

Himawari Monthly Operations Report

August 2015

1. Special operation events

1.1 Equinox operation

AHI's automatic sun avoidance function is resulting in images with some data missing in midnight during August 2015.

2. Earth observation

2.1 Full disk observation

The regular schedules of full disk observation are 142 times in a day. The following tables show the results of full disk observation and a summary of canceled full disk observation during August 2015.

Results of Himawari-8 full disk observation

| | Full disk observation | Remarks |
|------------------|-----------------------|---------|
| Scheduled | 4464 | |
| Performed | 4464 | |
| Performance in % | 100.00 | |

Summary of canceled Himawari-8 full disk observation

| Date | Full disk observation | Reasons |
|------|-----------------------|---------|
| | None | |

2.2 Japan area observation

The regular schedules of Japan area observation are 576 times in a day. The following tables show the results of Japan area observation and a summary of canceled Japan area observation during August 2015.

Results of Himawari-8 Japan area observation

| | Japan area observation | Remarks |
|------------------|------------------------|---------|
| Scheduled | 17856 | |
| Performed | 17856 | |
| Performance in % | 100.00 | |

Summary of canceled Himawari-8 Japan area observation

| Date | Japan area observation | Reasons |
|------|------------------------|---------|
| | None | |

2.3 Target area observation

The regular schedules of Target area observation are 576 times in a day. The area is flexibly selected to enable prompt reaction to meteorological conditions.

The regular schedules of Target area observation are 576 times in a day. The following tables show the results of target area observation and a summary of canceled target area observation during August 2015.

Results of Himawari-8 Target area observation

| | Target area observation | Remarks |
|------------------|-------------------------|---------|
| Scheduled | 17856 | |
| Performed | 17856 | |
| Performance in % | 100.00 | |

Summary of canceled Himawari-8 Target area observation

| Date | Target area observation | Reasons |
|------|-------------------------|---------|
| | None | |

3. Data Collection System

3.1 International Data Collection System (IDCS)

The following table shows the status of reception and dissemination of International Data Collection Platform (IDCP) messages that were received in Himawari-8 area of responsibility.

Reception and dissemination of IDCP messages

| IDCP channels | Numbers of IDCPs ^{a)} | Received messages | Error messages ^{b)} | Messages disseminated to the GTS |
|---------------|--------------------------------|-------------------|------------------------------|----------------------------------|
| I12 | 3 | 0 | 0 | 0 |
| I15 | 2 | 0 | 0 | 0 |
| I16 | 4 | 0 | 0 | 0 |
| I20 | 2 | 0 | 0 | 0 |
| Total | 11 | 0 | 0 | 0 |

a) IDCP numbers are those registered in Himawari-DCS as of 1 August 2015.

b) No message, or message unsuitable for WMO codes.

3.2 Interference on IDCP channels

The following table shows interference on Himawari International Data Collection System (IDCS) channels that occurred during August 2015.

Interference on Himawari IDCS Channels (August 2015)

| | | | | | | | | | | | |
|--------------|----|----|----|----|----|----|----|----|----|----|----|
| Channel | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| Interference | | | | | | | | | | | |
| Channel | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| Interference | H | | W | | | | | | | W | |
| Channel | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 |
| Interference | | | | | | | | | | | H |

Note - W: weak interference / H: harmful interference

4. Satellite system status

4.1 Satellite status

Himawari-8

Location: 140.7 east longitude

Operational : Observation, DCP relay

4.2 Maneuver

- 1) A north-south station-keeping maneuver of Himawari-8
12:30 UTC on 3 August 2015.
- 2) An east-west station-keeping maneuver of Himawari-8
21:10 UTC on 6 August 2015.
- 3) An east-west station-keeping maneuver of Himawari-8
09:10 UTC on 7 August 2015.
- 4) A north-south station-keeping maneuver of Himawari-8
11:30 UTC on 17 August 2015.
- 5) An east-west station-keeping maneuver of Himawari-8
07:40 UTC on 20 August 2015.
- 6) An east-west station-keeping maneuver of Himawari-8
19:40 UTC on 20 August 2015.
- 7) A north-south station-keeping maneuver of Himawari-8
10:00 UTC on 31 August 2015.

4.3 Calibration of the visible channel

- 1) 20:50 UTC on 7 August 2015.
- 2) 20:50 UTC on 22 August 2015.

4.4 Orbit information

The following table shows the Two-Line Elements of Himawari-8's orbital elements.

| | | | | | | | |
|---------------------------------------|--------|----------|----------------|-----------|----------|----------|------------------|
| Epoch 00:00:0.00 UTC on 7 August 2015 | | | | | | | |
| 1 | 40267U | 14060A | 15219.00000000 | .00000000 | 00000-0 | 00000-0 | 0 00067 |
| 2 | 40267 | 000.0081 | 067.0177 | 0000782 | 127.2056 | 261.6136 | 01.00271540 3073 |