

Himawari Monthly Operations Report

April 2024

1. Special operation events

There was no special operation of Himawari-9 during April 2024.

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 April 2024.

Results of Himawari-9 full disk observation

| | Full disk observation | Remarks |
|------------------|-----------------------|---------|
| Scheduled | 4252 | |
| Performed | 4252 | |
| Performance in % | 100.00 | |

Summary of canceled Himawari-9 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 April 2024.

Results of Himawari-9 Japan area observation

| | Japan area observation | Remarks |
|------------------|------------------------|---------|
| Scheduled | 17280 | |
| Performed | 17280 | |
| Performance in % | 100.00 | |

Summary of canceled Himawari-9 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 April 2024.

Results of Himawari-9 Target area observation

| | Target area observation | Remarks |
|------------------|-------------------------|---------|
| Scheduled | 17280 | |
| Performed | 17280 | |
| Performance in % | 100.00 | |

Summary of canceled Himawari-9 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-9 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 |
| I23 | 7 | 0 | 0 | 0 |
| I24 | 6 | 721 | 112 | 609 |
| Total | 24 | 901 | 172 | 729 |

a) IDCP numbers are those registered in Himawari-DCS as of 1 April 2024.

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 April 2024.

Interference on Himawari IDCS Channels (April 2024)

| | | | | | | | | | | | |
|--------------|----|----|----|----|----|----|----|----|----|----|----|
| 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 | | | | | | | | | | | |
| Channel | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 |
| Interference | | | | | | | | | | | |

Note - W: weak interference / H: harmful interference

4. Satellite system status

4.1 Satellite status

Himawari-9

Location: 140.7 east longitude

Operational : Observation, DCP relay

4.2 Maneuver.

- 1) A north-south station-keeping maneuver of Himawari-9
19:30 UTC on 8 April 2024.
- 2) An east-west station-keeping maneuver of Himawari-9
17:30 UTC on 11 April 2024.
- 3) An east-west station-keeping maneuver of Himawari-9
05:30 UTC on 12 April 2024.
- 4) A north-south station-keeping maneuver of Himawari-9
18:30 UTC on 22 April 2024.
- 5) An east-west station-keeping maneuver of Himawari-9
21:40 UTC on 25 April 2024
- 6) An east-west station-keeping maneuver of Himawari-9
09:40 UTC on 26 April 2024

4.3 Calibration of the visible channel

- 1) 20:40 UTC on 7 April 2024.
- 2) 20:40 UTC on 22 April 2024.