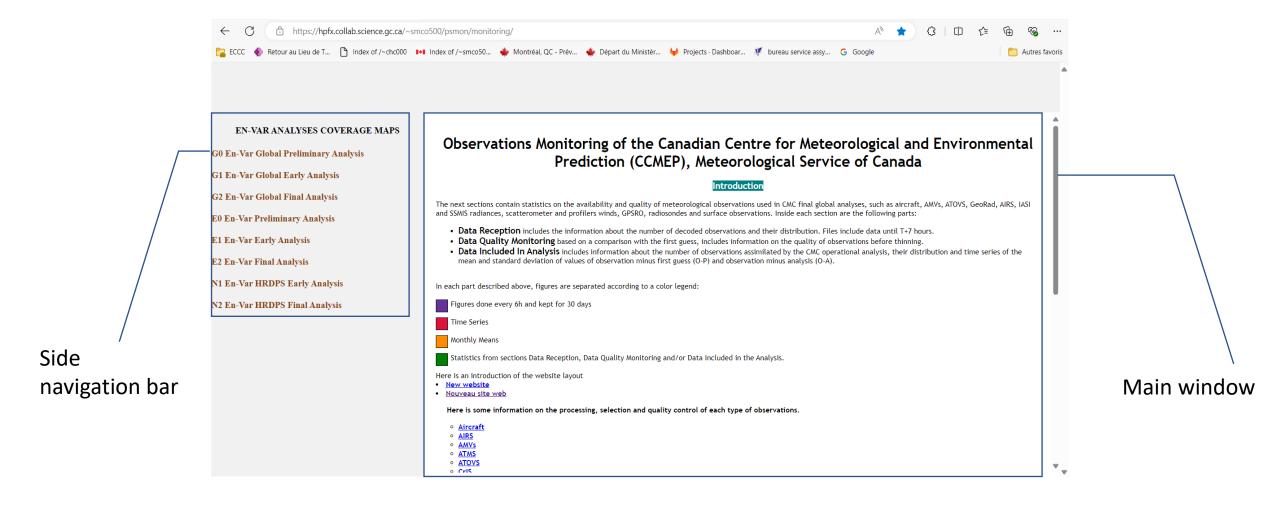


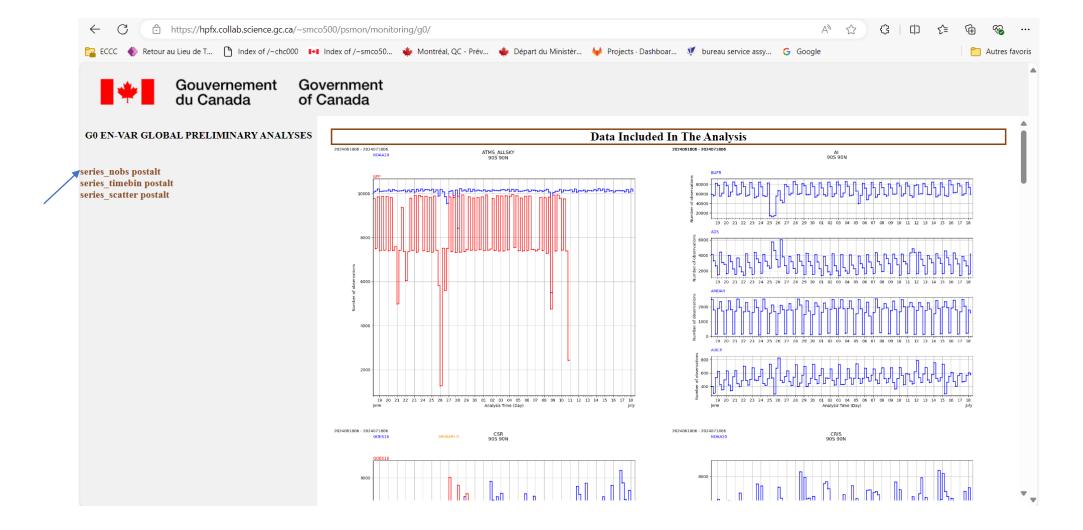
Overview

- This site provides information on the quality and availability of various types of observed meteorological data for use in the CMC's global, regional and national assimilation system.
- https://hpfx.collab.science.gc.ca/~smco500/psmon/monitoring/

Overview of the new website



Example for G0 G1 E0 E1 N1 N2 Time series of the number of observations (series_nobs) All observation families are on the same page.

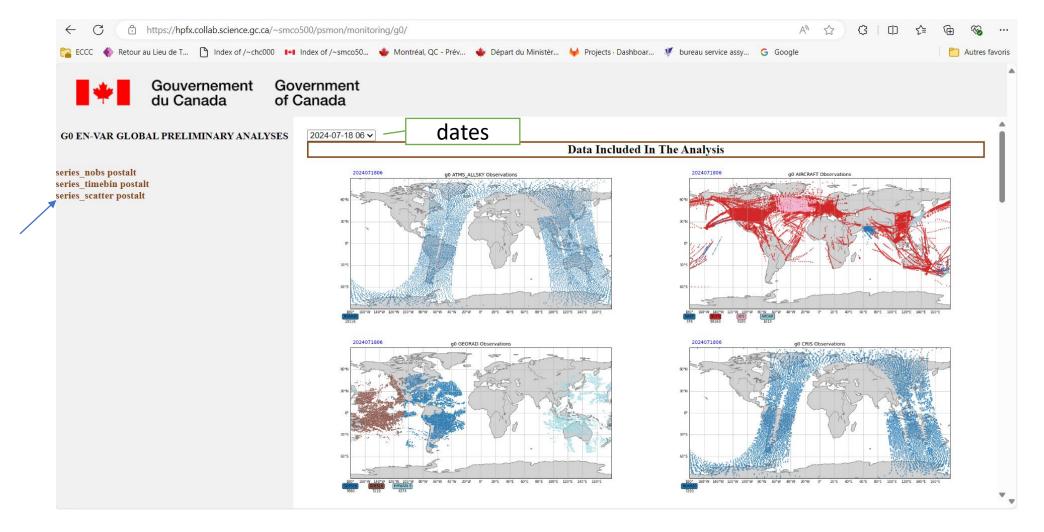


Example for G0 G1 E0 E1 N1 N2 Figures of the number of observations by time bins (series_timebin)

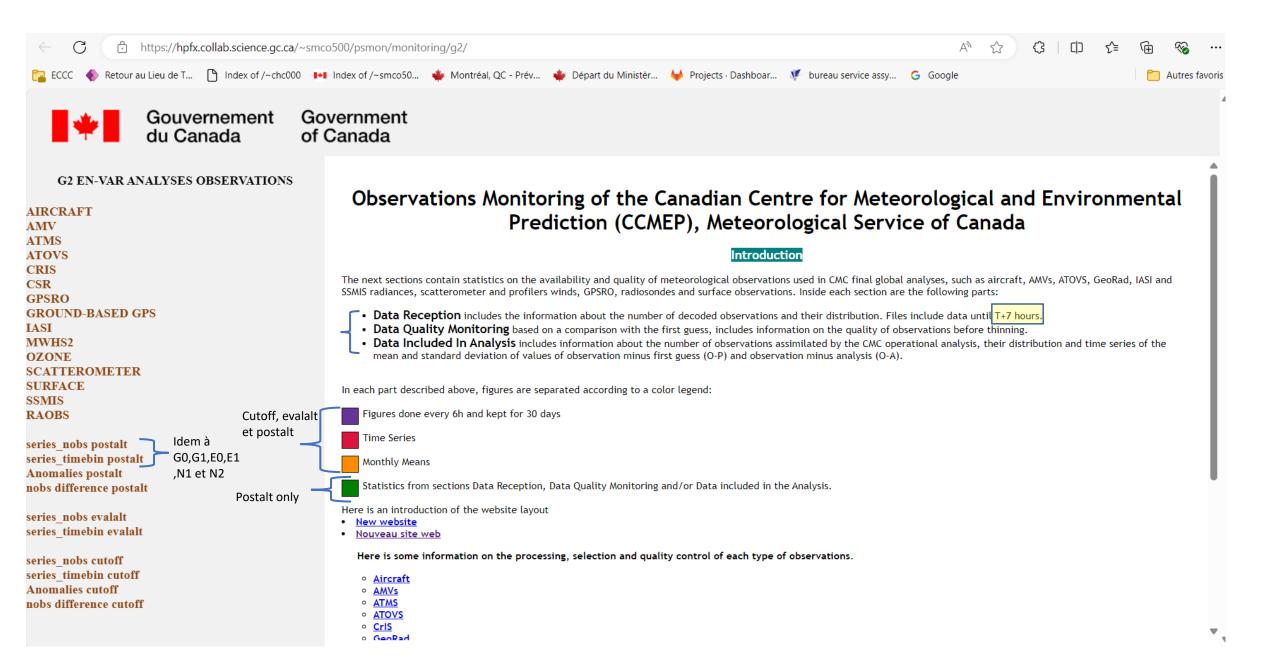
All observation families are on the same page.



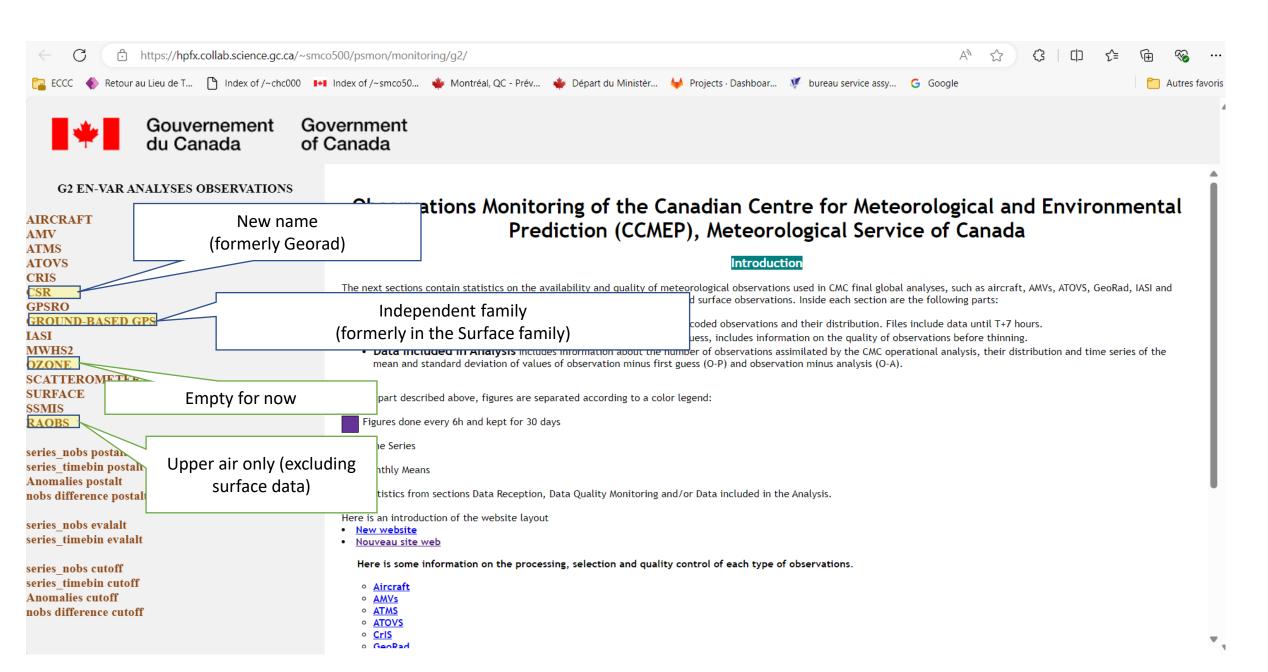
Example for G0 G1 E0 E1 N1 N2 Geographic Distribution Maps (series_scatter) All observation families are on the same page.



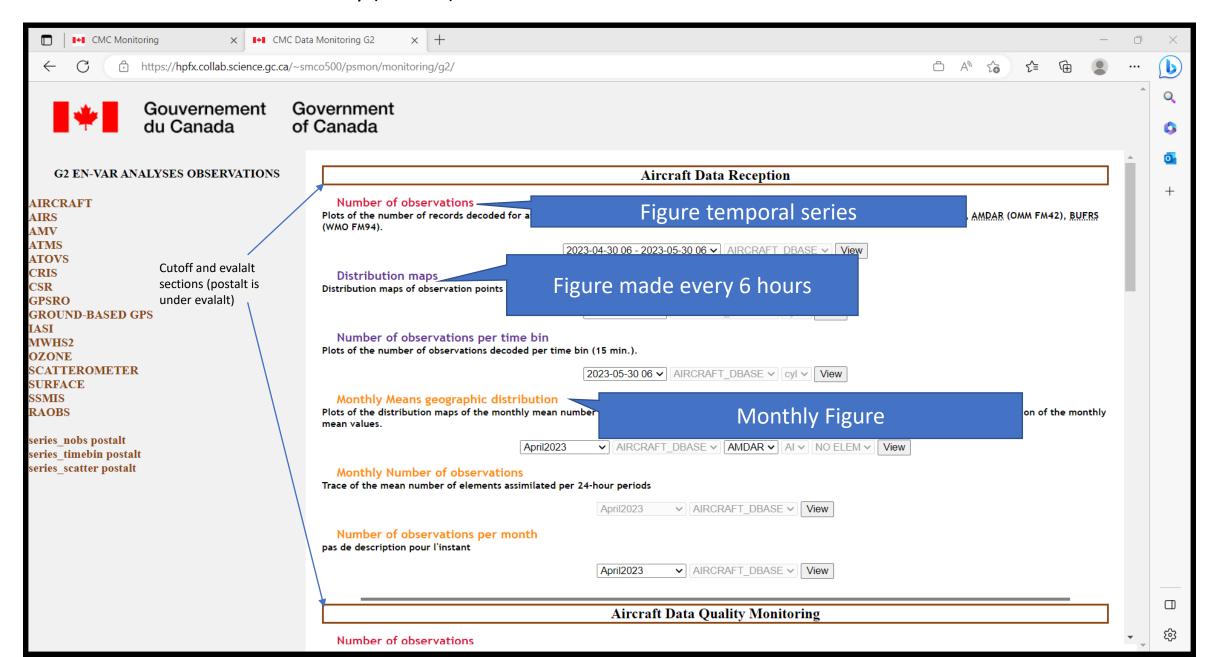
Example G2: Home Page



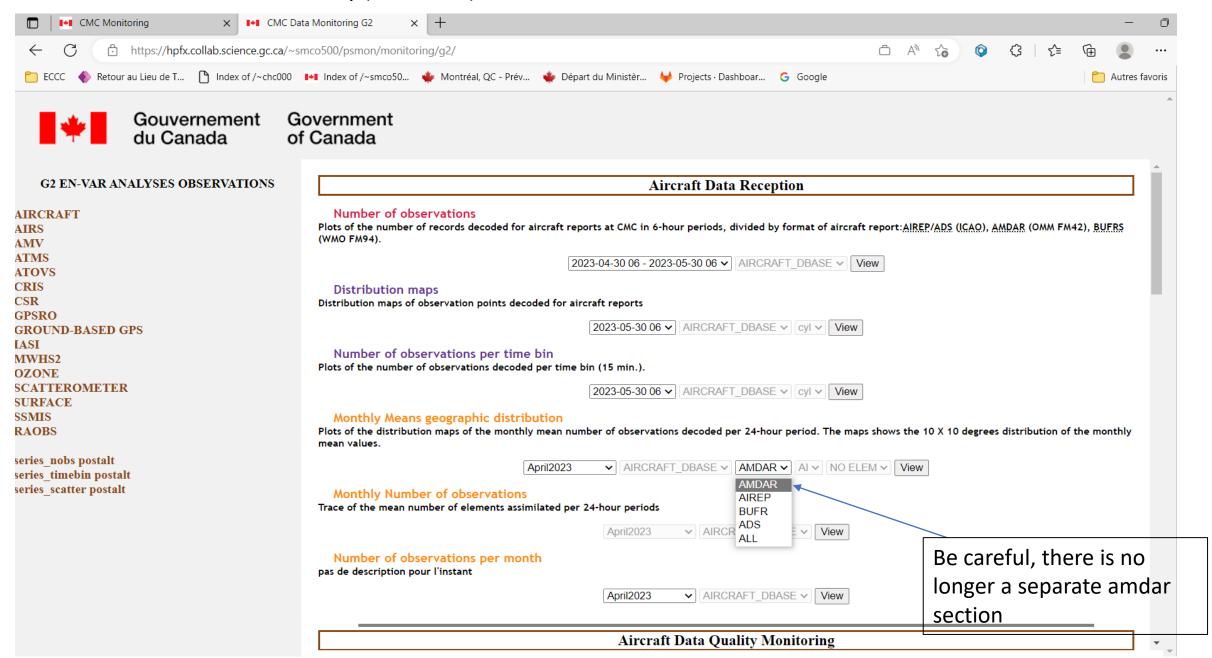
Example G2: Home Page (continued)



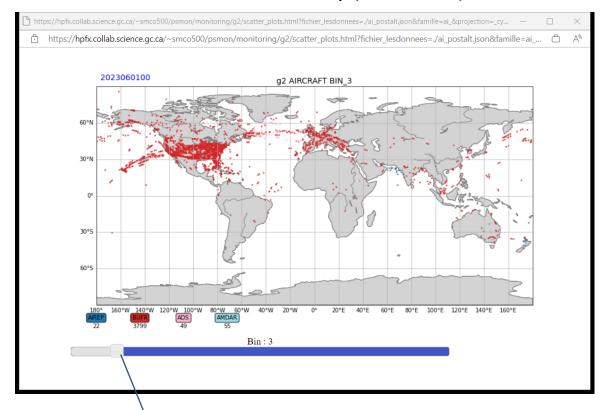
Overview of an observation family (aircraft)



Overview of an observation family (continued)



Overview of an observation family (continued)

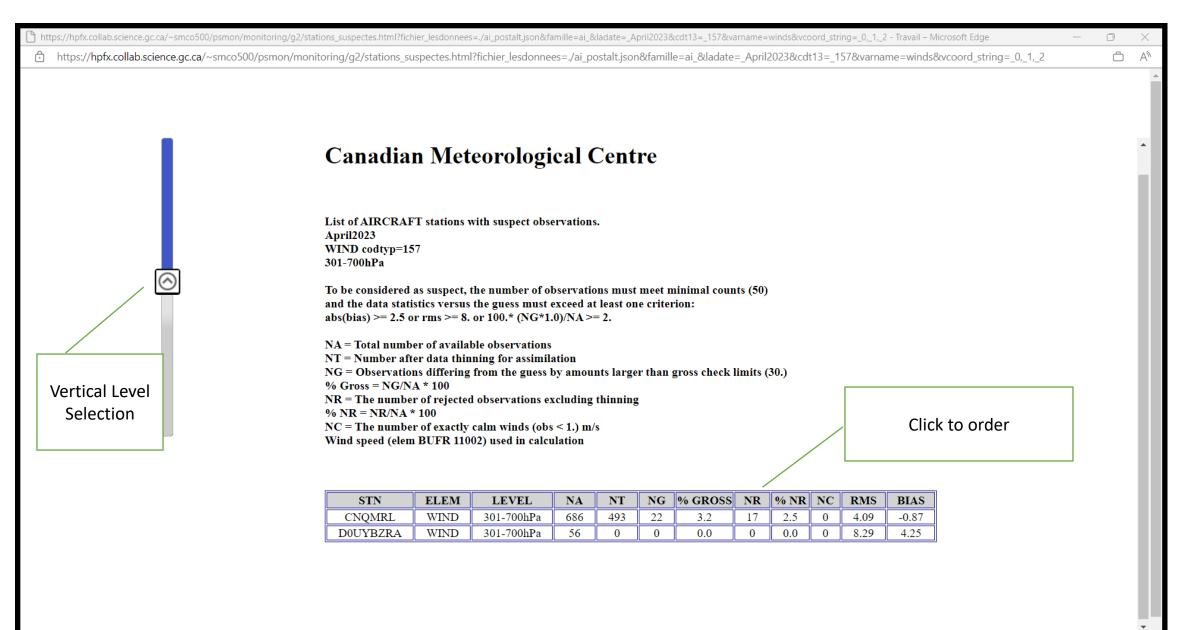


Selection of the time bin by the horizontal cursor

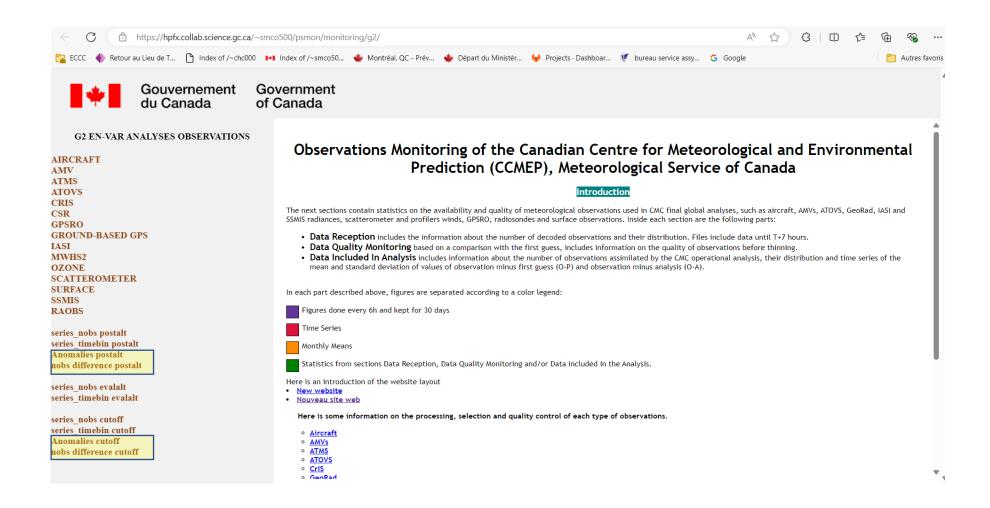
Vertical Level Selection by the Vertical Slider



Overview of an html table

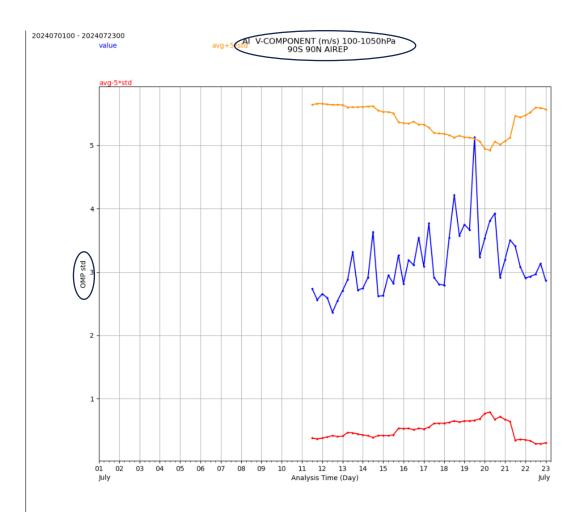


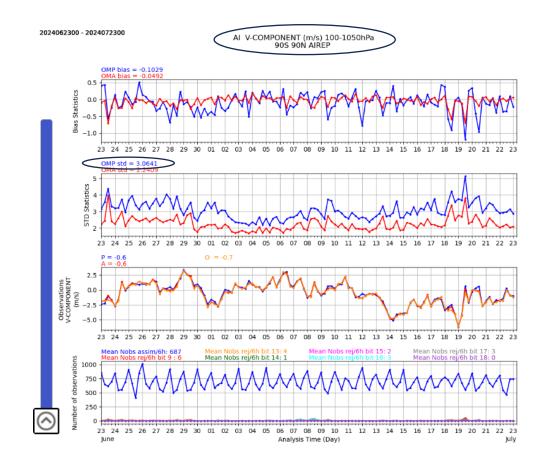
Anomaly Section (G2 only)



Figures Anomalies postalt, cutoff

The calculation of anomalies comes from the figures O-P and O-A Statistics and Number of observations





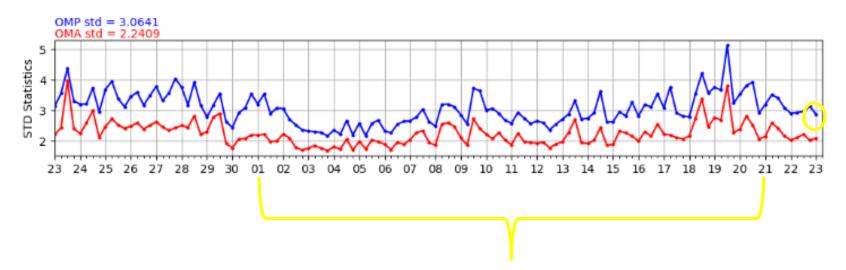
VCOORD: 100-1050hPa

The limits are calculated by the mean plus or minus 5 times the standard deviation over a period from t-22 days to t-2 days. This method comes from https://www.ecmwf.int/sites/default/files/elibrary/2014/17338-automatic-checking-observations-ecmwf.pdf

To produce the mean and standard deviation, a minimum of 10 data points are required over the 20 days used (80 cases) for the calculation. For some families, missing data (ai and ua) are not checked.



Anomaly Figure Zoom



Mean and standard deviation are calculated over this period.

The orange and red curves are respectively mean +/- (5 * standard deviation)

Nobs difference postalt et cutoff

Canadian Meteorological Centre

Avg of nobs profiles per 6h in postalt file. today= date > 2024072206 and date <= 2024072306 yesterday=date > 2024072006 and date <= 2024072106 this week=date > 2024071606 and date <= 2024072306 last week=date > 2024070806 and date <= 2024071506

Difference 1 day = (Today - Yestertay) / Yesterday * 100 Difference 1 week = (This_week - Last_week) / Last_week * 100

FAMILLY	ID_STN	CODTYP	NB PROFILS TODAY	NB PROFILS YESTERDAY	DIFFERENCE 1 DAY (%)	NB PROFILS THIS WEEK	NB PROFILS LAST WEEK	DIFFERENCE 1 WEEK (%)
AI	AI	AMDAR	1527.50	1547.25	-1.28	1665.71	2170.61	-23.26
AI	AI	AIREP	630.50	696.25	-9.44	677.93	697.18	-2.76
AI	AI	BUFR	84733.25	81494.75	3.97	84213.75	83776.11	0.52
AI	AI	ADS	3325.00	3153.00	5.46	3352.54	3822.50	-12.29
AI	ALL	ALL	90216.25	86891.25	3.83	89909.93	90466.39	-0.62
ATMS_ALLSKY	NOAA20	ALL	15212.50	15183.75	0.19	15197.68	15189.71	0.05
ATMS_ALLSKY	NPP	ALL	3705.50	14919.50	-75.16	8325.64	4838.64	72.07
ATMS_ALLSKY	ALL	ALL	18918.00	30103.25	-37.16	23523.32	20028.36	17.45
CRIS	NOAA20	ALL	11535.75	11588.50	-0.46	11486.14	11510.07	-0.21
CRIS	ALL	ALL	11535.75	11588.50	-0.46	11486.14	11510.07	-0.21
CSR	GOES16	ALL	10346.00	9795.75	5.62	10060.39	9603.68	4.76
CSR	GOES18	ALL	8833.00	7992.50	10.52	8333.75	7326.21	13.75
CSR	HMWARI-9	ALL	9208.25	8973.00	2.62	8203.18	8674.18	-5.43
CSR	ALL	ALL	28387.25	26761.25	6.08	26597.32	25604.07	3.88
		GROUND BASED						

Other information

The code for the web page can be found in the branches of the different passes at CMDA_MONITORING / monitoringGraphs · GitLab (science.gc.ca) https://gitlab.science.gc.ca/CMDA_MONITORING/monitoringGraphs

For all requests for changes, (e.g. adding a family, changing the website, etc.) please open a ticket at CMDA_MONITORING / monitoringGraphs · GitLab (science.gc.ca) https://gitlab.science.gc.ca/CMDA_MONITORING/monitoringGraphs