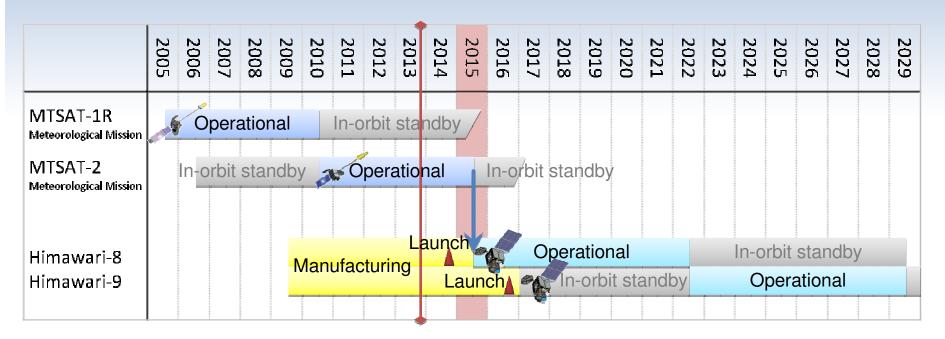
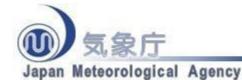
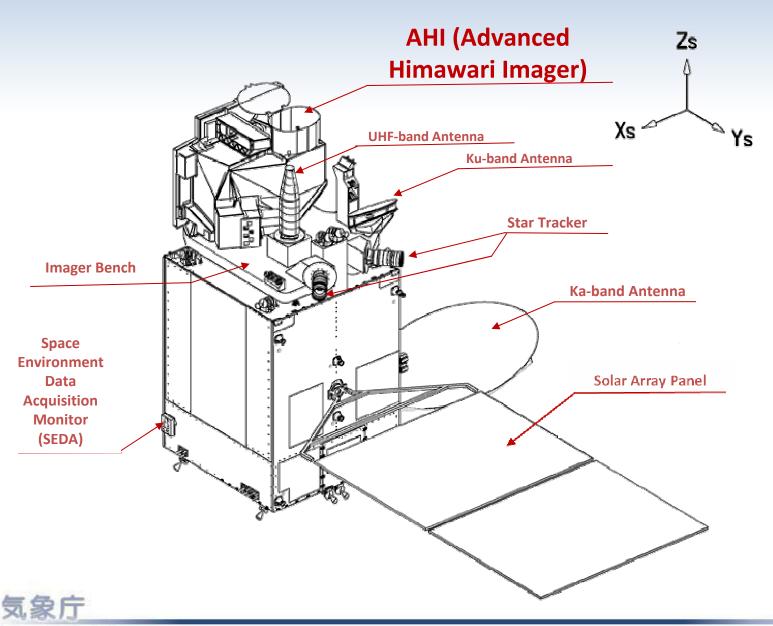
Transition of Operational Satellites



- JMA plans to launch Himawari-8 in 2014 and begin its operation in 2015.
- The launch of Himawari-9 for in-orbit standby is scheduled in 2016.
- Himawari-8/9 will be in operation around 140 degrees East covering the East Asia and Western Pacific regions for 14 years.



Appearance of Himawari-8/9



Himawari-8/9: Specification of Observation

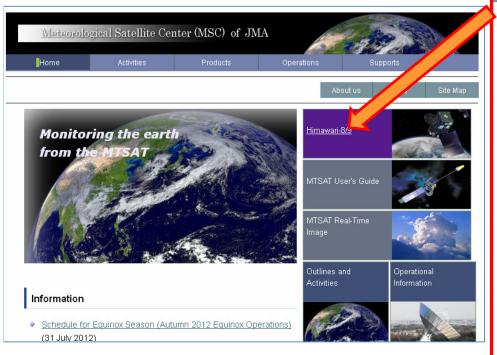
Channels of the Advanced Himawari Imager (AHI) Central Wavelength Spatial Channel $[\mu m]$ Resolution 0.43 - 0.481 km 1 **RGB Composited** 2 0.50 - 0.521 km **True Color Image** 0.63 - 0.660.5 km 3 1 km 0.85 - 0.874 1.60 - 1.622 km 2.25 - 2.272 km 6 3.74 - 3.962 km 7 6.06 - 6.432 km 8 Water 9 6.89 - 7.012 km **Vapor** Full disk 7.26 - 7.432 km 10 Interval: 10 minutes (6 times per hour) SO₂ 8.44 - 8.762 km 11 Region: Japan **O**3 9.54 - 9.722 km 12 Interval: 2.5 minutes (4 times in 10 minutes) 10.3 - 10.613 2 km Dimension: EW x NS: 2000 x 1000 km x 2 **Atmospheric** 11.1 - 11.32 km 14 **Windows Region: Typhoon** 12.2 - 12.515 2 km Interval: **2.5 minutes** (4 times in 10 minutes) Dimension: EW x NS: 1000 x 1000 km CO₂ 16 13.2 - 13.42 km

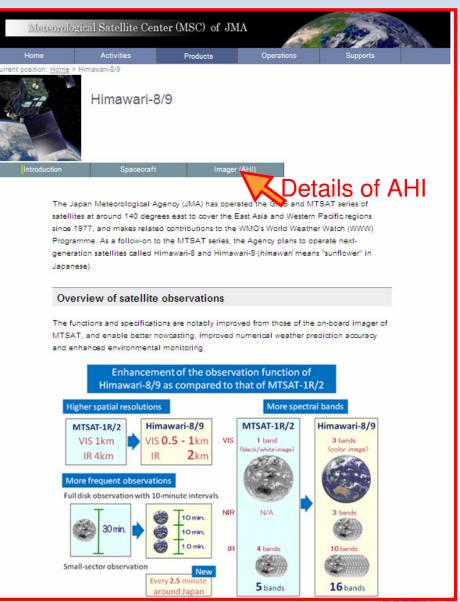
Number of Channels: 5 16

Interval: 30/60 min. 10min.

MSC Web Page for Himawari-8/9 Information

MSC website top page http://mscweb.kishou.go.jp/



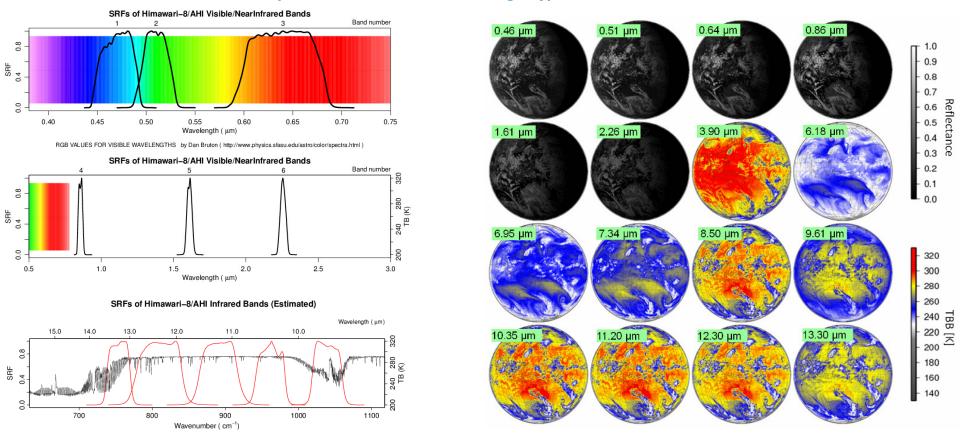


Himawari-8/9: Technical Information

To support research and development of products based on Himawari-8/9,

- Estimated Spectral Response Functions (SRFs) of AHI are available on JMA website.
- Simulation data generated using a radiative transfer model are also available on JMA

http://mscweb.kishou.go.ye.hsitewari89/



Development of products of Himawari-8/9 AHI

Higher resolution

Horizontal:

1km -> 0.5km for a VIS channel

4km -> 2 km for IR channels

Temporal:

1 hr -> 10 min for a full disk scan

2.5min for limited areas

Increased observation channels

VIS: 1 -> 3 bands

IR: 4 -> 13 bands

Examples of expected new/enhanced products

- Atmospheric Motion Vectors (AMVs)
- Volcanic Ash (VA) / Aerosol
- Global Instability Index

Severe weather monitoring/nowcasting

Numerical prediction

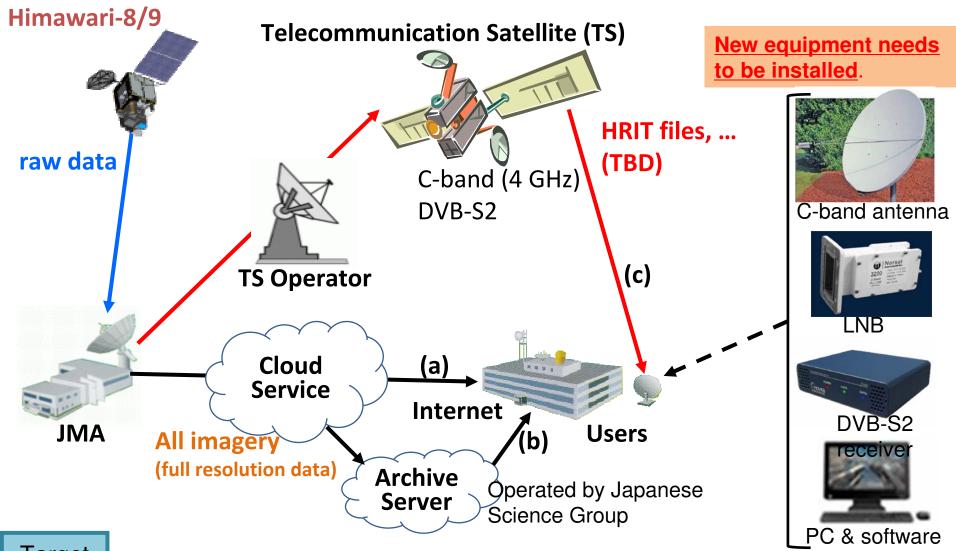
Climate change monitoring

Yellow sand/ dust storm

Volcano eruption Ash area detection

Solar energy monitoring

Himawari-8/9: Data Distribution/Dissemination

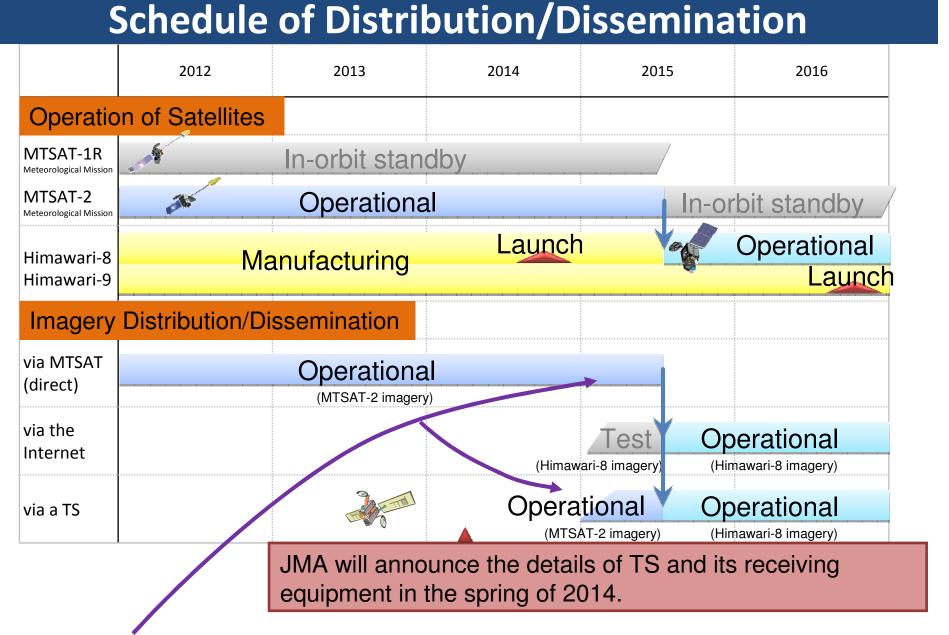


Target

(a) Cloud Service: National Meteorological and Hydrological Services

(b) Archive Server: Researchers

(c) <u>TS</u>: Everyone in the East Asia and Western Pacific regions



Parallel dissemination is planned for <u>users' smooth transitions</u> to the receipt of imagery via a TS.



Thank You for your attention.

