Application of Space Technology for the benefit of the common man

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

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

**INTENSE RAINFALL** Half hourly maps over India at 4 km resolution

**CLOUD BURST:** Half hourly ALERTS

**Applications**
- Cyclone Monitoring, Heavy Rain and Cloud Burst Nowcasting, Heat Wave and Weather Prediction
**KALPANA-1 & INSAT-3A:** Half hourly data of land, ocean and atmosphere, covering India and its neighborhood for weather and ocean state forecasting.

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

**INSAT-3D SOUNDER:** Profiles of Temperature, Humidity, Ozone, Surface Skin Temperature.

**MEGHA-TROPIQUES:** Measurements for understanding of tropical meso scale convective systems and hydrological cycle.

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