

Validation of

METEOSAT-7

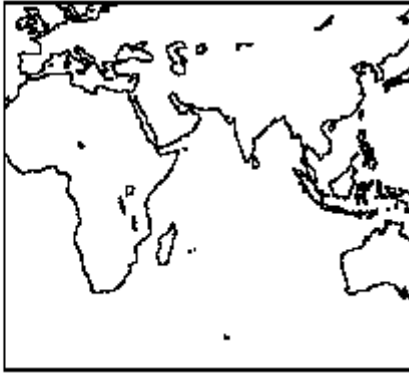
Atmospheric Motion Vectors

May 2017

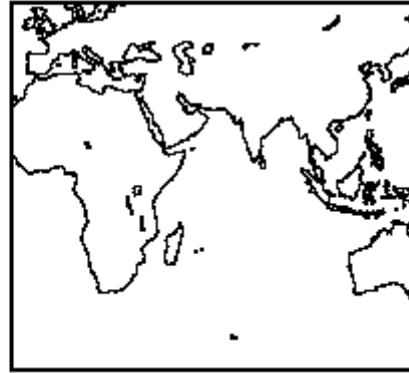
Validation Against
NCMRWF NGFS First Guess

METEOSAT-7 IR, High Level, Above 400 hPa, May 2017

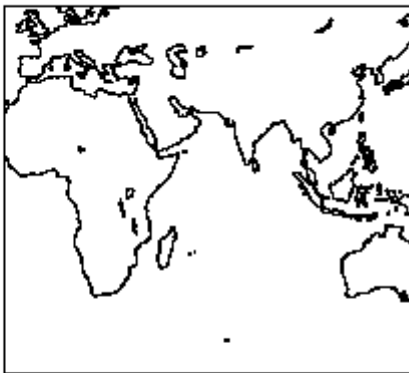
Mean Observation



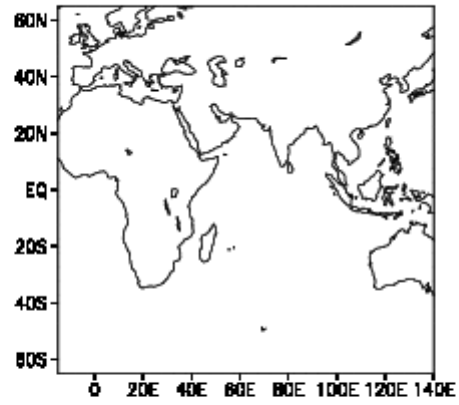
Mean Background



Mean Vector Difference

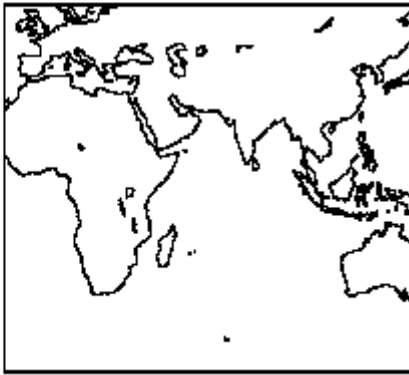


Number of winds

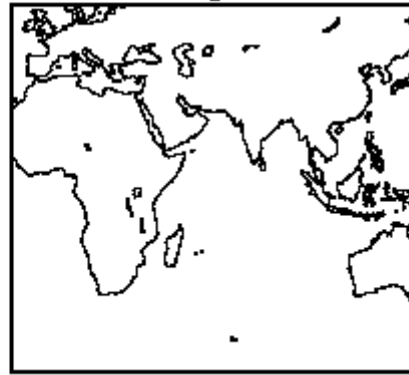


METEOSAT-7 IR, Mid Level, 700 - 401 hPa, May 2017

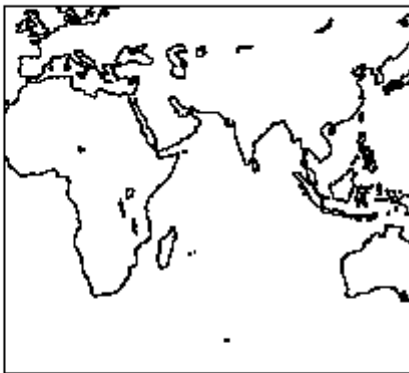
Mean Observation



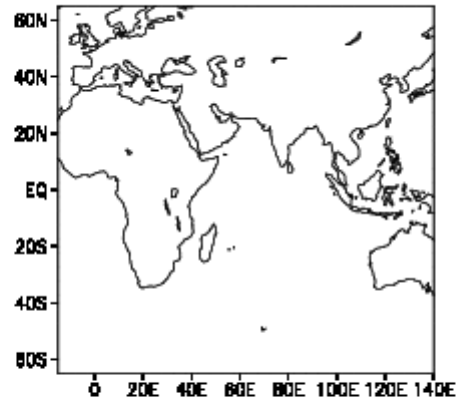
Mean Background



Mean Vector Difference

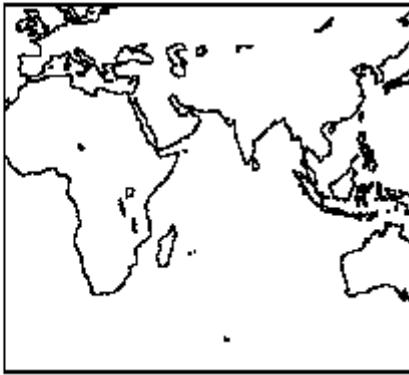


Number of winds

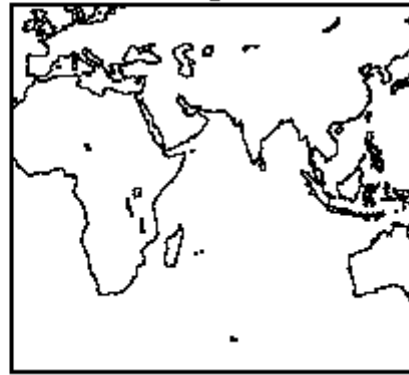


METEOSAT-7 IR, Low Level, Below 700 hPa, May 2017

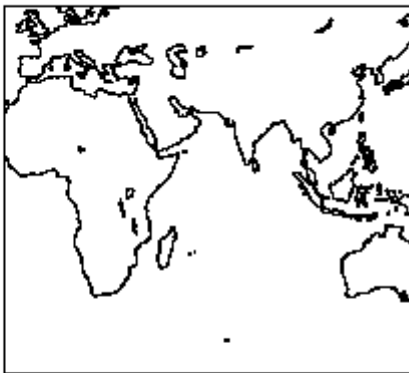
Mean Observation



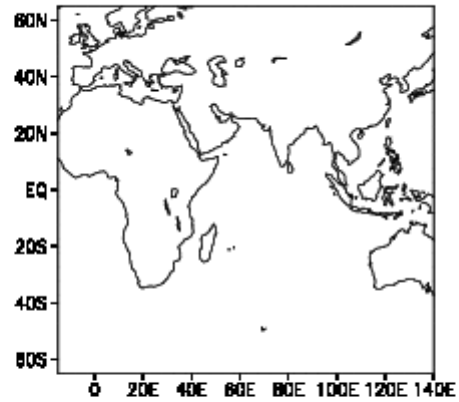
Mean Background



Mean Vector Difference

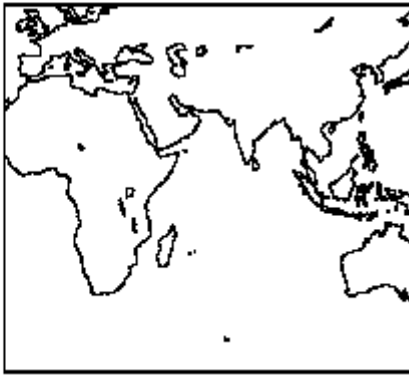


Number of winds

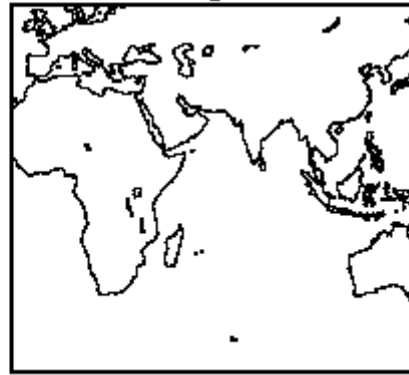


METEOSAT-7 WV, High Level, Above 400 hPa, May 2017

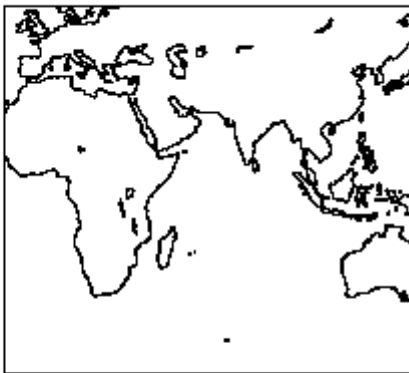
Mean Observation



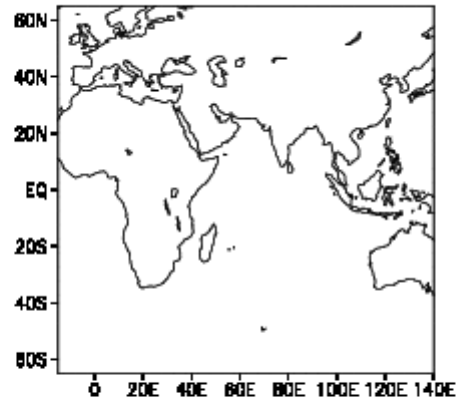
Mean Background



Mean Vector Difference

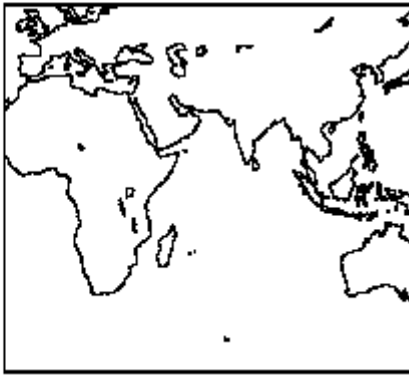


Number of winds

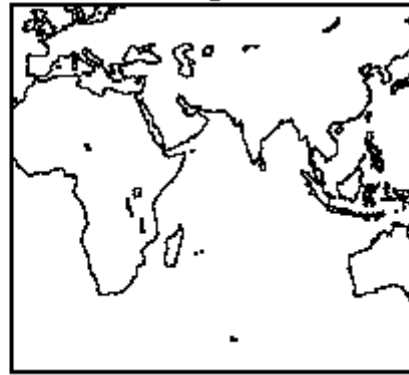


METEOSAT-7 VIS, Low Level, Below 700 hPa, May 2017

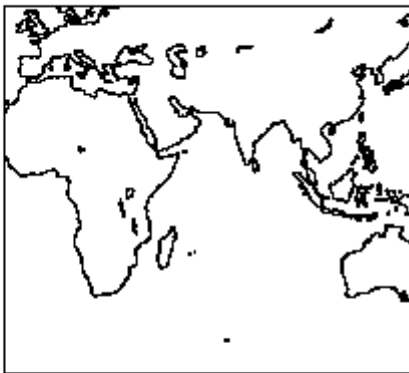
Mean Observation



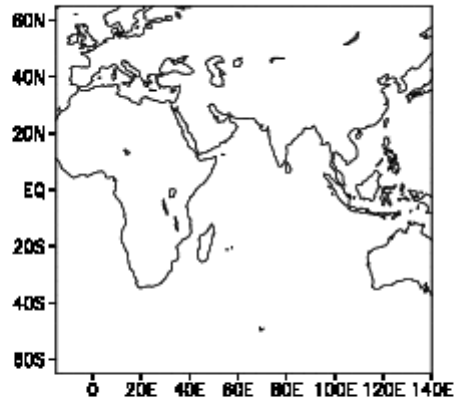
Mean Background



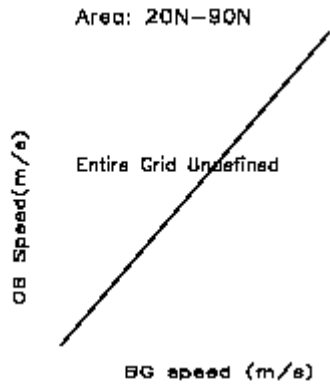
Mean Vector Difference



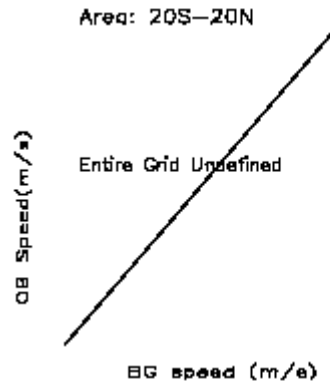
Number of winds



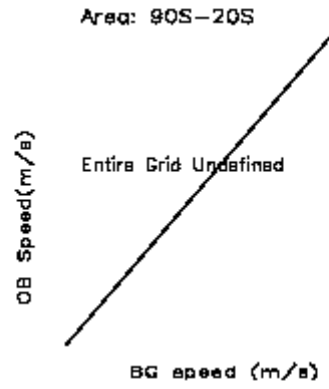
METEOSAT-7 IR, May 2017, High Level, Above 400 hPa



No. of OBS: 0
Bias : NaN
STD : NaN

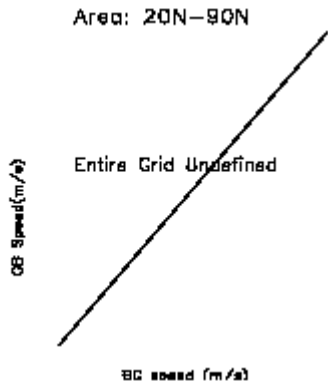


No. of OBS: 0
Bias : NaN
STD : NaN

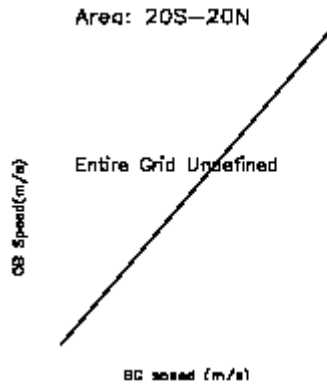


No. of OBS: 0
Bias : NaN
STD : NaN

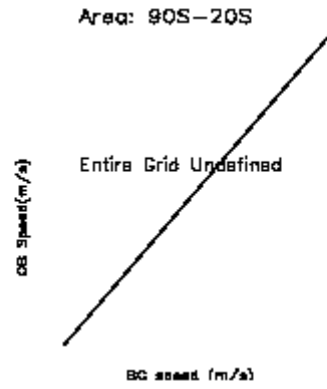
METEOSAT-7 IR, Mid Level, 700 - 401 hPa, May 2017



No. of OBS: 0
Bias : NaN
STD : NaN

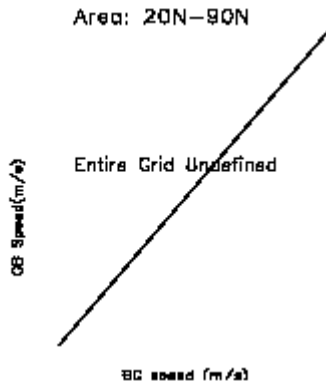


No. of OBS: 0
Bias : NaN
STD : NaN

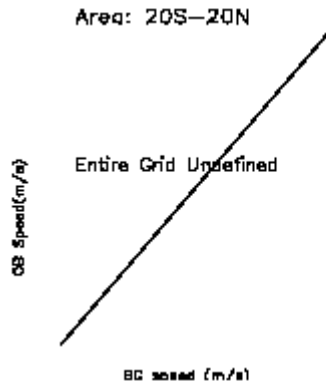


No. of OBS: 0
Bias : NaN
STD : NaN

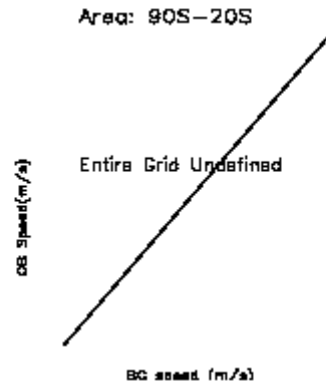
METEOSAT-7 IR, May 2017, Low Level, Below 700 hPa



No. of OBS: 0
Bias : NaN
STD : NaN

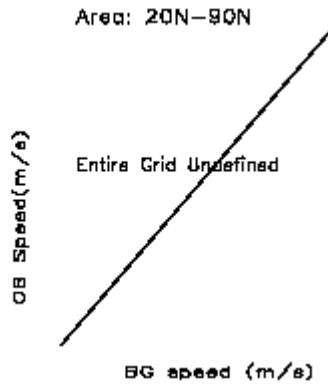


No. of OBS: 0
Bias : NaN
STD : NaN

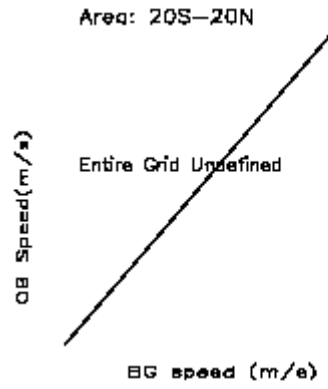


No. of OBS: 0
Bias : NaN
STD : NaN

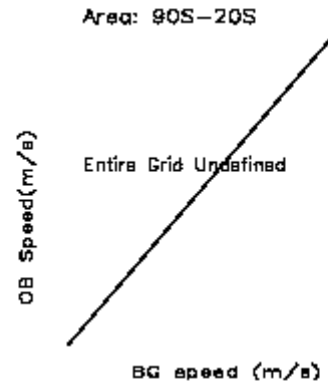
METEOSAT-7 WV, May 2017, High Level, Above 400 hPa



No. of OBS: 0
Bias : NaN
STD : NaN

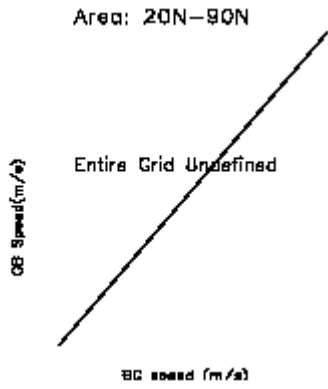


No. of OBS: 0
Bias : NaN
STD : NaN

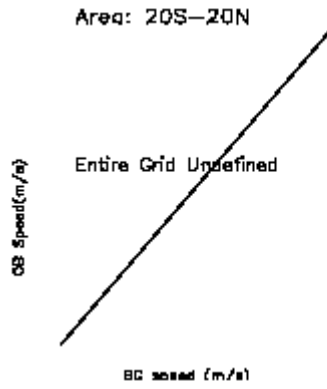


No. of OBS: 0
Bias : NaN
STD : NaN

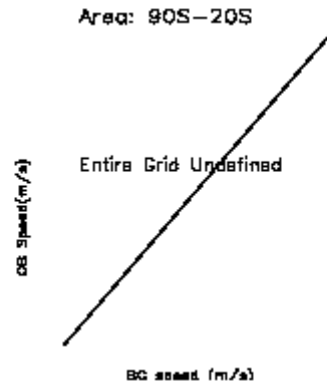
METEOSAT-7 VIS, May 2017, Low Level, Below 700 hPa



No. of OBS: 0
Bias : NaN
STD : NaN



No. of OBS: 0
Bias : NaN
STD : NaN



No. of OBS: 0
Bias : NaN
STD : NaN

METEOSAT-7 IR, High Level, Above 400 hPa, May 2017

O-B Speed Bias



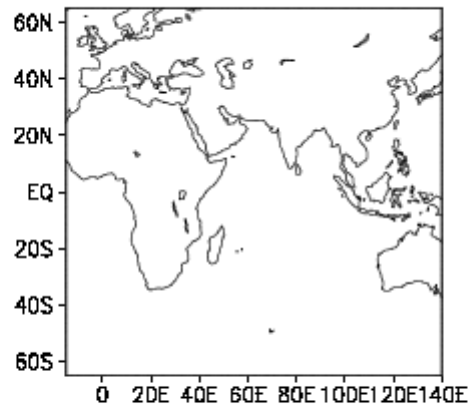
mean vector difference

Entire Grid Undefined

Normalised Root Mean Square Vector Diff

Entire Grid Undefined

NUMBER OF WINDS



METEOSAT-7 IR, Mid Level, 700 - 401 hPa, May 2017

O-B Speed Bias



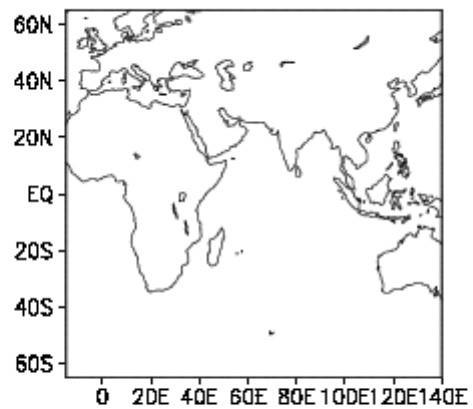
mean vector difference

Entire Grid Undefined

Normalised Root Mean Square Vector Diff

Entire Grid Undefined

NUMBER OF WINDS



METEOSAT-7 IR, Low Level, Below 700 hPa, May 2017

O-B Speed Bias



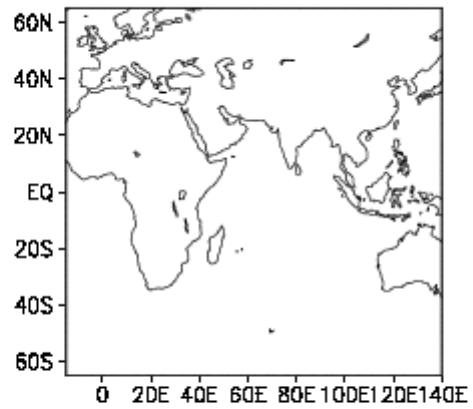
mean vector difference

Entire Grid Undefined

Normalised Root Mean Square Vector Diff

Entire Grid Undefined

NUMBER OF WINDS



METEOSAT-7 WV, Above 400 hPa, May 2017

O-B Speed Bias



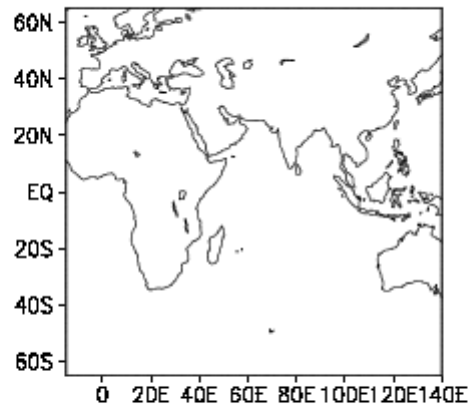
mean vector difference

Entire Grid Undefined

Normalised Root Mean Square Vector Diff

Entire Grid Undefined

NUMBER OF WINDS



METEOSAT-7 VIS, Low Level, Below 700 hPa, May 2017

O-B Speed Bias



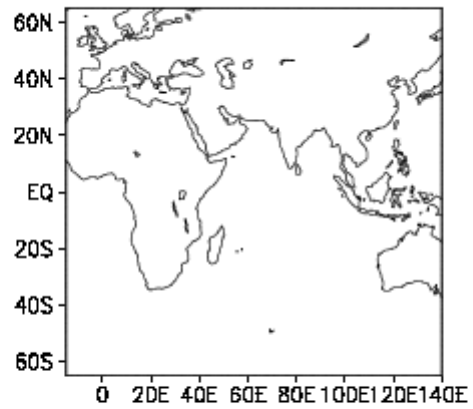
mean vector difference

Entire Grid Undefined

Normalised Root Mean Square Vector Diff

Entire Grid Undefined

NUMBER OF WINDS



METEOSAT-7 IR, May 2017

O-B Speed Bias

mean vector difference

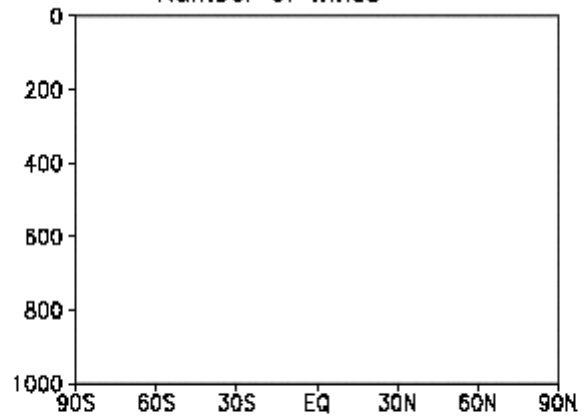
Entire Grid Undefined

Entire Grid Undefined

Normalised Root Mean Square Vector Diff

NUMBER OF WINDS

Entire Grid Undefined



METEOSAT-7 WV, May 2017

O-B Speed Bias

mean vector difference

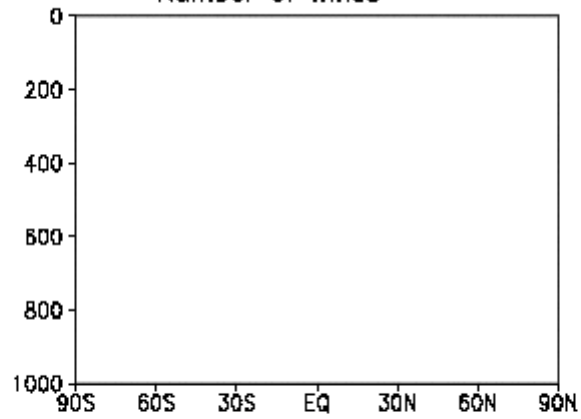
Entire Grid Undefined

Entire Grid Undefined

Normalised Root Mean Square Vector Diff

NUMBER OF WINDS

Entire Grid Undefined



METEOSAT-7 VIS, May 2017

O-B Speed Bias

mean vector difference

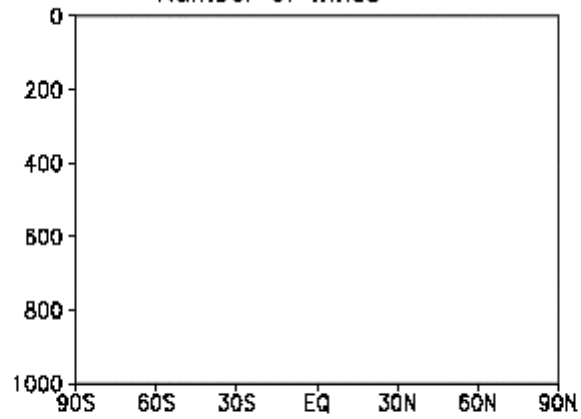
Entire Grid Undefined

Entire Grid Undefined

Normalised Root Mean Square Vector Diff

NUMBER OF WINDS

Entire Grid Undefined



Validation against
Insitu Observations

METEOSAT-7 SATELLITE AMVS
(Comparison against Insitu Observations)
Reporting Period: 01 05 2017 - 31 05 2017

NORTHERN HEMISPHERE

	Mean AMV WS	Mean INSITU WS	Speed Bias	RMSVD	Number of Collocations
Hig Lev IR:	0.00	0.00	0.00	0.00	0
Mid Lev IR:	0.00	0.00	0.00	0.00	0
Low Lev IR:	0.00	0.00	0.00	0.00	0
Hig Lev WV:	0.00	0.00	0.00	0.00	0
Low Lev VIS:	0.00	0.00	0.00	0.00	0

TROPICS

	Mean AMV WS	Mean INSITU WS	Speed Bias	RMSVD	Number of Collocations
Hig Lev IR:	0.00	0.00	0.00	0.00	0
Mid Lev IR:	0.00	0.00	0.00	0.00	0
Low Lev IR:	0.00	0.00	0.00	0.00	0
Hig Lev WV:	0.00	0.00	0.00	0.00	0
Low Lev VIS:	0.00	0.00	0.00	0.00	0

SOUTHERN HEMISPHERE

	Mean AMV WS	Mean INSITU WS	Speed Bias	RMSVD	Number of Collocations
Hig Lev IR:	0.00	0.00	0.00	0.00	0
Mid Lev IR:	0.00	0.00	0.00	0.00	0
Low Lev IR:	0.00	0.00	0.00	0.00	0
Hig Lev WV:	0.00	0.00	0.00	0.00	0
Low Lev VIS:	0.00	0.00	0.00	0.00	0

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