

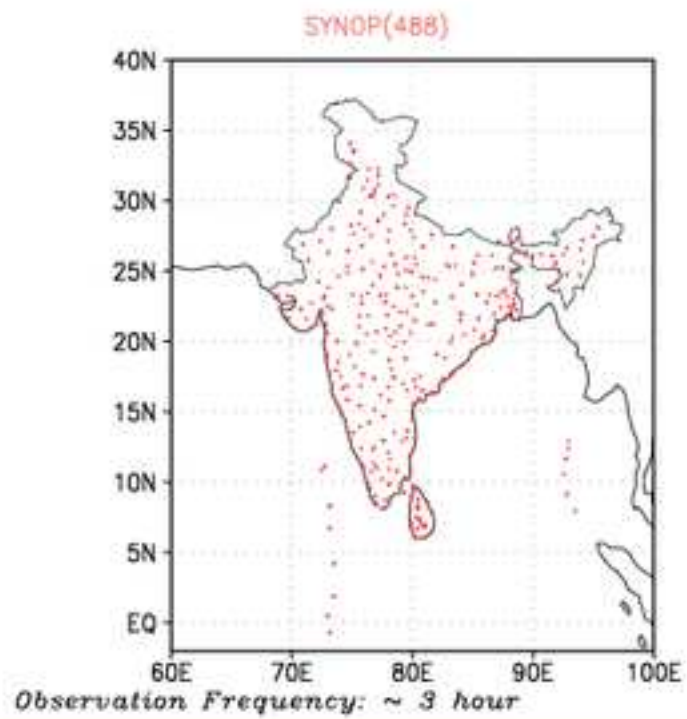
Observation Monitoring

based on data
received/decoded at NCMRWF
(within operational data cut-off)
and NGFS GDAS

for 22052017 (1200 UTC)

Indian Observation Coverage

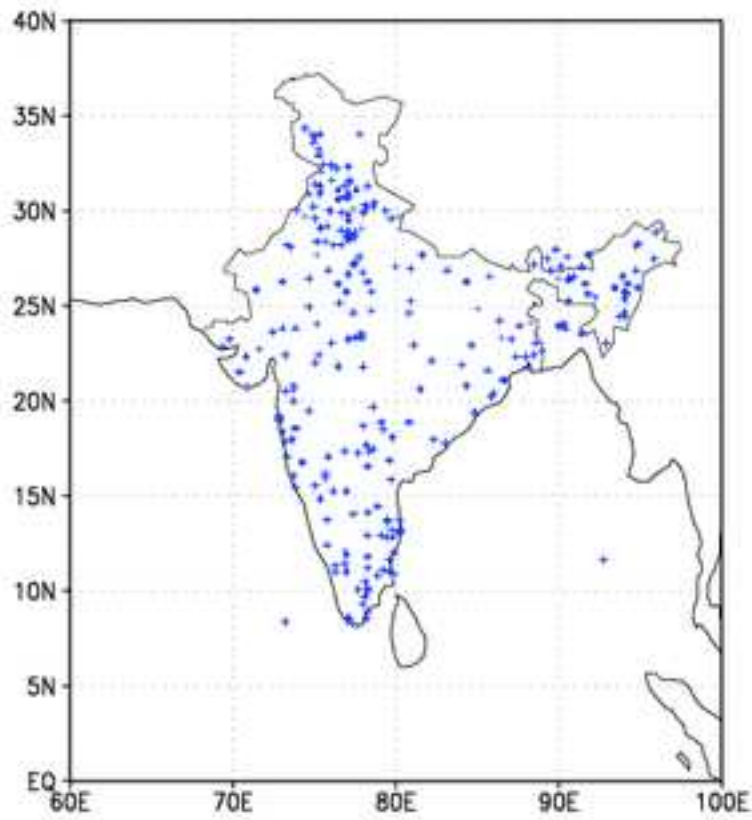
Data Coverage: Surface (22052017 1200UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 488
(42 & 43 Block)



Data Coverage: Indian AWS (22052017 1200UTC +/- 3 Hrs)

Total Number of Observations Received at NCMRWF: 1321

AWS PRESSURE (1321)

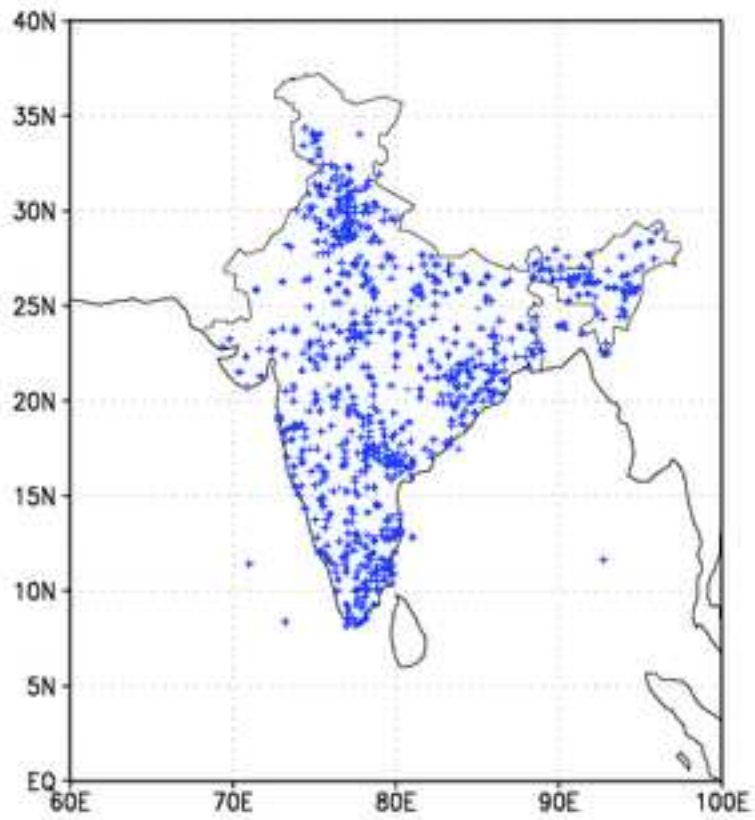


Observation Frequency: ~ 1 hour

Data Coverage: Indian AWS (22052017 1200UTC +/- 3 Hrs)

Total Number of Observations Received at NCMRWF: 4093

AWS + ARG (4093)

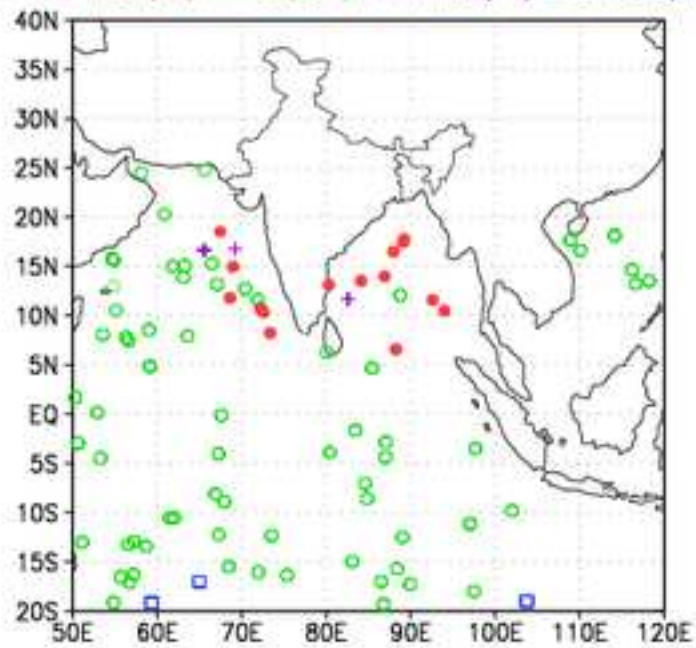


Observation Frequency: ~ 1 hour

Data Coverage: BUOY (22052017 1200UTC +/- 3 Hrs)

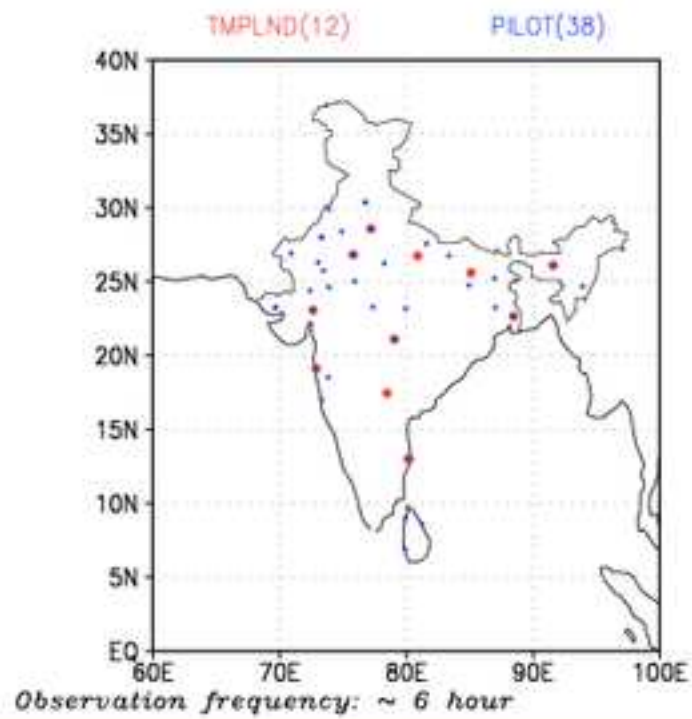
Total Number of Observations Received at NCMRWF: 424

country code in GTS as ● INDIA(30) ○ USA(331) + FRANCE(41) □ OTHERS(22)



Observation Frequency: ~ 1 hour & ~ 3 hour (India)

Data Coverage: Sonde (22052017 1200UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 50
(42 & 43 Block)



Count for different types of observation (Over Indian Region)
for the last 45 days (valid for 12 UTC)

SYN0P

Avg=
Today_Cnt=
Dep= %

BUOY

Avg=
Today_Cnt=
Dep= %

AWS+ARG

Avg=
Today_Cnt=
Dep= %

RS/RW

Avg=
Today_Cnt=
Dep= %

PILOT

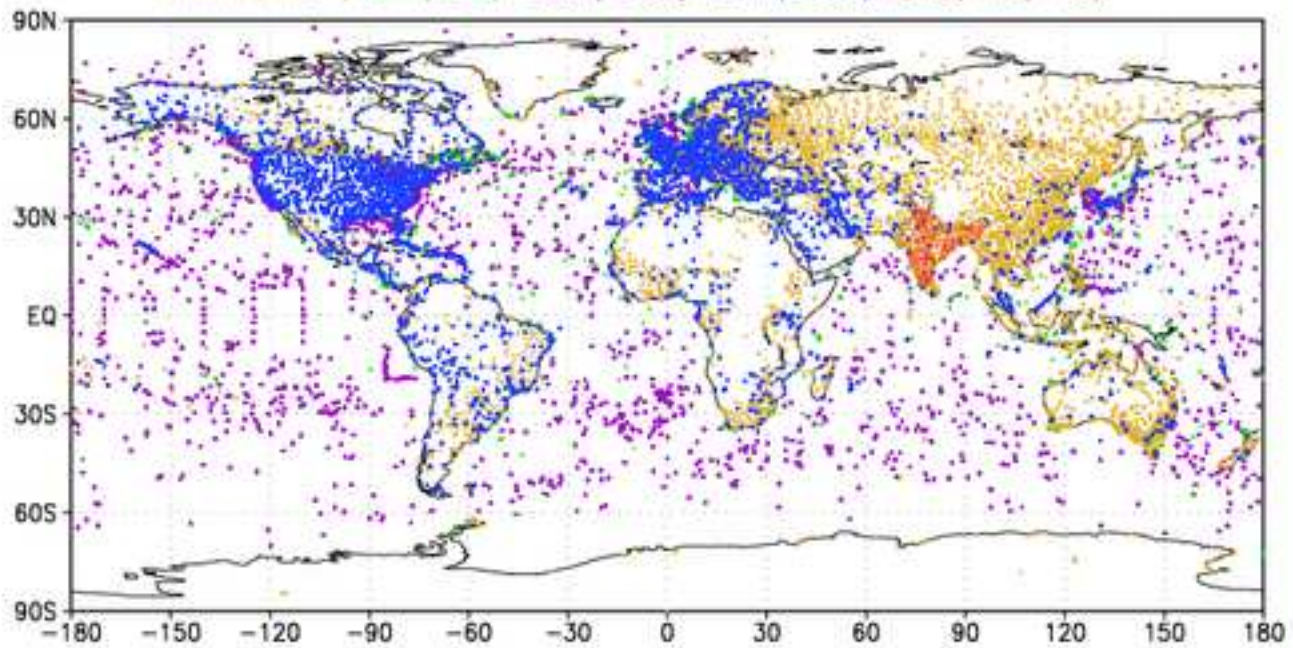
Avg=
Today_Cnt=
Dep= %

Global Observation Coverage

Data Coverage: Surface (22052017 1200UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 57315

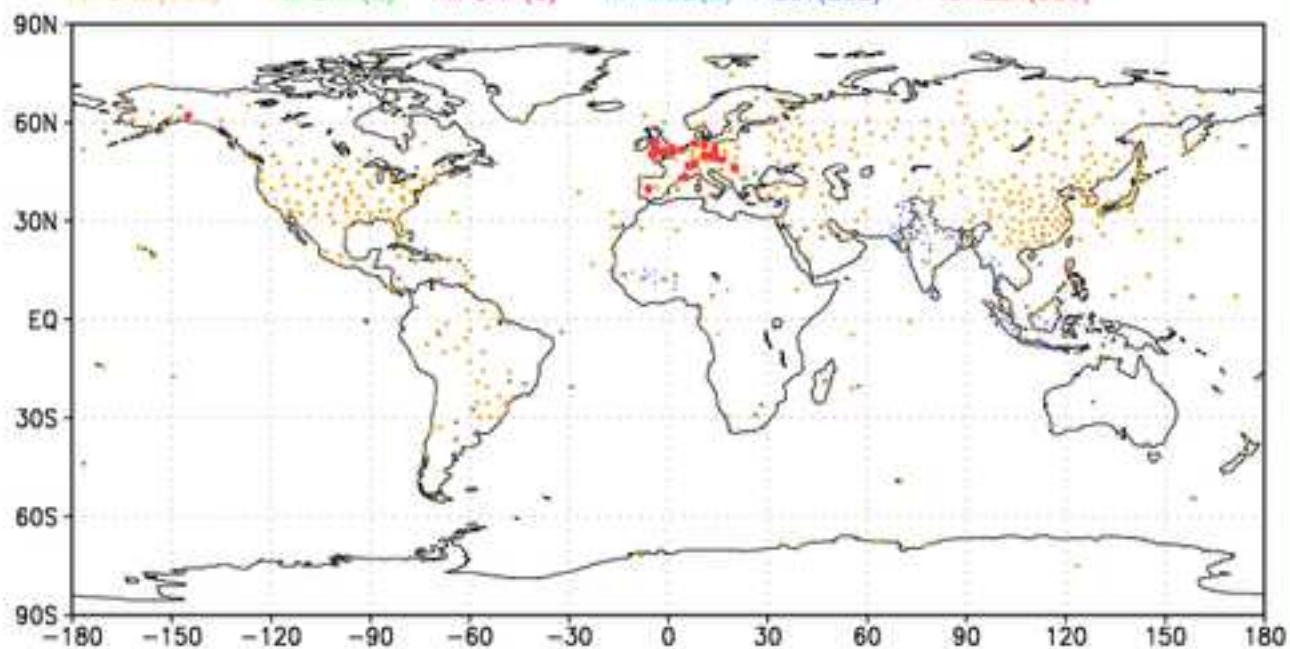
LNDSYN(15583) SHIP(2242) BUOY(13482) METAR(21273) MOBILE/AWS(4735)



Data Coverage: Sonde (22052017 1200UTC +/- 03Hrs)

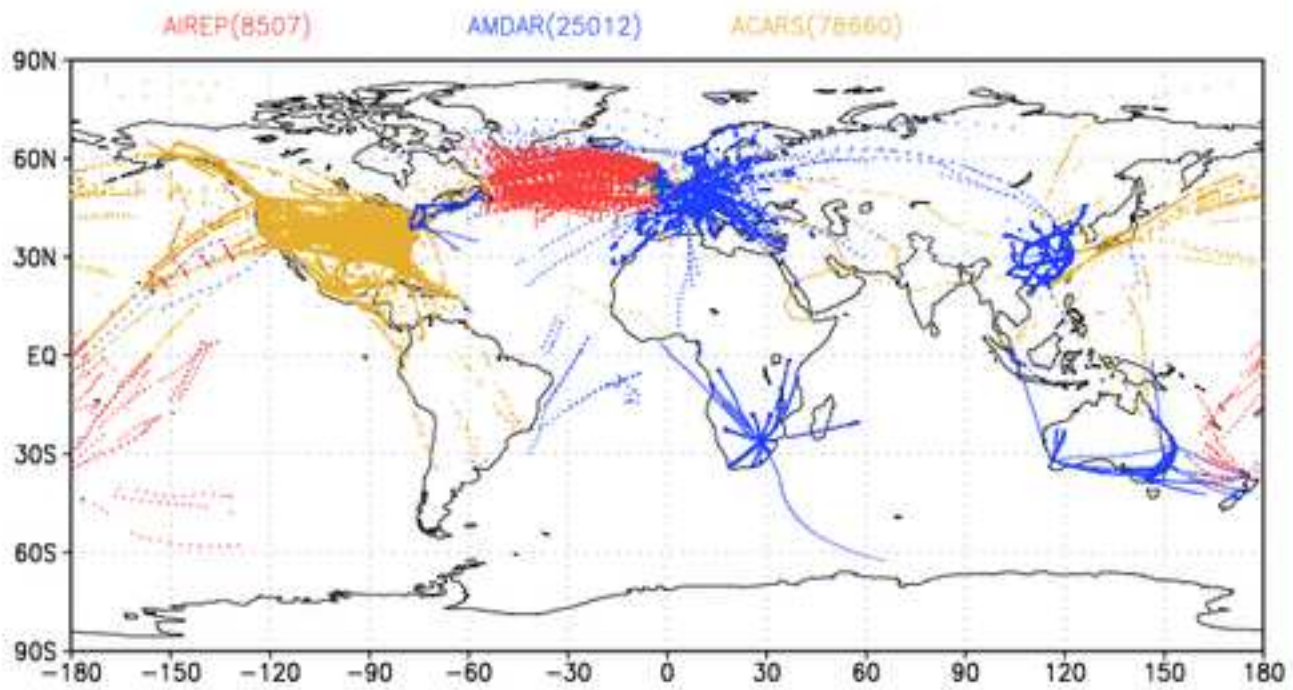
Total Number of Observations Received at NCMRWF: 1708

TMP LND(866) TMP SHP(0) TMP DRP(0) TMP MDB(0) PILOT(252) PROFILER(590)



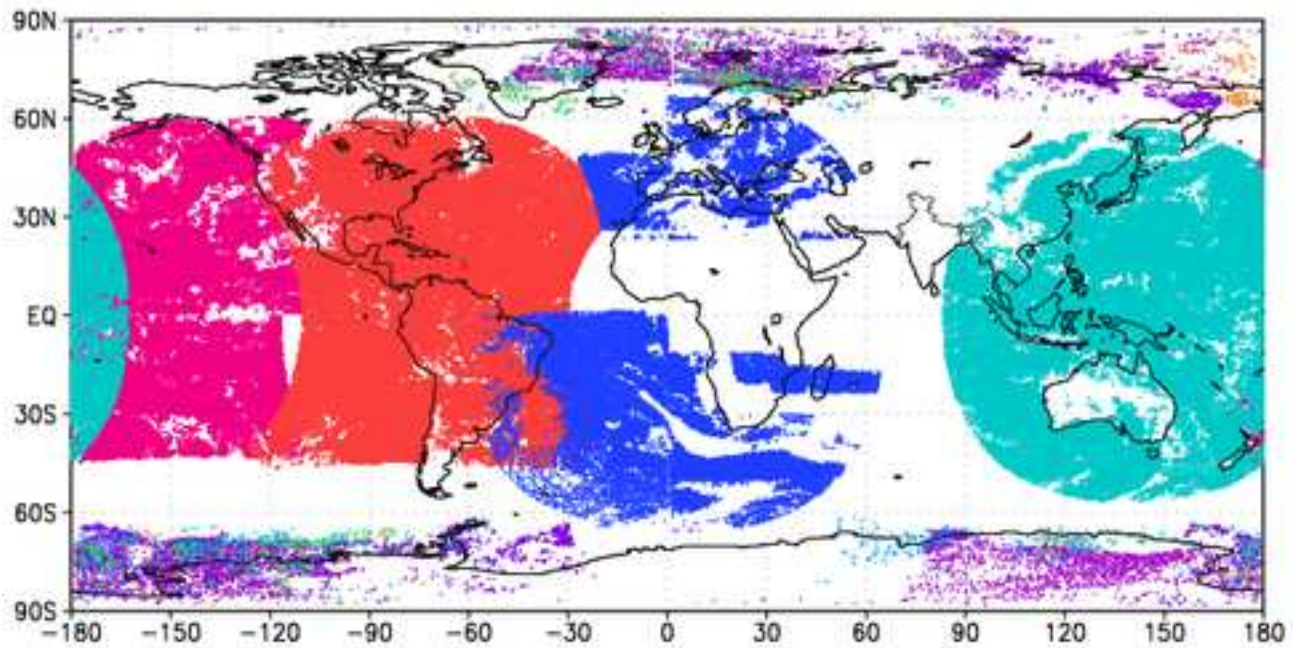
Data Coverage: AIRCFT (22052017 1200UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 112179



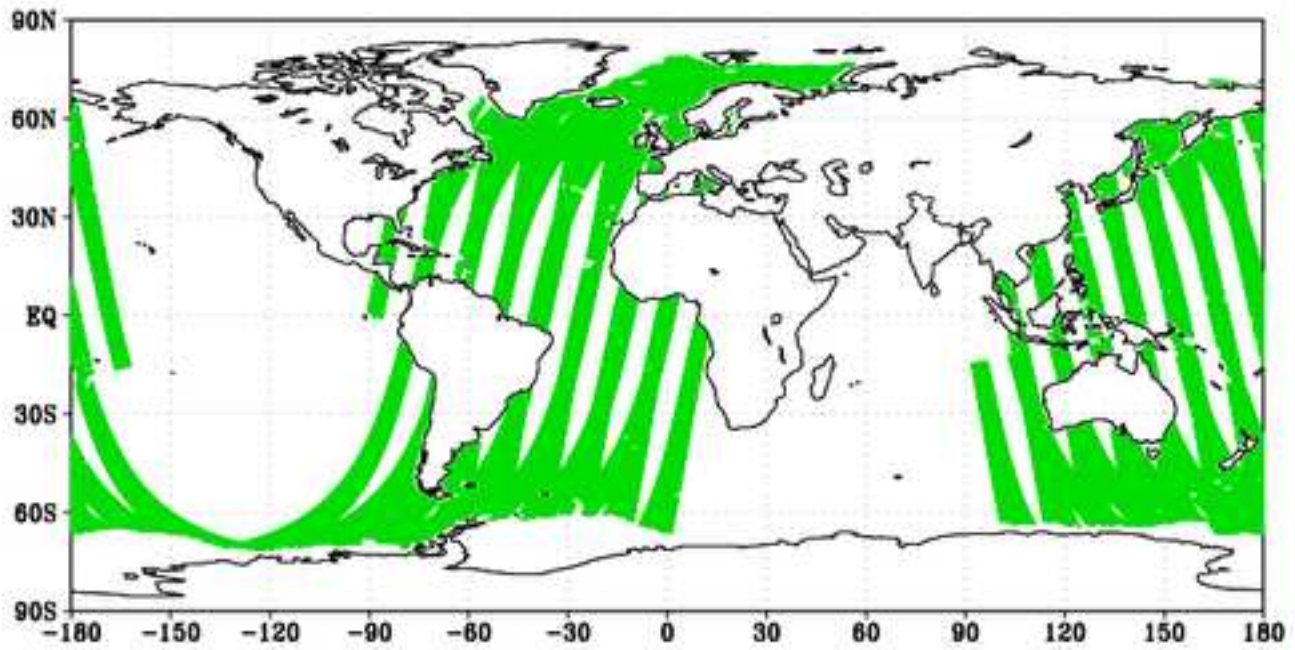
Data Coverage: AMV (22052017 1200UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 699414

GOES-15(169958) GOES-13(278530) METEOSAT-7(0) METEOSAT-8(0)
METEOSAT-10(51650) GMS/MTSAT(124343) MODIS/Terra(1597) MODIS/Aqua(5162)
METOP(8204) NOAA-15(1074) NOAA-16(0) NOAA-18(1186) NOAA-19(1370)



Data Coverage: ASCAT winds (22052017 12UTC +/- 03Hrs)

ASCAT (243629)



Data Coverage: SAT RADIANCE (22052017 1200UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 3888302

NOAA15(81793)

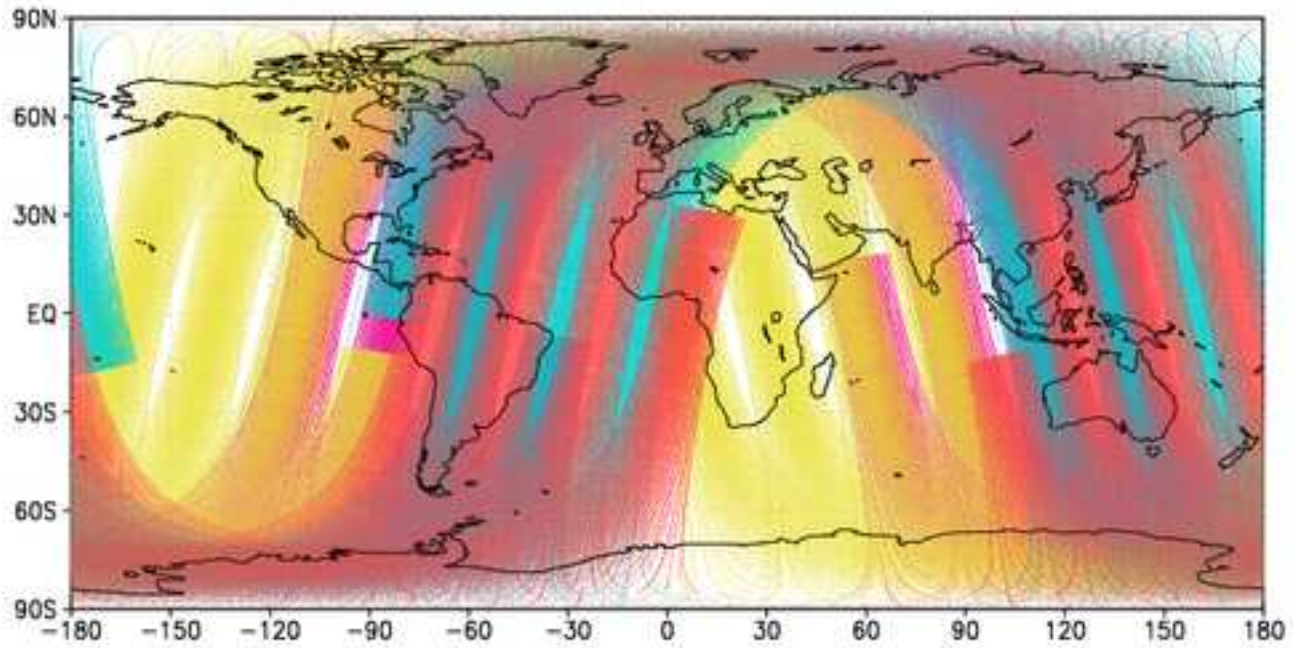
NOAA18(0)

NOAA18(999762)

NOAA18(1047331)

METOP1(825568)

METOP2(979848)



Data Coverage: SAT RADIANCE (EARS+IMD RARS) (22052017 1200UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 161233

NOAA15(0)

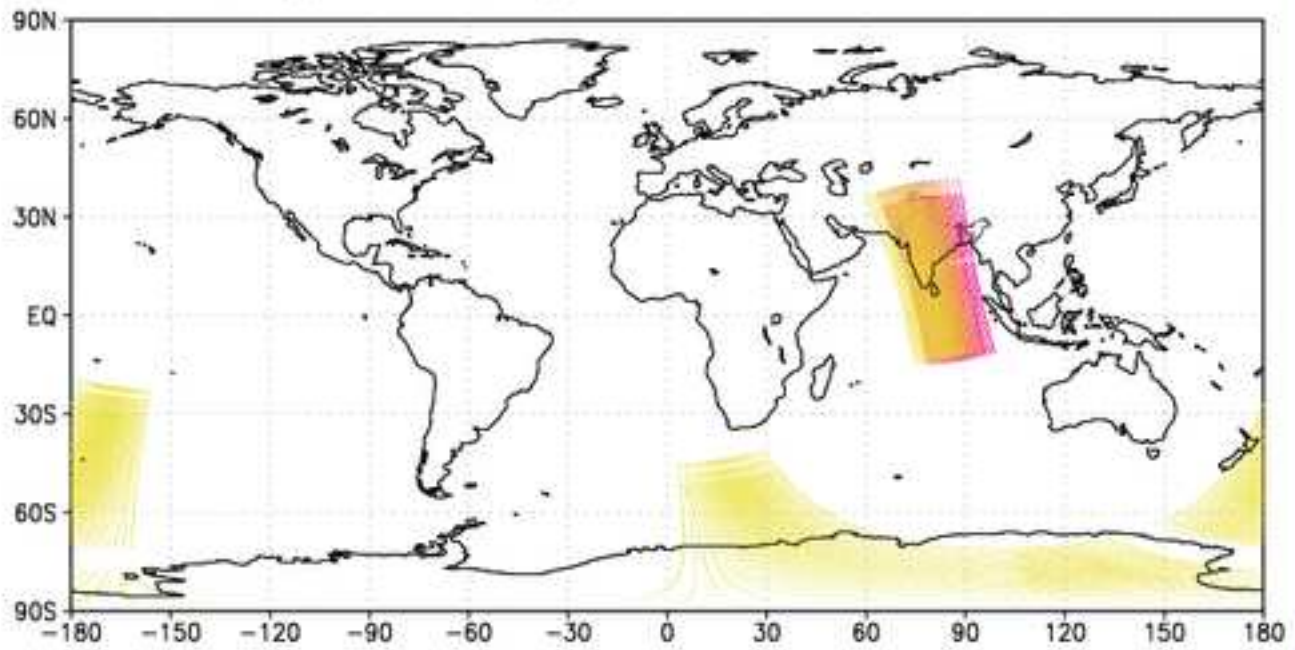
NOAA18(0)

NOAA18(39320)

NOAA18(121812)

METOP1(0)

METOP2(0)

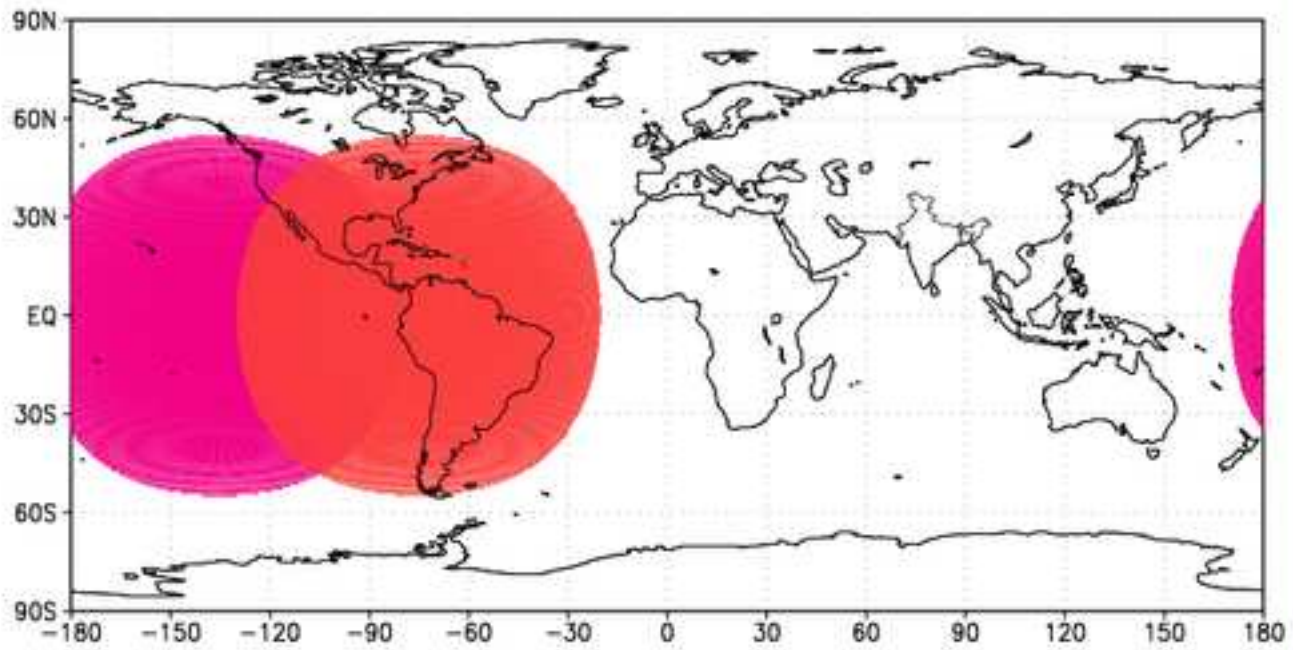


Data Coverage: GOES CSBT (22052017 1200UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 84777

GOES-15(42392)

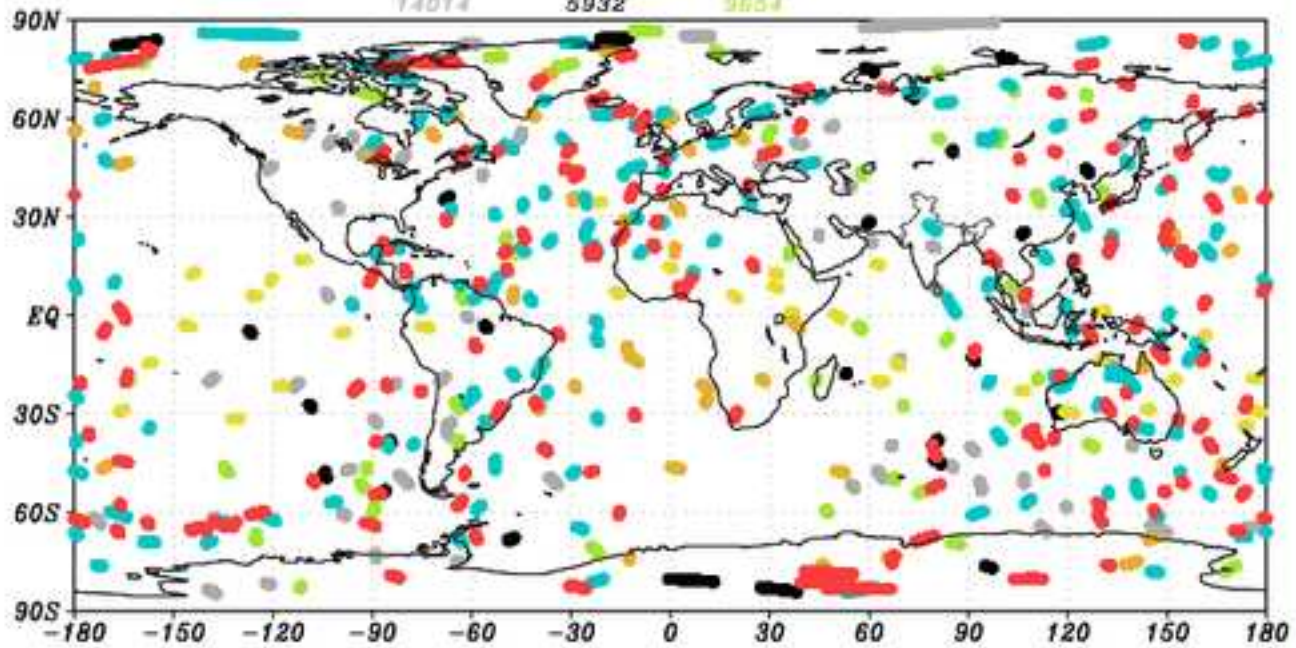
GOES-13(42385)



Data Coverage:GPSRO (22052017 1200UTC +/-03Hrs)

Total Number of Observations Received at NCMRWF: 118936

GRACE-A	METOP-B	METOP-A	COSMIC-1	COSMIC-2	COSMIC-3	COSMIC-4	COSMIC-5	COSMIC-6
0	34808	35382	0	0	6203	0	0	12943
			TerraSAR-X	TenDEM-X	GRACE-B			
			14014	5932	3654			



Count for different types of observation (Global)
for the last 45 Days (valid for 12 UTC)

SYNOP

Avg=
Today_Cnt=
Dep= %

SHIP

Avg=
Today_Cnt=
Dep= %

BUOY

Avg=
Today_Cnt=
Dep= %

AIRCRAFT

Avg=
Today_Cnt=
Dep= %

RS/RW

Avg=
Today_Cnt=
Dep= %

PILOT

Avg=
Today_Cnt=
Dep= %

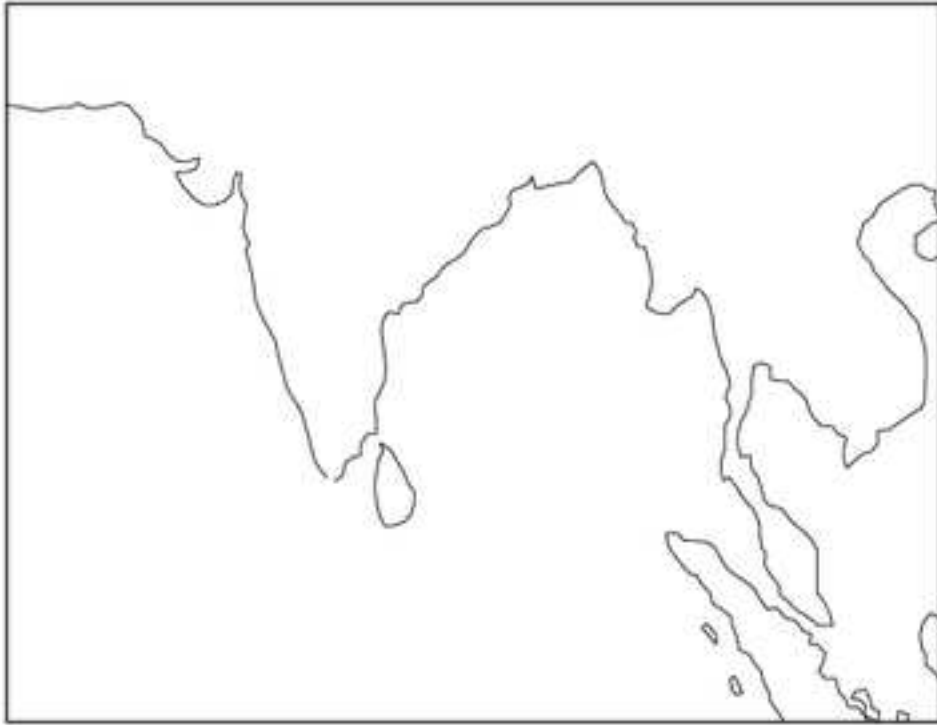
AMV

Avg=
Today_Cnt=
Dep= %

SCATTEROMETER WIND VECTORS

RECEIVED AT NCMRWF (20170522 12Z)

ASCAT WINDS (22052017 12 UTC):NCMRWF



INSAT-3D

ATMOSPHERIC MOTION VECTORS (AMV)

{ INFRA-RED WINDS [IR (10.8 & 3.8)]

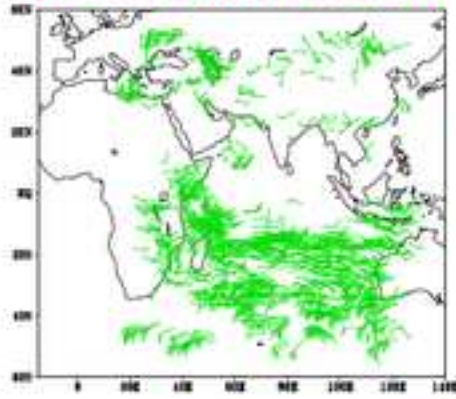
WATER VAPOUR WINDS (WV)

VISIBLE WINDS (VIS) }

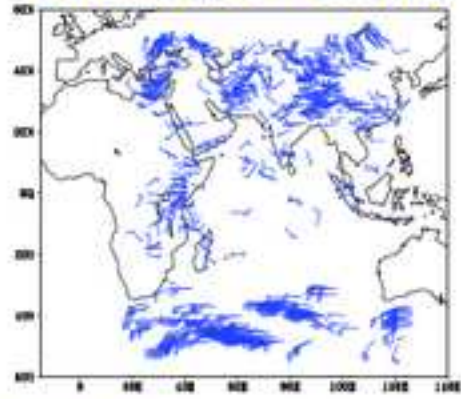
AMV DEVIATION
(OBSERVATION - FIRST GUESS)

INSAT-3D ATMOSPHERIC MOTION VECTORS (IR,10.8) (22052017 1200UTC)

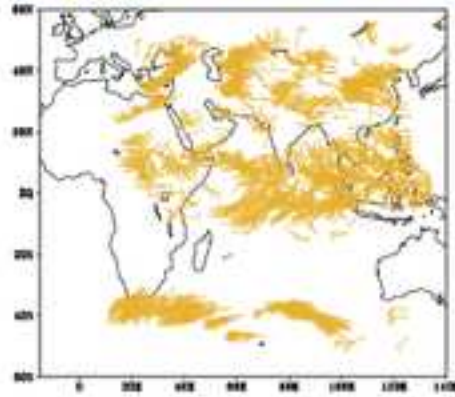
Low Level (Below 700 hPa)



Mid Level (700 - 401 hPa)



High Level (Above 400 hPa)



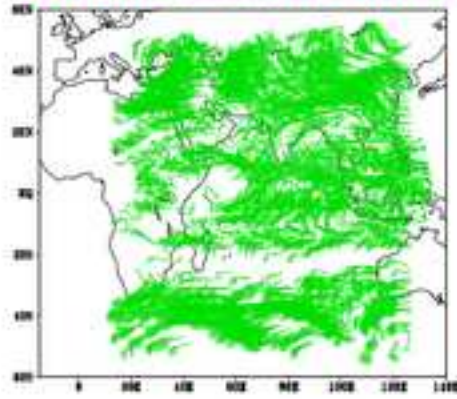
INSAT-3D ATMOSPHERIC MOTION VECTORS (IR,3.8) (22052017 1200UTC)

Low Level (Below 700 hPa)

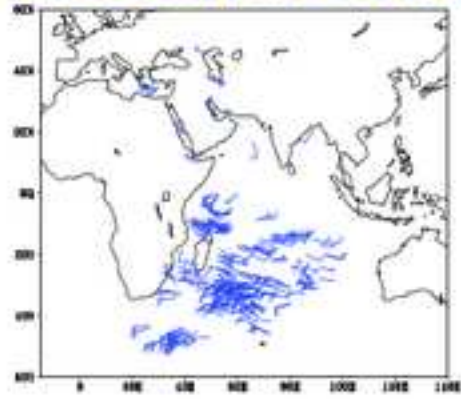
Mid Level (700 - 401 hPa)

INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) (22052017 1200UTC)

WV, High Level (Above 400 hPa)

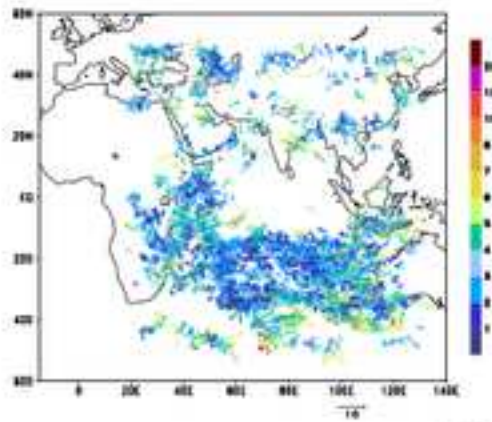


VIS, Low Level (Below 700 hPa)

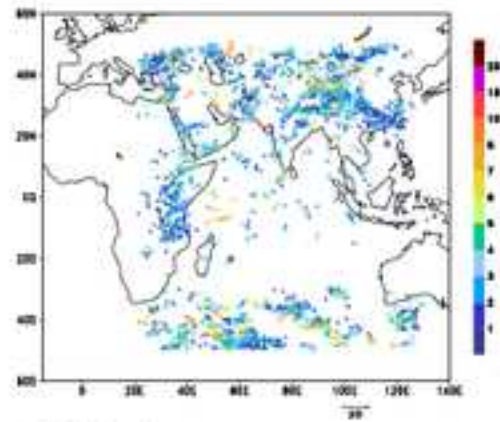


INSAT-3D ATMOSPHERIC MOTION VECTORS (IR,10.8) DEVIATION (22052017 1200UTC)

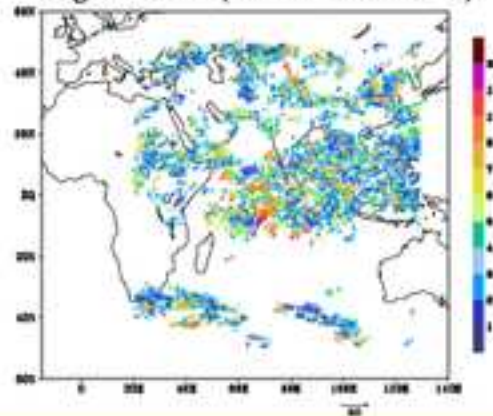
Low Level (Below 700 hPa)



Mid Level (700 - 401 hPa)



High Level (Above 400 hPa)



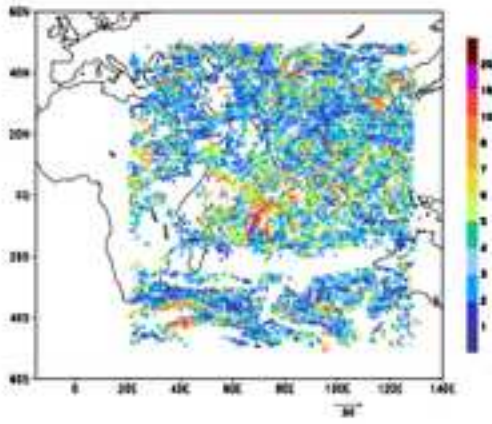
INSAT-3D ATMOSPHERIC MOTION VECTORS (IR,3.8) DEVIATION (22052017 1200UTC)

Low Level (Below 700 hPa)

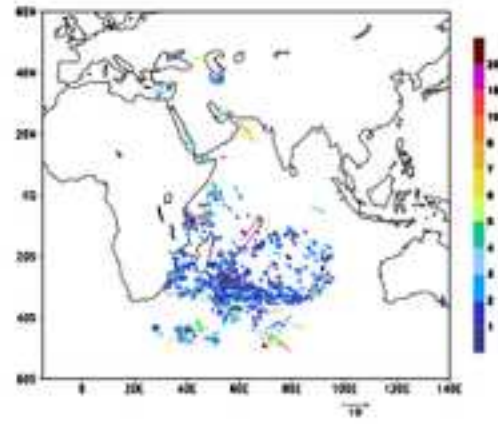
Mid Level (700 - 401 hPa)

INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) DEVIATION (22052017 1200UTC)

WV, High Level (Above 400 hPa)

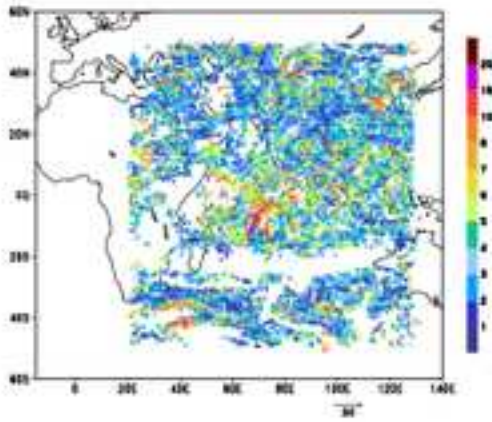


VIS, Low level (Below 700 hPa)

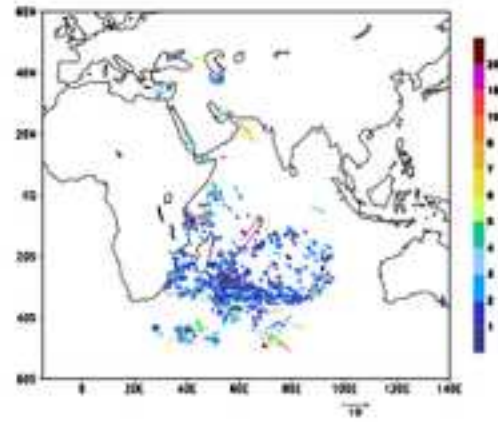


INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) DEVIATION (22052017 1200UTC)

WV, High Level (Above 400 hPa)

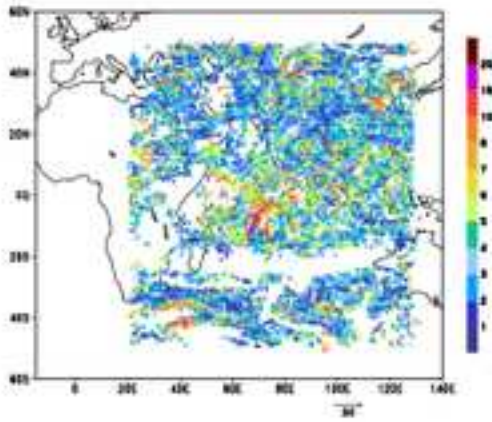


VIS, Low level (Below 700 hPa)

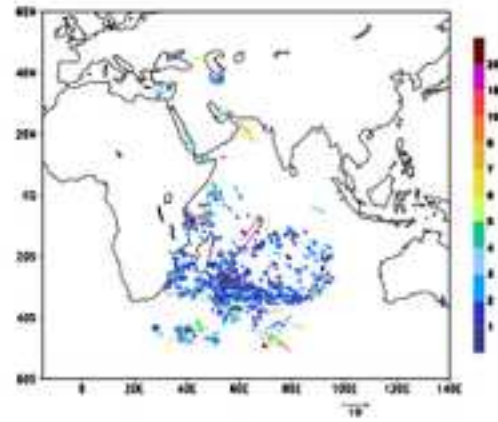


INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) DEVIATION (22052017 1200UTC)

WV, High Level (Above 400 hPa)

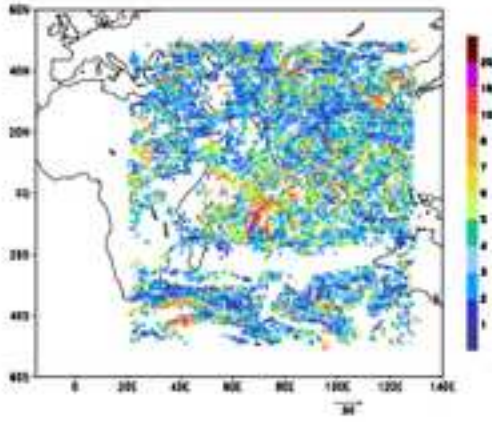


VIS, Low level (Below 700 hPa)

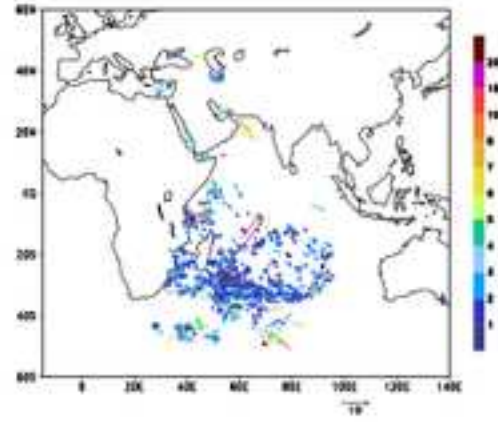


INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) DEVIATION (22052017 1200UTC)

WV, High Level (Above 400 hPa)

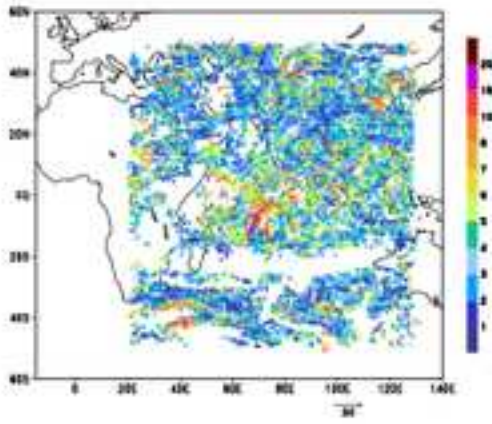


VIS, Low level (Below 700 hPa)

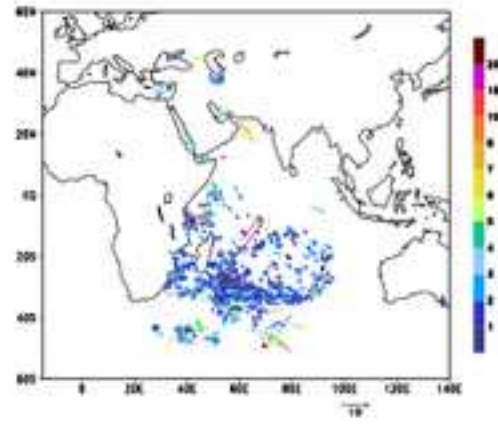


INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) DEVIATION (22052017 1200UTC)

WV, High Level (Above 400 hPa)



VIS, Low level (Below 700 hPa)

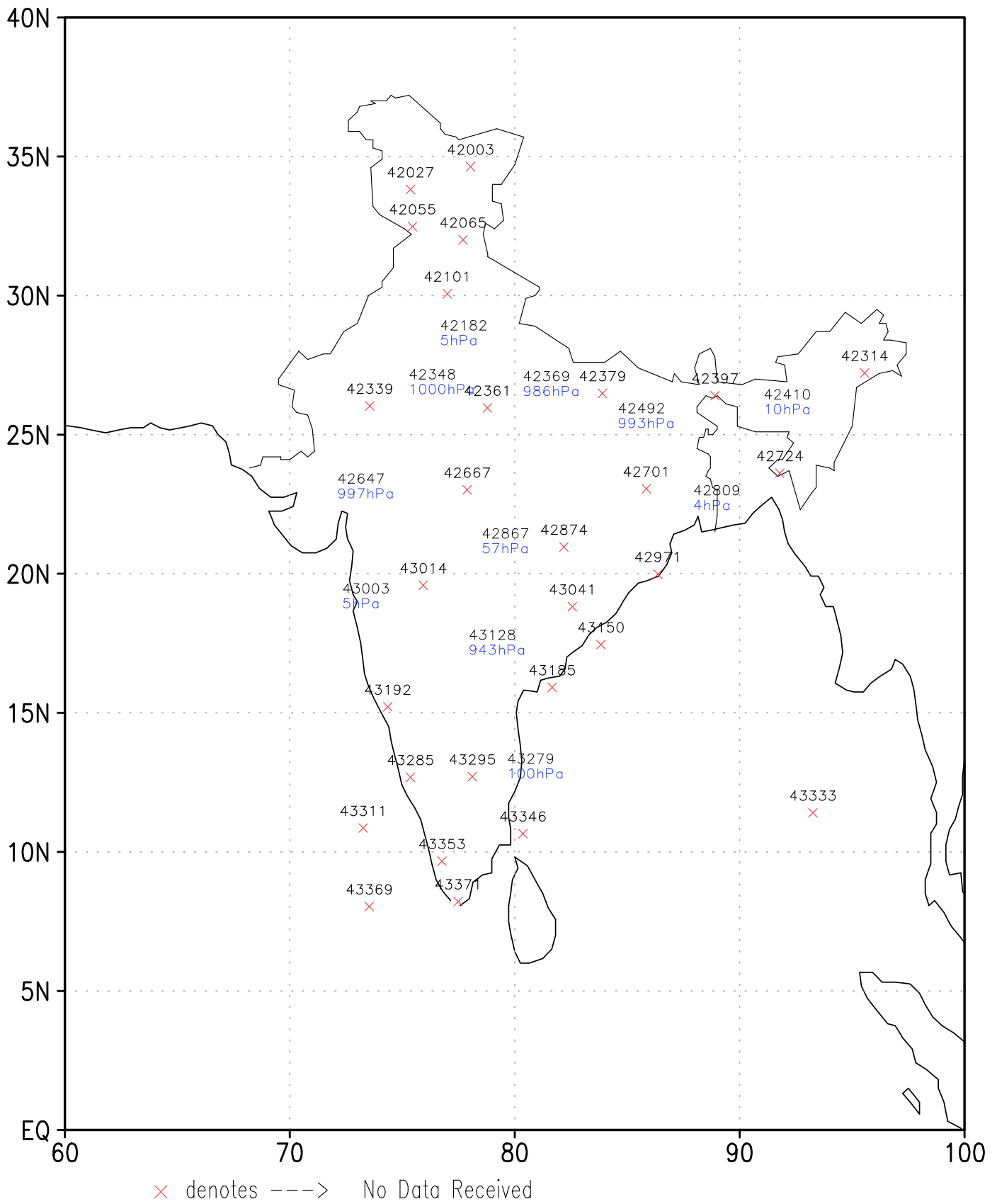


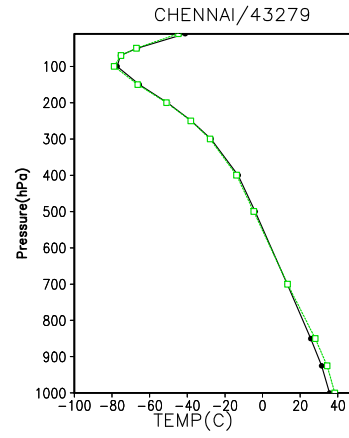
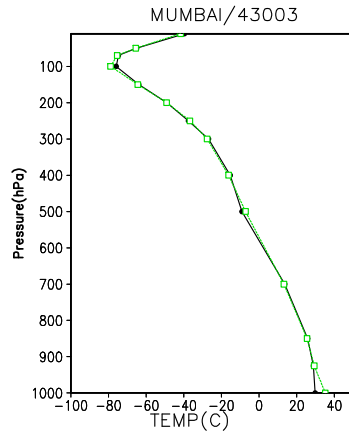
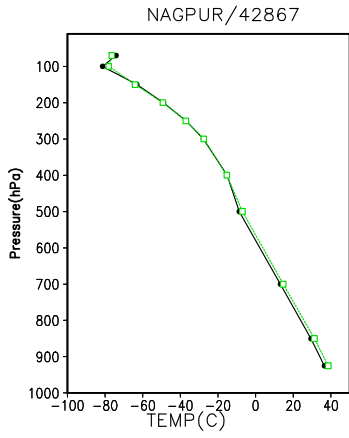
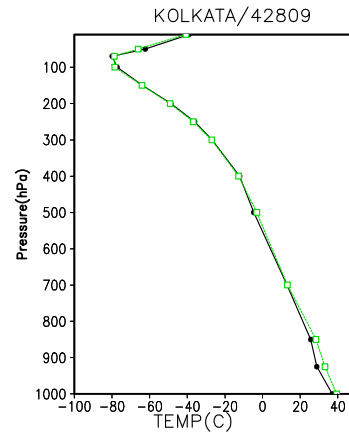
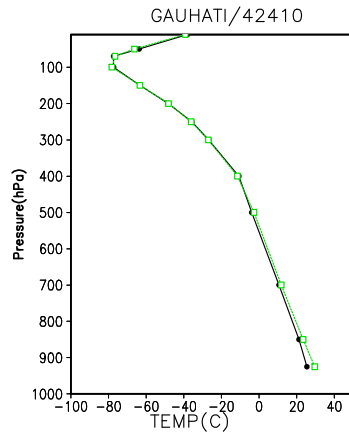
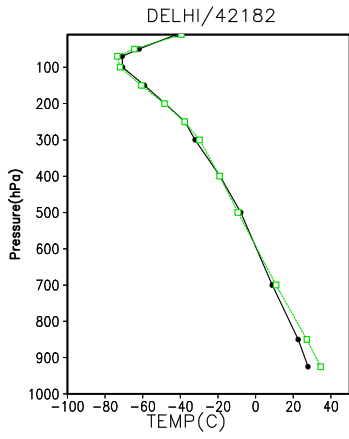
Quality of Indian RS/RW Observations

Maximum height reported
by RS/RW ascents

Temperature and Zonal Wind
Rejections by NGFS GDAS

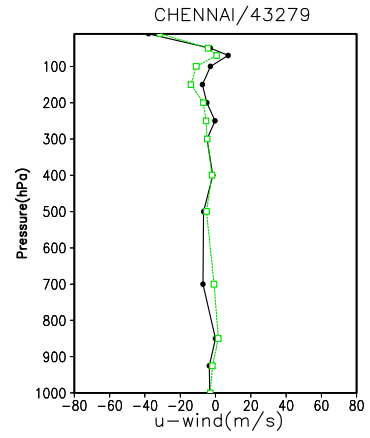
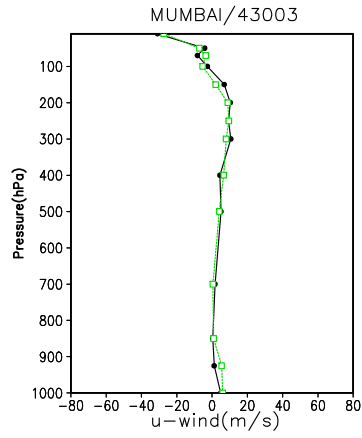
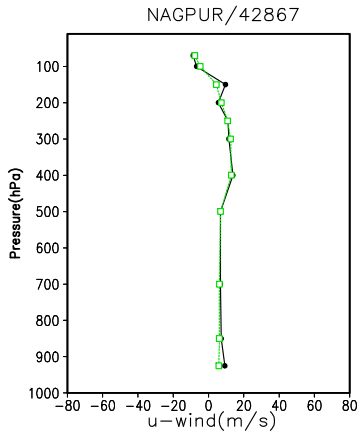
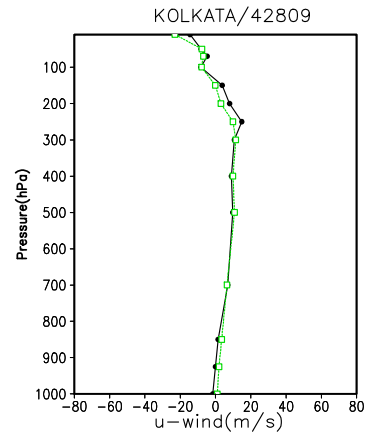
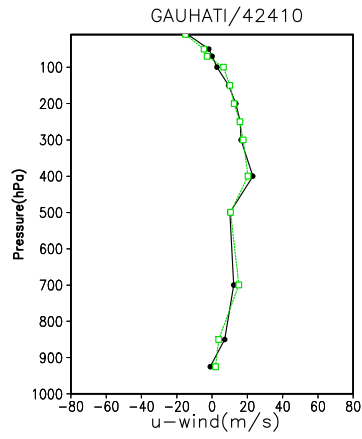
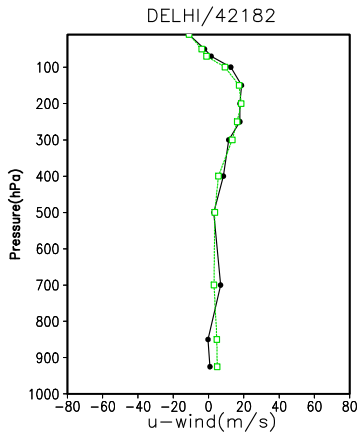
Highest Level Reported by RS/RW (22052017 1200UTC +/- 03Hrs)





Observed (—) and 1st-guess (—) Temperature (Deg C) for 12UTC 22052017

× -- denotes the rejection of observation by NGFS GDAS
(plotted for standard pressure levels only)



Observed (—) and 1st-guess (—) Zonal wind (m/s) for 12UTC 22052017
 × -- denotes the rejection of observation by NGFS GDAS
 (plotted for standard pressure levels only)