

Validation of

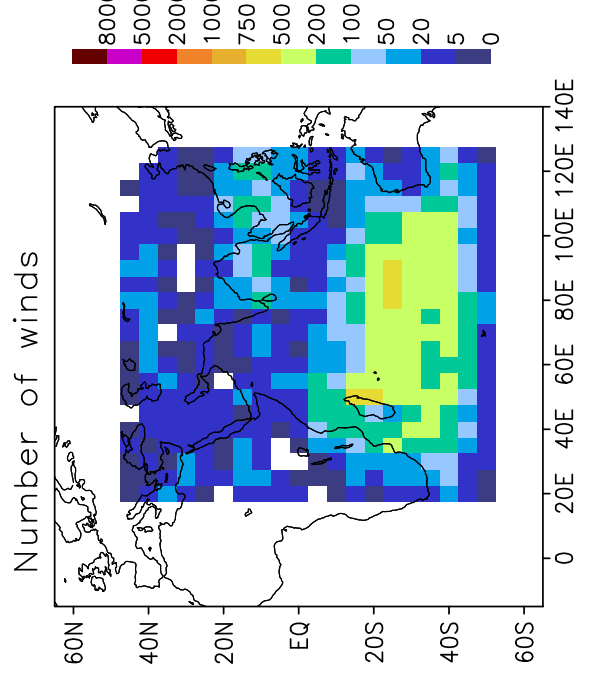
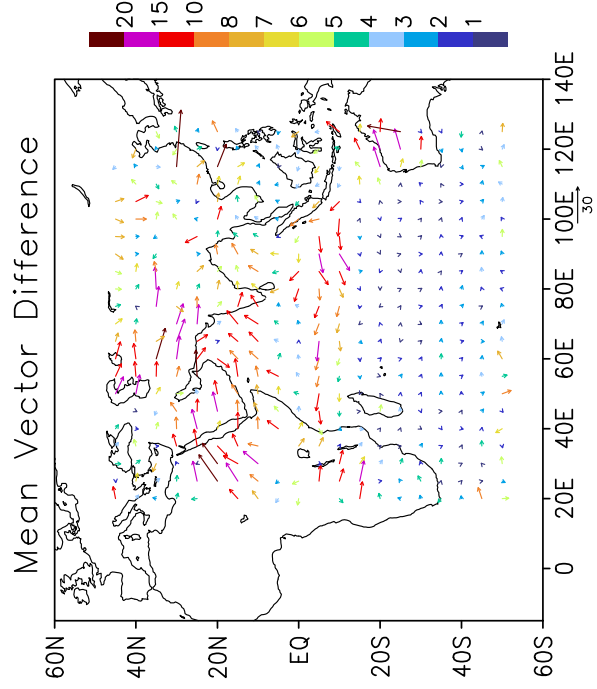
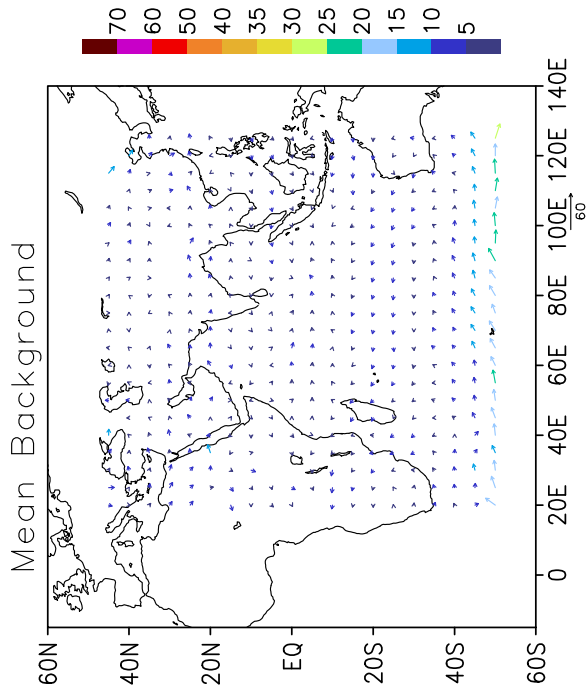
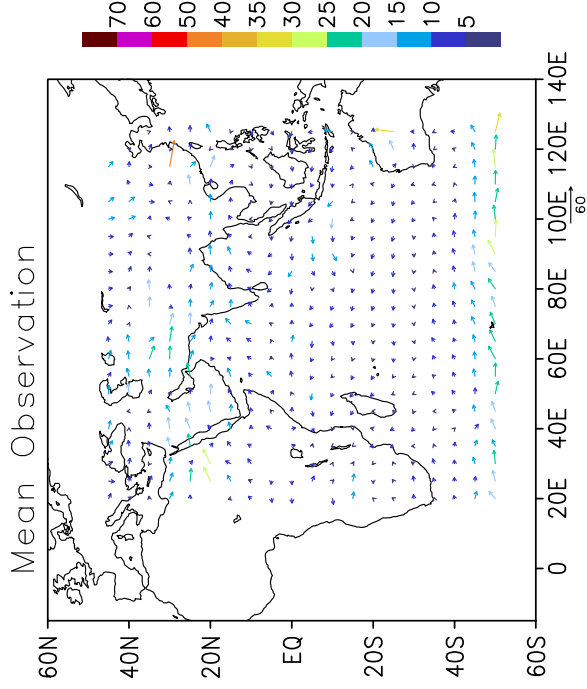
KALPANA-1

Atmospheric Motion Vectors

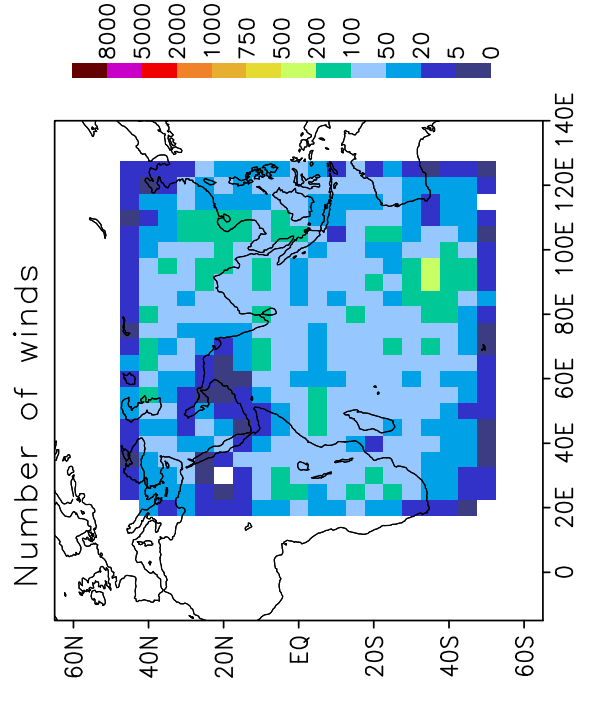
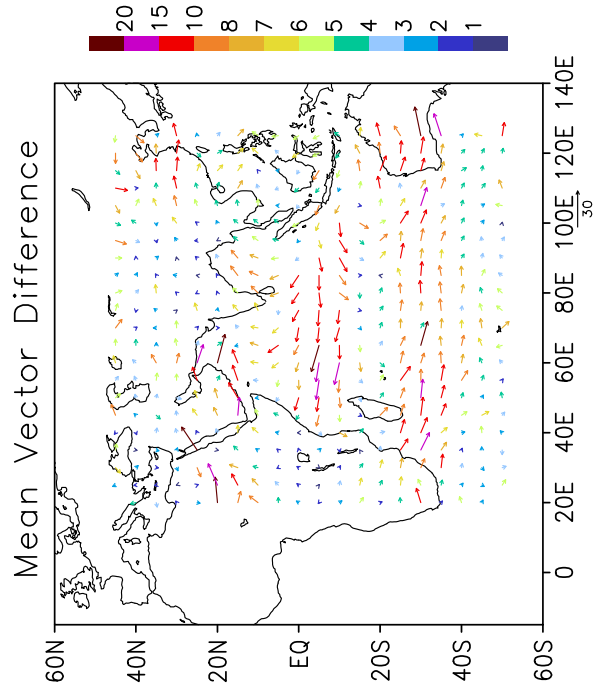
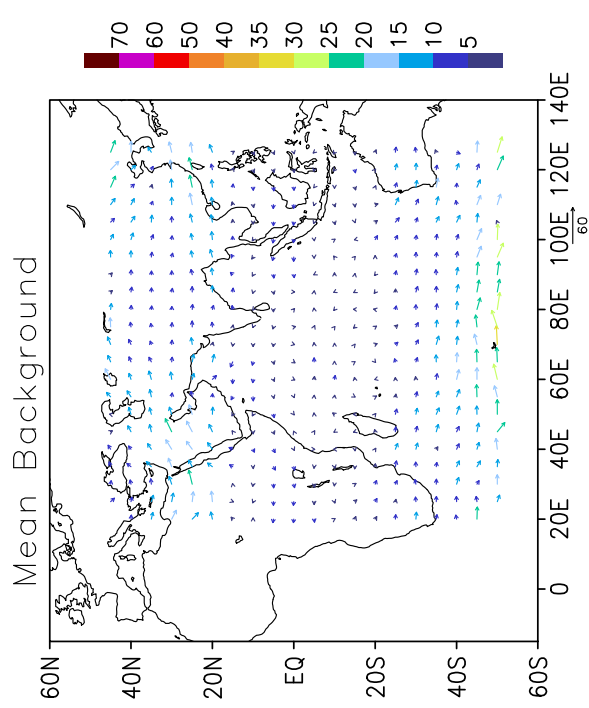
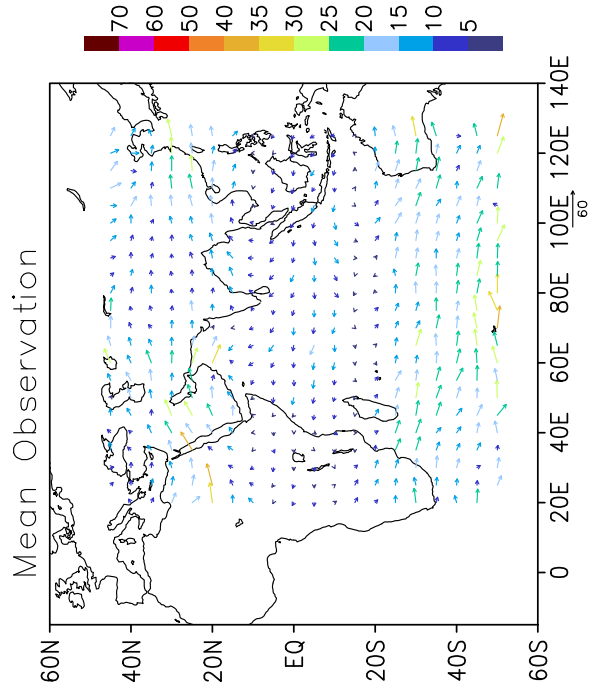
April 2015

Validation Against
NCMRWF NGFS First Guess

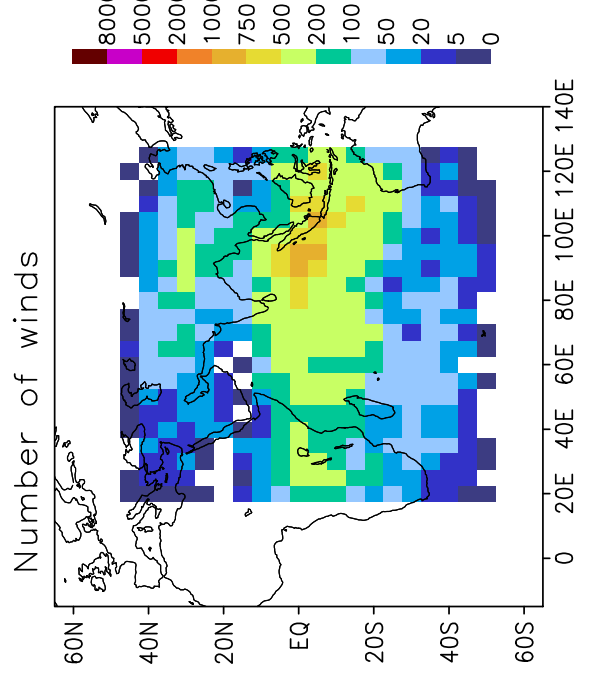
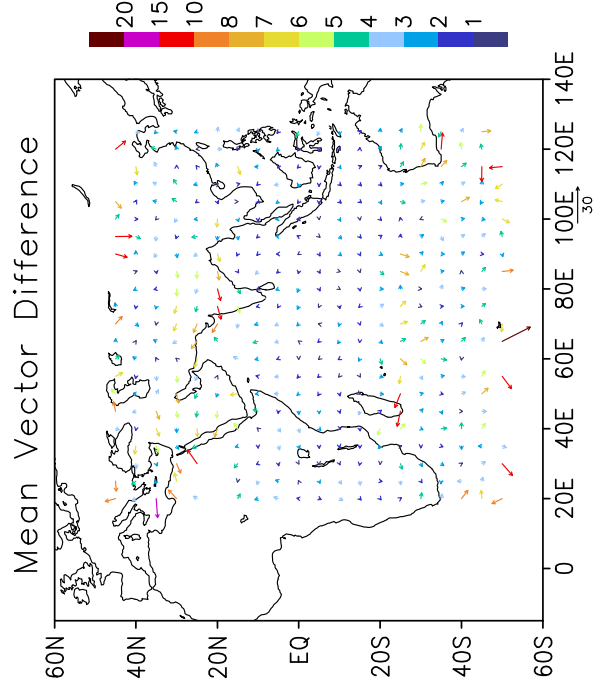
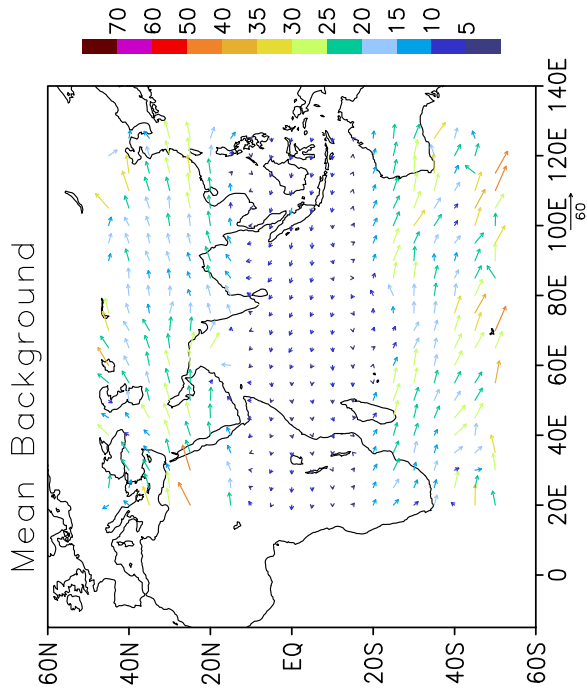
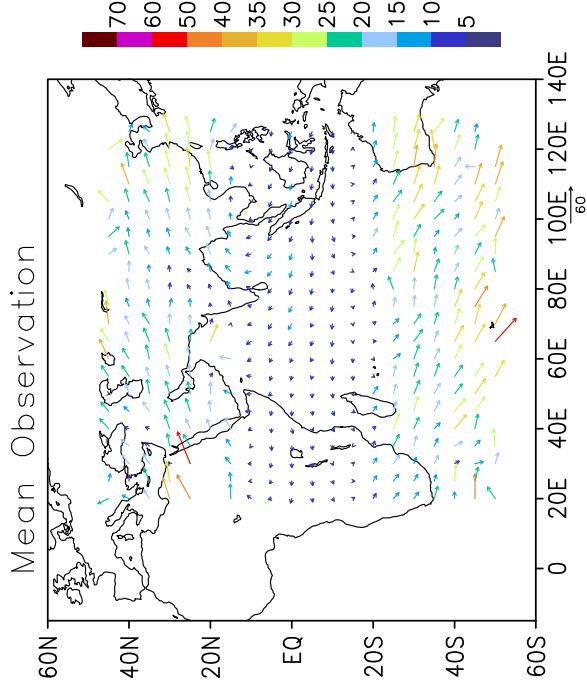
NCMRWF: Kalpana-1 CMV Low Level April 2015



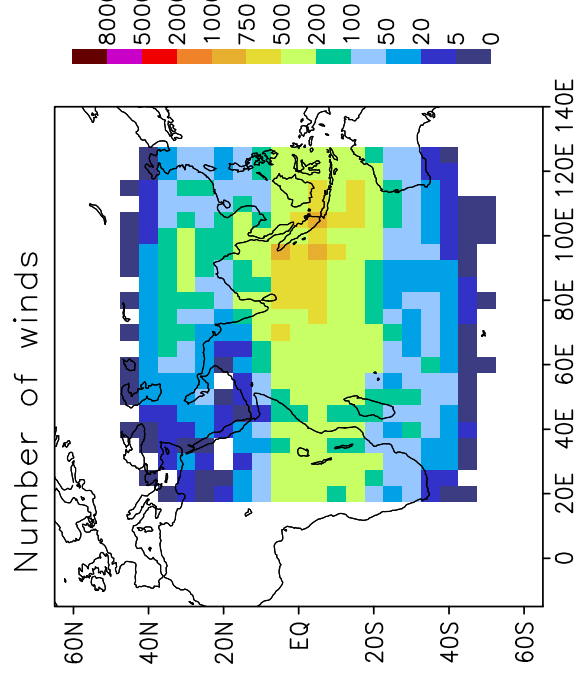
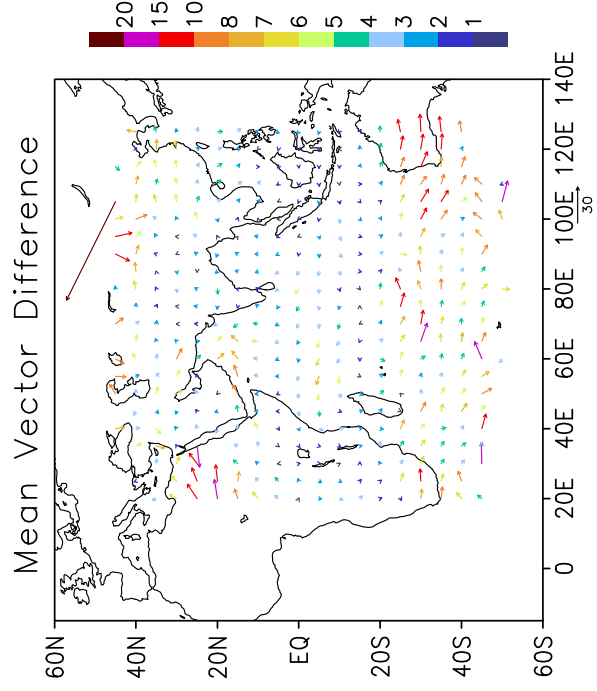
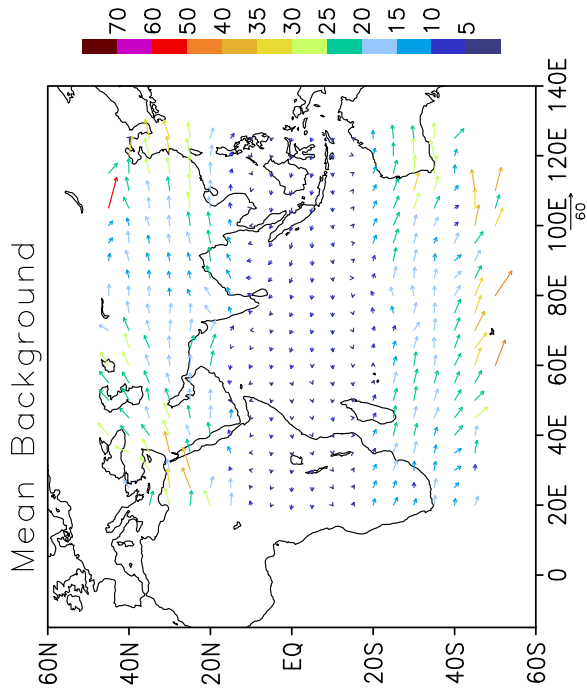
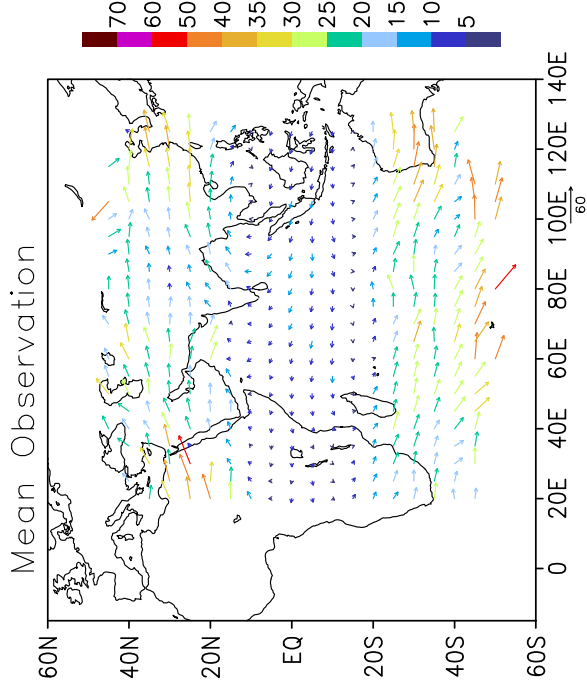
NCMRWF: Kalpana-1 CMV Middle Level April 2015



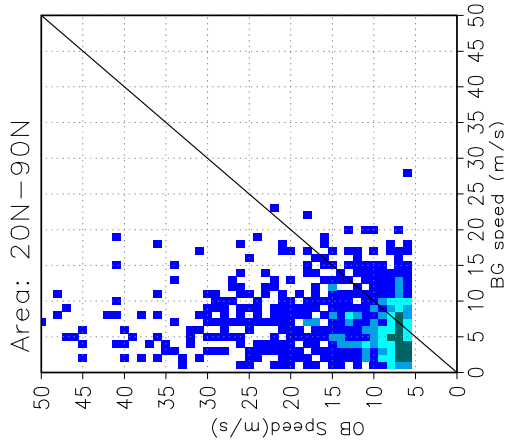
NCMRWF: Kalpana-1 CMV High Level April 2015



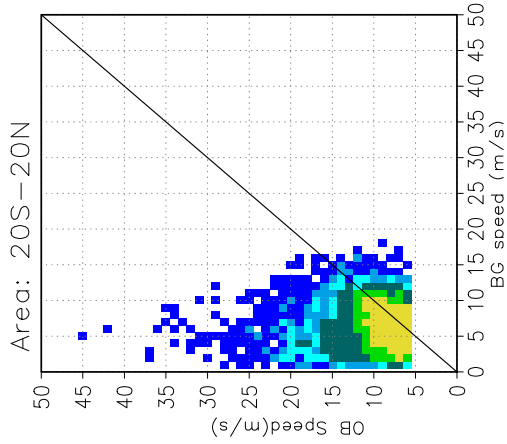
NCMRWF: Kalpana-1 WV High Level April 2015



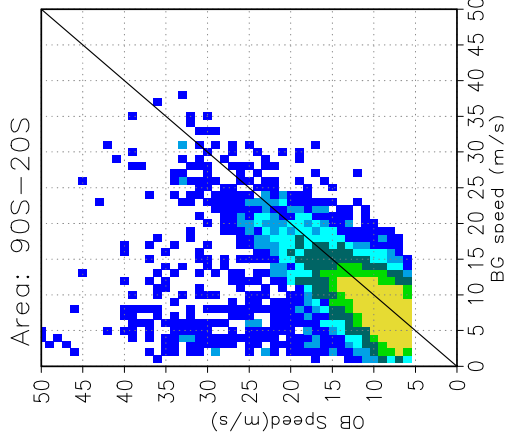
Kalpana-1 CMV April 2015, Low Level : NCMRWF



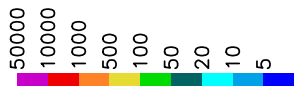
No.of OBS: 1419
 Bias : 5.84
 STD : 8.48



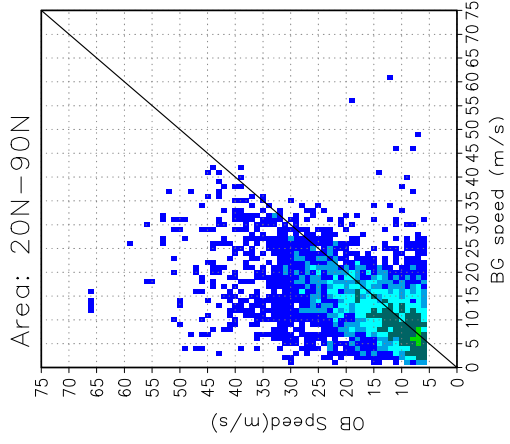
No. of OBS: 11984
 Bias : 3.29
 STD : 4.65



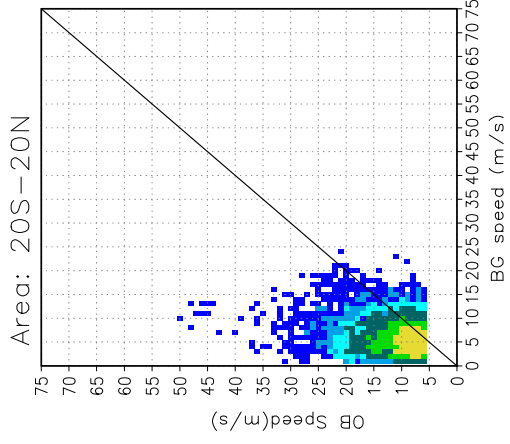
No. of OBS: 18840
 Bias : 1.88
 STD : 4.34



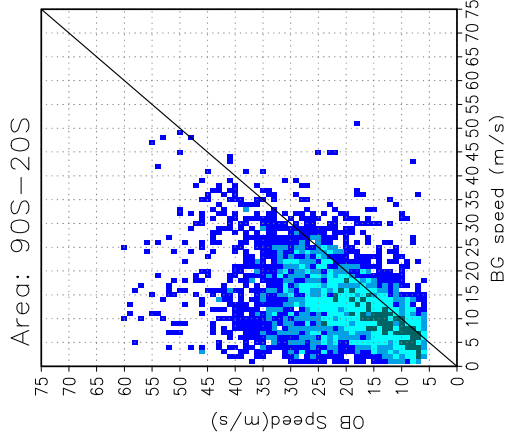
Kalpana-1 CMV April 2015, Middle Level : NCMRWF



No.of OBS: 6090
Bias : 3.44
STD : 7.86

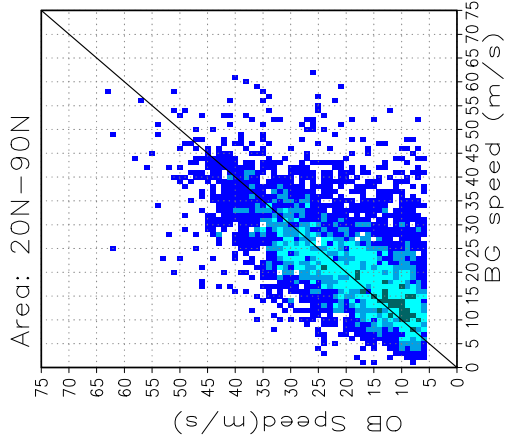


No. of OBS: 11529
Bias : 5.14
STD : 5.38

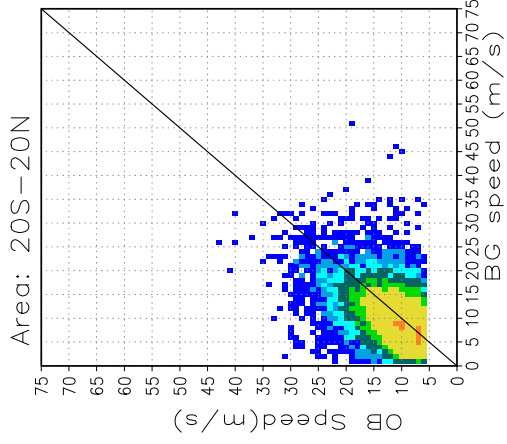


No. of OBS: 7159
Bias : 7.81
STD : 9.07

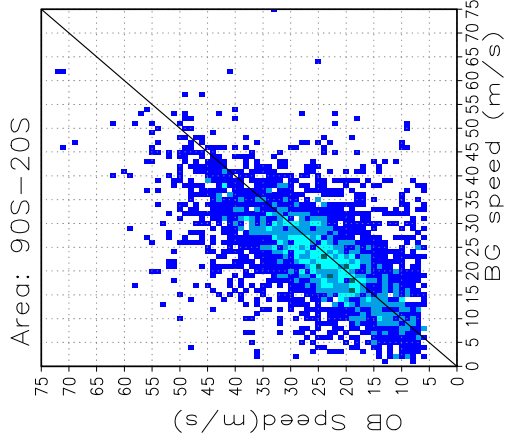
Kalpana-1 CMV April 2015, High Level: NCMRWF



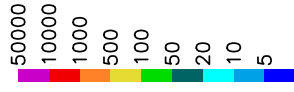
No.of OBS: 7209
 Bias : -1.54
 STD : 8.52



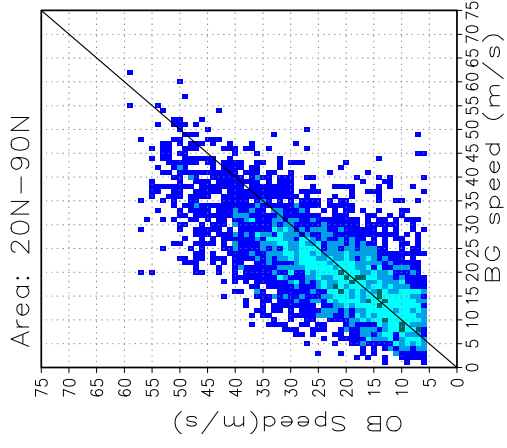
No. of OBS: 41771
 Bias : 1.37
 STD : 4.49



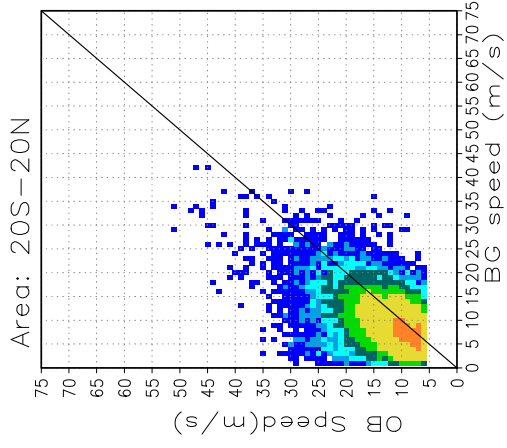
No. of OBS: 5017
 Bias : 1.57
 STD : 8.77



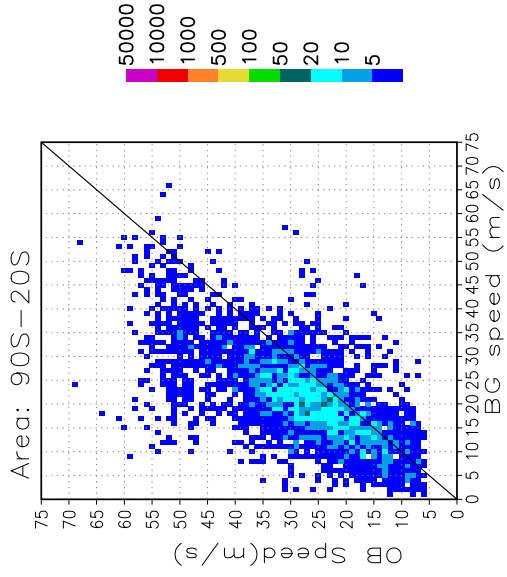
Kalpana-1 WW April 2015, High Level: NCMRWF



No. of OBS: 6748
 Bias : 2.14
 STD : 7.89



No. of OBS: 52183
 Bias : 2.61
 STD : 4.71



No. of OBS: 4972
 Bias : 6.40
 STD : 8.59

Validation against
Insitu Radio winds

KALPANA-1 SATELLITE WINDS
(Insitu Radio winds Comparison Statistics)
Reporting Period: 01 April 2015 - 30 April 2015

NORTHERN HEMISPHERE

	Mean AMV WS	Mean RS/RW WS	Speed Bias	RMSVD	Number of Collocations
Low Level CMV:	NaNQ	NaNQ	NaNQ	NaNQ	0
Middle Level CMV:	NaNQ	NaNQ	NaNQ	NaNQ	0
High Level CMV:	NaNQ	NaNQ	NaNQ	NaNQ	0
High level WWV:	-9999.00000	-9999.00000	-9999.00000	-9999.00000	0

TROPICS

	Mean AMV WS	Mean RS/RW WS	Speed Bias	RMSVD	Number of Collocations
Low Level CMV:	NaNQ	NaNQ	NaNQ	NaNQ	0
Middle Level CMV:	NaNQ	NaNQ	NaNQ	NaNQ	0
High Level CMV:	NaNQ	NaNQ	NaNQ	NaNQ	0
High Level WWV:	-9999.00000	-9999.00000	-9999.00000	-9999.00000	0

SOUTHERN HEMISPHERE

	Mean AMV WS	Mean RS/RW WS	Speed Bias	RMSVD	Number of Collocations
Low Level CMV:	NaNQ	NaNQ	NaNQ	NaNQ	0
Middle Level CMV:	NaNQ	NaNQ	NaNQ	NaNQ	0
High Level CMV:	NaNQ	NaNQ	NaNQ	NaNQ	0
High Level WWV:	-9999.00000	-9999.00000	-9999.00000	-9999.00000	0