



Application of Space Technology for the benefit of the common man

Weather forecasting, cyclone prediction and continuous weather and ocean data availability

2006-2016

MAJOR BENEFITS TO SOCIETY

- Advanced alerts related to cyclone and heavy rain events to civil administrators and users
- Heavy rain and cloud burst related
 Nowcasting over Western Himalayan
 region
- Weather, heat / cold wave forecasting

MAJOR HIGHLIGHTS

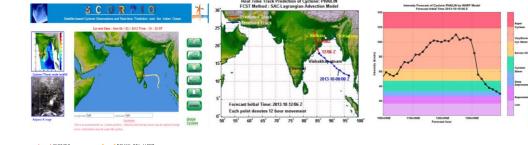
- A Storehouse for Space based Weather and Ocean
 Data
- Near Real time Meteorological and Oceanographic data dissemination
- Free data to scientific and academic community
- Web and email alerts for extreme weather events
- Freely available tools and utilities for data analysis

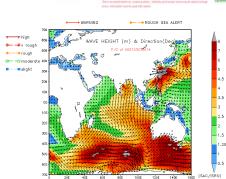






CYCLONE: Track and Intensity forecast over Indian Ocean

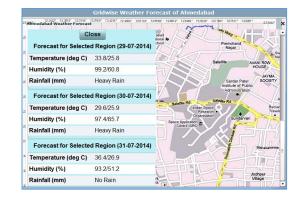


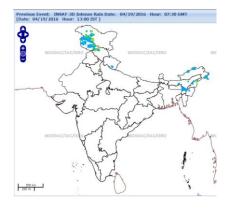


SEA STATE FORECAST (6 hourly) for 5 days in terms of wave height, wind speed, sea surface temperature and swell height

WEATHER FORECAST

for 24, 48 and 72 hours (Temperature, Pressure, Humidity, Rain, Winds, Clouds) over India at 5 km resolution





Control of the Contro

INTENSE RAINFALL Half hourly maps over India at 4 km resolution

CLOUD BURST: Half hourly **ALERTS**

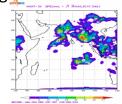




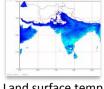


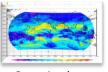


KALPANA-1 & INSAT-3A: Half hourly data of land, ocean and atmosphere, covering India and its neighborhood for weather and ocean state forecasting *



ND Vegetation

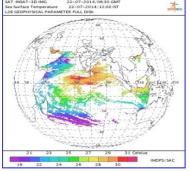


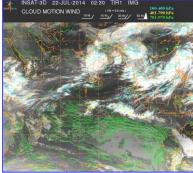


tation Land surface temp

Outgoing long Wave radiation

INSAT-3D IMAGER: Provides an operational, environmental and storm warning system to protect life and property

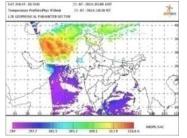


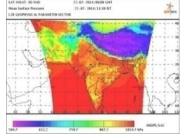


Sea Surface Temp

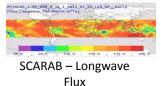
INSAT-3D SOUNDER: Profiles of Temperature, Humidity, Ozone,

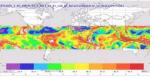
Surface Skin Temperature

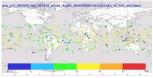




MEGHA-TROPIQUES: Measurements for under -standing of tropical meso scale convective systems and hydrological cycle



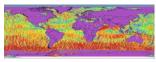


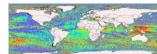


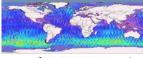
SAPHIR – Atmospheric humidity profile

ROSA – Locations of Occultation

SARAL: Observations for the study of sea level, climate and ocean circulation







Wind Speed

Sea Surface Height Anomaly

Significant Wave Height







