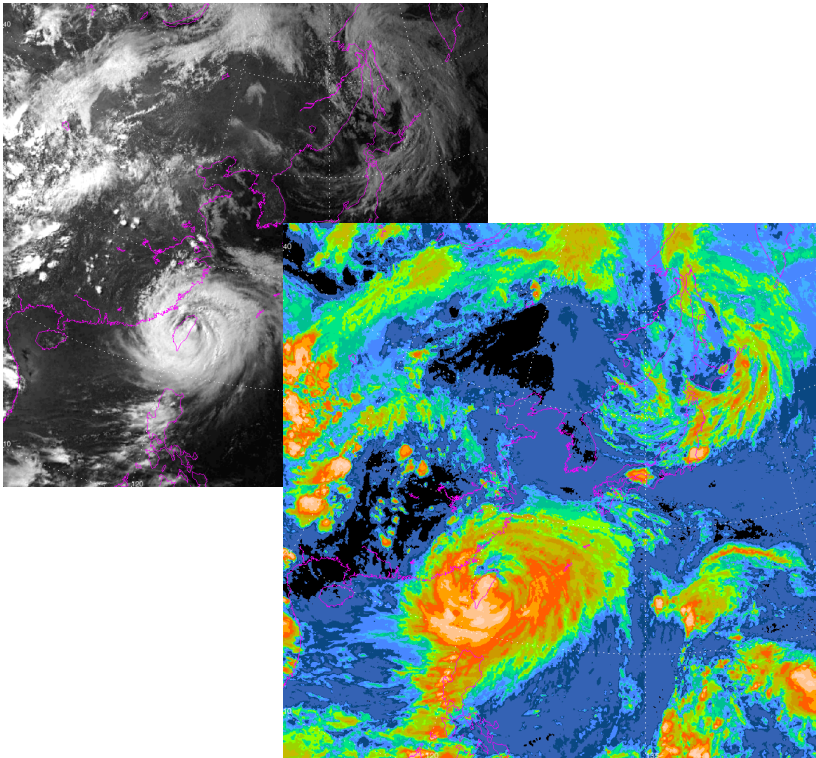


GEOSAT400

geostationary satellite ground station



Features

- Fixed parabolic dish
- Feed, LNA and Downconverter
- Ingest and data processing system workstation
- Low Rate Information Transmission (LRIT) reception
- METEOR LT image processing system
- Lightning and surge suppression

Applications

The ES&S GEOSAT400 ground station is a high-performance system designed to receive data from the Japan Meteorological Agency's MTSAT-1R spacecraft. It is a complete turn-key system, providing all hardware and software necessary to receive Low Rate Information Transmissions from the spacecraft and process the data into image files.

The antenna receives and amplifies the signals, which are then passed on to the Ingest and Data Processing System (IDPS). The IDPS receiver demodulates the signal, and the raw data is processed into final image products. These products are then available for display and analysis using the METEOR-LT image display package.

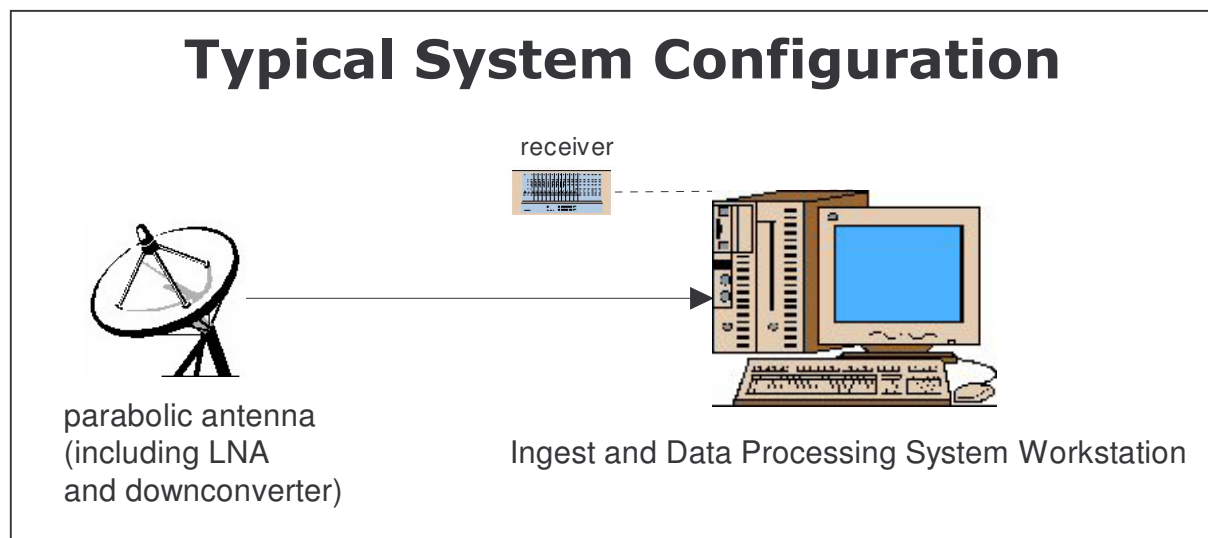
The GEOSAT400 LRIT ground station comprises a fixed parabolic dish, LNA, downconverter, and an Ingest and Data Processing Workstation.



Technical Specifications

Antenna		Receiver	
Type	Solid metal	Input frequency	126 to 154MHz
Diameter	1.8m	Input dynamic range	-90 to -50dBm
Alignment	On-screen signal strength indicators		
Feed/LNA/Downconverter		Input impedance	50 ohms
Noise Figure	0.8dB typical, 1.2dB max	Demodulation modes	BPSK, PSK
Input center frequency	1702.500MHz	Support symbol rates	0.1 to 2.7 MSPS
Output center frequency	137.500MHz	Temperature (operating)	0 to 50 degrees C non-condensing
Conversion gain	>45dB, 48dB typical	Control interface	RS-232 9600 baud
Output impedance	50 ohms		
Temperature (operating)	-20 to 60 degrees C		

Typical System Configuration



Environmental Systems & Services Pty Ltd.

8 River Street, Richmond, VIC, 3121 Australia

PO Box 939, Hawthorn, VIC, 3122 Australia

Telephone: + 61 3 8420 8999

Facsimile: + 61 3 8420 8900

Email: meteorology@esands.com

Web: www.esands.com