TELESPACE®

Satellite Ground Stations From EEC

HIMAWARI-8
GROUND STATION

High performance, turn key ground station
for weather forecasting and research

REMOTE SENSING

POWERED BY EEC PROTECTING PEOPLE AND ASSETS®

Are you ready for Himawari-8?

Himawari-8 dissemination ushers in a new era of Mesoscale Meteorology with more channels and more frequent observations. The eTelecast Himawari-8 ground station from EEC has the required new hardware and updated software for you to maximize the potential of Himawari-8 data products.

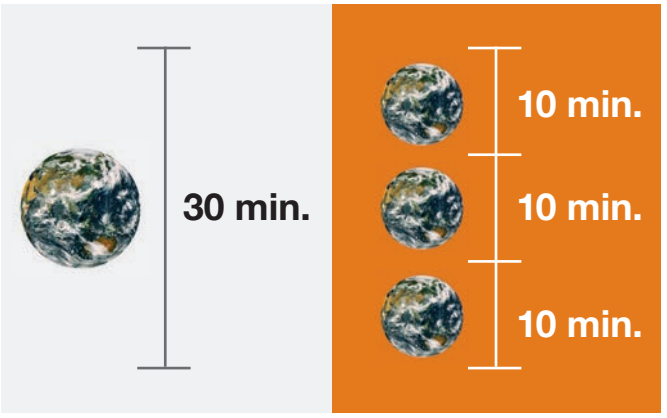
Himawari-8 Advantages:

OLD NEW

HIGHER SPATIAL RESOLUTION

MTSAT-1R/2		Himawari-8/9	
VIS	1km	VIS	.5 - 1km
IR	4km	NIR	1 - 2km
		IR	2km

MORE FREQUENT OBSERVATIONS

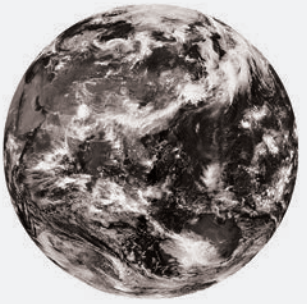
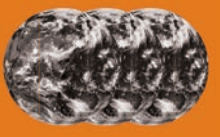
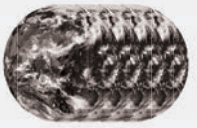
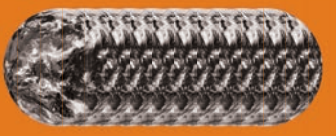


Rapid scan observation

NEW NIR BANDS

NIR (Near Infrared) channels open up new areas of atmospheric observations and land use studies.

MORE SPECTRAL BANDS

MTSAT-1R/2	Himawari-8/9
1 VIS Band Black/white Image	3 VIS Bands Color Image
	
No NIR Bands	3 NIR Bands
	
4 IR Bands	10 IR Bands
	
5 Bands	**16 Bands** **HimawariCAST - 14 BANDS**

Himawari-8 Products:

STANDARD PRODUCTS

Continuity of operations is crucial.

- Channels VIS, IR1-4 - Complete earth disks in all channels
- Cloud-top pressure
- Cloud-top height
- Cloud-top temperature
- Cloud type
- Cloud amount
- Sea-surface temperature
- Land-surface temperature
- Fire points

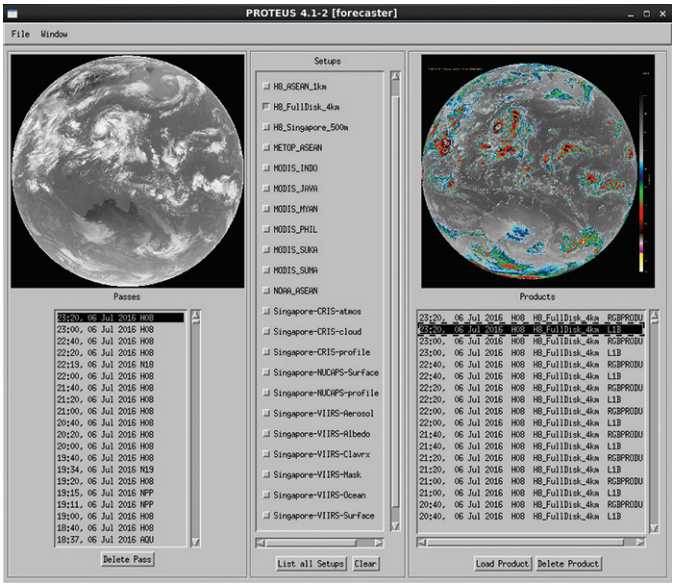
ENHANCED PRODUCTS

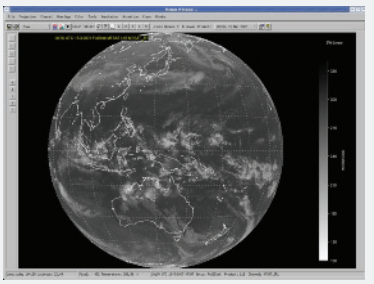
Proteus software will be continually improved to make use of the new capabilities of Himawari-8.

- **Greater Resolution**
  Visible channel 0.5km, IR channels: 2km
- **Rapid Update Storm Monitoring**
  A new image every 10 minutes - greatly improving monitoring of position and motion of typhoons and storm fronts
- **Improved Cloud Analysis**
  RGB channels improves cloud type determination
  Higher resolution differentiates cloud types
- **Higher Precipitation Accuracy**
- **Quicker And More Accurate Volcanic Ash Detection**
- **Improved Dust Observations**
  MODIS algorithms applied to improve detection and tracking

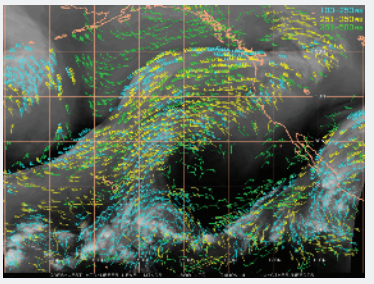
PROTEUS IMAGE PROCESSING SYSTEM

Proteus has been improved and upgraded to incorporate Himawari-8 and allow the new satellite to be processed along with existing geo and polar orbiting satellites.

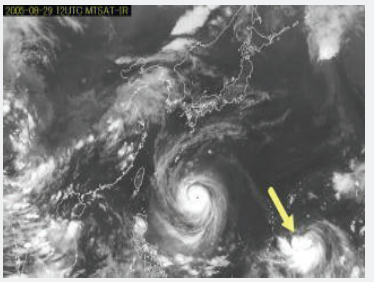




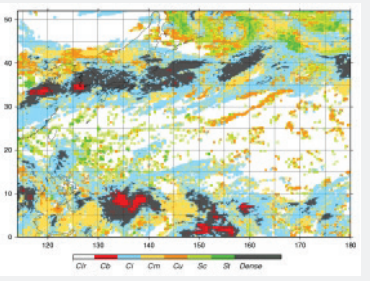
IR1 Image in PROTEUS



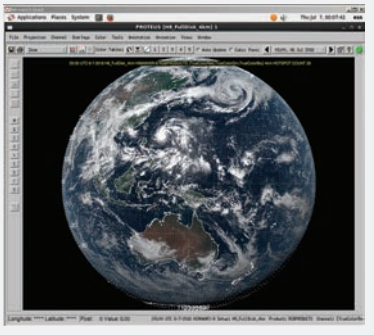
Wind Vector Fields



Typhoon Monitoring



Cloud Classification

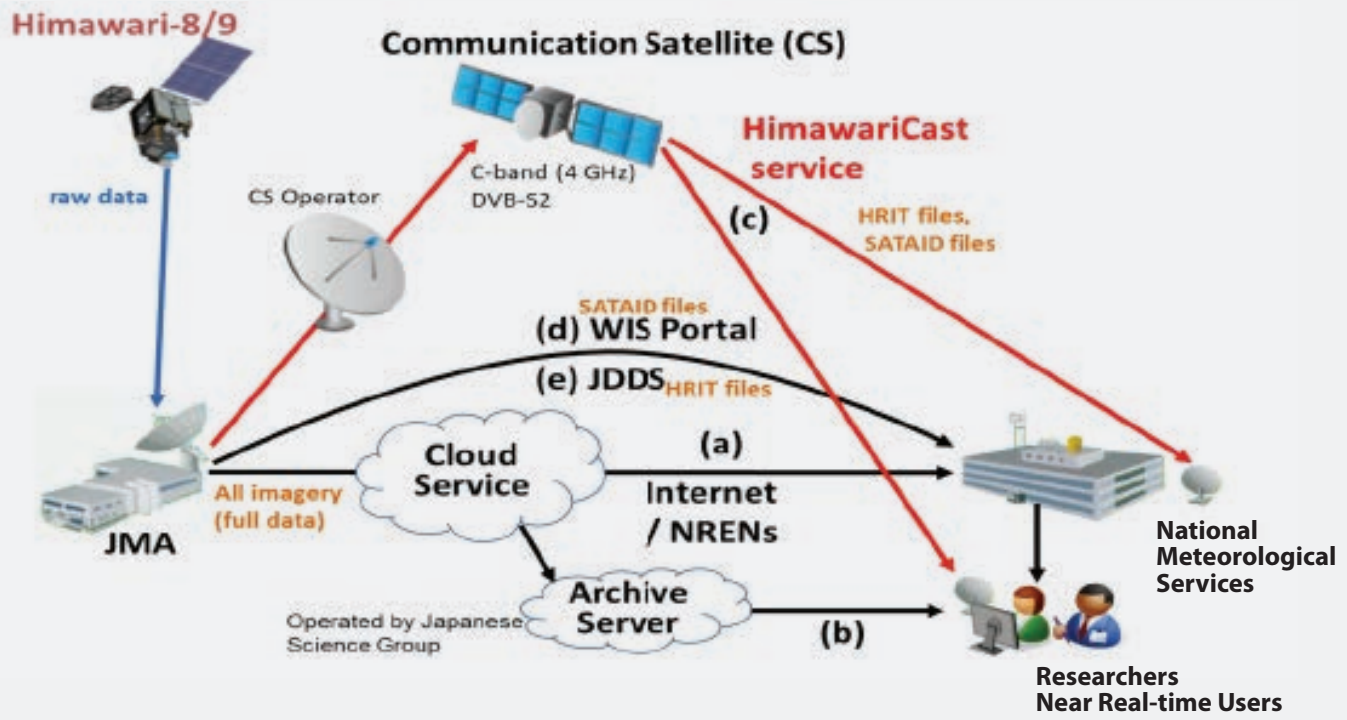


True Color Image

Fire Detection

HimawariCast

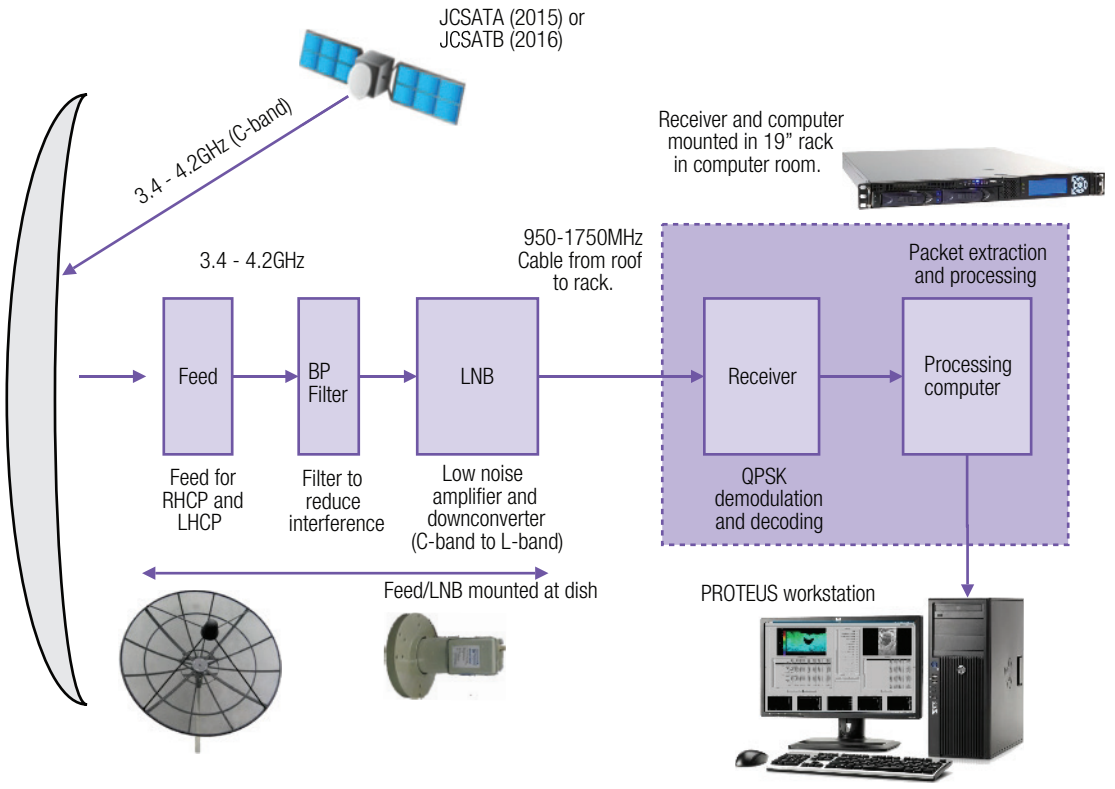
The HimawariCast system re-broadcasts Himawari-8 data from commercial satellites in a standard DVB-S2 TV Transmission



MTSAT hardware needs to be upgraded to receive Himawari-8

New:

- Antenna, Feed
- LNB
- Receiver
- Ingest Software Required to Receive HimawariCast



PROTECTING PEOPLE AND ASSETS®

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