

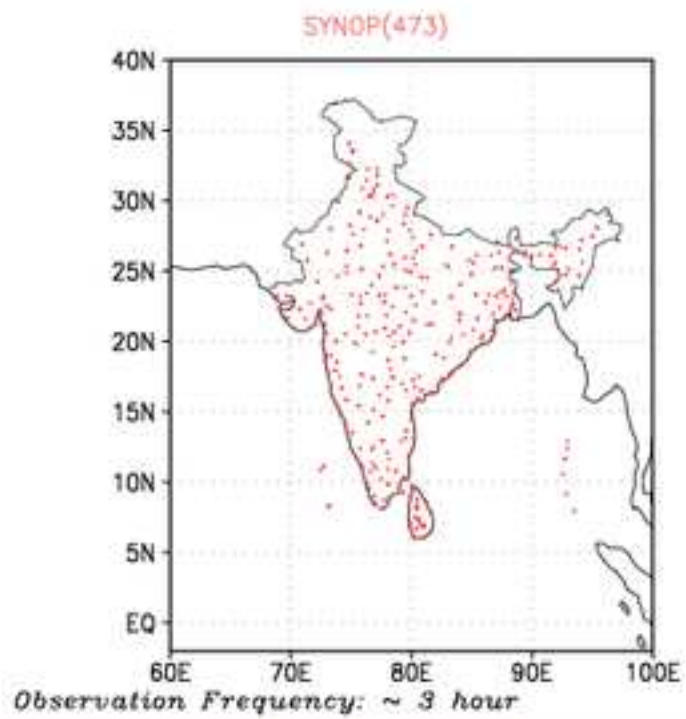
Observation Monitoring

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

for 20102017 (1200 UTC)

Indian Observation Coverage

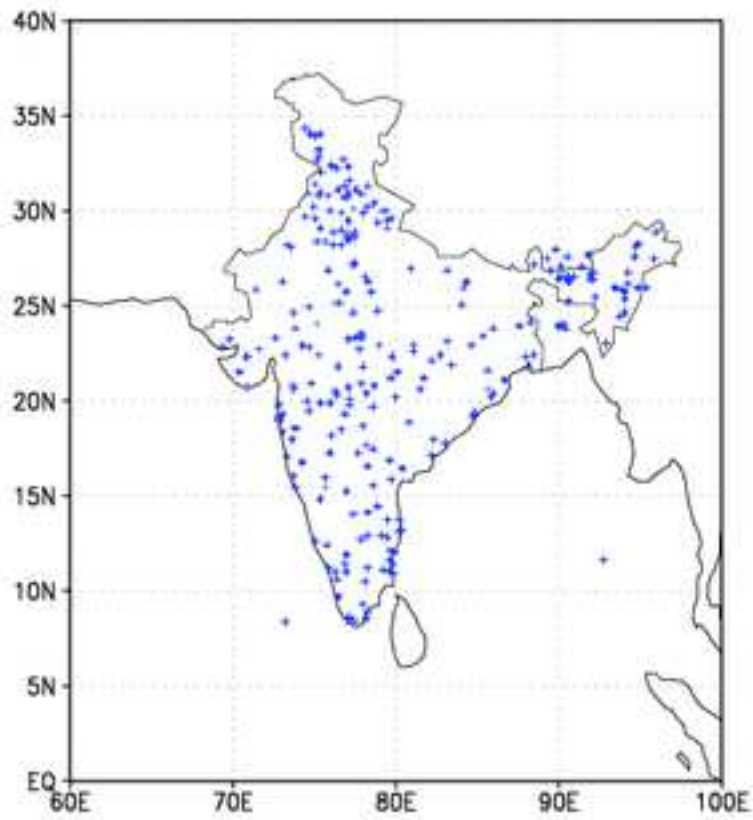
Data Coverage: Surface (20102017 1200UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 473
(42 & 43 Block)



Data Coverage: Indian AWS (20102017 1200UTC +/- 3 Hrs)

Total Number of Observations Received at NCMRWF: 1304

AWS PRESSURE (1304)

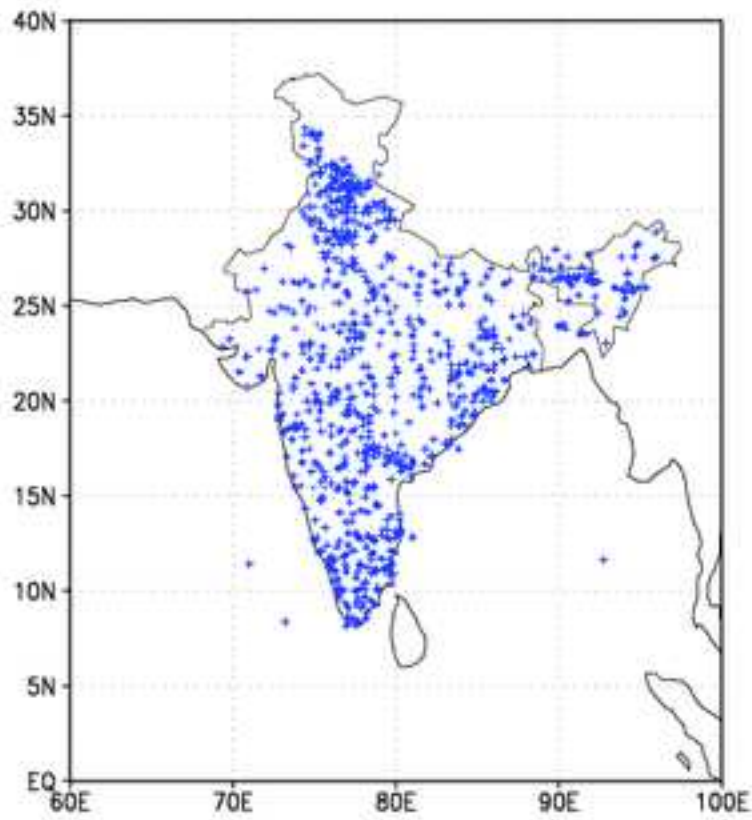


Observation Frequency: ~ 1 hour

Data Coverage: Indian AWS (20102017 1200UTC +/- 3 Hrs)

Total Number of Observations Received at NCMRWF: 4037

AWS + ARG (4037)

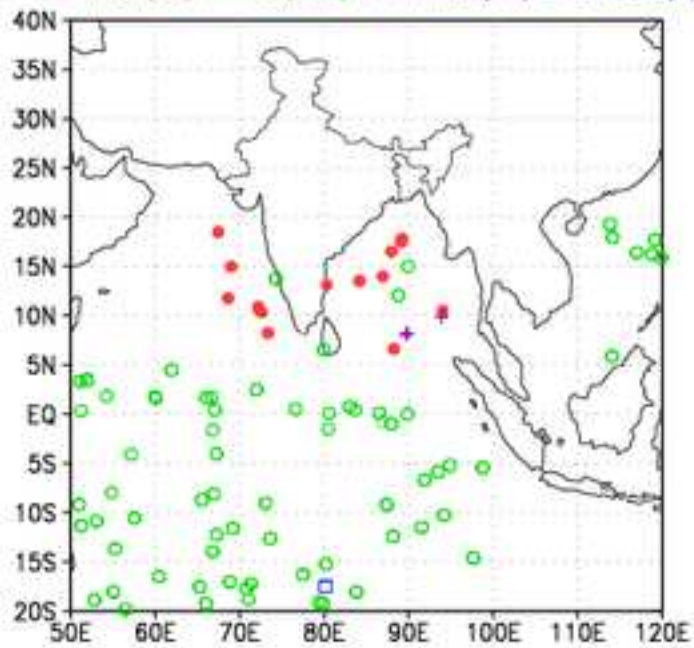


Observation Frequency: ~ 1 hour

Data Coverage: BUOY (20102017 1200UTC +/- 3 Hrs)

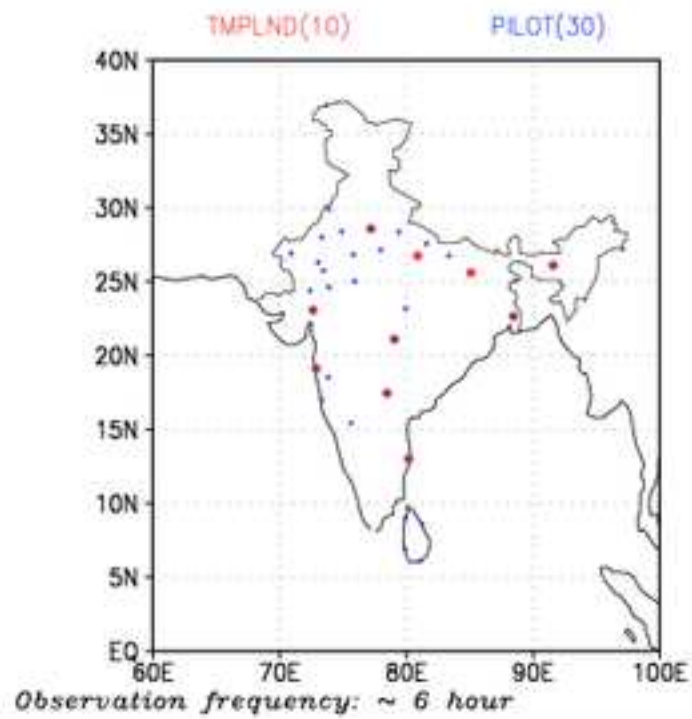
Total Number of Observations Received at NCMRWF: 420

country code in GTS as ● INDIA(29) ○ USA(368) + FRANCE(17) □ OTHERS(6)



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

Data Coverage: Sonde (20102017 1200UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 40
(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

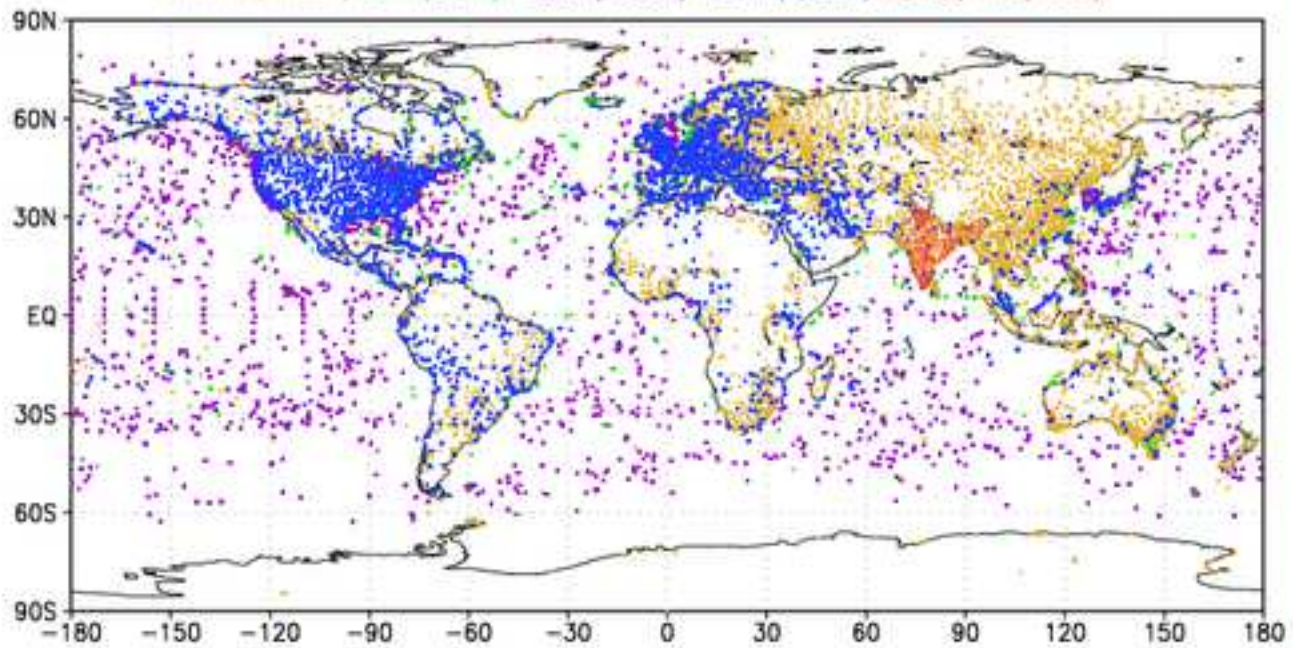
Avg=
Today_Cnt=
Dep= %

Global Observation Coverage

Data Coverage: Surface (20102017 1200UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 55306

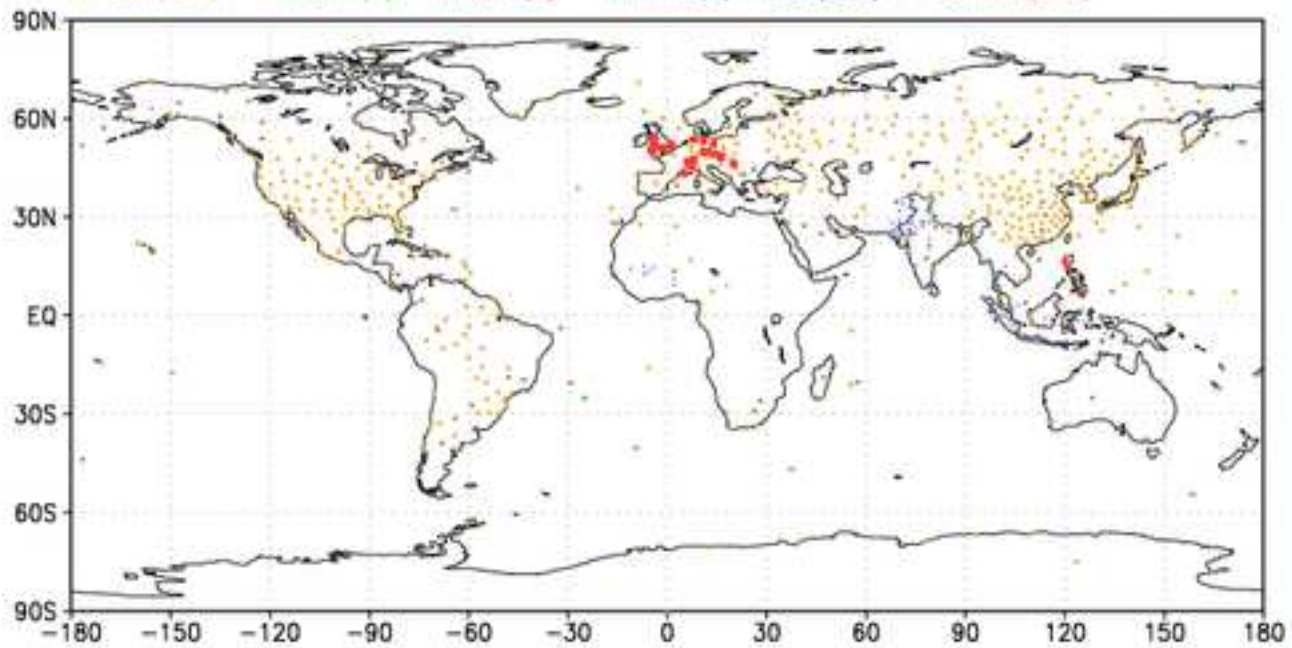
LNDSYN(15591) SHIP(2090) BUOY(12631) METAR(20391) MOBILE/AWS(4603)



Data Coverage: Sonde (20102017 1200UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 1431

TMP LND(625) TMP SHP(1) TMP DRP(0) TMP MDB(0) PILOT(230) PROFILER(575)



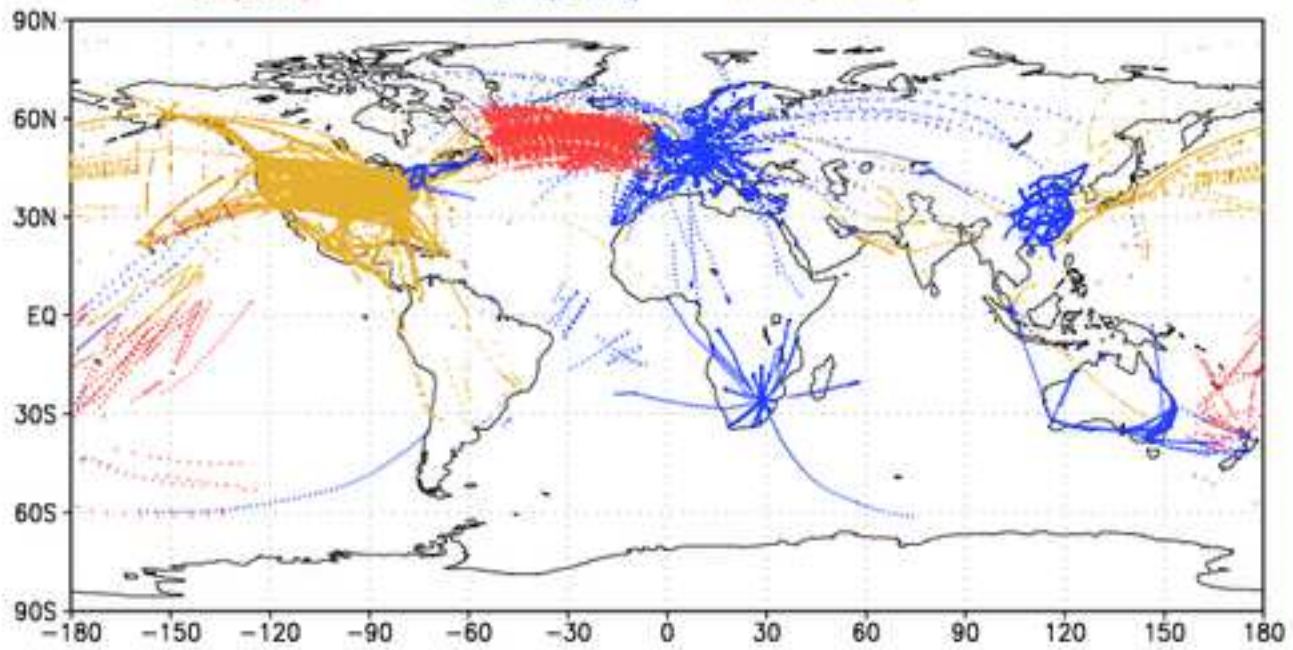
Data Coverage: AIRCFT (20102017 1200UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 143198

AIREP(8050)

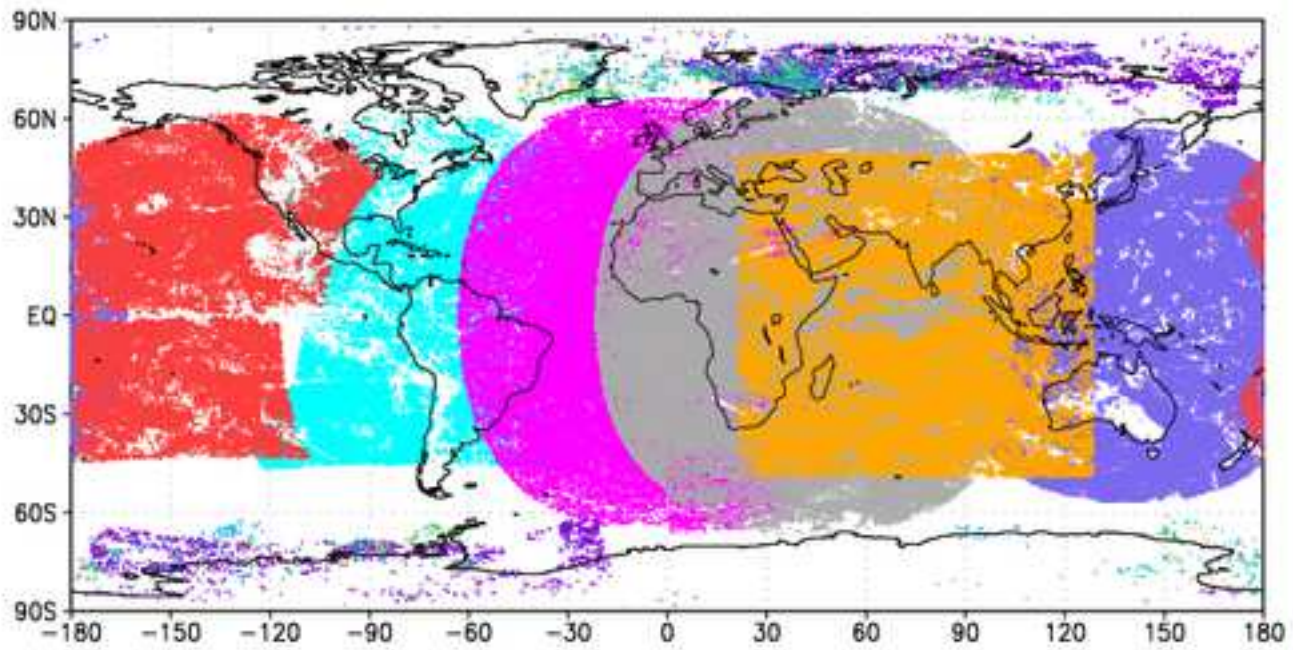
AMDAR(24645)

ACARS(110503)



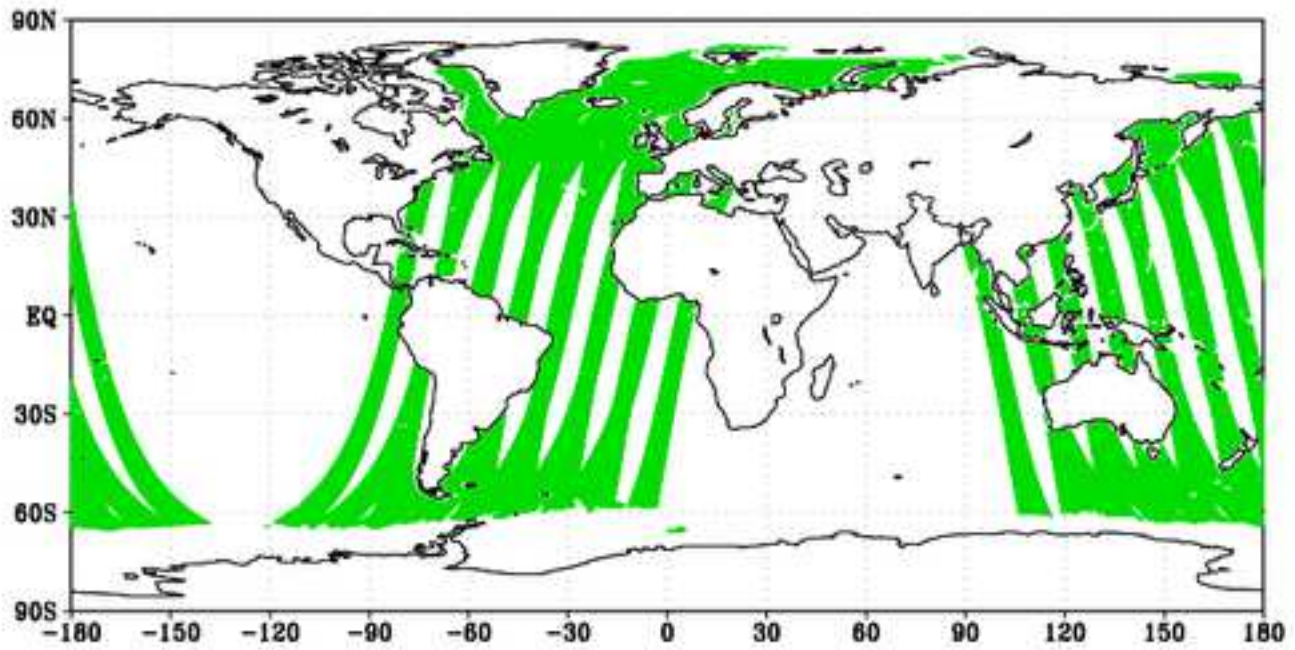
Data Coverage: AMV (20102017 1200UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 658024

GOES-15(58048) GOES-13(55733) INSAT-3D(46520) METEOSAT-8(192532)
METEOSAT-10(173275) HIMAWARI-8(115530) MODIS/Terra(0) MODIS/Aqua(0)
METOP(6832) NOAA-15(821) NOAA-18(0) NOAA-18(1045) NOAA-19(839)



Data Coverage: ASCAT winds (20102017 12UTC +/- 03Hrs)

ASCAT (233797)



Data Coverage: SAT RADIANCE (20102017 1200UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 2407598

NOAA15(81685)

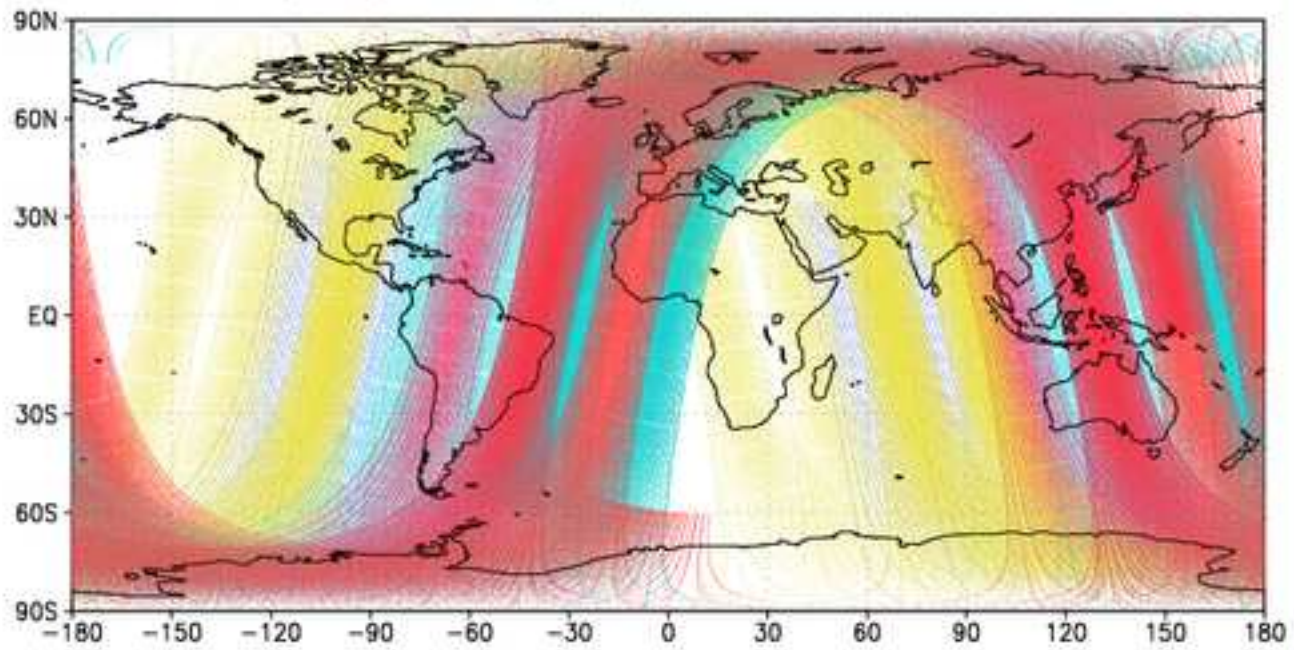
NOAA18(0)

NOAA19(429191)

NOAA17(552425)

METOP1(790190)

METOP2(554107)



Data Coverage: SAT RADIANCE (EARS+IMD RARS) (20102017 1200UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 1169633

NOAA15(0)

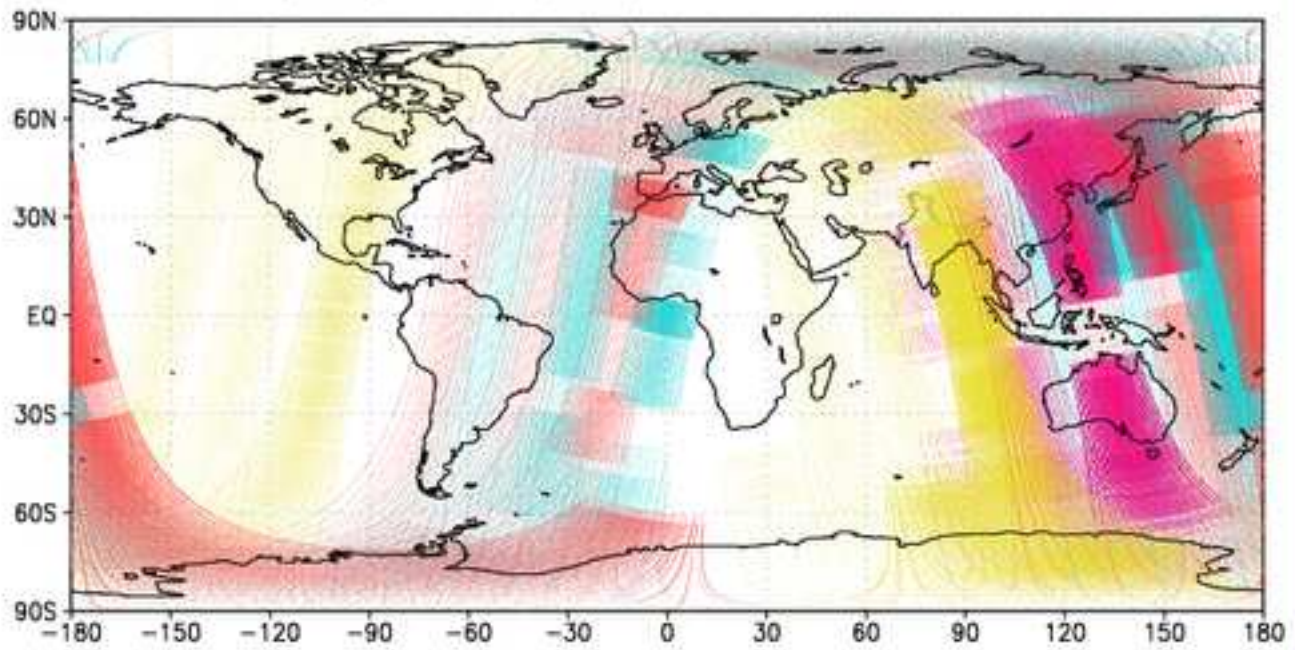
NOAA16(0)

NOAA18(308680)

NOAA19(303887)

METOP1(300860)

METOP2(254286)

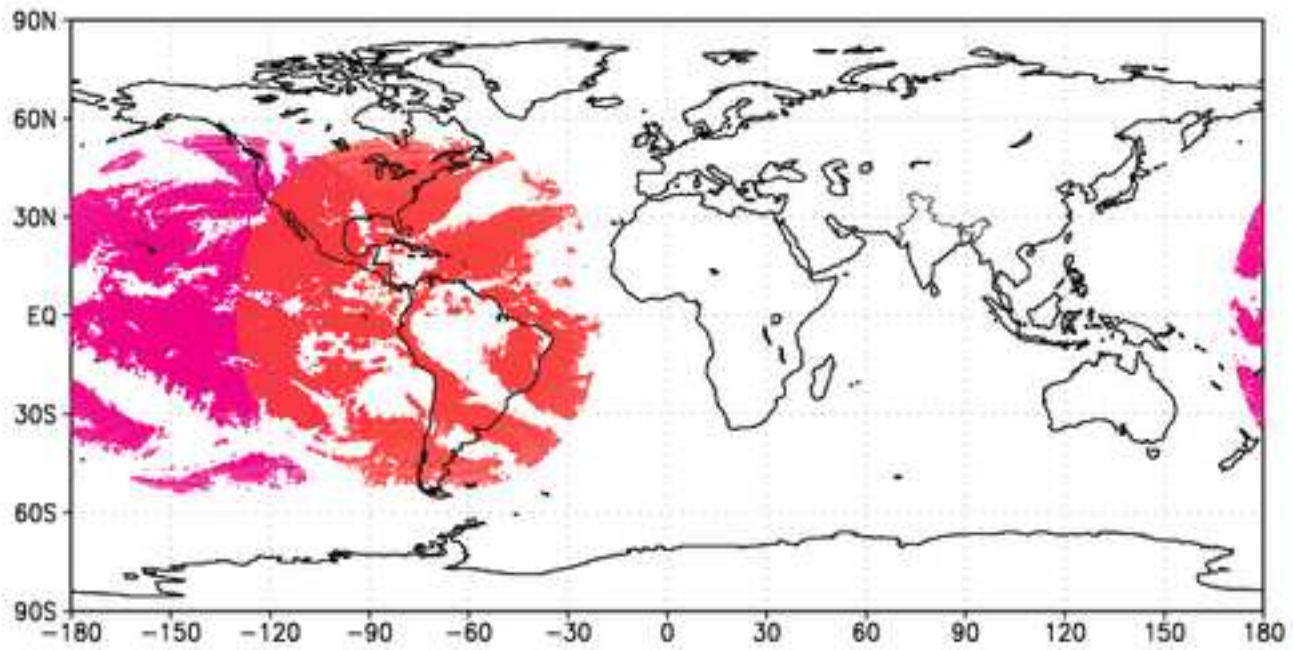


Data Coverage: GOES CSBT (20102017 1200UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 49011

GOES-15(26205)

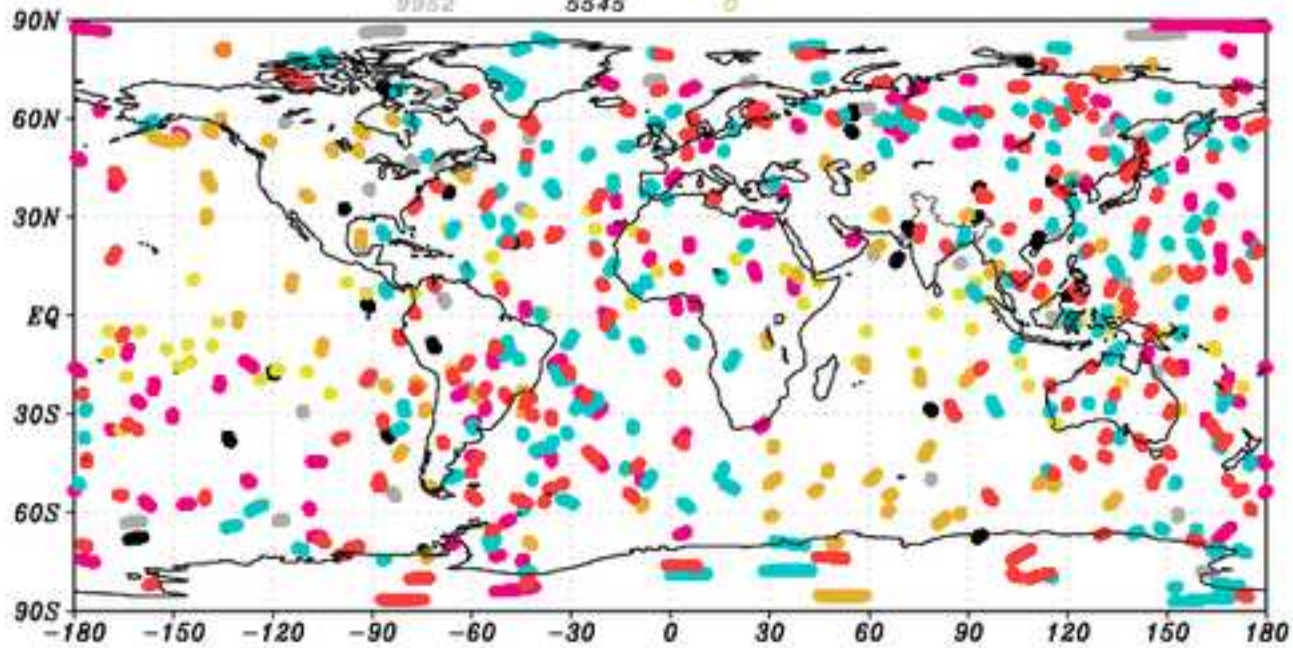
GOES-13(22806)



Data Coverage:GPSRO (20102017 1200UTC +/-03Hrs)

Total Number of Observations Received at NCMRWF: 148551

GRACE-A	METOP-B	METOP-A	COSMIC-1	COSMIC-2	COSMIC-3	COSMIC-4	COSMIC-5	COSMIC-6
485	39247	37792	26789	0	3778	0	0	18963
		TerraSAR-X	TenDEM-X	GRACE-B				
		9952	5545	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= %

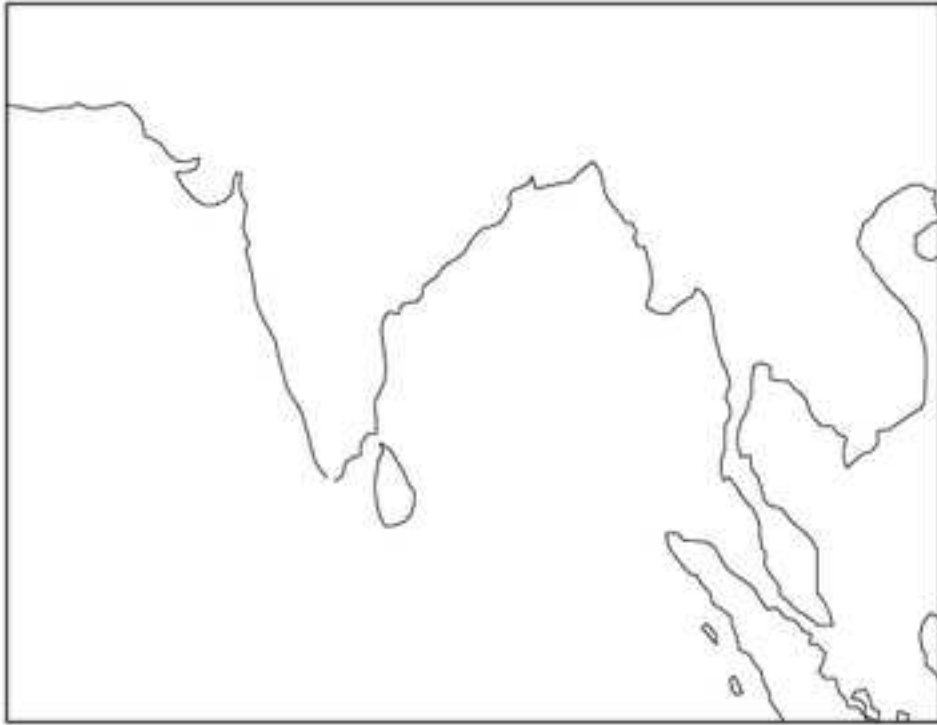
AMV

Avg=
Today_Cnt=
Dep= %

SCATTEROMETER WIND VECTORS

RECEIVED AT NCMRWF (20171020 12Z)

ASCAT WINDS (20102017 12 UTC):NCMRWF



INSAT-3D

ATMOSPHERIC MOTION VECTORS (AMV)

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

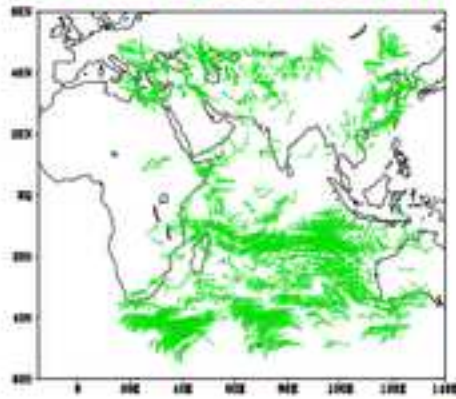
WATER VAPOUR WINDS (WV)

VISIBLE WINDS (VIS) }

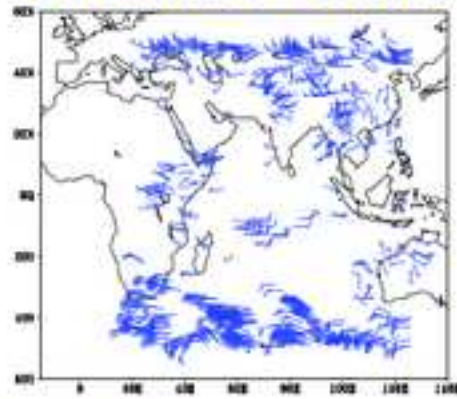
AMV DEVIATION
(OBSERVATION - FIRST GUESS)

INSAT-3D ATMOSPHERIC MOTION VECTORS (IR,10.8) (20102017 1200UTC)

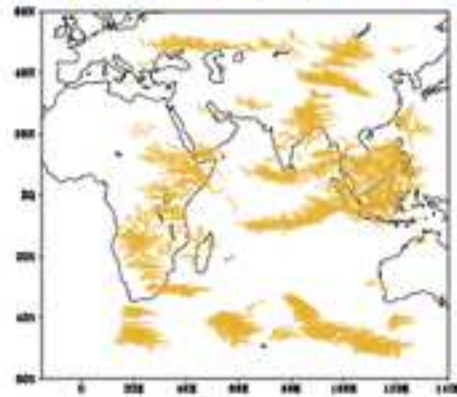
Low Level (Below 700 hPa)



Mid Level (700 - 401 hPa)

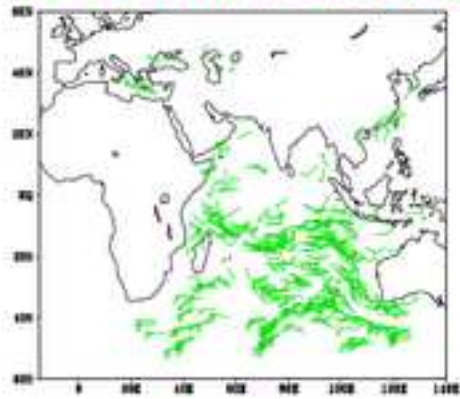


High Level (Above 400 hPa)

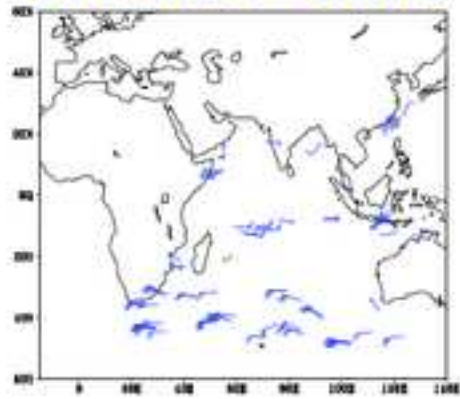


INSAT-3D ATMOSPHERIC MOTION VECTORS (IR,3.8) (20102017 1200UTC)

Low Level (Below 700 hPa)

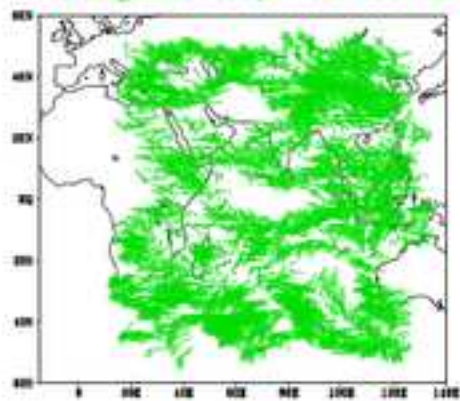


Mid Level (700 - 401 hPa)

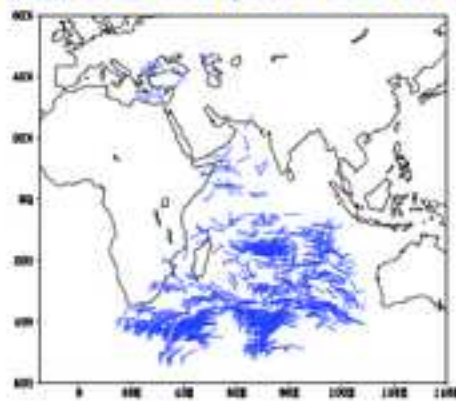


INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) (20102017 1200UTC)

WV, High Level (Above 400 hPa)

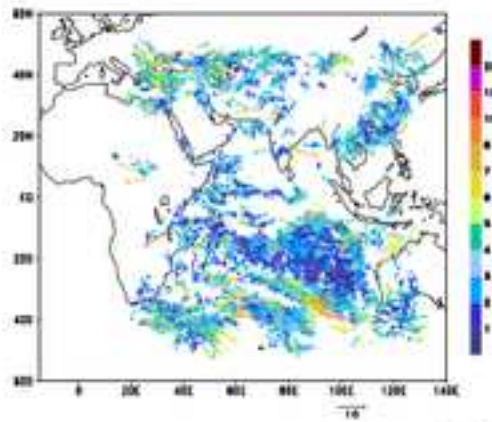


VIS, Low Level (Below 700 hPa)

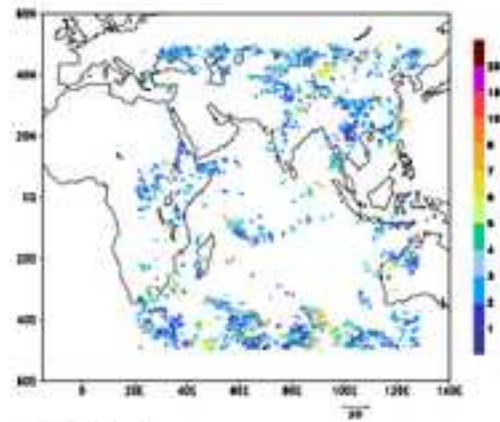


INSAT-3D ATMOSPHERIC MOTION VECTORS (IR,10.8) DEVIATION (20102017 1200UTC)

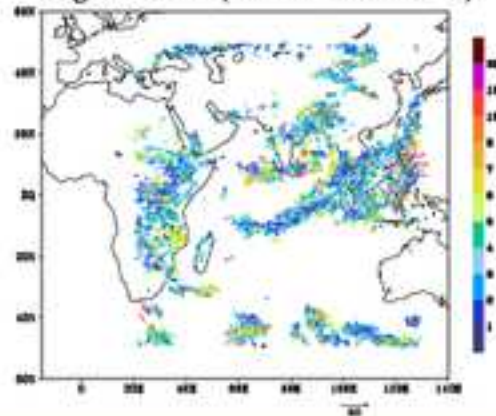
Low Level (Below 700 hPa)



Mid Level (700 - 401 hPa)

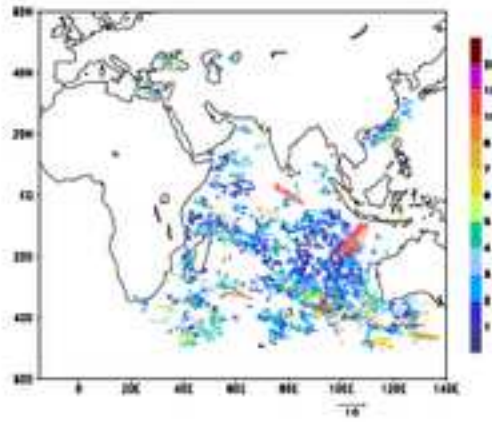


High Level (Above 400 hPa)

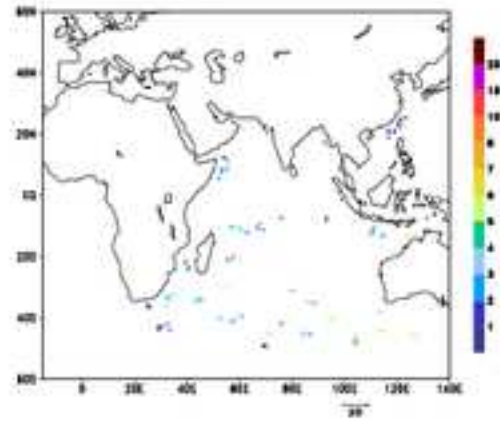


INSAT-3D ATMOSPHERIC MOTION VECTORS (IR,3.8) DEVIATION (20102017 1200UTC)

Low Level (Below 700 hPa)

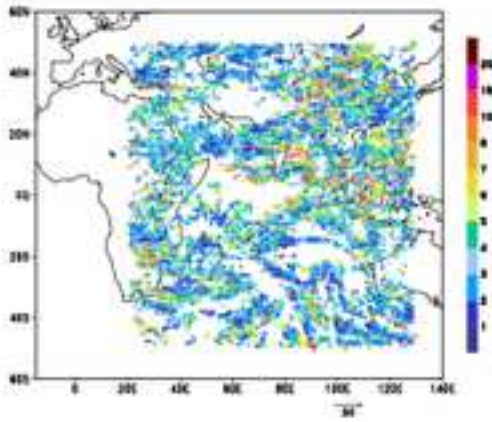


Mid Level (700 - 401 hPa)

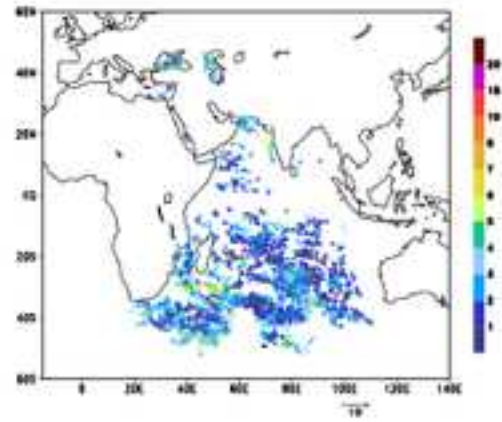


INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) DEVIATION (20102017 1200UTC)

WV, High Level (Above 400 hPa)

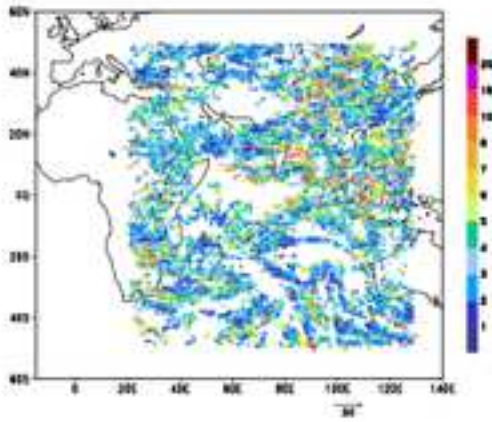


VIS, Low level (Below 700 hPa)

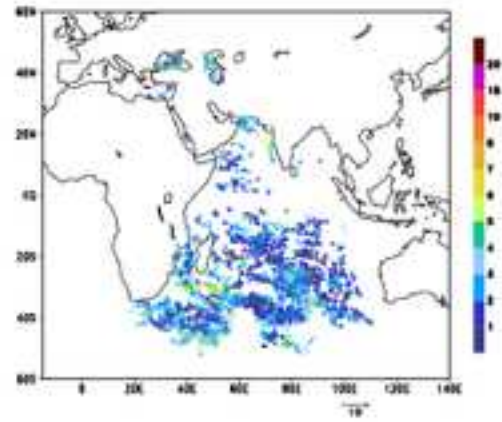


INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) DEVIATION (20102017 1200UTC)

WV, High Level (Above 400 hPa)

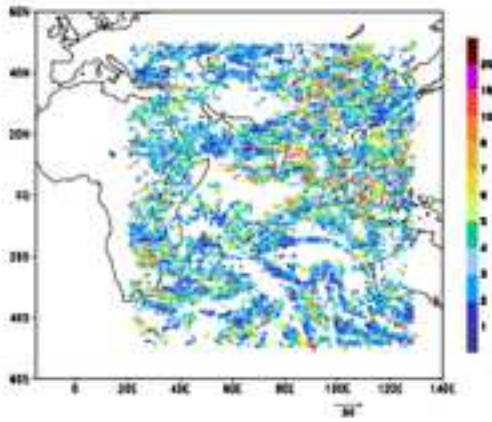


VIS, Low level (Below 700 hPa)

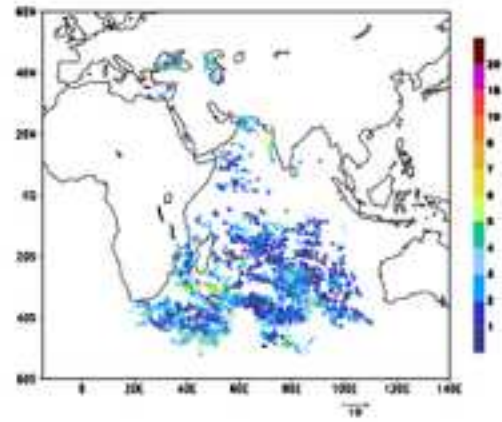


INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) DEVIATION (20102017 1200UTC)

WV, High Level (Above 400 hPa)

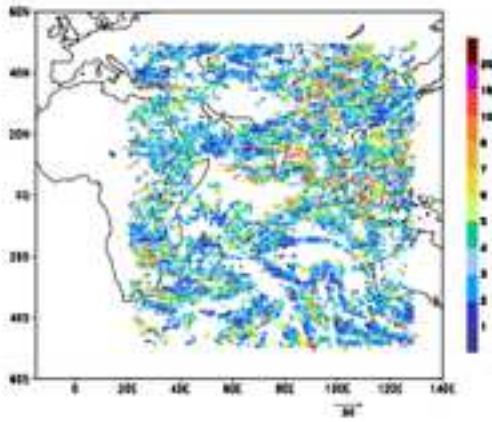


VIS, Low level (Below 700 hPa)

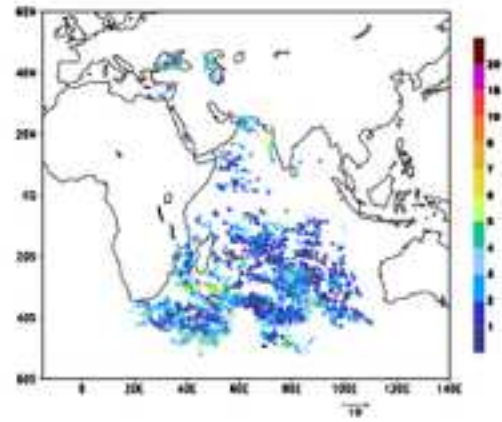


INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) DEVIATION (20102017 1200UTC)

WV, High Level (Above 400 hPa)

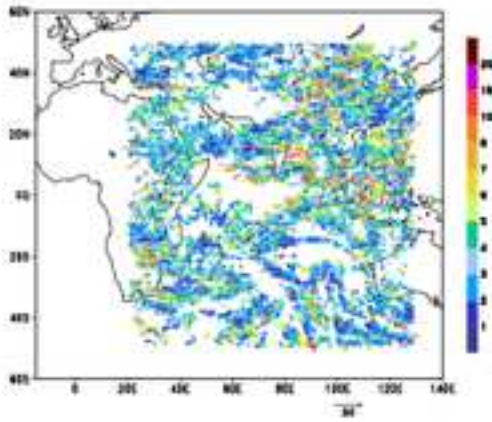


VIS, Low level (Below 700 hPa)

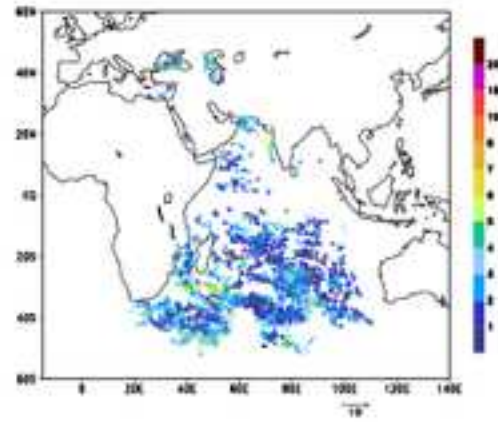


INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) DEVIATION (20102017 1200UTC)

WV, High Level (Above 400 hPa)



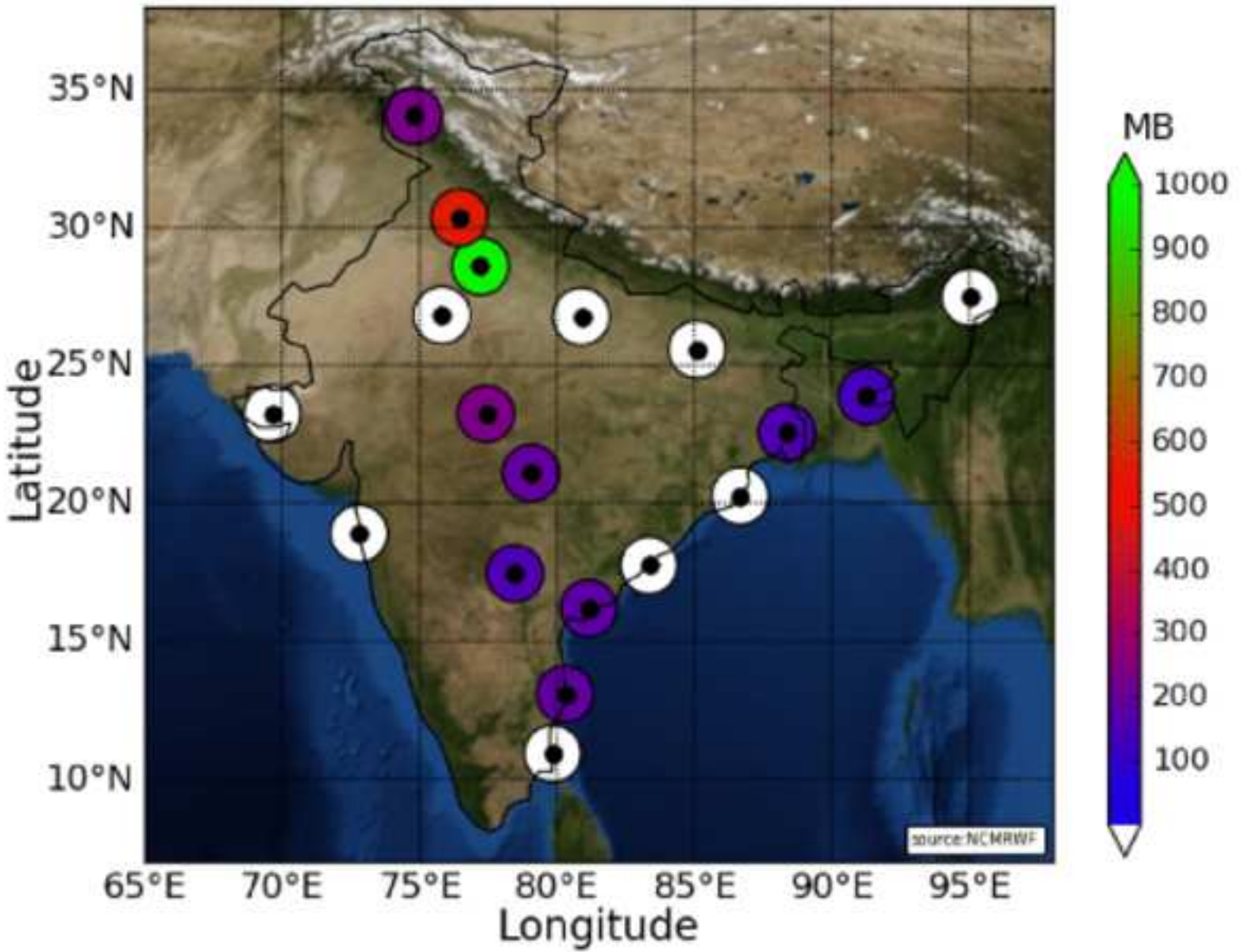
VIS, Low level (Below 700 hPa)



Indian Doppler Weather Radar
Data Monitoring

Volume of DWR observations received at NCMRWF

Date: 20171020 at : 12UTC

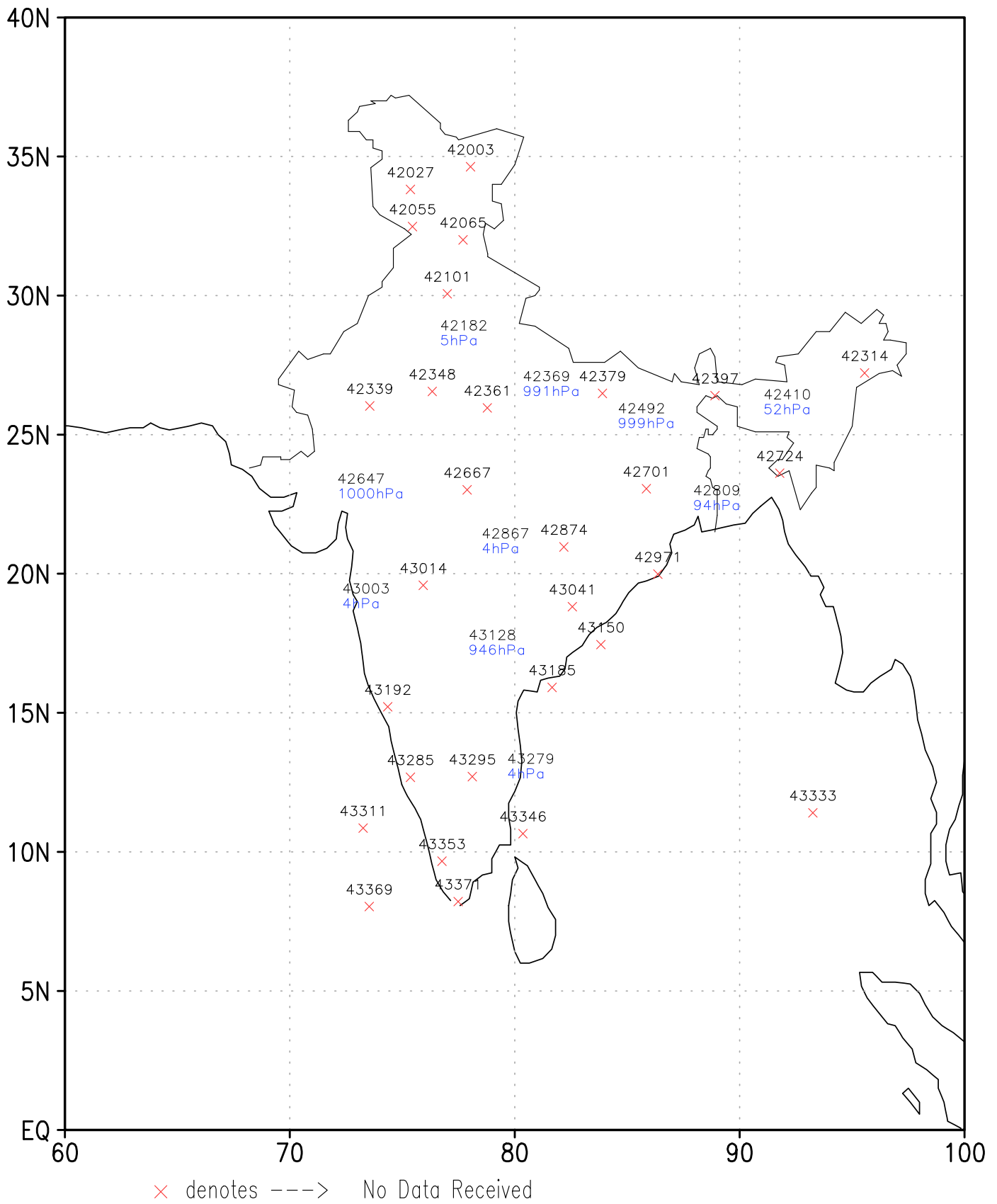


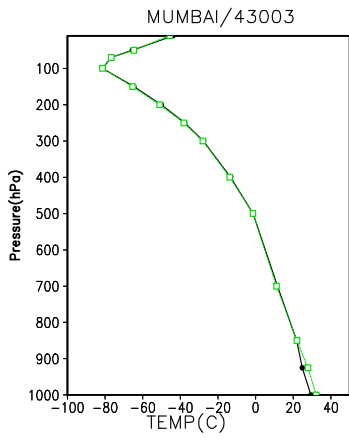
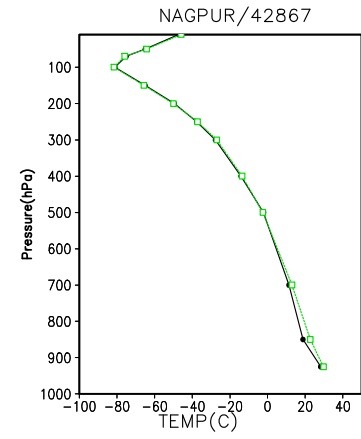
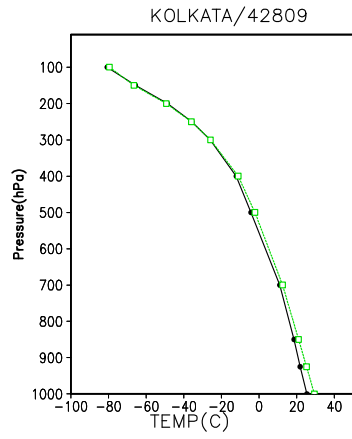
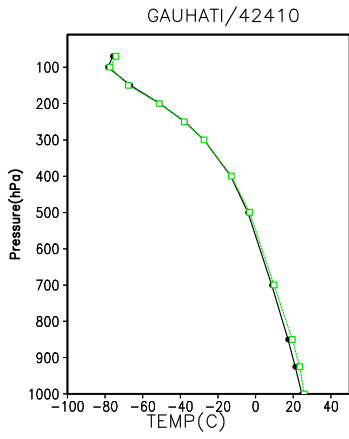
Quality of Indian RS/RW Observations

Maximum height reported
by RS/RW ascents

Temperature and Zonal Wind
Rejections by NGFS GDAS

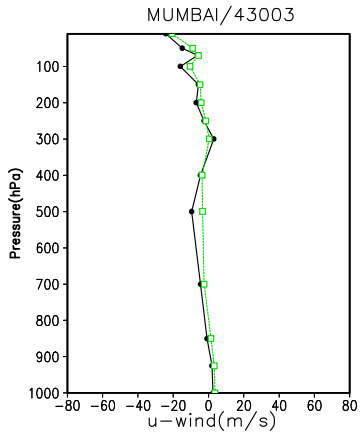
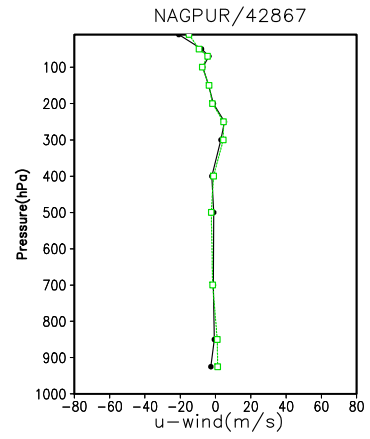
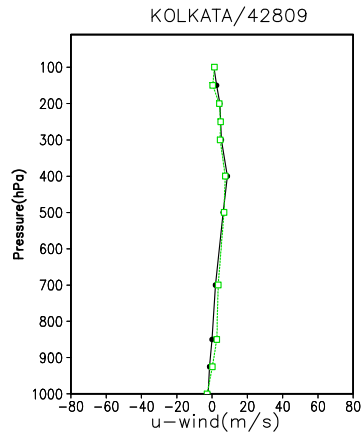
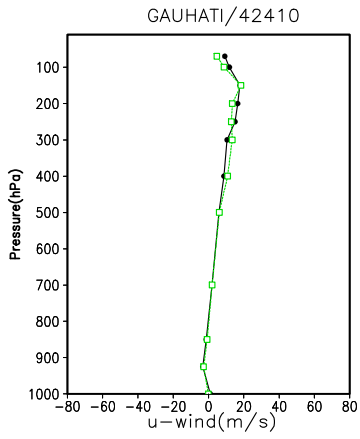
Highest Level Reported by RS/RW (20102017 1200UTC +/- 03Hrs)





Observed (—) and 1st-guess (—) Temperature (Deg C) for 12UTC 20102017

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



Observed (—) and 1st-guess (- -) Zonal wind (m/s) for 12UTC 20102017
 × -- denotes the rejection of observation by NGFS GDAS
 (plotted for standard pressure levels only)