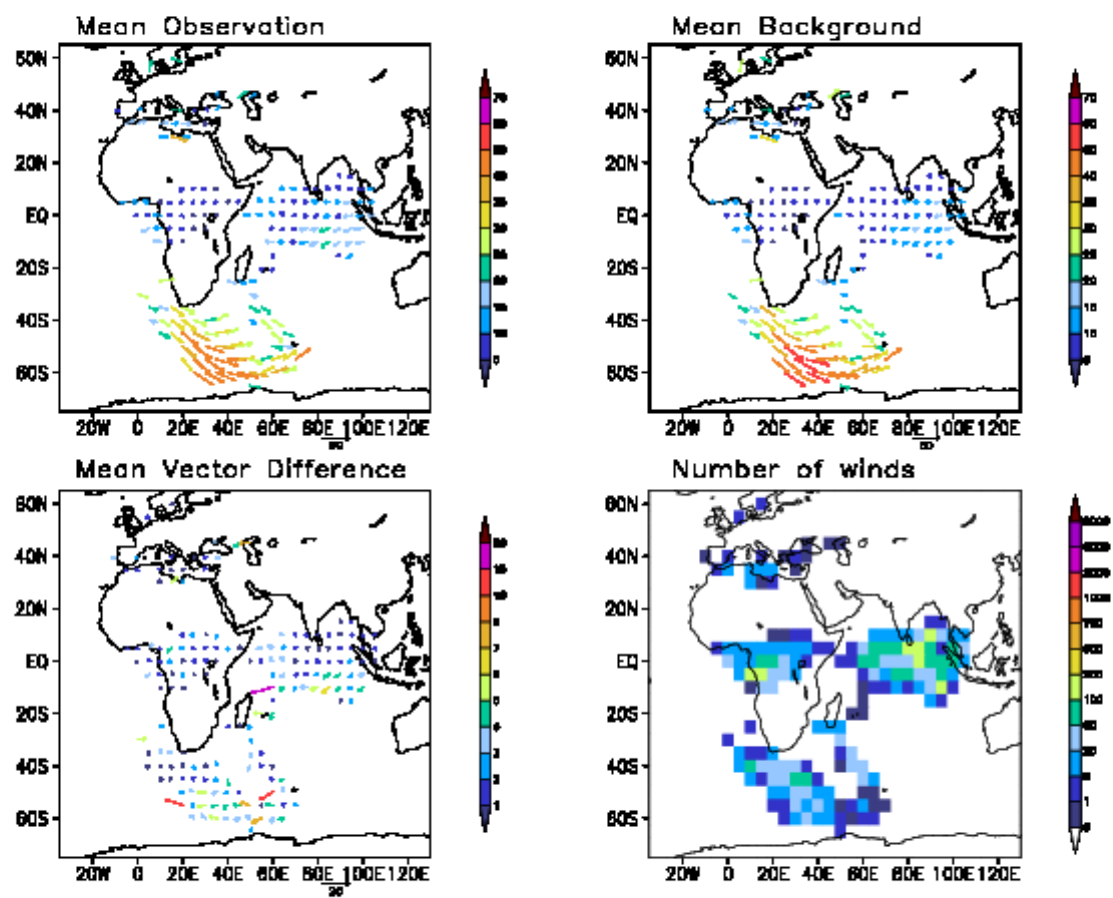


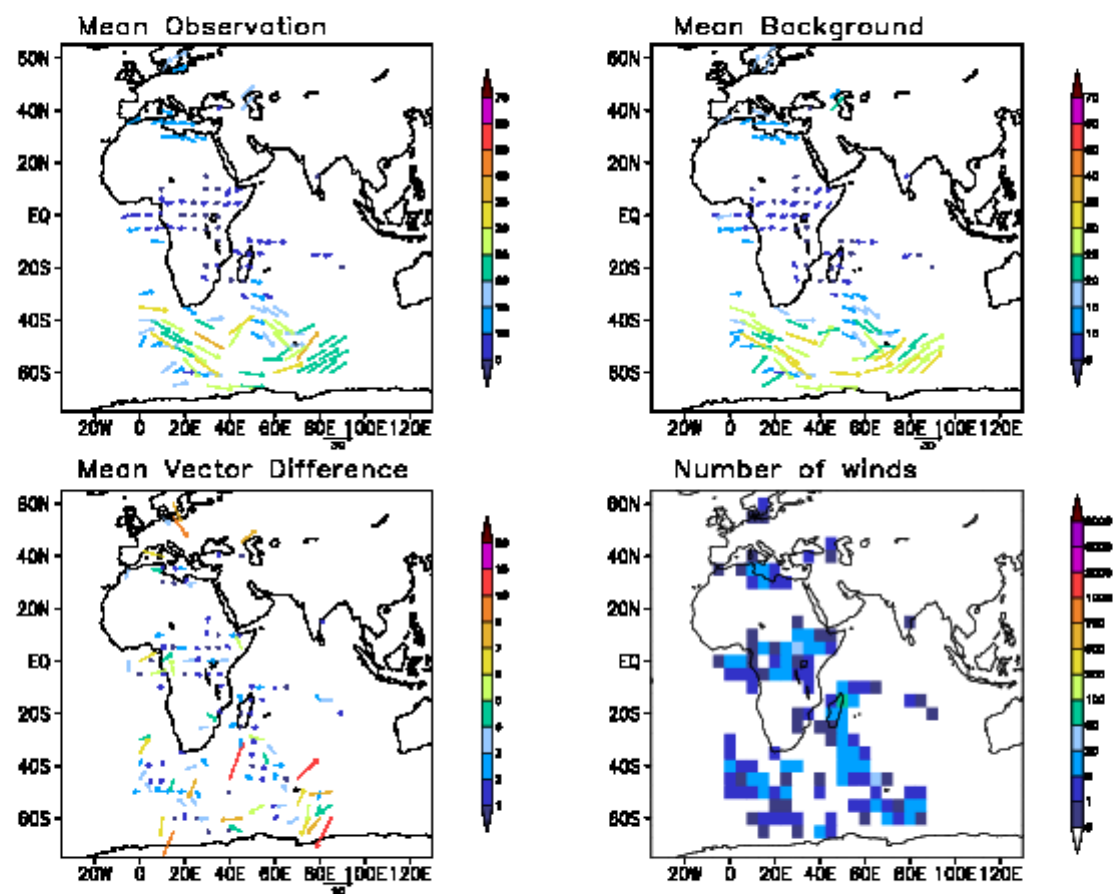
Validation of
METEOSAT-9
Atmospheric Motion Vectors
April 2025

Validation Against
NCMRWF NGFS First Guess

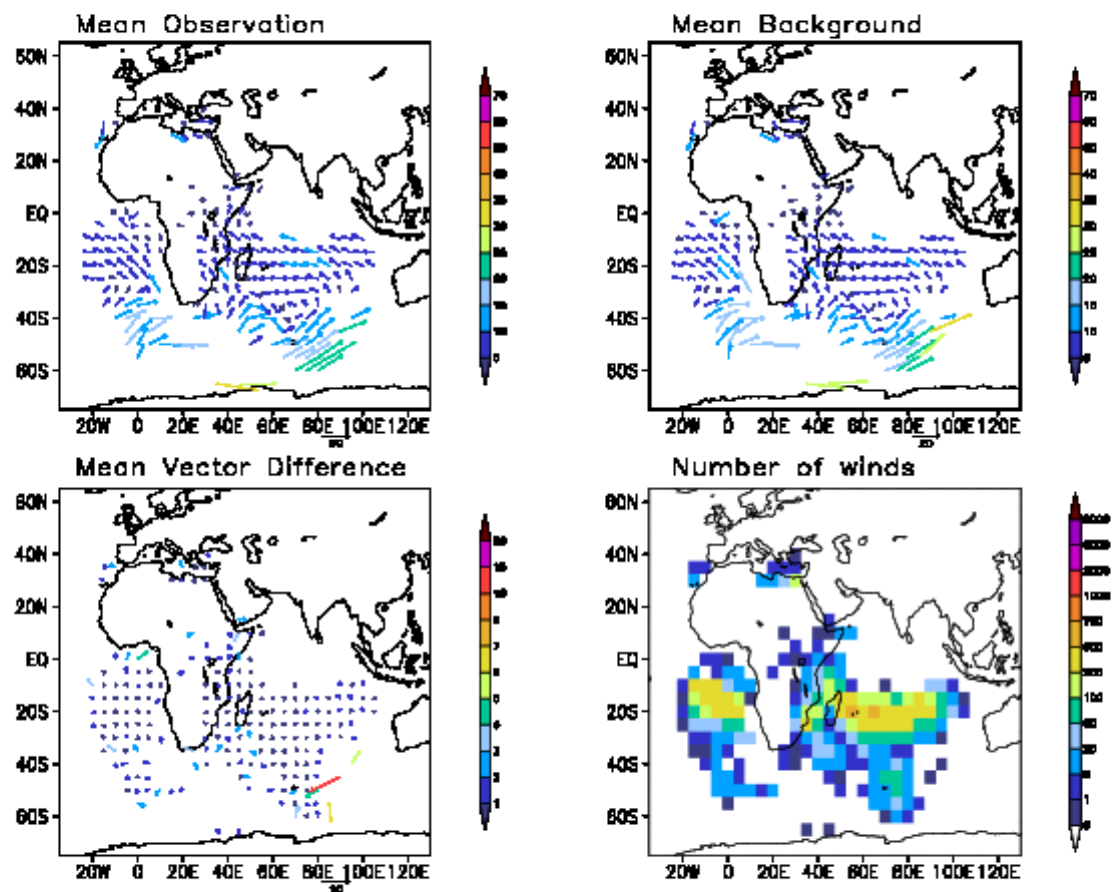
METEOSAT-9 IR, High Level, Above 400 hPa, April 2025



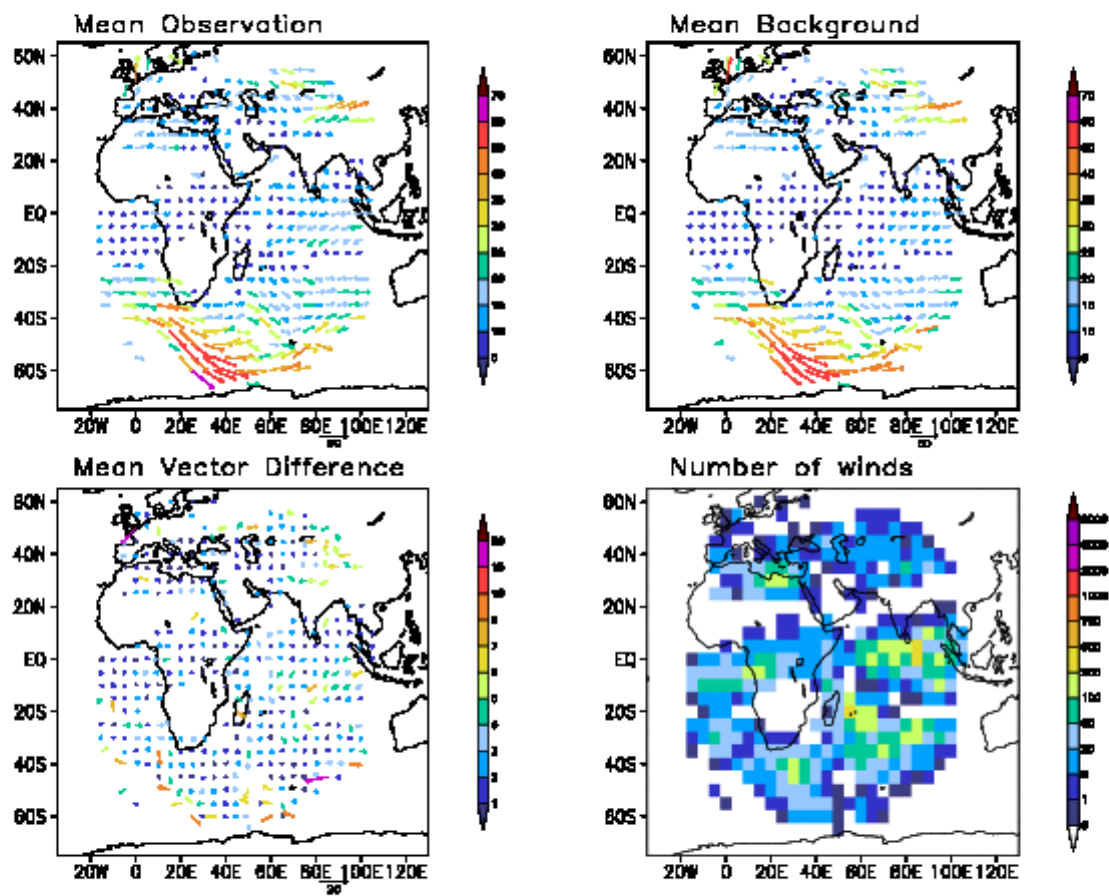
METEOSAT-9 IR, Mid Level, 700 – 401 hPa, April 2025



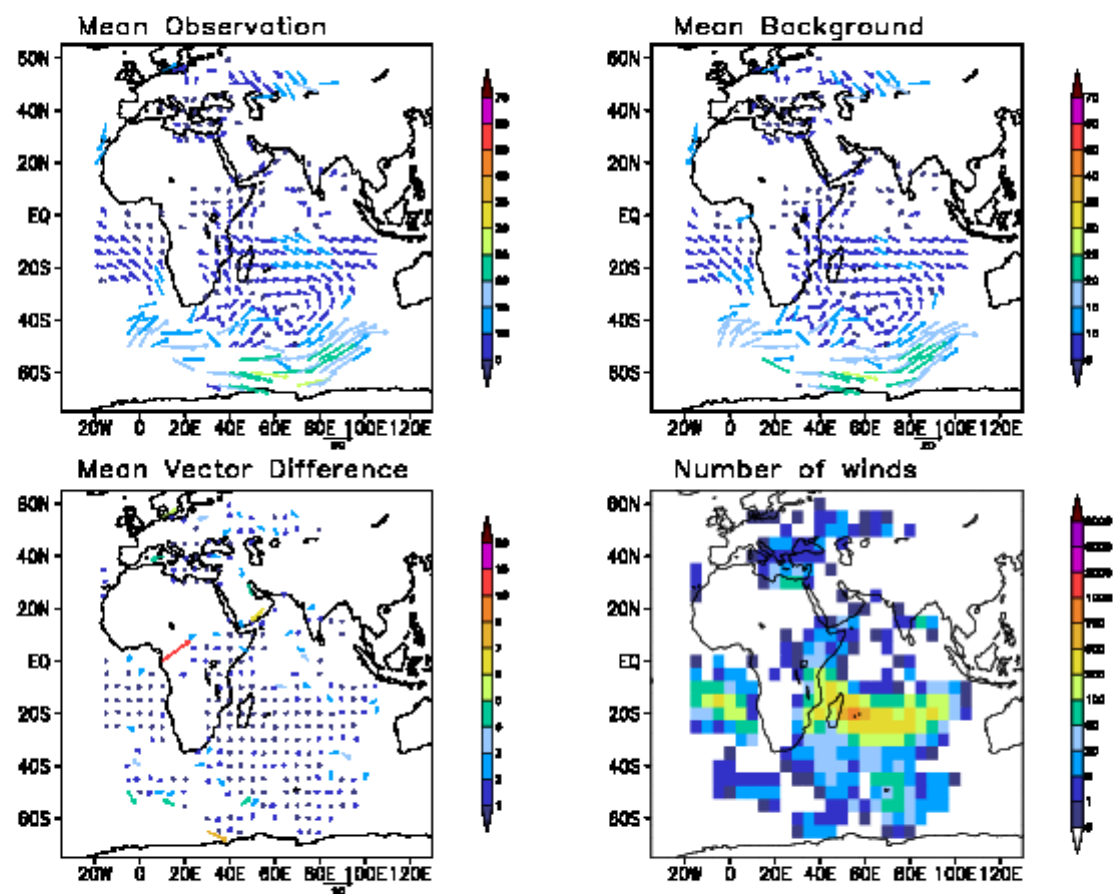
METEOSAT-9 IR, Low Level, Below 700 hPa, April 2025



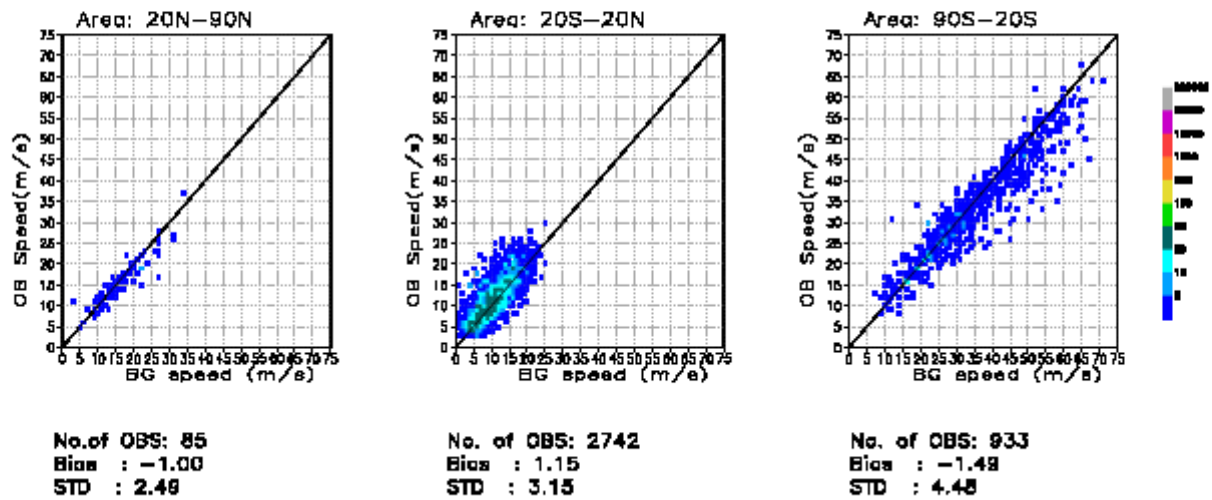
METEOSAT-9 WV, High Level, Above 400 hPa, April 2025



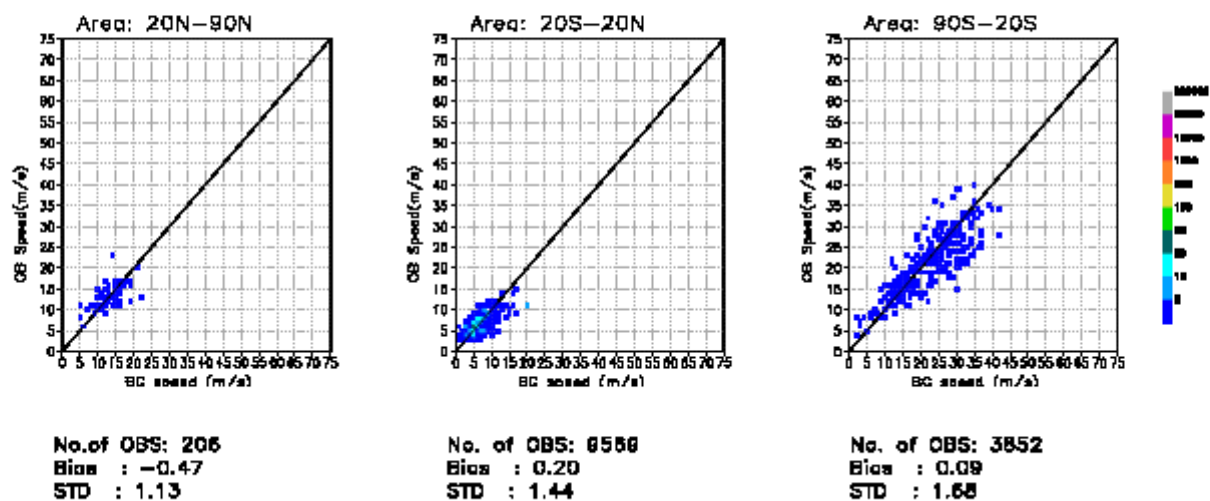
METEOSAT-9 VIS, Low Level, Below 700 hPa, April 2025



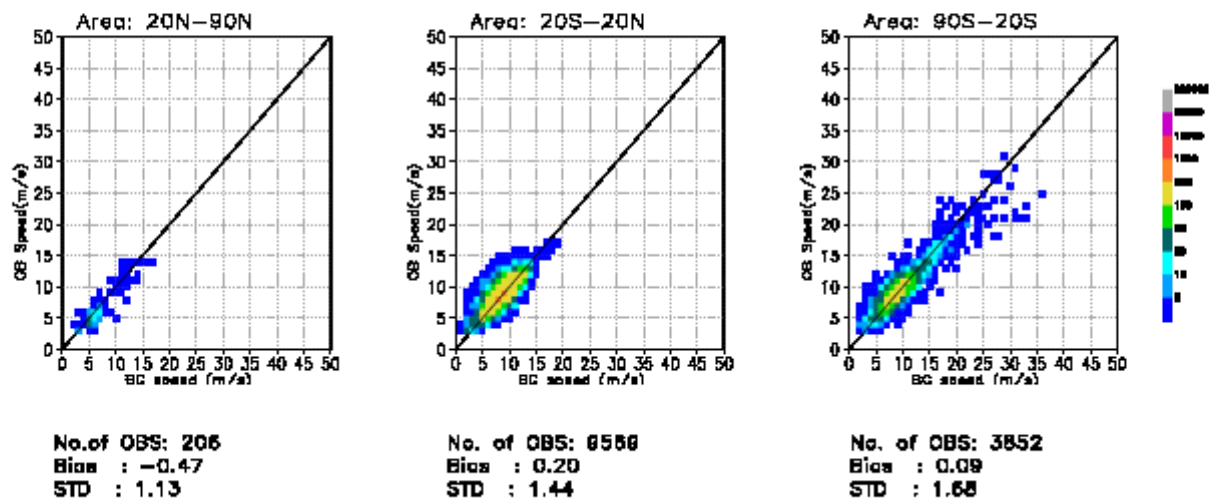
METEOSAT-9 IR, April 2025, High Level, Above 400 hPa



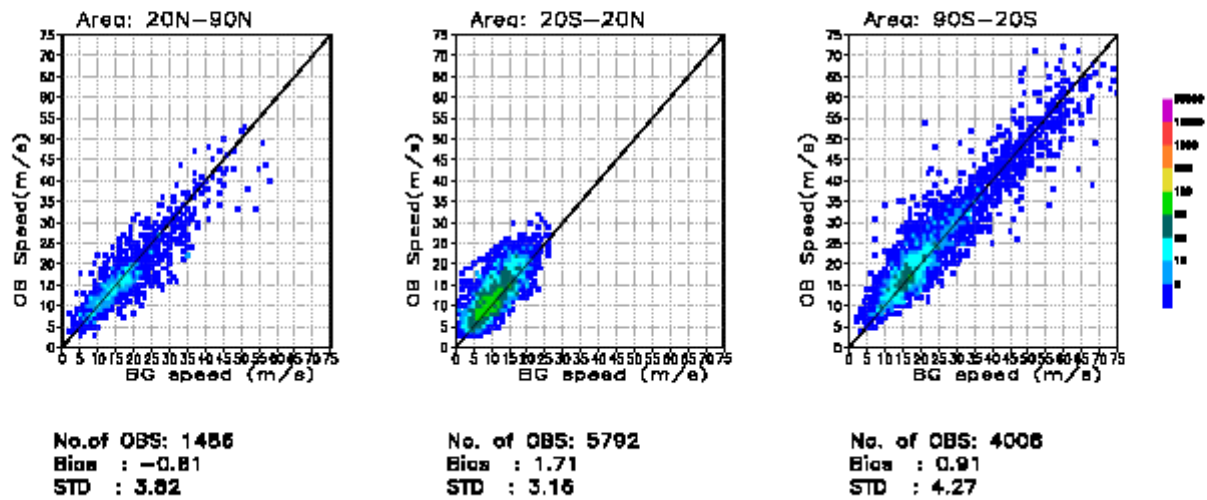
METEOSAT-9 IR, Mid Level, 700 – 401 hPa, April 2025



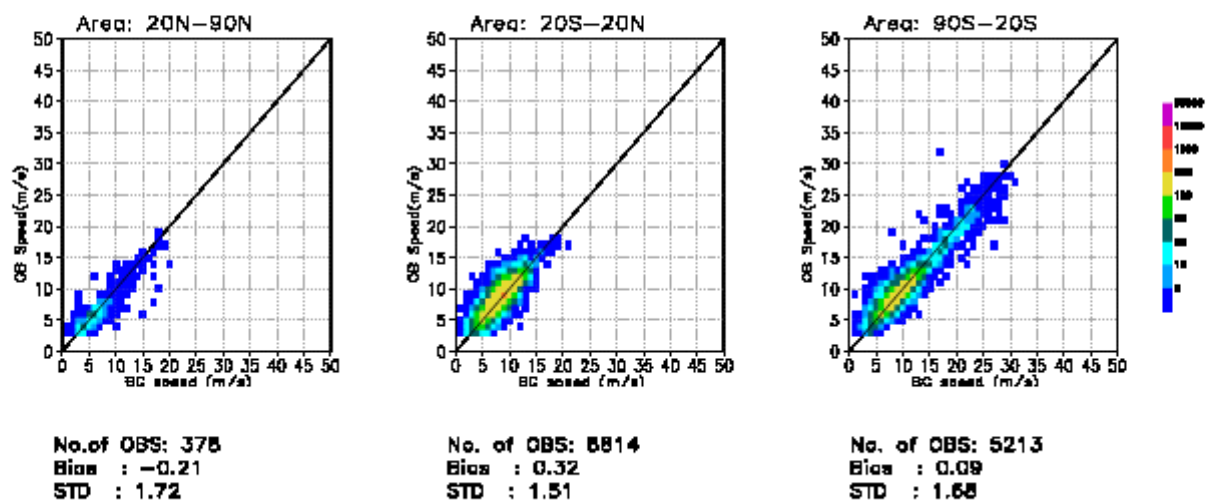
METEOSAT-9 IR, April 2025, Low Level, Below 700 hPa



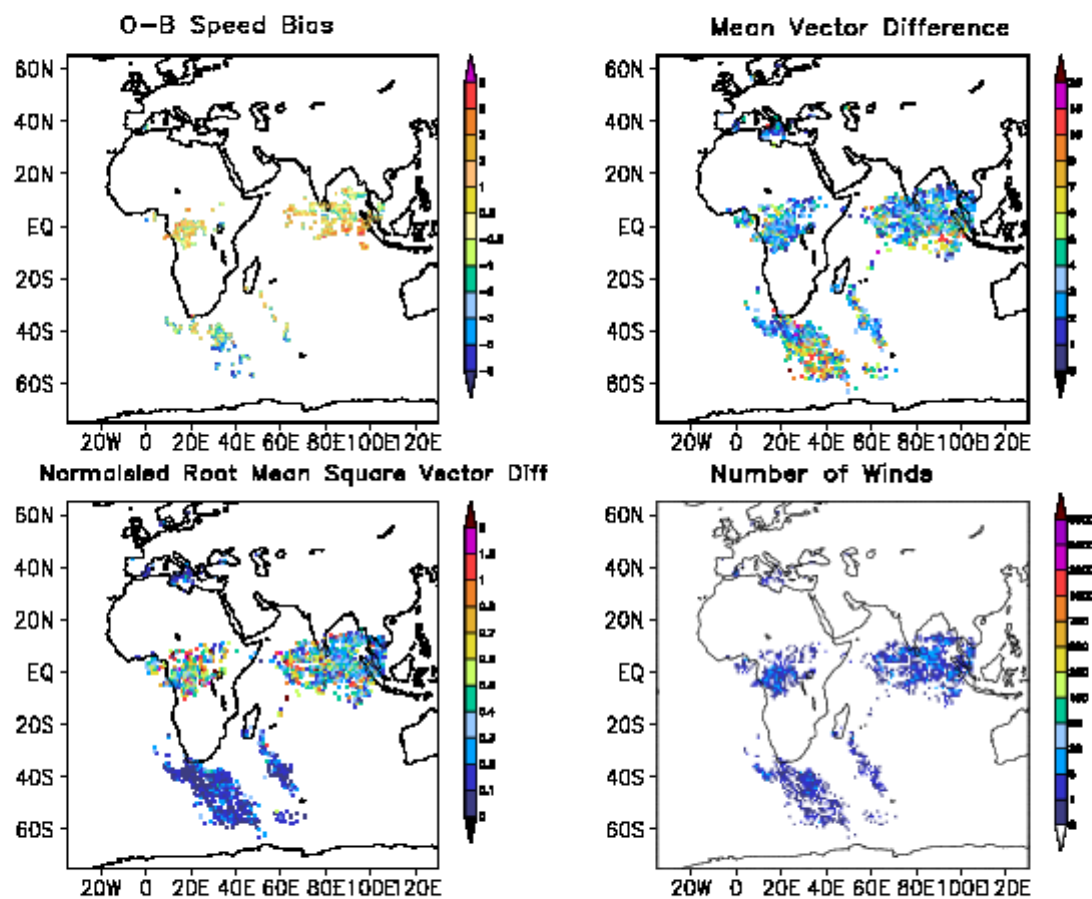
METEOSAT-9 WV, April 2025, High Level, Above 400 hPa



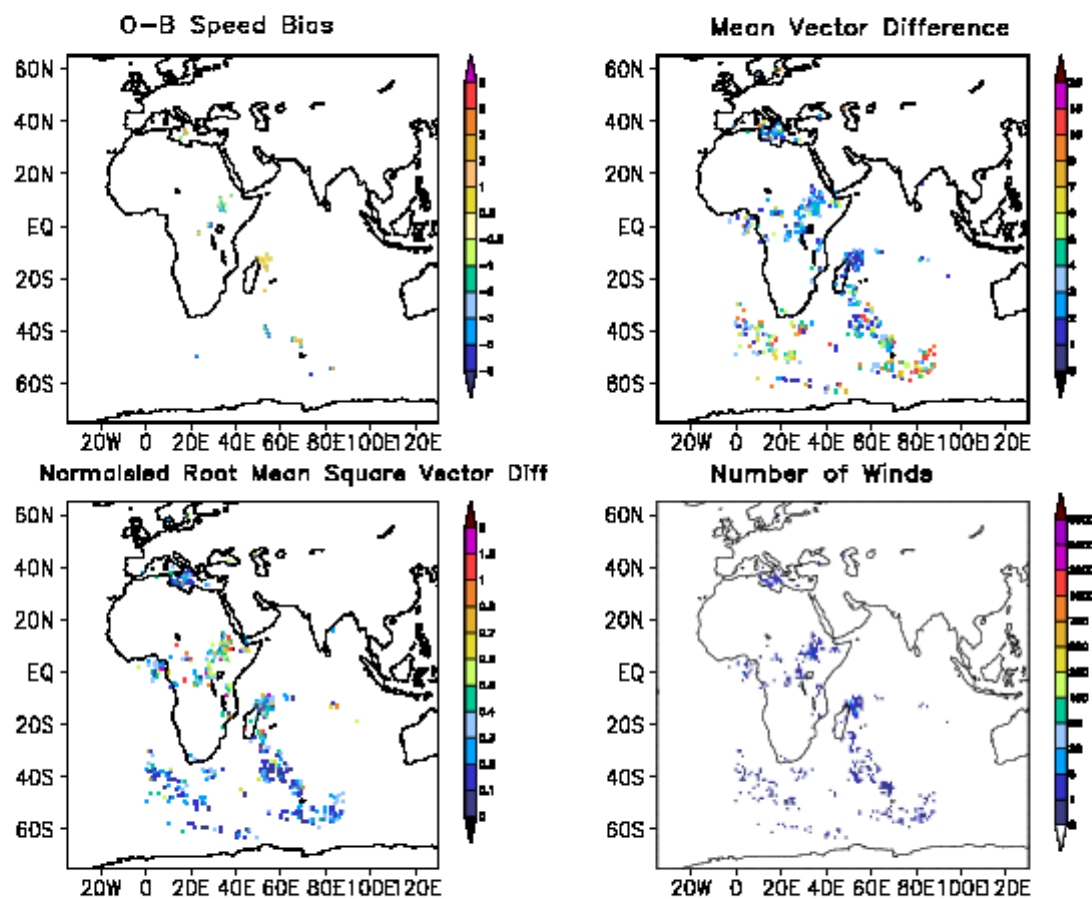
METEOSAT-9 VIS, April 2025, Low Level, Below 700 hPa



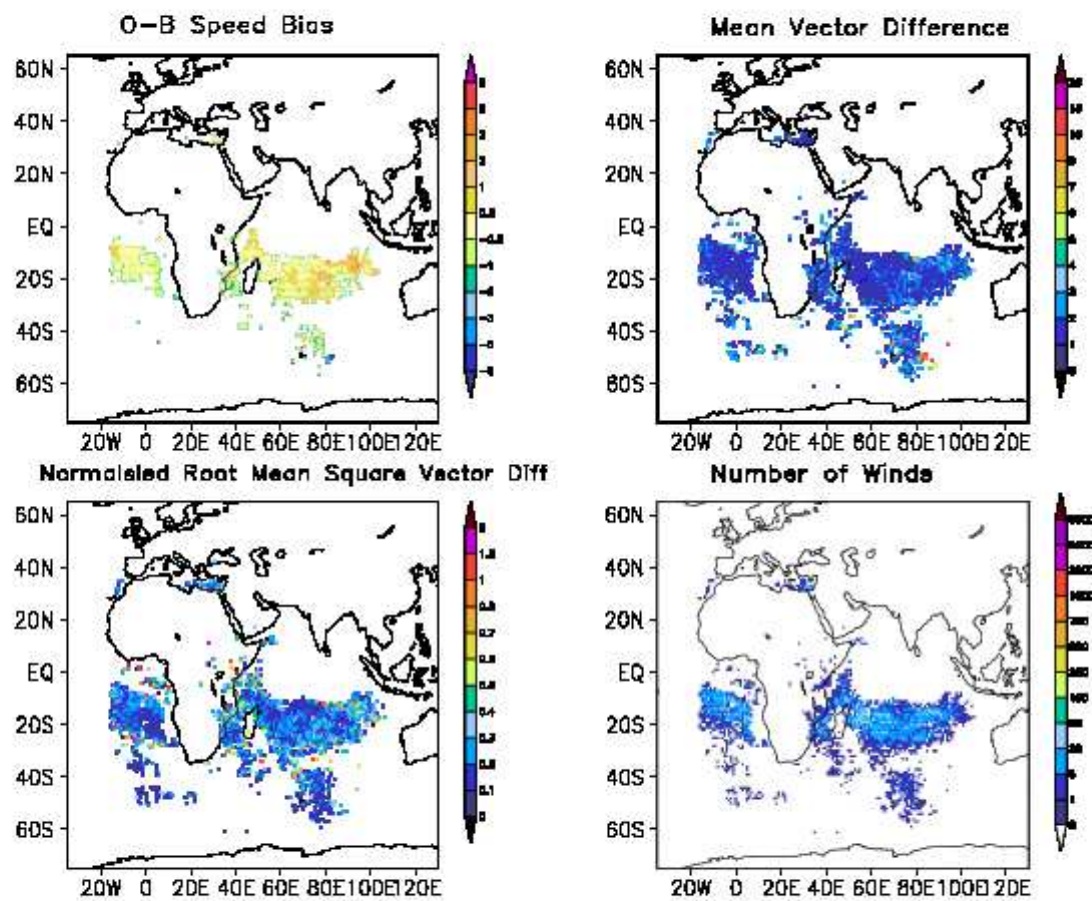
METEOSAT-9 IR, High Level, Above 400 hPa, April 2025



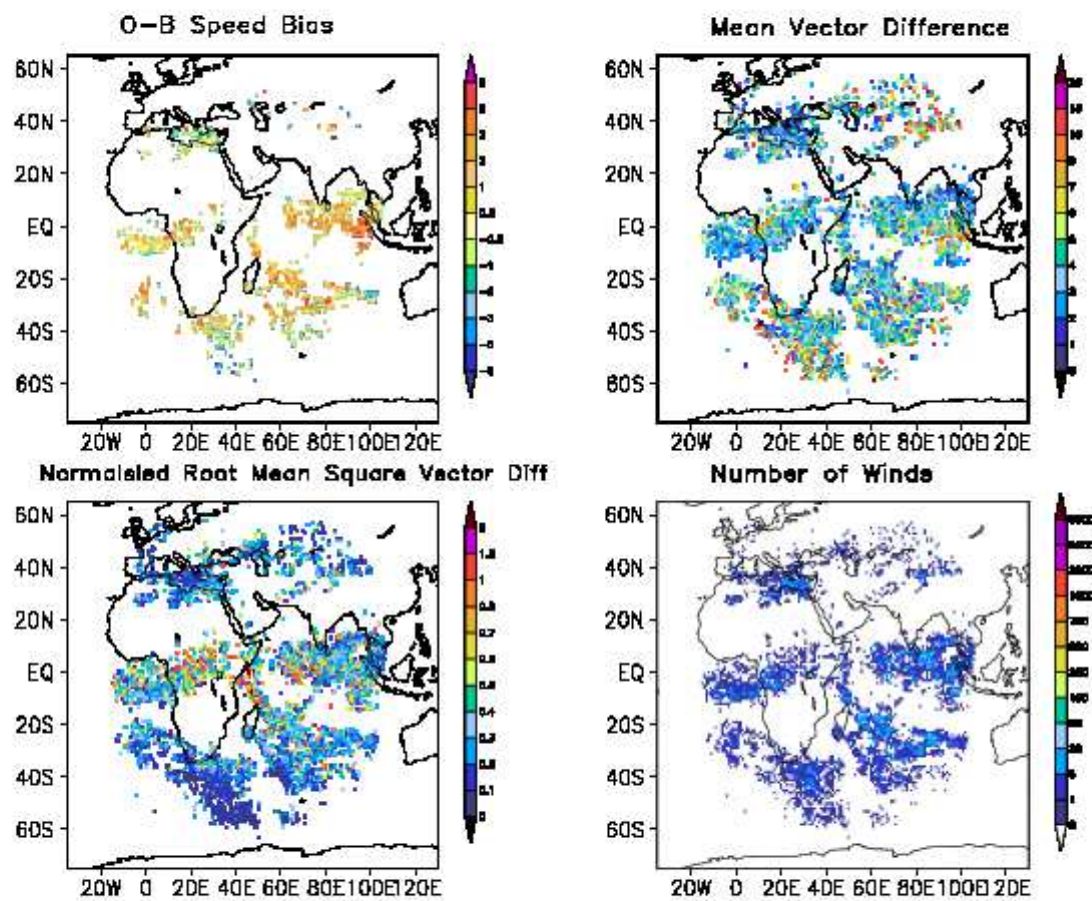
METEOSAT-9 IR, Mid Level, 700 – 401 hPa, April 2025



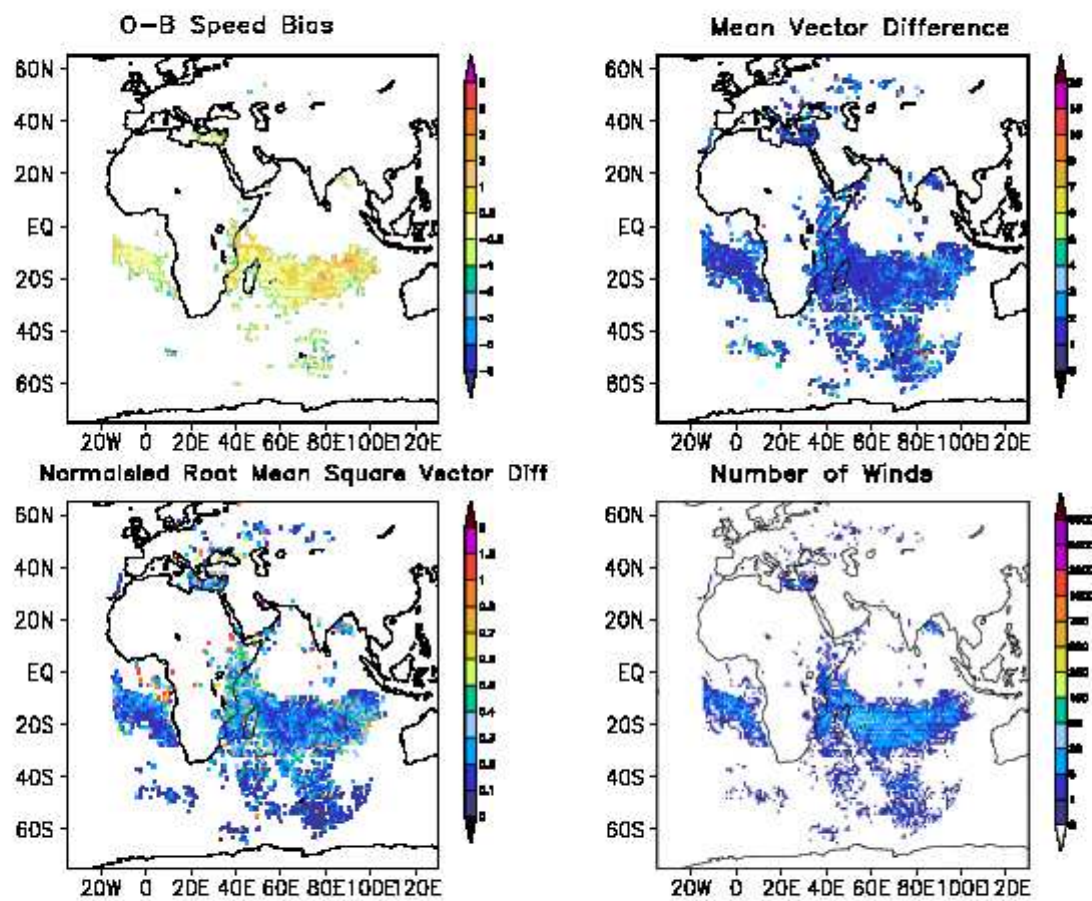
METEOSAT-9 IR, Low Level, Below 700 hPa, April 2025



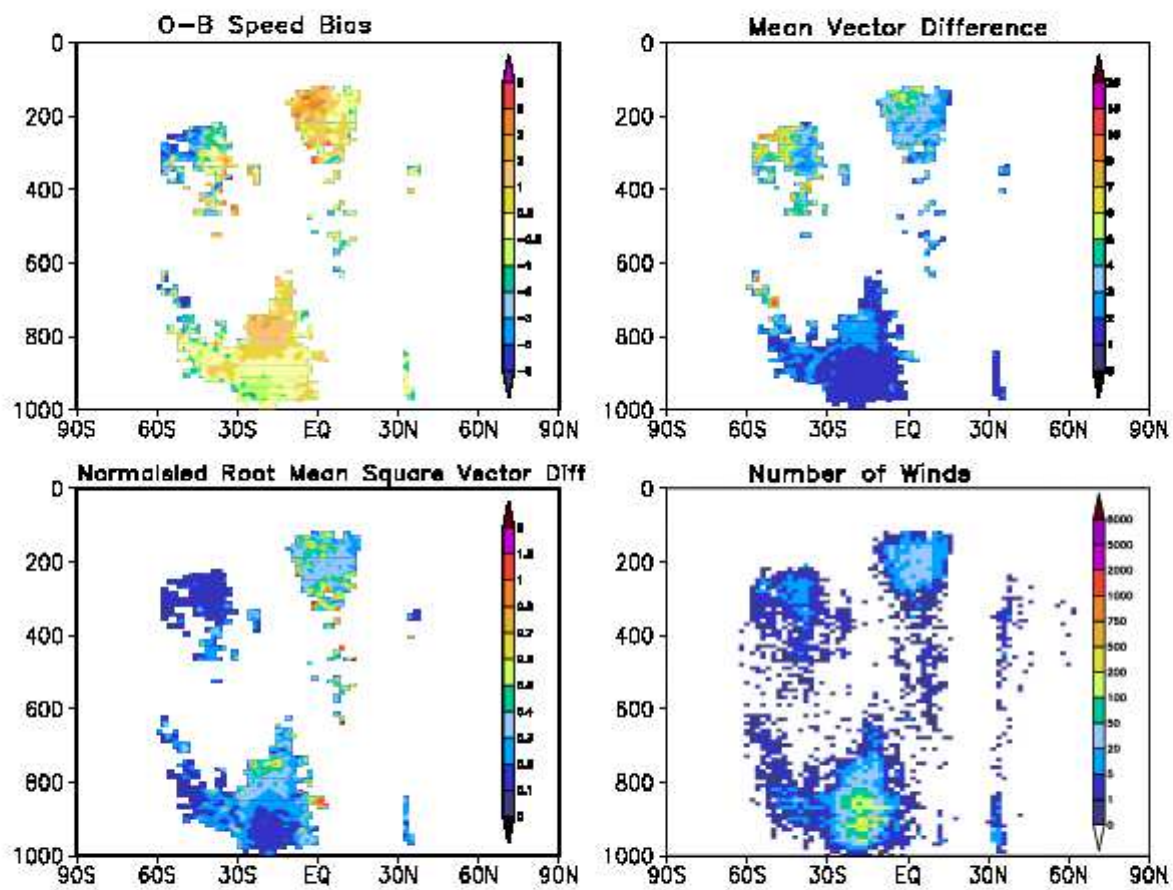
METEOSAT-9 WV, Above 400 hPa, April 2025



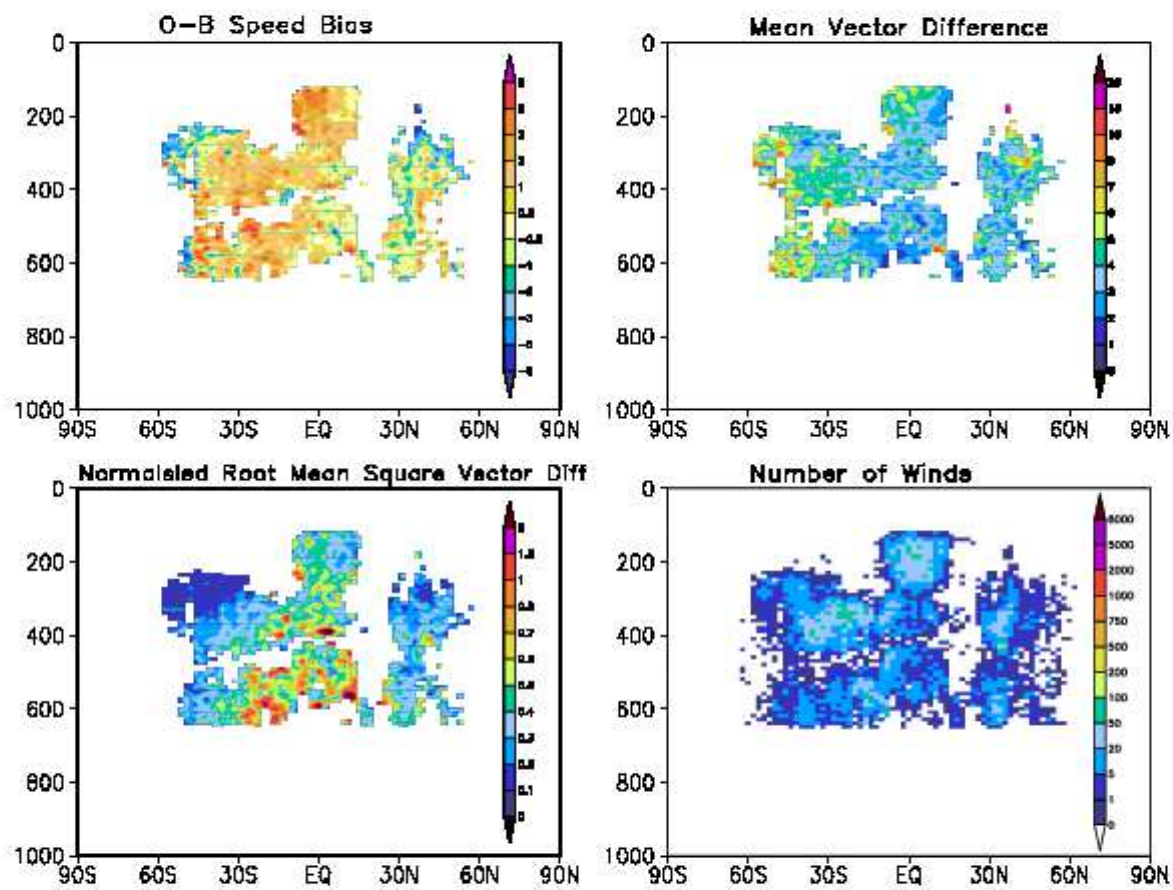
METEOSAT-9 VIS, Low Level, Below 700 hPa, April 2025



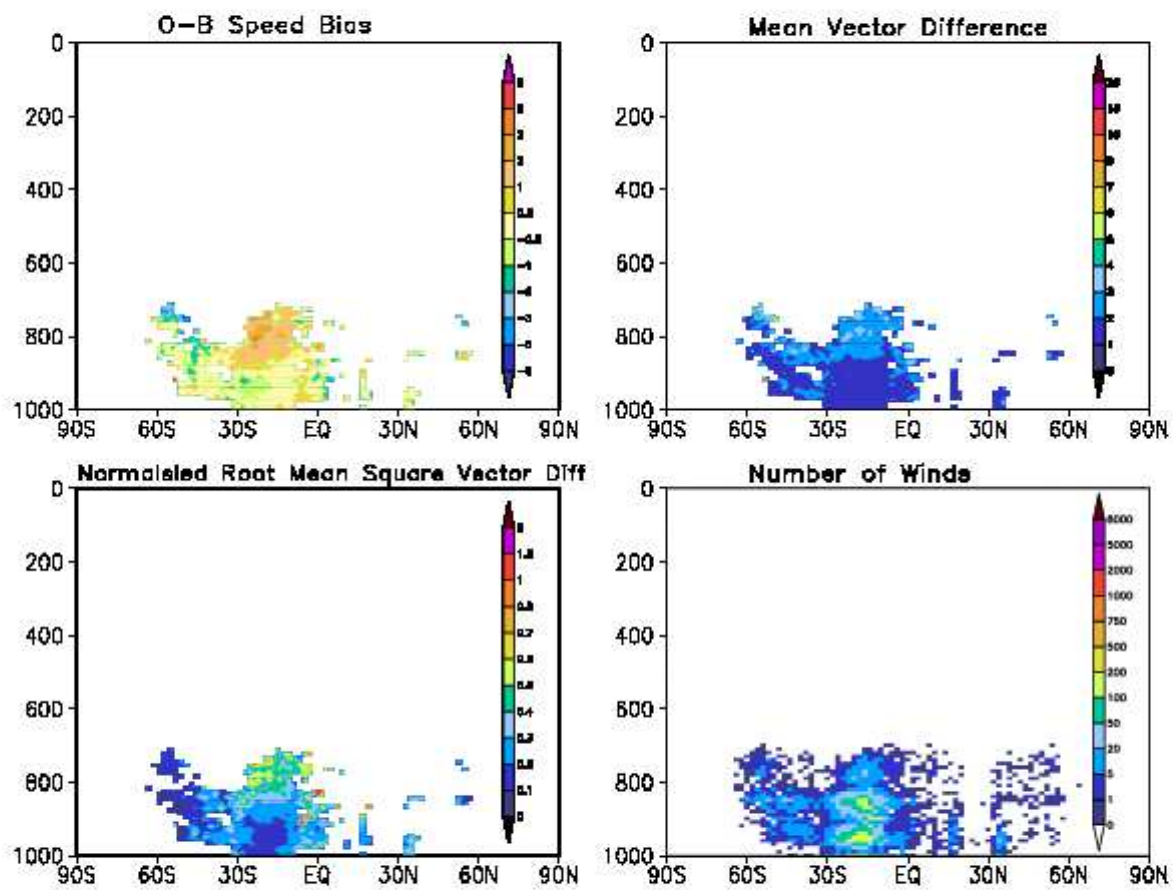
METEOSAT-9 IR, April 2025



METEOSAT-9 WV, April 2025



METEOSAT-9 VIS, April 2025



Validation against
Insitu Observations

METEOSAT-9 SATELLITE AMVS
 (Comparison against Insitu Observations)
 Reporting Period: 01 04 2025 - 30 04 2025

NORTHERN HEMISPHERE

	Mean AMV WS	Mean INSITU WS	Speed Bias	RMSVD	Number of Collocations
Hig Lev IR:	20.26	23.75	-3.49	9.20	267
Mid Lev IR:	13.09	13.62	-0.53	8.00	324
Low Lev IR:	9.57	7.72	1.85	8.26	179
Hig Lev WV:	16.87	19.71	-2.84	10.00	9119
Low Lev VIS:	7.68	6.75	0.93	7.03	123

TROPICS

	Mean AMV WS	Mean INSITU WS	Speed Bias	RMSVD	Number of Collocations
Hig Lev IR:	9.33	9.68	-0.35	6.12	910
Mid Lev IR:	8.97	8.11	0.86	7.51	194
Low Lev IR:	5.81	4.30	1.51	5.17	75
Hig Lev WV:	10.53	10.87	-0.33	6.37	7627
Low Lev VIS:	4.43	5.51	-1.08	2.83	3

SOUTHERN HEMISPHERE

	Mean AMV WS	Mean INSITU WS	Speed Bias	RMSVD	Number of Collocations
Hig Lev IR:	17.04	18.82	-1.79	9.34	98
Mid Lev IR:	10.67	11.33	-0.66	7.34	47
Low Lev IR:	7.67	5.81	1.86	6.16	44
Hig Lev WV:	13.78	14.21	-0.43	8.26	494
Low Lev VIS:	6.30	7.20	-0.90	1.57	2

Hig Lev = Above 400 hPa
 Mid Lev = 700 - 401 hPa
 Low Lev = Below 700 hPa