

Europe to launch enhanced weather satellite

The first of Europe's Second Generation polar-orbiting weather satellites is set to enhance the accuracy of weather forecasts and provide improved data for climate modelling

METOP-SG-A1

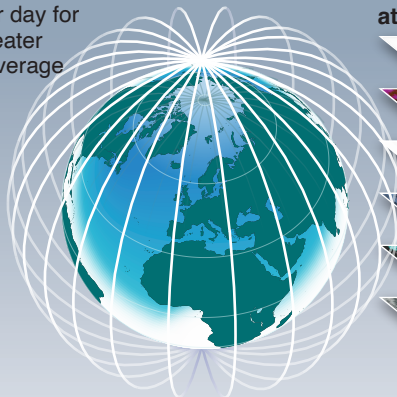
Six instruments to improve understanding of atmospheric, land and ocean processes

3MI: Monitors aerosol particles in cloud formation

Copernicus Sentinel-5 UVNS
Near infrared shortwave infrared sounder
Measures atmospheric composition

METImage
Multi-spectral visible infrared imager
High resolution cloud and surface images, sea ice and ocean surface

Polar orbit: Circles Earth 14 times per day for greater coverage



Solar panels

Forecasts:
12 hours to 10 days ahead

5 RO Radio Occultation Sounder
Temperature and humidity sounding

6 MWS Microwave sounder
Sees through clouds to surface snow and ice

IASI-NG Infrared Atmospheric Sounding Interferometer – New Generation. Temperature and humidity profiles, atmospheric gas composition

Layers of data for high quality atmospheric forecasts

