

April 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	157	5.8	6.1	1.8	4.0	21.9	1.7	10.5	8.8
Mid level CMV	620	7.2	8.1	3.6	5.1	19.5	1.4	15.7	14.3
High level CMV	3147	6.0	7.2	3.9	4.1	16.9	0.0	14.9	14.9
High level WVVV	3447	6.5	7.8	4.3	4.4	16.1	0.1	16.8	16.7

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	96	6.2	6.5	1.3	4.2	21.5	1.0	11.7	10.6
Mid level CMV	526	7.3	8.3	3.8	5.3	17.5	1.1	16.7	15.6
High level CMV	783	7.9	9.3	4.8	5.7	13.6	-0.9	22.5	23.4
High level WVVV	1424	8.1	8.1	5.2	6.1	13.0	-0.5	22.4	22.9

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	52	5.0	5.1	0.6	4.0	26.1	3.9	7.8	3.8
Mid level CMV	93	6.2	6.3	0.8	3.4	32.7	3.0	9.8	6.8
High level CMV	2336	5.2	5.8	2.7	3.4	18.7	0.2	11.3	11.1
High level WVVV	1979	5.3	6.0	2.9	3.3	18.3	0.5	12.3	11.8

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	9	6.2	6.2	0.2	3.4	30.5	-1.2	8.8	10.0
Mid level CMV	1	6.5	6.5	1.5	5.1	28.7	-5.1	5.8	10.9
High level CMV	28	8.7	8.9	0.0	6.1	9.2	1.0	27.5	26.5
High level WVVV	44	8.8	9.1	1.4	5.9	18.3	2.1	23.2	21.2