

March 2013

AMV vs Radiosonde (00 & 12 UTC)

Global	No of Collocation	MVD	RMSVD	SD	Mean Speed Dif (ABS)	Mean Dir Dif (ABS)	Bias	Mean Speed AMV	Mean Speed RS
Low level CMV	270	5.72	6.01	1.60	3.82	22.52	1.04	10.54	9.50
Mid level CMV	725	7.10	7.54	2.41	5.16	18.71	2.54	16.61	14.07
High level CMV	2288	7.15	7.49	2.15	5.17	18.15	0.04	16.43	16.39
High level WVWV	2796	7.48	8.00	2.76	5.10	18.08	0.71	18.90	18.19

Northern hemisphere	No of Collocation	MVD	RMSVD	SD	Mean Speed Dif (ABS)	Mean Dir Dif (ABS)	Bias	Mean Speed AMV	Mean Speed RS
Low level CMV	168	5.97	6.22	1.32	3.97	21.98	0.73	11.34	10.62
Mid level CMV	531	7.14	7.50	2.10	5.03	17.29	1.63	17.48	15.85
High level CMV	707	8.19	8.62	2.45	6.12	11.26	0.46	25.51	25.97
High level WVWV	1292	8.41	8.41	3.08	5.67	13.54	0.36	25.76	26.12

Tropics	No of Collocation	MVD	RMSVD	SD	Mean Speed Dif (ABS)	Mean Dir Dif (ABS)	Bias	Mean Speed AMV	Mean Speed RS
Low level CMV	99	5.1	5.3	1.0	3.5	23.8	1.3	8.5	7.2
Mid level CMV	168	5.8	6.0	1.4	4.2	25.1	3.5	9.8	6.4
High level CMV	1439	6.3	6.5	1.6	4.3	22.4	0.3	11.1	10.8
High level WVWV	1383	6.2	6.5	1.9	4.2	22.4	1.8	12.0	10.2

Southern hemisphere	No of Collocation	MVD	RMSVD	SD	Mean Speed Dif (ABS)	Mean Dir Dif (ABS)	Bias	Mean Speed AMV	Mean Speed RS
Low level CMV	3	5.57	5.57	0	5.12	22.58	1.48	6.3	7.78
Mid level CMV	26	7.40	7.40	0.39	5.32	18.84	5.32	18.80	13.49
High level CMV	142	9.12	9.16	0.00	6.25	21.49	0.95	15.82	16.77
High level WVWV	121	9.47	9.55	0.54	6.04	25.78	0.45	15.64	15.19