WORLD METEOROLOGICAL ORGANIZATION

CBS LEAD CENTRES FOR GCOS

REPORT OF THE REGION IV CENTRE FOR GCOS

Submitted by: Bryant Korzeniewski, Heather Vance, Byron Gleason, and Nicholas Risavi

National Oceanic and Atmospheric Administration

November 5, 2026

Original: ENGLISH

SUMMARY AND PURPOSE OF DOCUMENT

The document provides a summary of activities of the Region IV Lead Centre / NOAA for 2026.

DISCUSSION

Background

The National Oceanic and Atmospheric Administration (NOAA) operates as both the GCOS Lead Center for Region IV and the Global Archive and Analysis Center. Spanning from the Canadian Arctic to the equator, Region IV encompasses three major nations (the United States, Canada, and Mexico) that account for over 75% of the surface-based observing stations in the region. It also includes numerous smaller countries and island territories that supply vital weather and climate data across the area. Because so many small nations are involved, ongoing coordination and active support remain critical to maintaining a healthy regional network. A status review of the surface-based global observing system for GSN and GUAN networks is contained in this report.

For comprehensive summaries and statistics, please visit the NOAA website:

https://www.ncei.noaa.gov/pub/data/gcos/

Recent Challenges

Over the past two years, the NOAA CLIMAT/GCOS processing system has faced significant impacts from multiple ingest degradations and other outside factors.

In September 2024, Hurricane Helene brought widespread devastation to the area where the headquarters and primary data center of NOAA's environmental archive is located in Asheville, North Carolina. The office endured extended closures and many employees were displaced. From 2025 to 2026, large numbers of NOAA personnel left government service, causing changes to the NOAA team that supports GCOS. Also during this period, NOAA has also undergone several large information technology infrastructure changes and the Integrated Surface Database reached end of life, replaced by a new data product Global Historical Climatology Network-hourly (GHCNh).

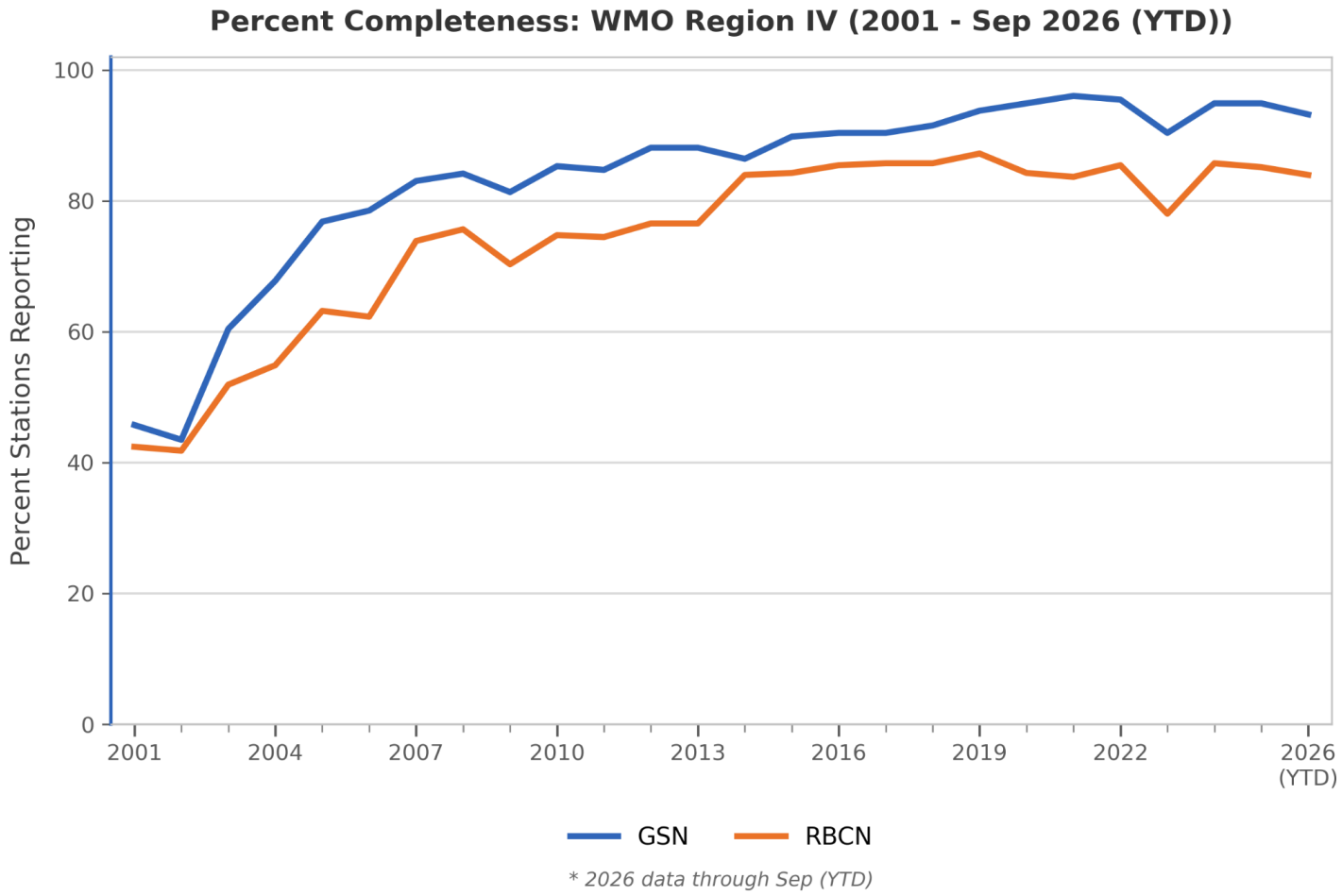
Despite all of this, our talented team has worked hard to overcome the difficulties. The CLIMAT processing codebase has been updated to incorporate the DWD CLIMAT repository as a backup to our internal MCDW database, many software issues have been addressed, and the GHCNh dataset developers have expanded the inclusion of international networks.

Interactions

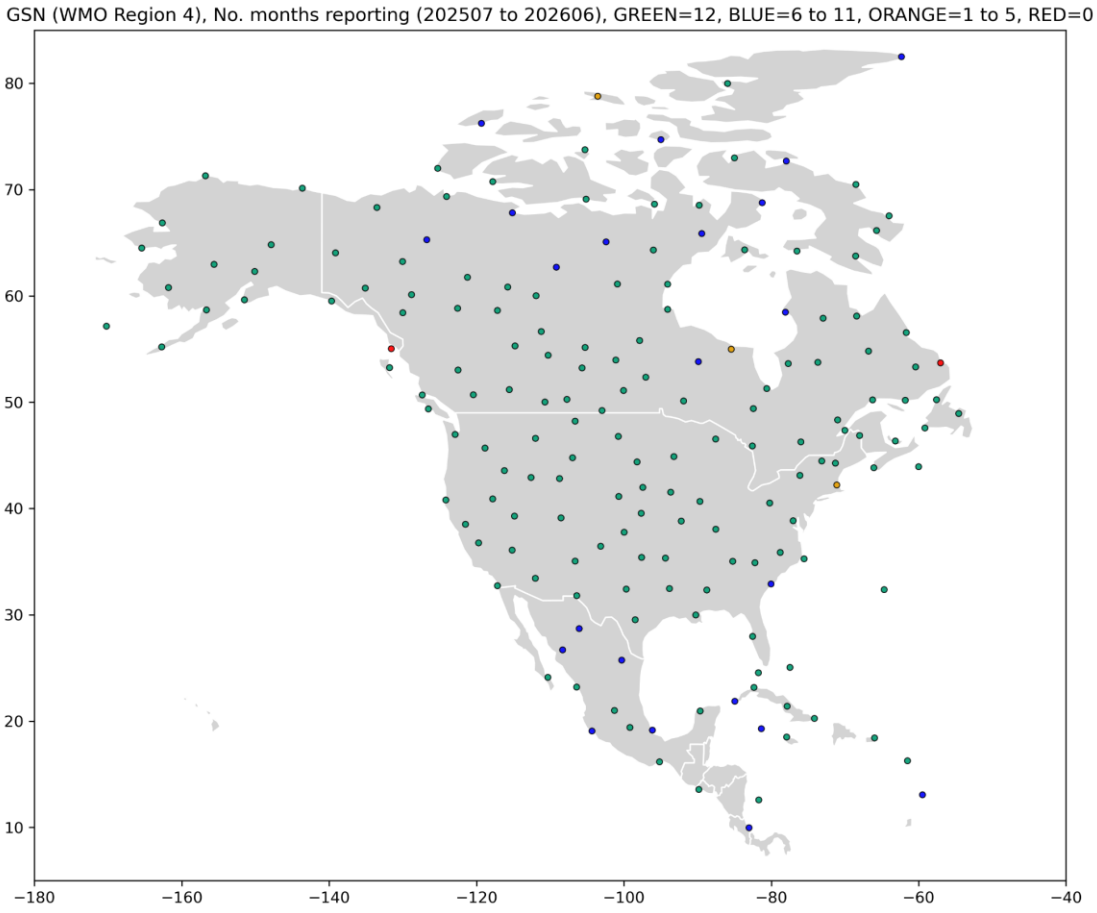
NOAA logged over forty interactions year to date in support of GCOS program activities. Many of these actions are outreach to stations that are in non-received status globally for GUAN and within Region IV for CLIMAT. In addition to this, monthly reports are sent out.

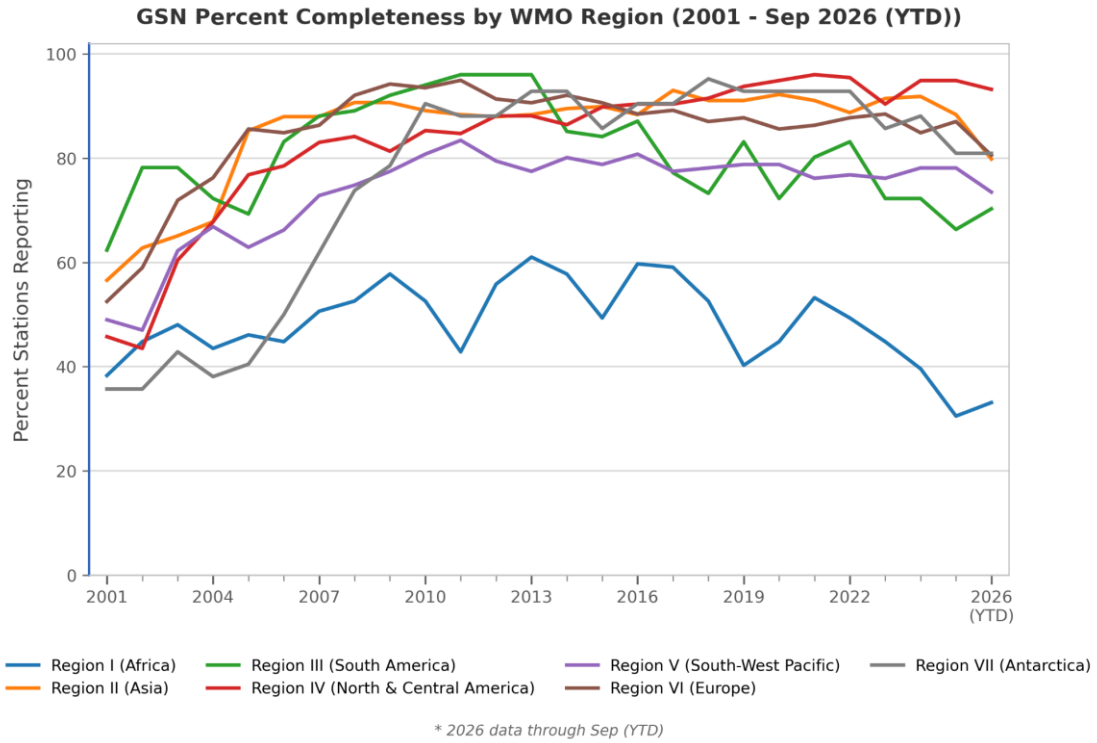
RBCN and GSN Performance, Region IV

Over recent years, data completeness across WMO Region IV surface networks has remained high and stable within the GCOS framework. A brief, minor decline occurred in 2023 primarily because some stations fell just short of the ten-month completeness threshold rather than experiencing prolonged outages. Reporting consistency quickly rebounded.



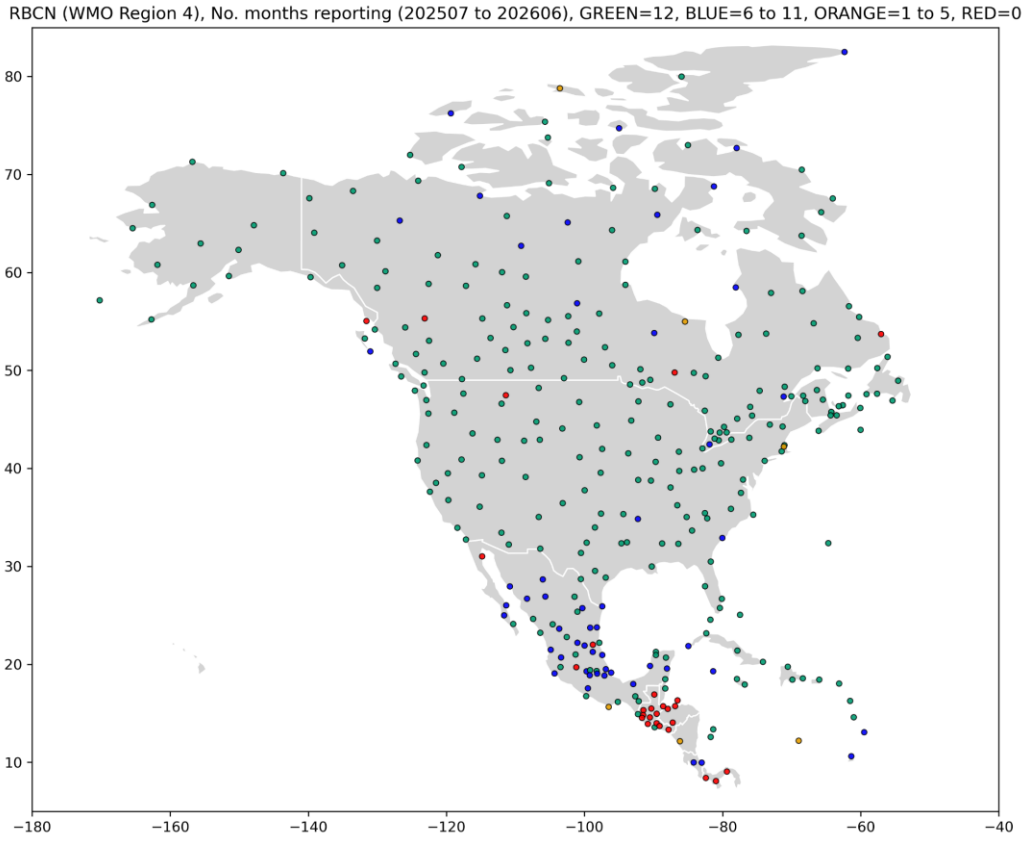
Region IV GSN reporting continues to be consistent, maintaining high completeness. Across North and Central America, the vast majority of stations achieve full year-round reporting. Incomplete or missing data remains limited to a few scattered sites.

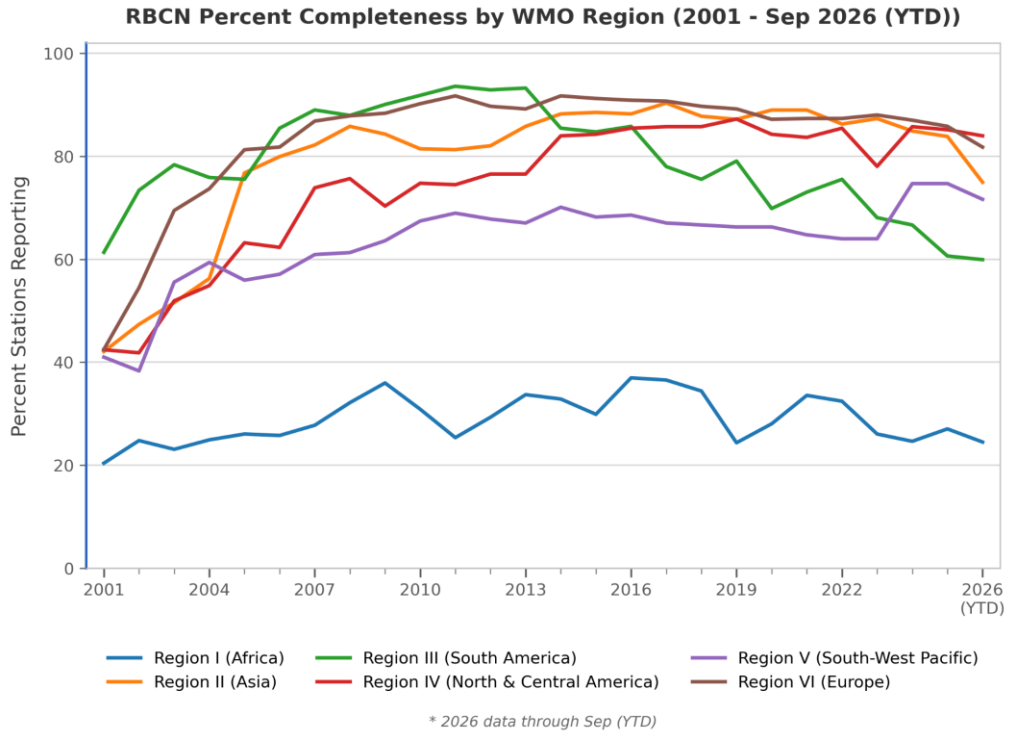




** 2026 data through Sep (YTD)*

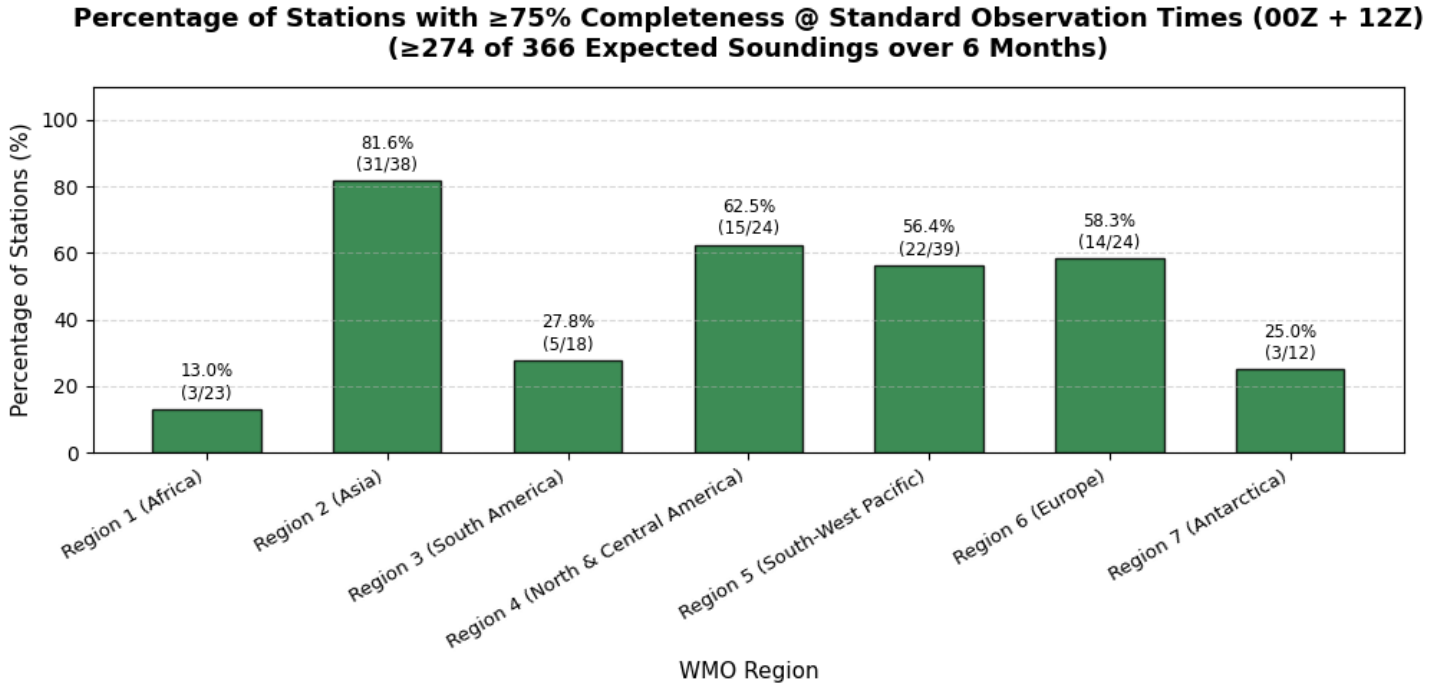
Region IV RBCN reporting remains strong. Across the continent, reporting is reliable throughout the United States and Canada, where most stations log a full twelve months of data. Gaps in coverage are heavily concentrated in Central America.

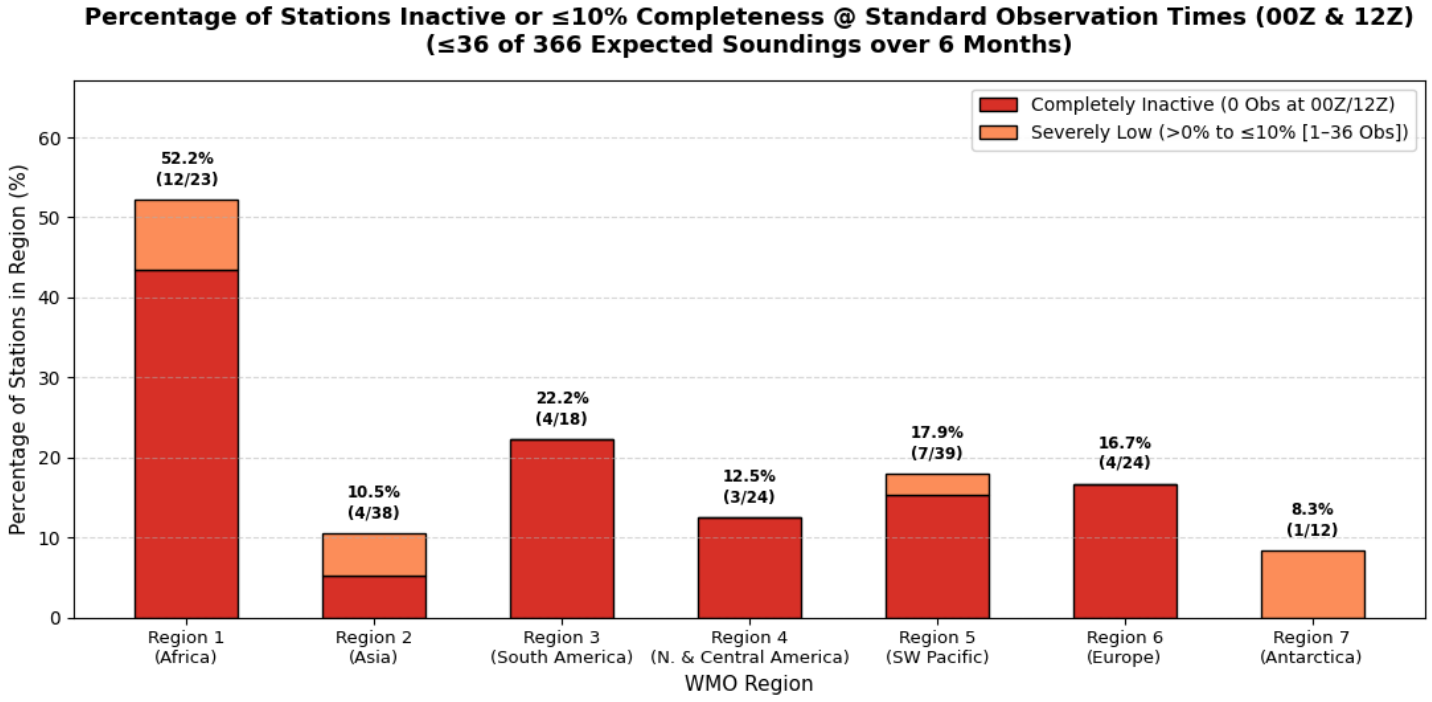




GUAN Performance, Worldwide

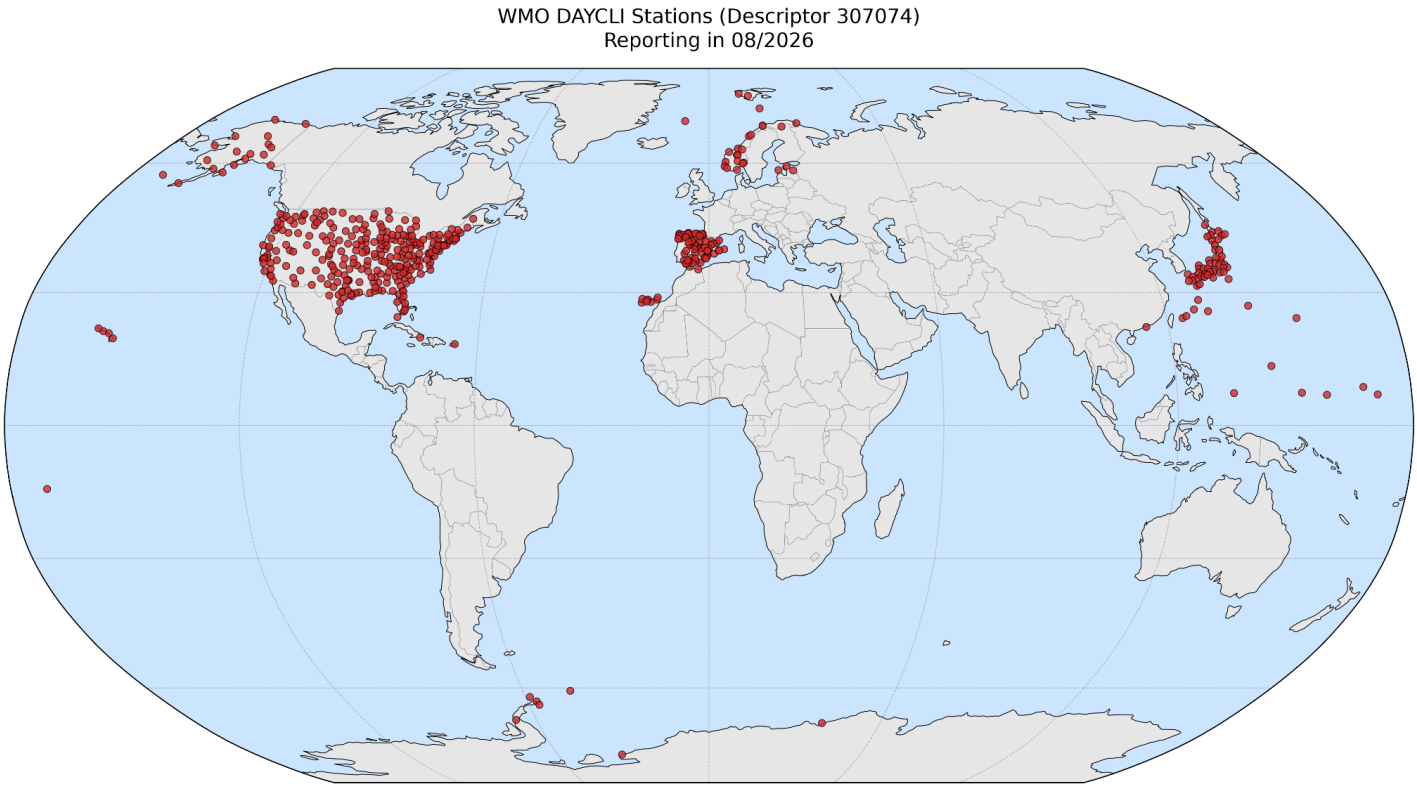
Across all WMO regions (178 stations), roughly 84% of sites reported data during the 6-month period (April–September 2026). Region I experienced the most reporting issues, with roughly 43% of stations completely inactive. Asia, North & Central America, and Antarctica were the regions with the fewest complete outages. The charts below are meant to provide a general overview and focus on the standard sounding times of 00Z and 12Z. These charts do not take into account observations at other hours.





DAYCLI Reporting

One discussion point from previous GCOS meetings included DAYCLI reporting. Below is a map of the DAYCLI messages NOAA received in August of 2026. Messages were received from a limited number of countries.



REPORTING ISSUES

The following tables detail the specific reporting issues documented across Region IV observation sites in 2025 and 2026 year to date.

Global Surface Network 2026 YTD (GSN)

Data-Months	WMO #	Station Name	Country	Findings
8/2026	78384	OWEN ROBERTS	Cayman Islands	No reply received to date from GCOS Focal Point
7/2026	71365	Fort Simpson Climate	Canada	Station closed temporarily for wildfires
7/2026	76405	La Paz, BCS	Mexico	No reply received to date from GCOS Focal Point
7/2026	80001	SAN ANDRES S	Colombia	No reply received to date from GCOS Focal Point
6/2026	71018	RESOLUTE CS,	Canada	Equipment Issues
6/2026-Present	71049	WAGER BAY (A	Canada	Equipment Issues
6/2026-Present	71332	KUGLUKTUK CL	Canada	Equipment Issues
6/2026	71480	NORMAN WELLS	Canada	Equipment Issues
1/2026-Present	74492	BLUE HILL OB	USA	Communications Issue
1/2026	72208	CHARLESTON/M	USA	Communications Issue

Global Surface Network 2025 (GSN)

Data-Months	WMO #	Station Name	Country	Findings
2/2025	78526	SAN JUAN/INT	USA (Puerto Rico)	No reply received to date from GCOS Focal Point
1/2025	71923	ENNADAI LAKE	Canada	Communications Issue
12/2024-Present	71989	Mould Bay, CS	Canada	Equipment Issue
10/2024-Present	71818	CARTWRIGHT/	Canada	Station Closed
10/2024-Present	78325	Casa Blanca	Cuba	No reply received to date from GCOS Focal Point
10/2024-Present	78355	Camaguey	Cuba	No reply received to date from GCOS Focal Point
10/2024-Present	78369	Punta De Mai	Cuba	No reply received to date from GCOS Focal Point
7/2024-Present	71907	INUKJUAK A/	CANADA	Equipment Issue
7/2024-Present	78310	Cabo San Ant	Cuba	No reply received to date from GCOS Focal Point
7/2024-Present	78767	PUERTO LIMON	Costa Rica	Data Received
2/2024-Present	71208	BIG TROUT LA	Canada	Communications Issue
11/2023-Present	71160	Fort Reliance	Canada	Communications Issue
11/2023-Present	73026	Port aux Basques	Canada	Communications Issue
9/2023-Present	71074	Isachsen (AUT)	Canada	Equipment Issue
8/2023-Present	71823	LA GRANDE IV	Canada	Station Closed Due to Fires
7/2023-Present	70086	Barter Island,	USA	Equipment Issue

		Alaska		
7/2023-Present	71827	LA GRANDE RI	Canada	Communications Issue
6/2023-Present	71592	Arctic Bay C	Canada	Equipment Issue
4/2023-Present	76680	MEXICO (CENT	Mexico	No reply received to date from GCOS Focal Point
4/2023-Present	76225	CHIHUAHUA	Mexico	No reply received to date from GCOS Focal Point
4/2023-Present	76311	CHOIX, SIN.	Mexico	No reply received to date from GCOS Focal Point
4/2023-Present	76393	MONTERREY, N	Mexico	No reply received to date from GCOS Focal Point
4/2023-Present	76458	COLONIA JUAN	Mexico	No reply received to date from GCOS Focal Point
4/2023-Present	76654	MANZANILLO	Mexico	No reply received to date from GCOS Focal Point
4/2023-Present	76644	AEROP.INTERN	Mexico	No reply received to date from GCOS Focal Point
4/2023-Present	76577	GUANAJUATO	Mexico	No reply received to date from GCOS Focal Point
3/2023-Present	78650	ACAJUTLA	El Salvador	No reply received to date from GCOS Focal Point
3/2023-Present	78954	Grantley Adams	Barbados	No reply received to date from GCOS Focal Point
2/2023-Present	71826	Pangnirtung	Canada	Equipment Issue
8/2022-Present	71665	NAIN	Canada	Communications Issue
9/2021-Present	76833	Salina Cruz	Mexico	Communications Issue
12/2019-Present	71818	CARTWRIGHT/	Canada	Communications Issue

8/2019-Present	78016	Bermuda NAS	Bermuda	No reply received to date from GCOS Focal Point
8/2019-Present	70398	Annette Island	United States	Communications Issue

Global Upper Air Network 2026 YTD (GUAN)

Data-Months	WMO #	Station Name	Country	Findings
9/2026	87860	Comodoro Rivadavia Aero	Argentina	No reply received to date from GCOS Focal Point
8/2026	85586	SANTO DOMINGO	Chile	No reply received to date from GCOS Focal Point
7/1/2026-Present	89055	Base Marambio	Argentina	No reply received to date from GCOS Focal Point
6/2026	62414	ASSWAN	Egypt	No reply received to date from GCOS Focal Point
4/1/2026-Present	41217	ABU DHABI INTERNATIONAL AIRPORT	UAE	Station Closed temporarily

Global Upper Air Network 2025 (GUAN)

Data-Months	WMO #	Station Name	Country	Findings
12/1/2025-Present	94120	DARWIN AIRPORT	Australia	Station Closed
12/1/2025-Present	63985	SEYCHELLES INTER. AIRPORT	Seychelles	Equipment Issue
11/1/2025-Present	63741	DAGORETTI CORNER	Kenya	No reply received to date from GCOS Focal Point
11/1/2025-Present	14430	ZADAR RS	Croatia	No reply received to date from GCOS Focal Point
10/1/2025-Present	78583	BELIZE/PHILLIP GOLDSTON INTL.	Belize	No email contact per WMO Country Profile Database or via previous email correspondences.
9/1/2025-Present	70308	ST. PAUL ISLANDS	USA	No reply received to date from GCOS Focal Point
8/2025	23921	Ivdel	Russia	Didn't email Russia Met. Service due to current conflicts between Russia and Ukraine and possible communications embargo between U.S. and Russia
5/1/2025-Present	17130	ANKARA/CENTRAL	Turkey	Communications Issue
4/1/2025-Present	65578	Abidjan	Côte d'Ivoire	No reply received to date from GCOS Focal Point
4/1/2025-Present	87582	AEROPARQUE AERO	Argentina	Station Closed
2/2025	63985	SEYCHELLES INTER. AIRPORT	Seychelles	No reply received to date from GCOS Focal Point
2/2025	15614	SOFIA (OBSERV.)	Bulgaria	Equipment Issue
9/1/2024-Present	94975	Hobart Airport	Australia	No reply received to date from GCOS Focal Point
6/1/2024-Present	91938	Tahiti-Faaa	French Polynesia	No reply received to date from GCOS Focal Point

6/1/2024-Present	91925	Hiva-Oa	French Polynesia	No reply received to date from GCOS Focal Point
6/1/2024-Present	91592	NOUMEA (NLLE-CALEDONIE)	New Caledonia	No reply received to date from GCOS Focal Point
6/1/2024-Present	81405	Cayenne Matoury	French Guiana	No reply received to date from GCOS Focal Point
6/1/2024-Present	61998	Port-Aux-Francais	Kerguelen Islands	No reply received to date from GCOS Focal Point
6/1/2024-Present	61980	Saint-Denis/Gillot	Reunion	No reply received to date from GCOS Focal Point
12/1/2023-Present	40265	MAFRAQ	Jordan	No reply received to date from GCOS Focal Point
11/1/2023-Present	91643	FUNAFUTI	Tuvalu	Equipment Issue
10/1/2023-Present	40745	MASHHAD	Iran	Didn't email Iran Met. Service due to communications embargo between US and Iran.
7/1/2023-Present	68110	Windhoek	Namibia	No reply received to date from GCOS Focal Point
4/1/2023-Present	64910	DOUALA R.S.	Cameroon	No reply received to date from GCOS Focal Point
4/1/2023-Present	71836	MOOSONEE UA	Canada	No reply received to date from GCOS Focal Point
3/1/2023-Present	61995	Vacoas	Mauritius	PILOT Observations
3/1/2023-Present	78988	Hato Airport	Curacao	No reply received to date from GCOS Focal Point
3/1/2023-Present	89022	HALLEY	Antarctica	Personnel Issue
2/1/2023-Present	67083	ANTANANARIVO/IVATO	Madagascar	No reply received to date from GCOS Focal Point
2/1/2023-Present	85469	ISLA DE PASCUA	Chile	No reply received to date from GCOS Focal Point

2/1/2023-Present	91610	Tarawa	Kiribati	No reply received to date from GCOS Focal Point
2/1/2023-Present	89002	NEUMAYER	Antarctica	No reply received to date from GCOS Focal Point
12/1/2022-Present	68906	GOUGH ISLAND	Ascension Island	No reply received to date from GCOS Focal Point
12/1/2022-Present	50527	HAILAR	China	No reply received to date from GCOS Focal Point
11/2022-Present	63894	Dar es Salaam	Tanzania	No reply received to date from GCOS Focal Point
11/2022-Present	78954	Grantly Adams IAP, Br	Barbados	Equipment Issue
11/2022-Present	91958	RAPA	French Polynesia	Equipment Issue
8/2022-Present	96315	Brunei AP	Borneo	PILOT Observations
8/2022-Present	30230	Kirensk	Russia	Didn't email Russia Met. Service due to current conflicts between Russia and Ukraine and possible communications embargo between U.S. and Russia
7/2022-Present	93112	Whenuapai	New Zealand	No reply received to date from GCOS Focal Point
6/2022-Present	61660	DAKAR-DIASS-AIBD	Senegal	No reply received to date from GCOS Focal Point
5/2022-Present	33345	KIEV	Ukraine	Very likely out of service due to Ukraine/Russia Conflict that began during the 3/2022 Data-Month
5/2022-Present	87576	Ezeiza Aero	Argentina	Equipment Issue
5/2022-Present	37789	Yerevan	Armenia	Equipment Issue
1/2022-Present	43599	GAN	Maldives	Equipment Issue
11/2021-Present	63450	ADDIS ABABA-BOLE	Ethiopia	No reply received to date from GCOS

				Focal Point
7/2021-Present	48327	CHIANG MAI	Thailand	PILOT Observations during portions of this time
7/2021-Present	78762	JUAN SANTAMARIA INT. AIRPORT	Costa Rica	No reply received to date from GCOS Focal Point
7/2021-Present	11035	Wien/Hohe Warte, AT	Austria	No reply received to date from GCOS Focal Point
2/2021-Present	84628	Lima-Callao/Chavez, Peru	Peru	Equipment Issue
6/2020-Present	68994	MARION ISLAND	SOUTH AFR	Equipment Issue
4/2020-Present	93997	Raoul/Kermadec Is., NZ	New Zealand	Personnel Issue