

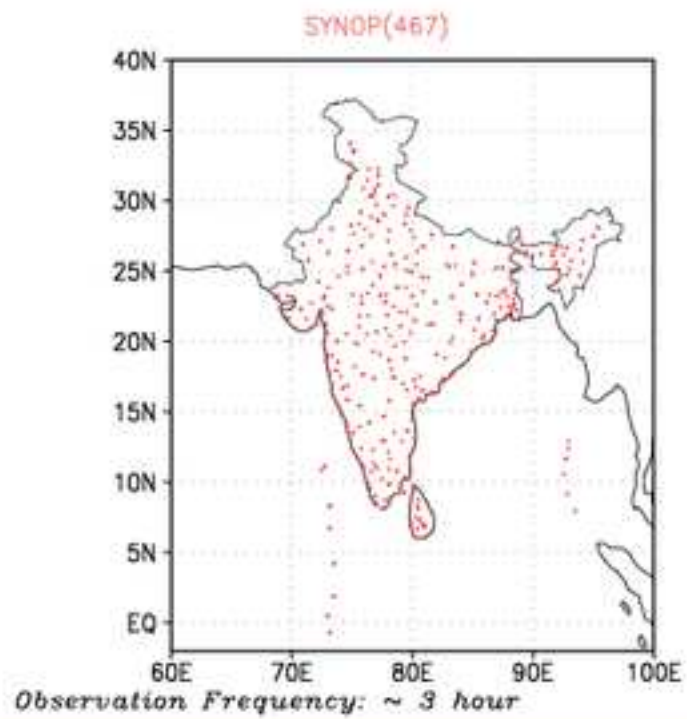
Observation Monitoring

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

for 21082017 (1200 UTC)

Indian Observation Coverage

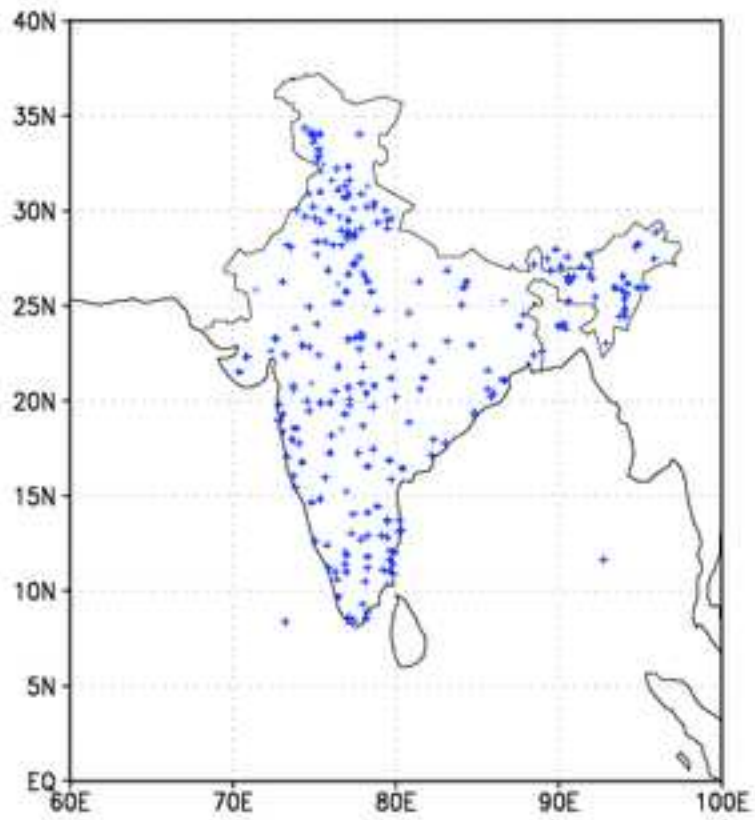
Data Coverage: Surface (21082017 1200UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 467
(42 & 43 Block)



Data Coverage: Indian AWS (21082017 1200UTC +/- 3 Hrs)

Total Number of Observations Received at NCMRWF: 1305

AWS PRESSURE (1305)

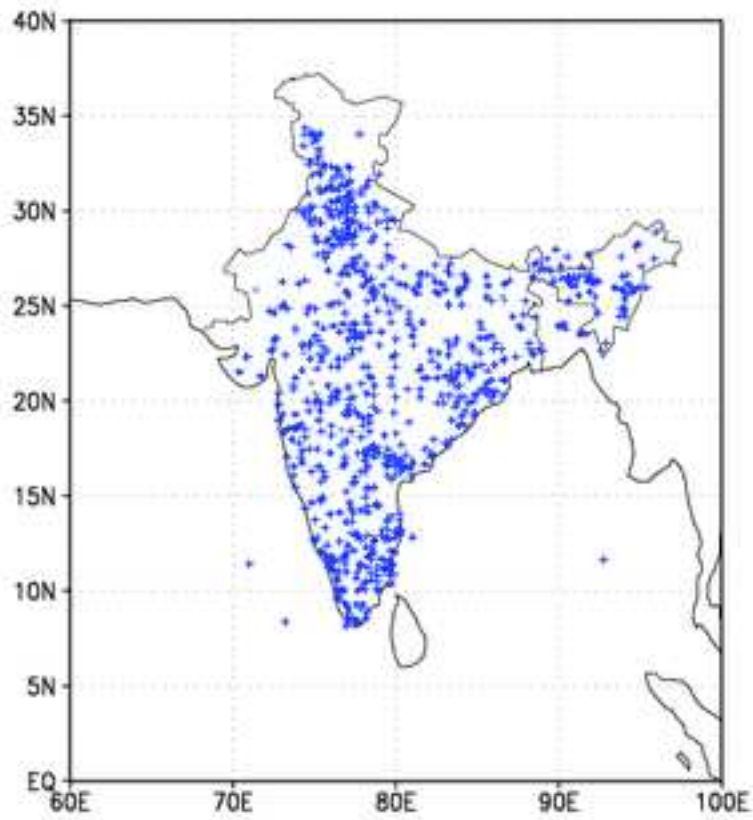


Observation Frequency: ~ 1 hour

Data Coverage: Indian AWS (21082017 1200UTC +/- 3 Hrs)

Total Number of Observations Received at NCMRWF: 4237

AWS + ARG (4237)

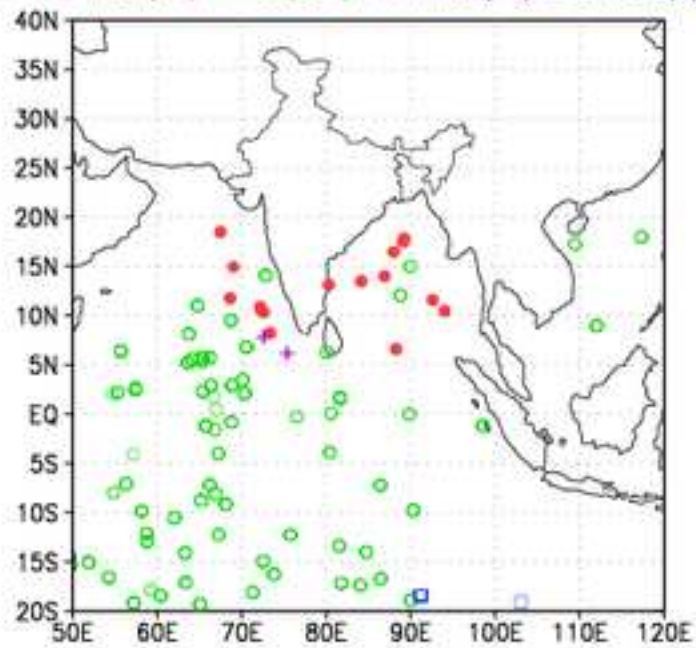


Observation Frequency: ~ 1 hour

Data Coverage: BUOY (21082017 1200UTC +/- 3 Hrs)

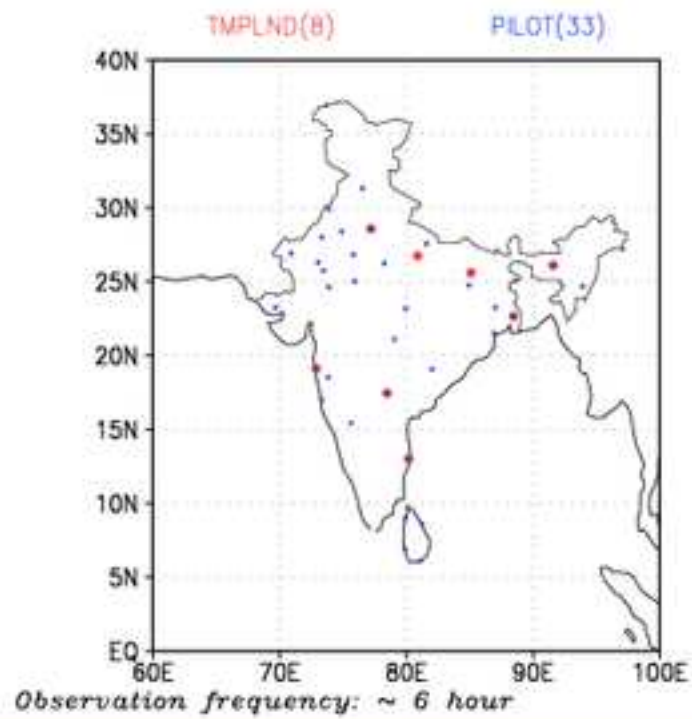
Total Number of Observations Received at NCMRWF: 412

country code in GTS as ● INDIA(31) ○ USA(354) + FRANCE(18) □ OTHERS(9)



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

Data Coverage: Sonde (21082017 1200UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 41
(42 & 43 Block)



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

SYNOP

Avg=
Today_Cnt=
Dep= %

BUOY

Avg=
Today_Cnt=
Dep= %

AWS+ARG

Avg=
Today_Cnt=
Dep= %

RS/RW

Avg=
Today_Cnt=
Dep= %

PILOT

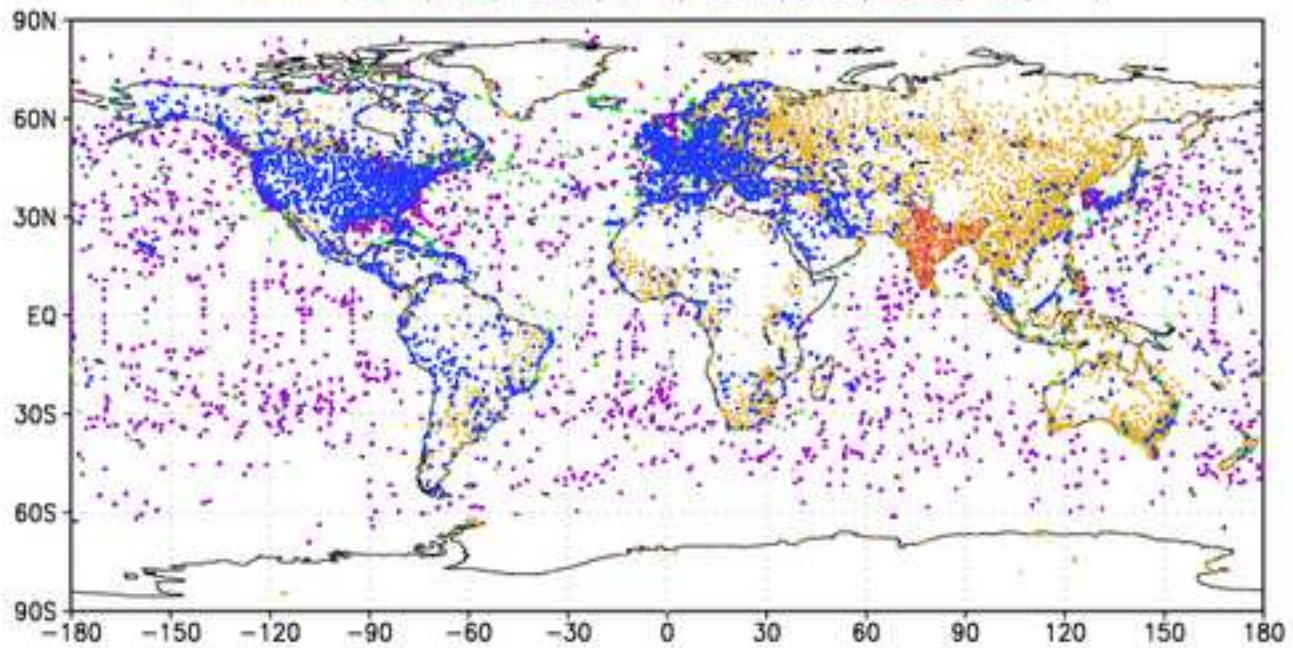
Avg=
Today_Cnt=
Dep= %

Global Observation Coverage

Data Coverage: Surface (21082017 1200UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 57098

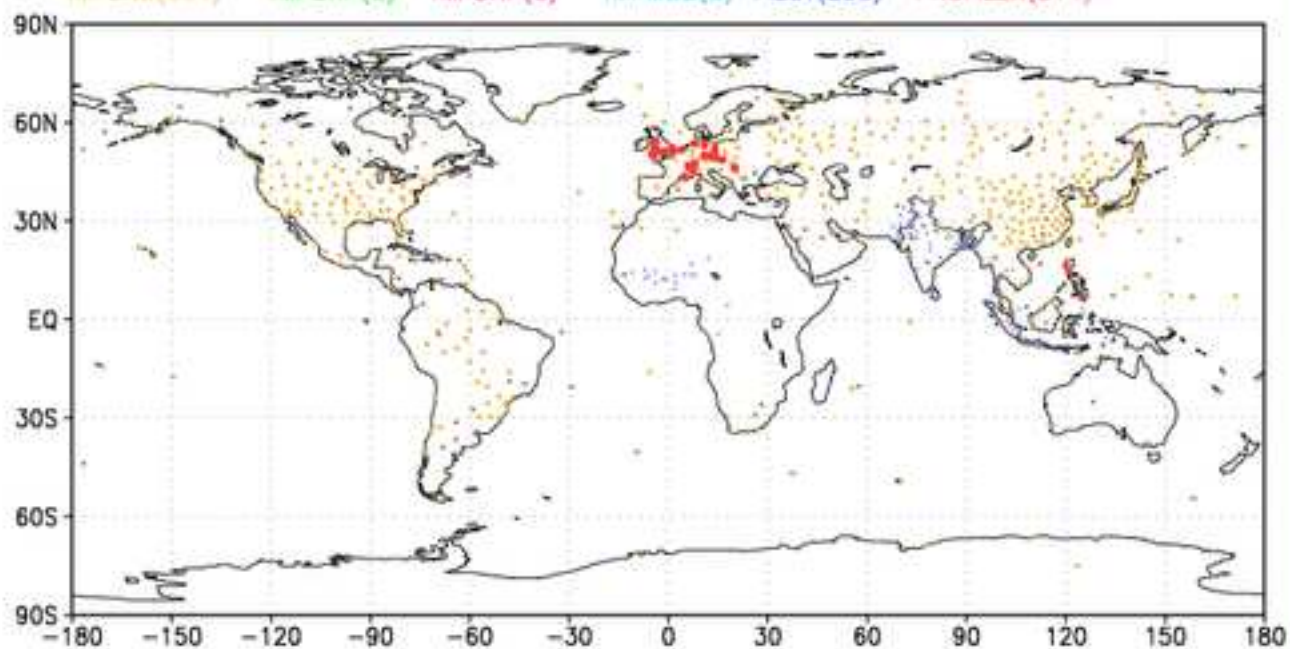
LNDSYN(15645) SHIP(2185) BUOY(13747) METAR(20754) MOBILE/AWS(4767)



Data Coverage: Sonde (21082017 1200UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 1368

TMP LND(604) TMP SHP(0) TMP DRP(0) TMP MDB(0) PILOT(250) PROFILER(514)



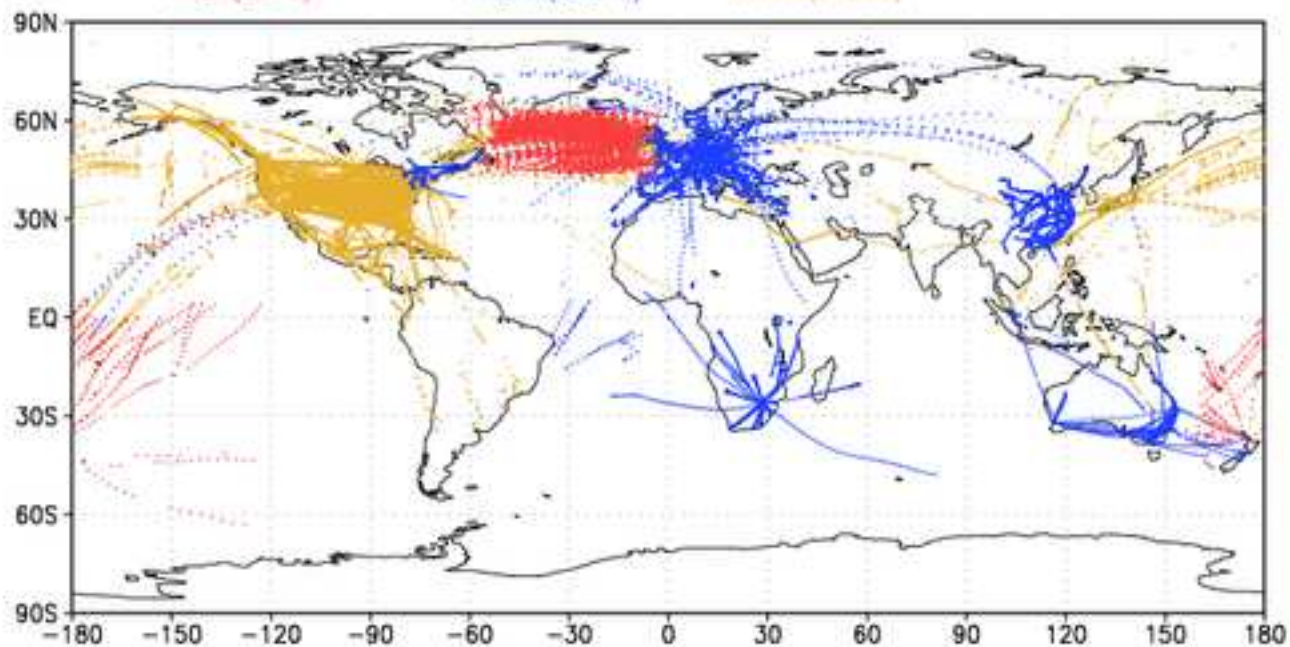
Data Coverage: AIRCFT (21082017 1200UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 122378

AIREP(8976)

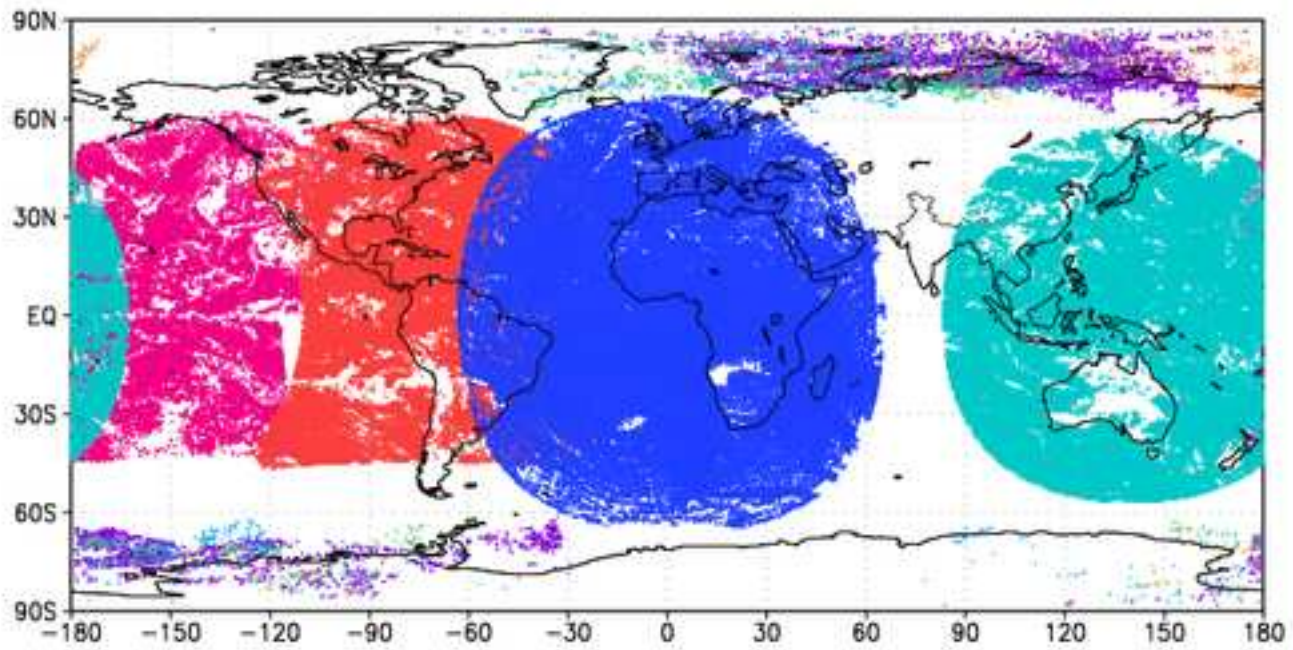
AMDAR(25847)

ACARS(87555)



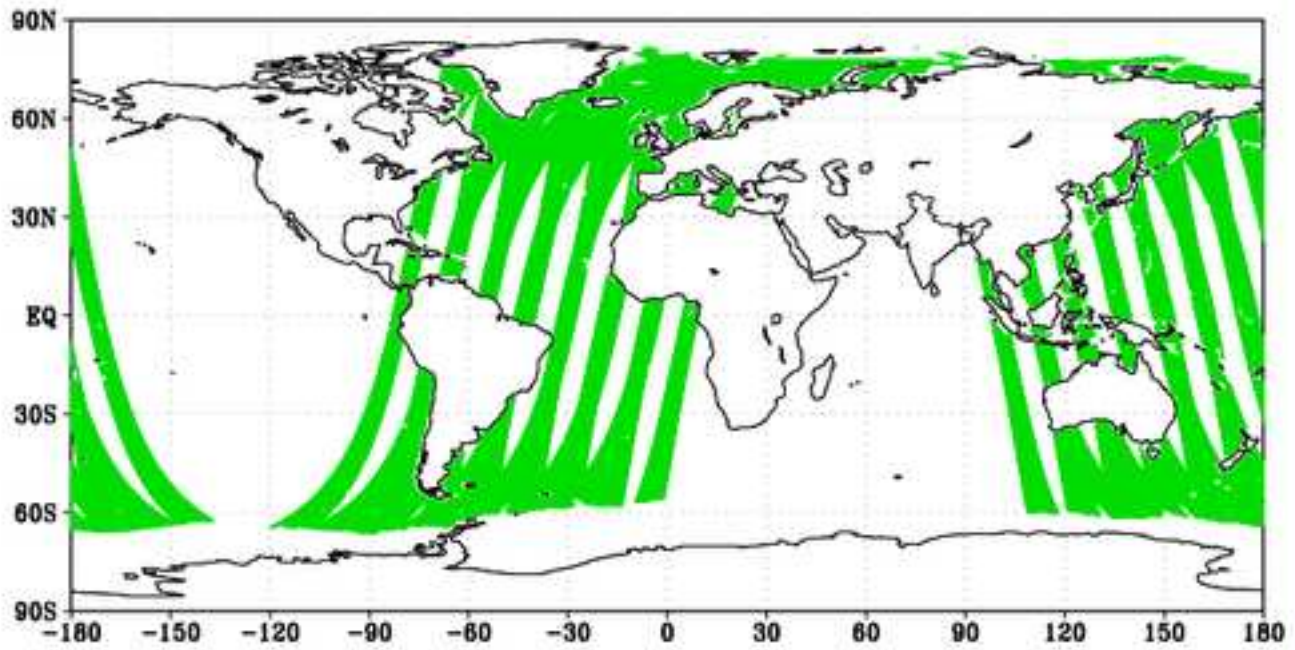
Data Coverage: AMV (21082017 1200UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 493964

GOES-15(43826) GOES-13(102253) METEOSAT-7(0) METEOSAT-8(0)
METEOSAT-10(171435) GMS/MTSAT(122974) MODIS/Terra(1268) MODIS/Aqua(0)
METOP(8399) NOAA-15(881) NOAA-16(0) NOAA-18(1290) NOAA-19(884)



Data Coverage: ASCAT winds (21082017 12UTC +/- 03Hrs)

ASCAT (232814)



Data Coverage: SAT RADIANCE (21082017 1200UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 3707707

NOAA15(80850)

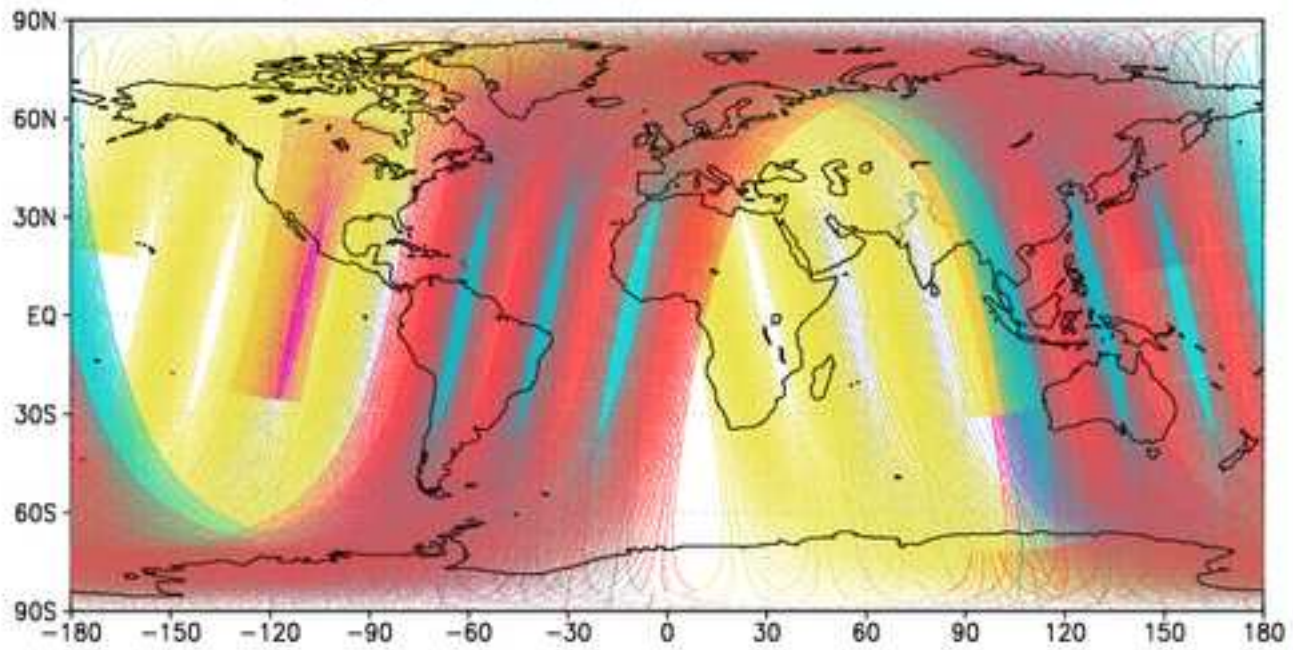
NOAA18(0)

NOAA18(701264)

NOAA18(886172)

METOP1(984411)

METOP2(855010)



Data Coverage: SAT RADIANCE (EARS+IMD RARS) (21082017 1200UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 1822302

NOAA15(0)

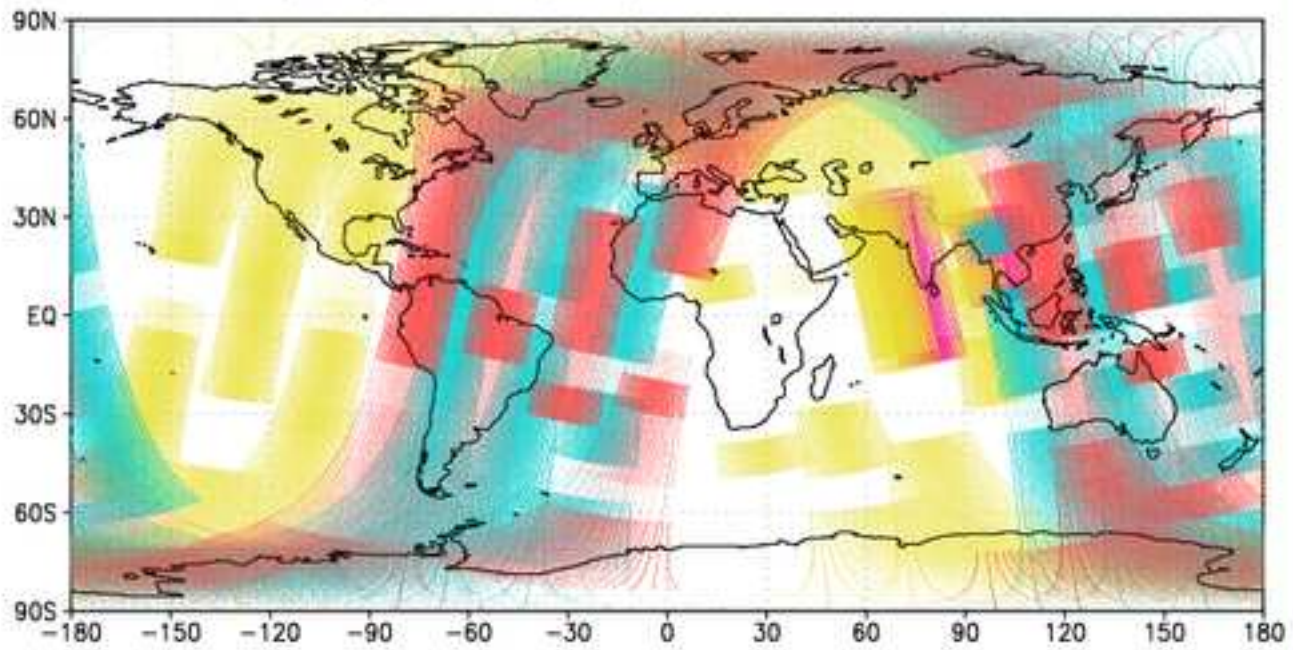
NOAA18(0)

NOAA18(52510)

NOAA18(564338)

METOP1(501146)

METOP2(704110)

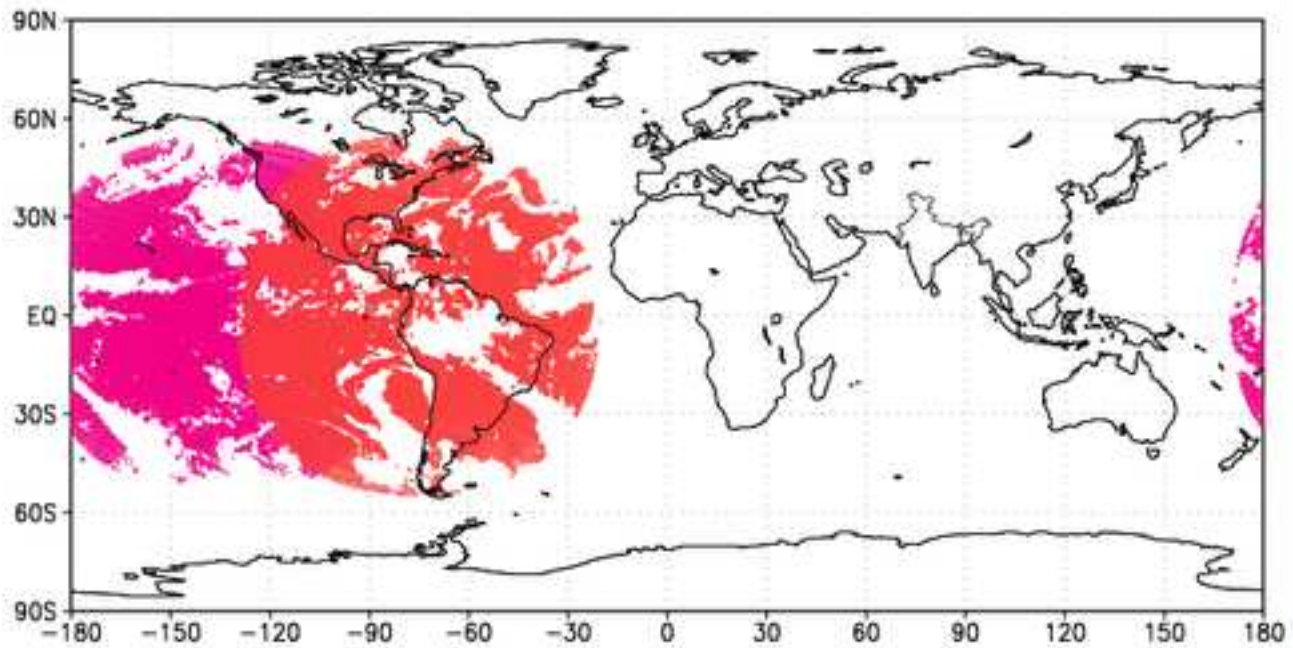


Data Coverage: GOES CSBT (21082017 1200UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 53942

GOES-15(28138)

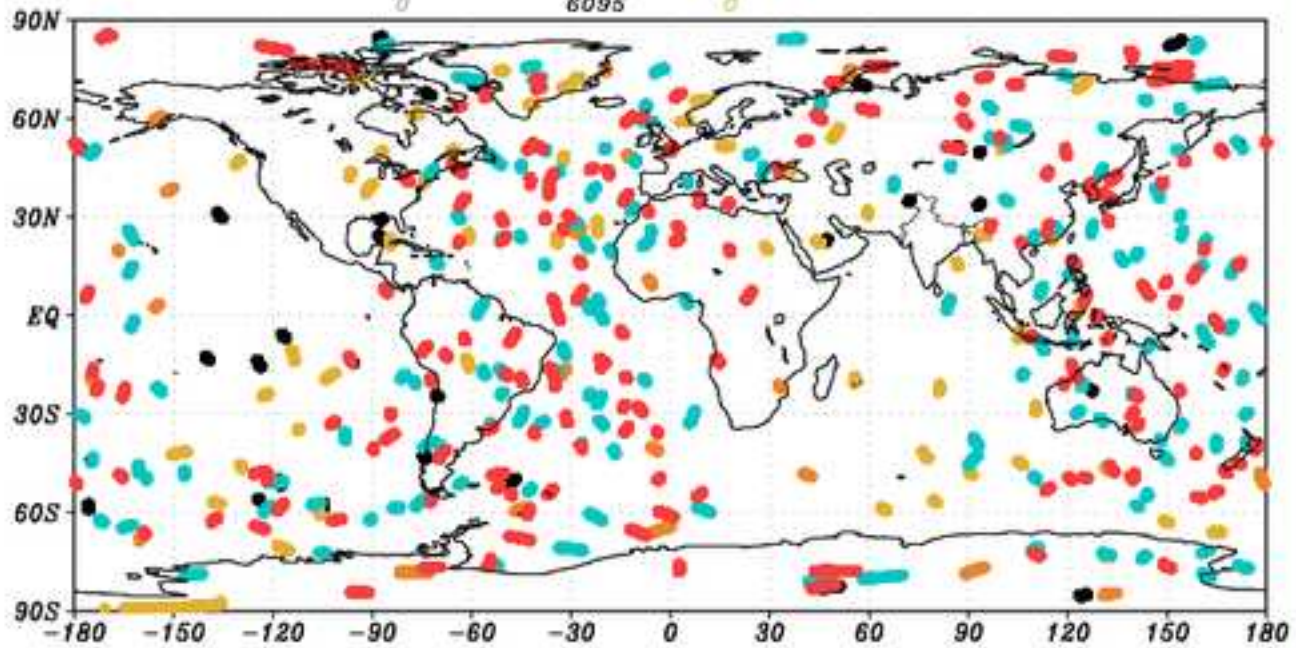
GOES-13(25804)



Data Coverage:GPSRO (21082017 1200UTC +/-03Hrs)

Total Number of Observations Received at NCMRWF: 102851

GRACE-A	METOP-B	METOP-A	COSMIC-1	COSMIC-2	COSMIC-3	COSMIC-4	COSMIC-5	COSMIC-6
4831	40014	35356	0	0	0	0	0	16555
		TerraSAR-X	TenDEM-X	GRACE-B				
		0	6095	0				



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

SYN0P

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= %

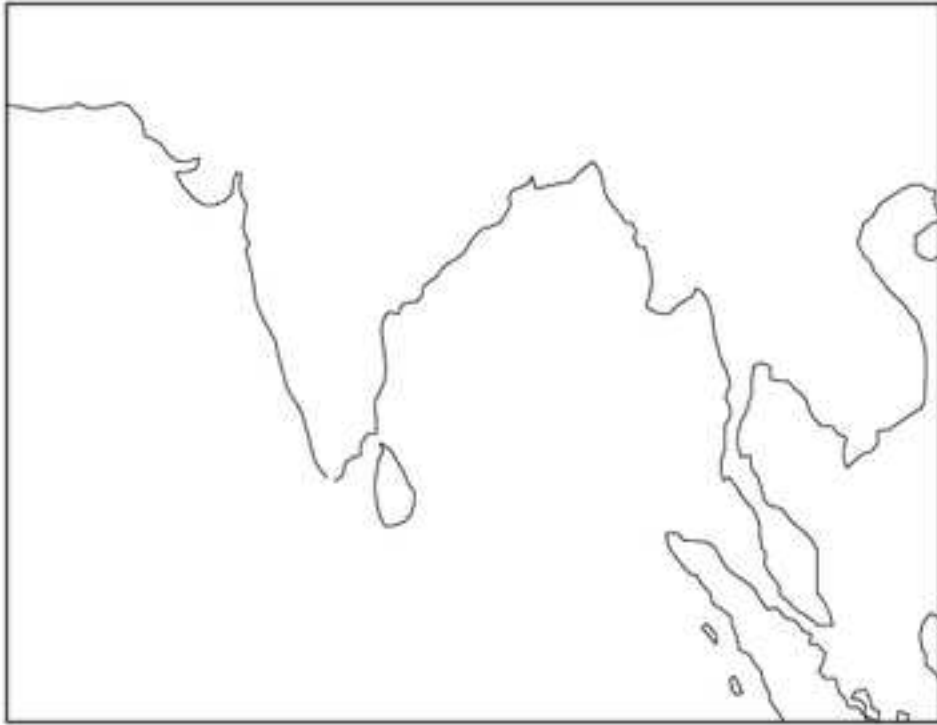
AMV

Avg=
Today_Cnt=
Dep= %

SCATTEROMETER WIND VECTORS

RECEIVED AT NCMRWF (20170821 12Z)

ASCAT WINDS (21082017 12 UTC):NCMRWF



INSAT-3D

ATMOSPHERIC MOTION VECTORS (AMV)

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

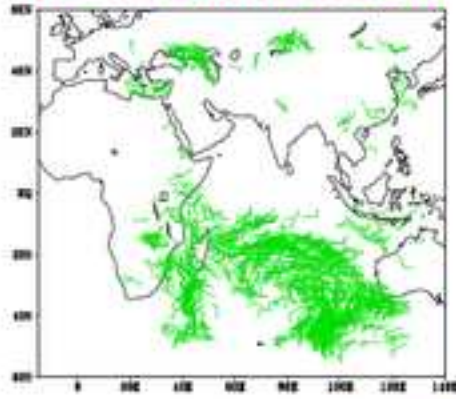
WATER VAPOUR WINDS (WV)

VISIBLE WINDS (VIS) }

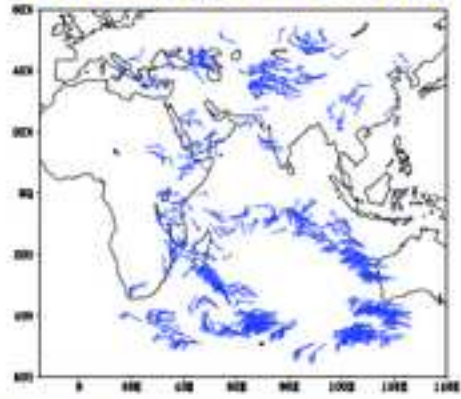
AMV DEVIATION
(OBSERVATION - FIRST GUESS)

INSAT-3D ATMOSPHERIC MOTION VECTORS (IR,10.8) (21082017 1200UTC)

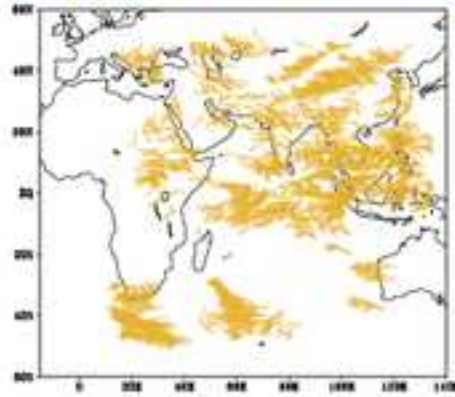
Low Level (Below 700 hPa)



Mid Level (700 - 401 hPa)



High Level (Above 400 hPa)



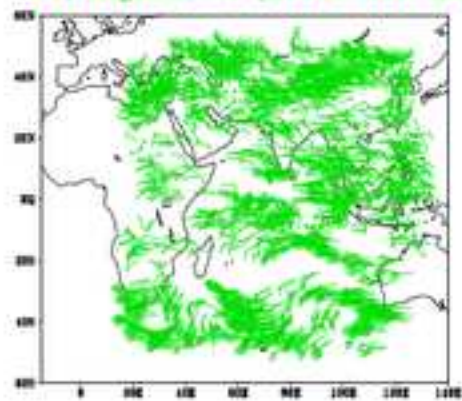
INSAT-3D ATMOSPHERIC MOTION VECTORS (IR,3.8) (21082017 1200UTC)

Low Level (Below 700 hPa)

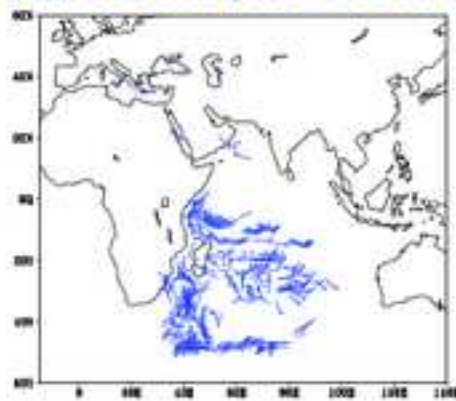
Mid Level (700 - 401 hPa)

INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) (21082017 1200UTC)

WV, High Level (Above 400 hPa)

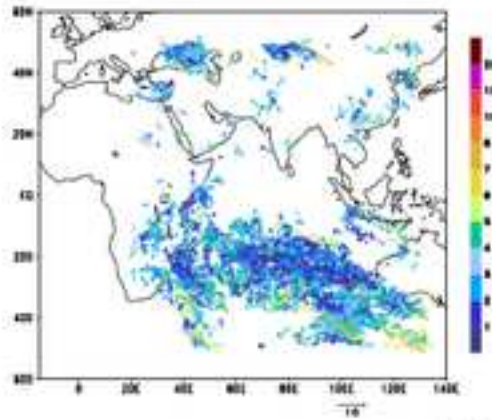


VIS, Low Level (Below 700 hPa)

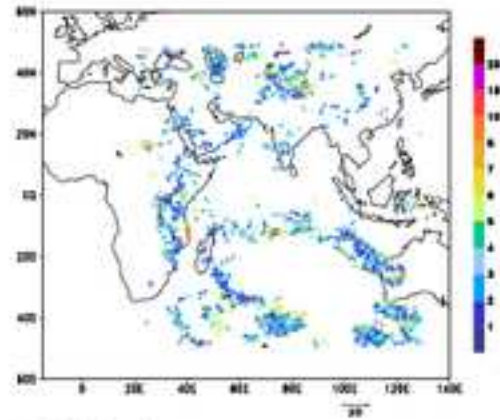


INSAT-3D ATMOSPHERIC MOTION VECTORS (IR,10.8) DEVIATION (21082017 1200UTC)

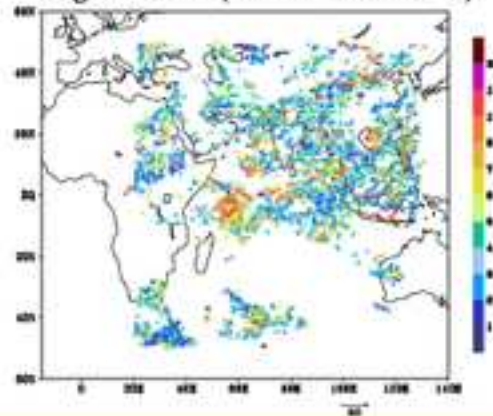
Low Level (Below 700 hPa)



Mid Level (700 - 401 hPa)



High Level (Above 400 hPa)



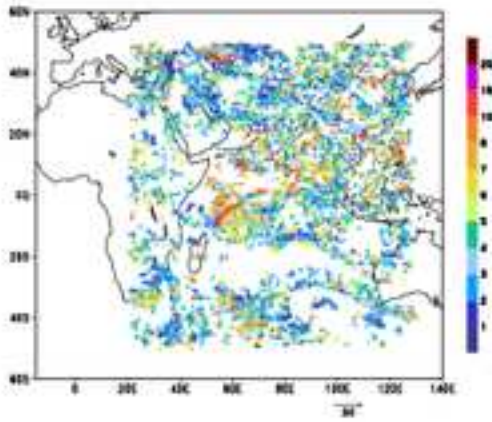
INSAT-3D ATMOSPHERIC MOTION VECTORS (IR,3.8) DEVIATION (21082017 1200UTC)

Low Level (Below 700 hPa)

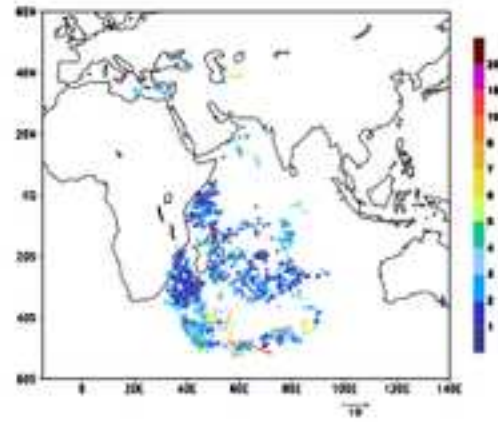
Mid Level (700 - 401 hPa)

INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) DEVIATION (21082017 1200UTC)

WV, High Level (Above 400 hPa)

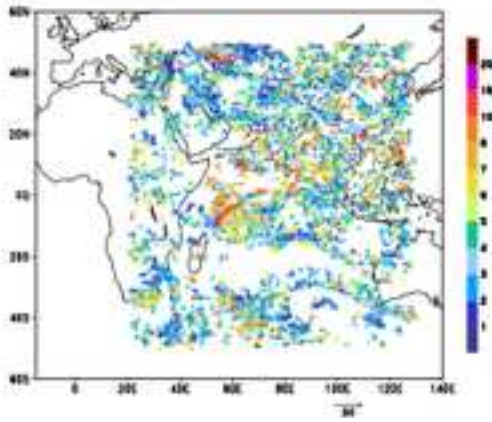


VIS, Low level (Below 700 hPa)

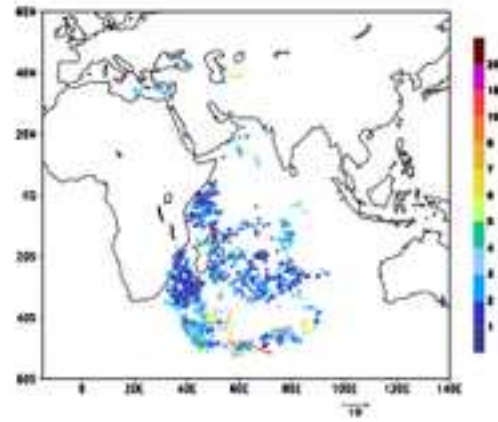


INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) DEVIATION (21082017 1200UTC)

WV, High Level (Above 400 hPa)

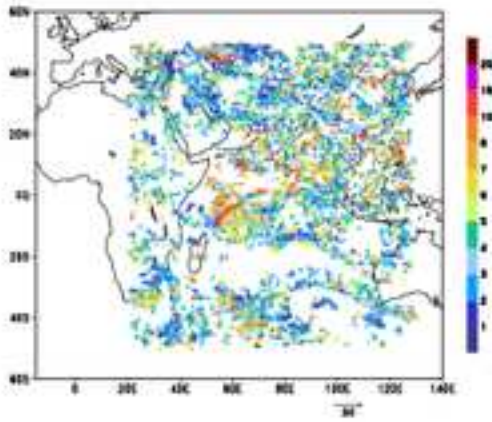


VIS, Low level (Below 700 hPa)

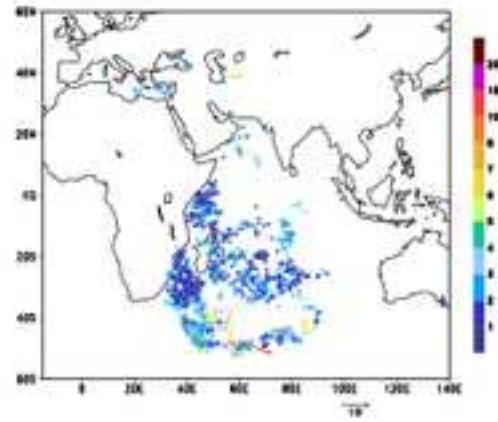


INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) DEVIATION (21082017 1200UTC)

WV, High Level (Above 400 hPa)

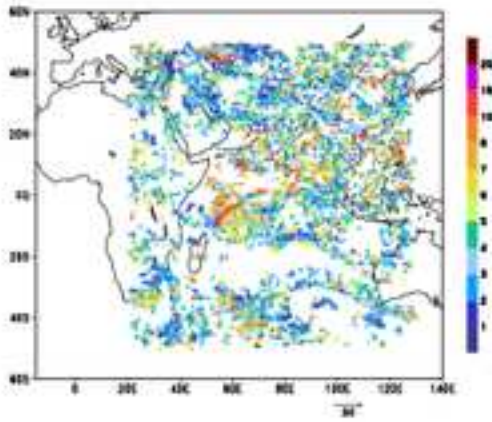


VIS, Low level (Below 700 hPa)

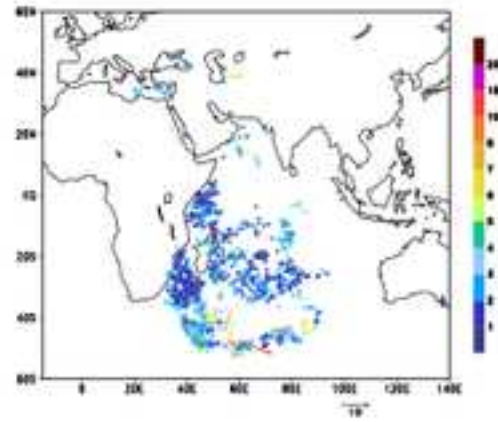


INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) DEVIATION (21082017 1200UTC)

WV, High Level (Above 400 hPa)

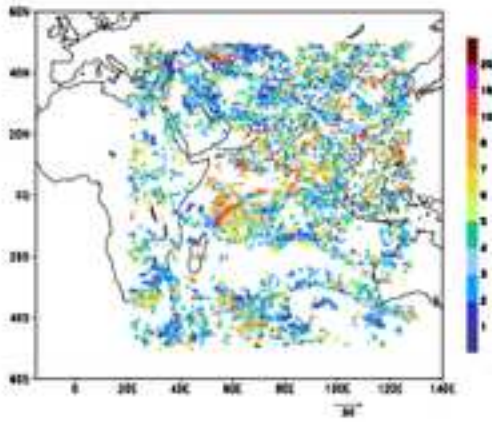


VIS, Low level (Below 700 hPa)

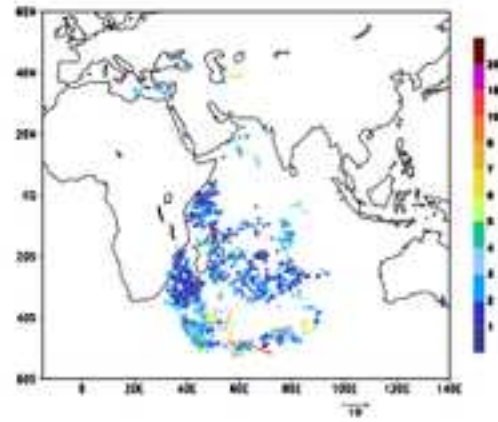


INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) DEVIATION (21082017 1200UTC)

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 (21082017 1200UTC +/- 03Hrs)

