

# Himawari Monthly Operations Report

## December 2022

### 1. Special operation events

#### 1.1 Switchover of Operational Satellite

Himawari-9 began formal observation operation and took over DCP data relay operation from Himawari-8, as from 05 UTC on 13 December 2022.

### 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 Himawari-8/9 full disk observation and a summary of canceled full disk observation during December 2022.

Results of Himawari-8/9 full disk observation

	Full disk observation	Remarks
Scheduled	4396	
Performed	4396	
Performance in %	100.00	

Summary of canceled Himawari-8/9 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 Himawari-8/9 Japan area observation and a summary of canceled Japan area observation during December 2022.

Results of Himawari-8/9 Japan area observation

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

Summary of canceled Himawari-8/9 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 Himawari-8/9 target area observation and a summary of canceled target area observation during December 2022.

Results of Himawari-8/9 Target area observation

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

Summary of canceled Himawari-8/9 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-8/9 area of responsibility.

Reception and dissemination of IDCP messages

IDCP channels	Numbers of IDCPs <sup>a)</sup>	Received messages	Error messages <sup>b)</sup>	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	2384	361	2023
Total	24	2384	361	2023

a) IDCP numbers are those registered in Himawari-DCS as of 1 December 2022.

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 December 2022.

Interference on Himawari IDCS Channels (December 2022)

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						W					
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-8/9

Location: 140.7 east longitude

Operational : Observation, DCP relay

##### 4.2 Maneuver.

- 1) An east-west station-keeping maneuver of Himawari-8  
07:10 UTC on 1 December 2022.
- 2) An east-west station-keeping maneuver of Himawari-8  
19:10 UTC on 1 December 2022.
- 3) A north-south station-keeping maneuver of Himawari-8  
03:40 UTC on 12 December 2022.
- 4) A north-south station-keeping maneuver of Himawari-9  
03:00 UTC on 19 December 2022.
- 5) An east-west station-keeping maneuver of Himawari-9  
19:00 UTC on 22 December 2022.
- 6) An east-west station-keeping maneuver of Himawari-9  
07:00 UTC on 23 December 2022.

##### 4.3 Calibration of the visible channel

- 1) 20:30 UTC on 7 December 2022. (Himawari-8)
- 2) 20:40 UTC on 22 December 2022. (Himawari-9)