

JMA and JAXA



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1:JMA, 2:JAXA

JMA

Current Status

- MTSAT-2 (Himawari-7) Status: Imaging operation at 145E since 03 UTC, 1 July 2010
 Launch Date: 18 February 2006
 MTSAT-1R (Himawari-6) AHI Sectored Observations in 10 Minutes Status: Imaging operation standby at 140E, direct broadcast and DCS operations
 Launch Date: 26 February 2005 Future Plans Himawari -8 and -9 satellites Plan to launch in 2014 and 2016, and start operation in 2015 and 2022
 AHI (Advanced Himawari Imager)
 Increase channels, spatial resolution and measurement frequency => improve current products and create new products
 AMV, CSR, CGI, SST, now casting,,,
 Volcanic ash detection and height, and Instability Index Ground stations
 - Two redundant stations for mitigation of rain attenuation
 Satellite control, imagery and DCP data correction.
 Ka-band : imagery and DCP data downlink

 - Dis



Full disk Interval : 10 minutes (6 times per hour), 23 swath Region 1 JAPAN (North-East) Interval : 2.5 minutes (4 times in 10minutes EW x NS: 2000 x 1000 km, 2 swath Region 2 JAPAN (South-West) Interval : 2.5 minutes (4 times in 10n EW x NS: 2000 x 1000 km, 2 swath ninutes Region 3 Typhoon Interval : 2.5 minutes (4 times in 10minutes) EW x NS: 1000 x 1000 km, 2 swath Region 4 Land mark Interval : 0.5 minutes (20 times in 10minutes) EW x NS: 1000 x 500 km, 1 swath Region 5 Land mark Interval : 0.5 minutes (20 times in 10minutes) EW x NS: 1000 x 500 km, 1 swath

248 103 50

500 150 57

1000

1050 20 1380 20 1630 200

 T1
 10.8
 0.7
 300
 340

 T2
 12.0
 0.7
 300
 340

AHI Channel Set		
Band	Central Wavelength [µm]	Spatial Resolution
1	0.43 - 0.48	1Km
2	0.50 - 0.52	1Km
3	0.63 - 0.66	0.5Km
4	0.85 - 0.87	1Km
5	1.60 - 1.62	2Km
6	2.25 - 2.27	2Km
7	3.74 - 3.96	2Km
8	6.06 - 6.43	2Km
9	6.89 - 7.01	2Km
10	7.26 - 7.43	2Km
11	8.44 - 8.76	2Km
12	9.54 - 9.72	2Km
13	10.3 - 10.6	2Km
14	11.1- 11.3	2Km
15	12.2 - 12.5	2Km
16	13.2 - 13.4	2Km

interva [km]

L/VAL

GCOM-W1 Flight Model



: 1 m/s

Variable; 6100~7500 Hz

< 0.015 degree d 387 km orbit heigh

oppler accuracy

ulse repetition frequency

ng accuracy *; at 10 km integra