

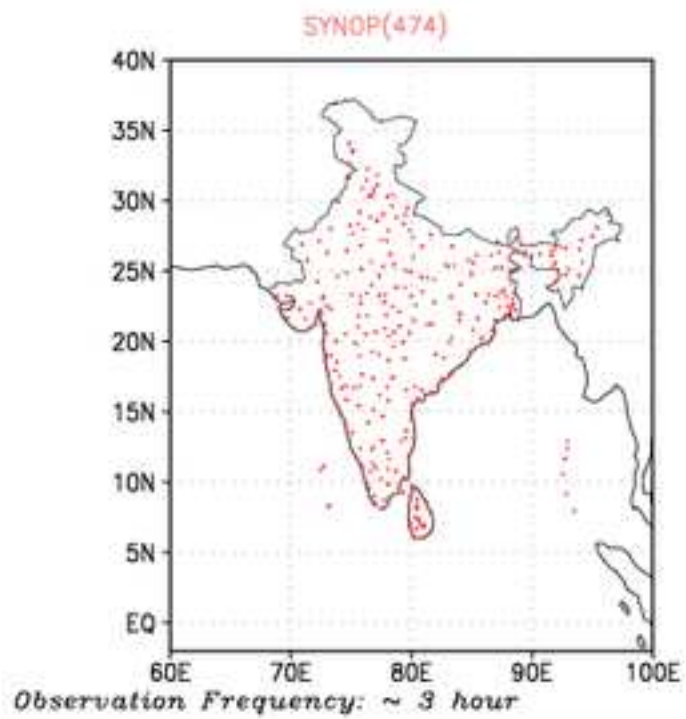
Observation Monitoring

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

for 18022018 (1200 UTC)

Indian Observation Coverage

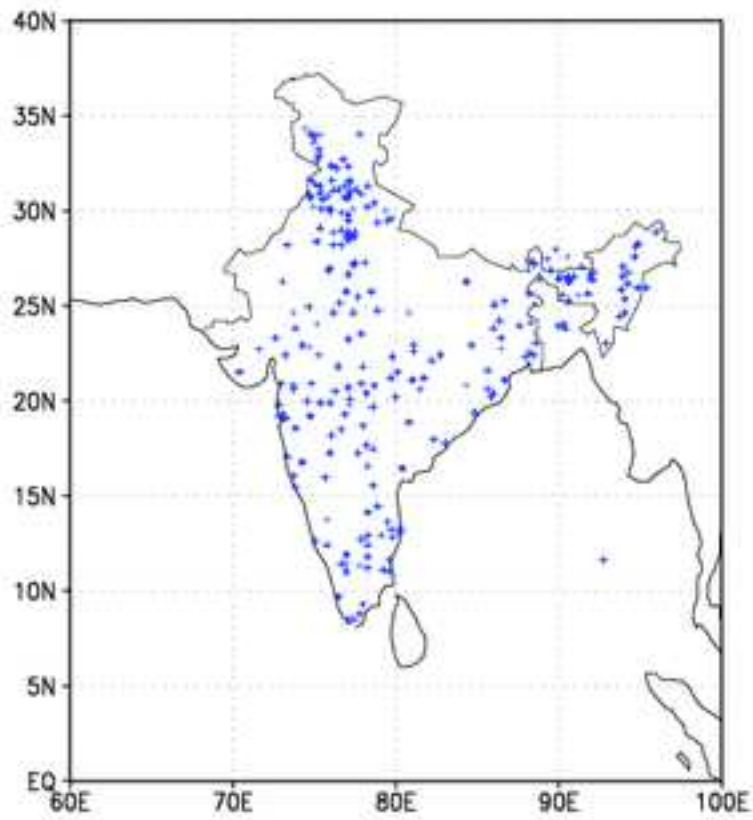
Data Coverage: Surface (18022018 1200UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 474
(42 & 43 Block)



Data Coverage: Indian AWS (18022018 1200UTC +/- 3 Hrs)

Total Number of Observations Received at NCMRWF: 1004

AWS PRESSURE (1004)

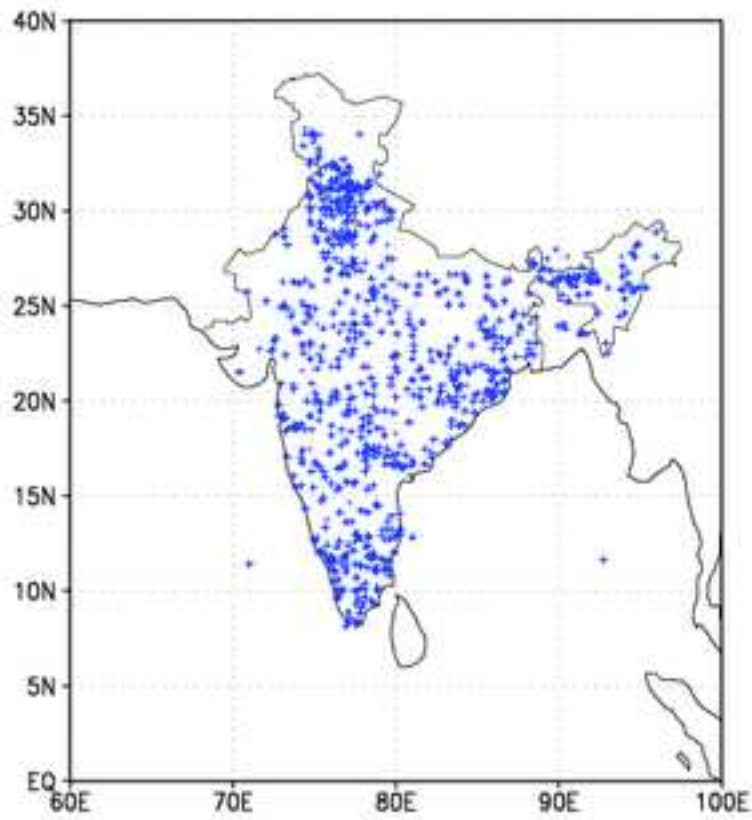


Observation Frequency: ~ 1 hour

Data Coverage: Indian AWS (18022018 1200UTC +/- 3 Hrs)

Total Number of Observations Received at NCMRWF: 3292

AWS + ARG (3292)

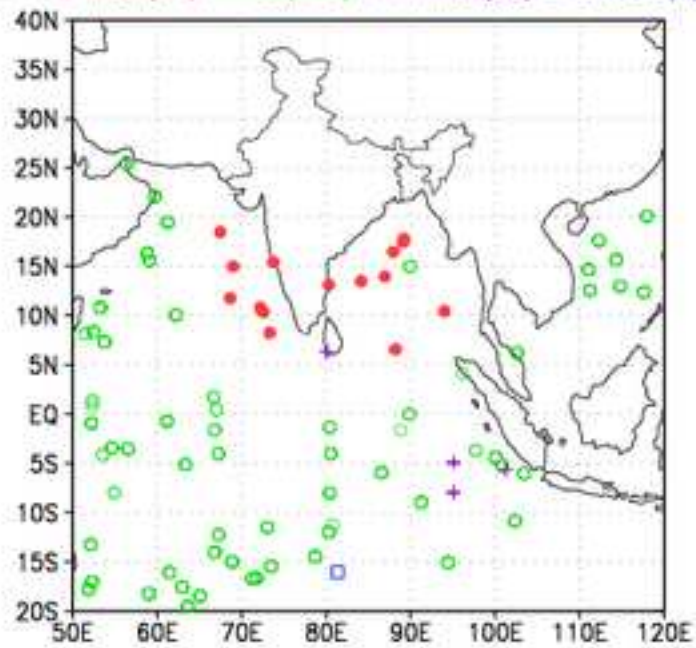


Observation Frequency: ~ 1 hour

Data Coverage: BUOY (18022018 1200UTC +/- 3 Hrs)

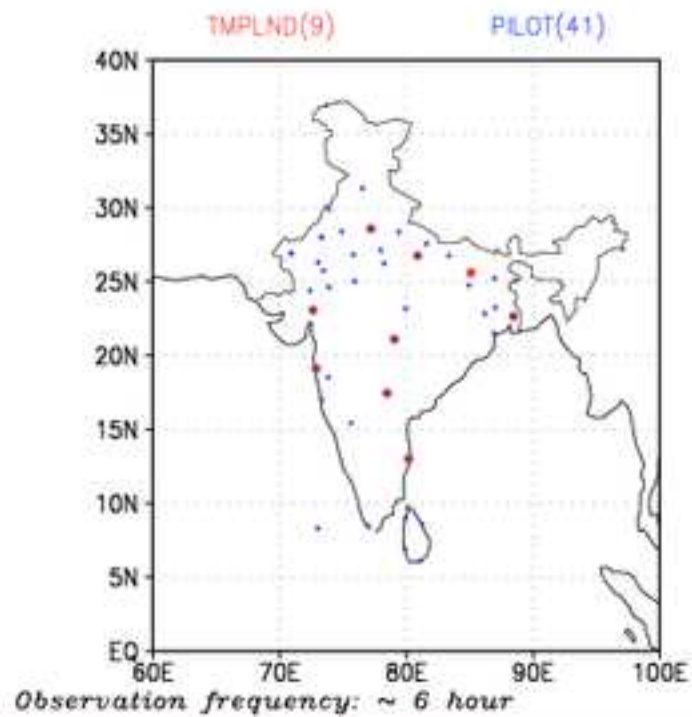
Total Number of Observations Received at NCMRWF: 380

country code in GTS as ● INDIA(31) ○ USA(313) + FRANCE(32) □ OTHERS(4)



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

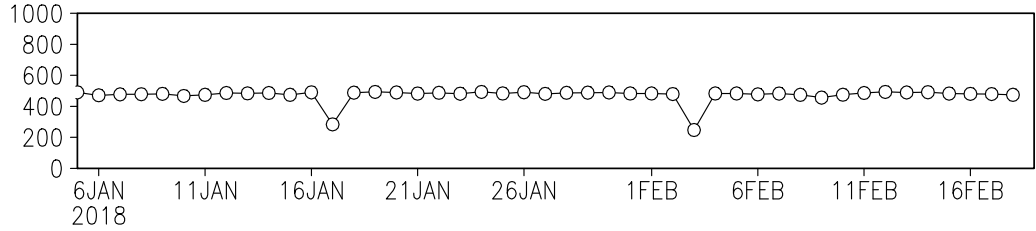
Data Coverage: Sonde (18022018 1200UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 50
(42 & 43 Block)



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

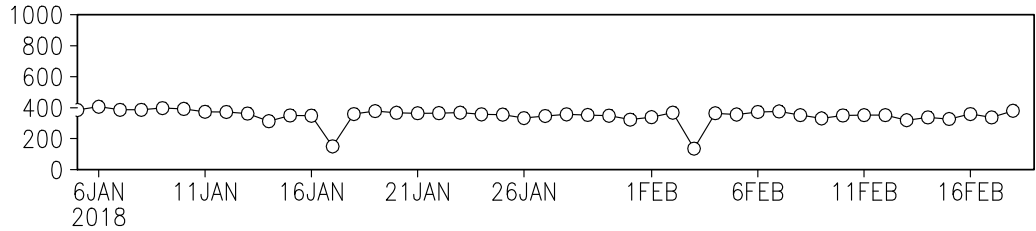
SYNOP

Avg=483
Today_Cnt=474
Dep=-2. %



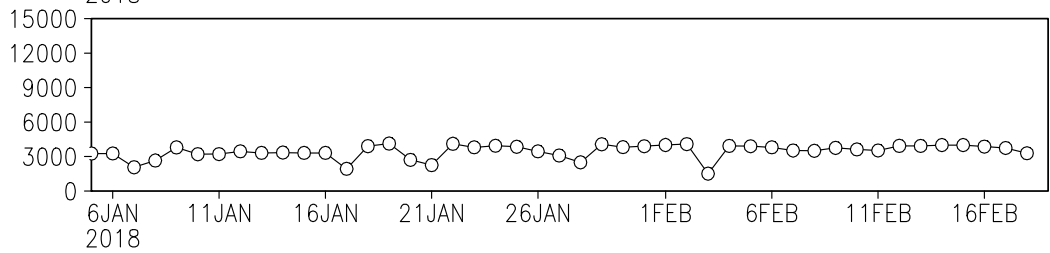
BUOY

Avg=368
Today_Cnt=380
Dep=3. %



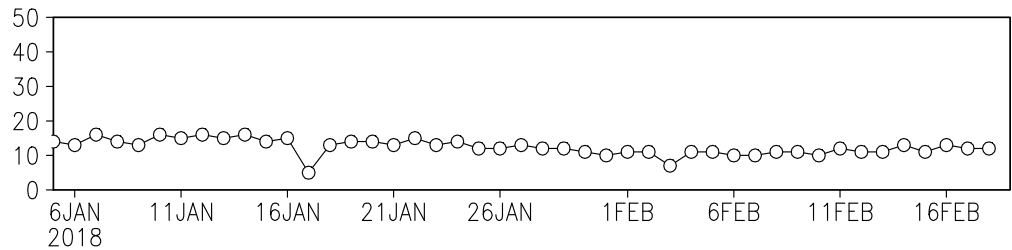
AWS+ARG

Avg=3832
Today_Cnt=3292
Dep=-14. %



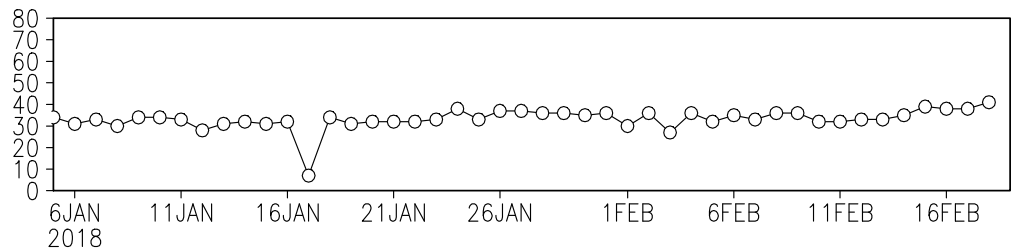
RS/RW

Avg=13
Today_Cnt=12
Dep=-8. %



PILOT

Avg=35
Today_Cnt=41
Dep=17. %

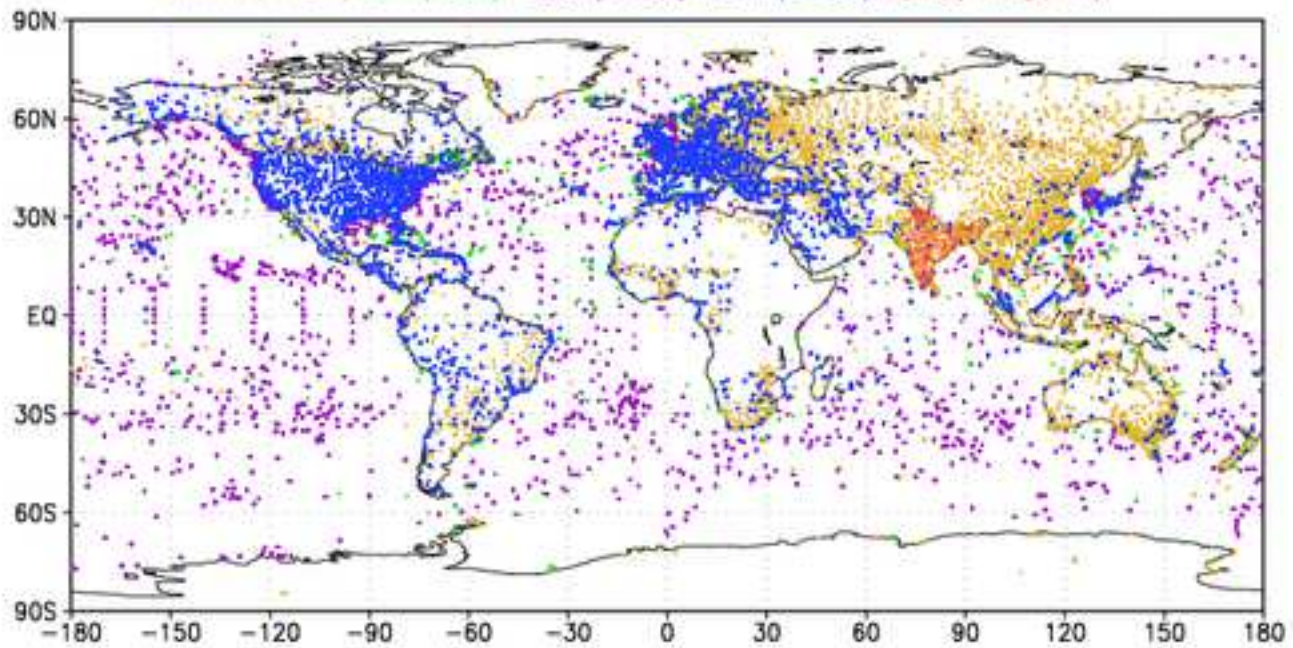


Global Observation Coverage

Data Coverage: Surface (18022018 1200UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 54053

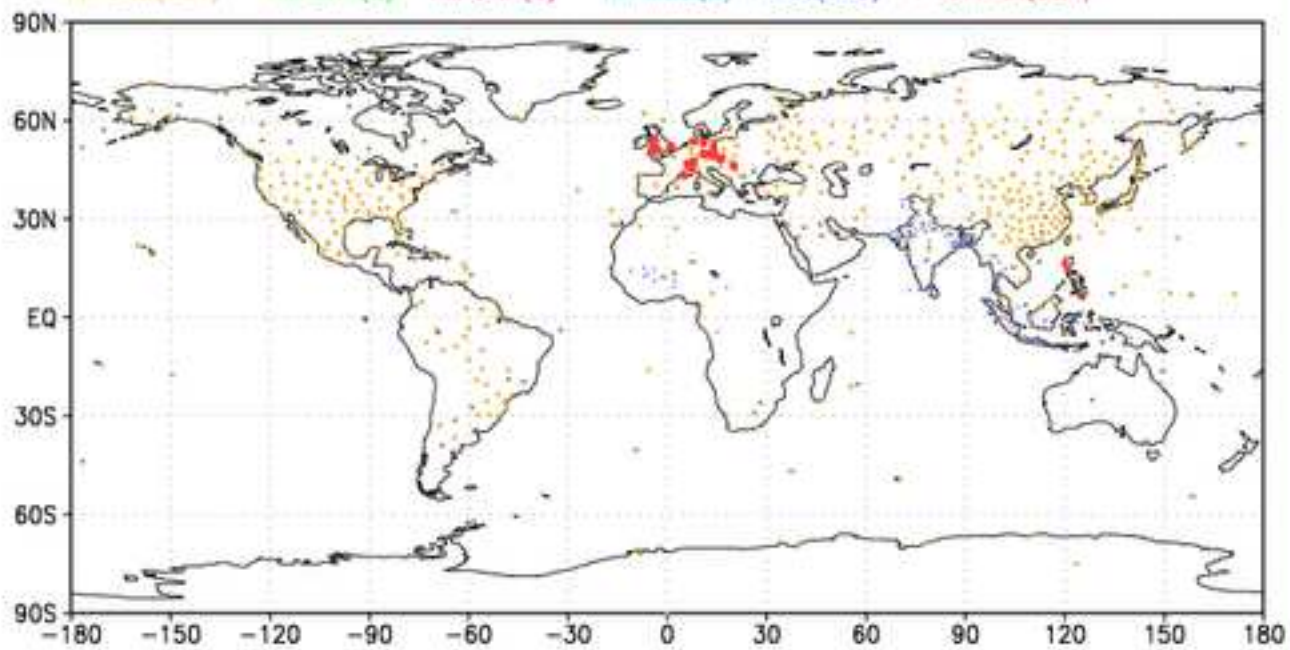
LNDSYN(14683) SHIP(1900) BUOY(12506) METAR(21203) MOBILE/AWS(3761)



Data Coverage: Sonde (18022018 1200UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 1407

TMP LND(621) TMP SHP(0) TMP DRP(0) TMP MDB(0) PILOT(259) PROFILER(527)



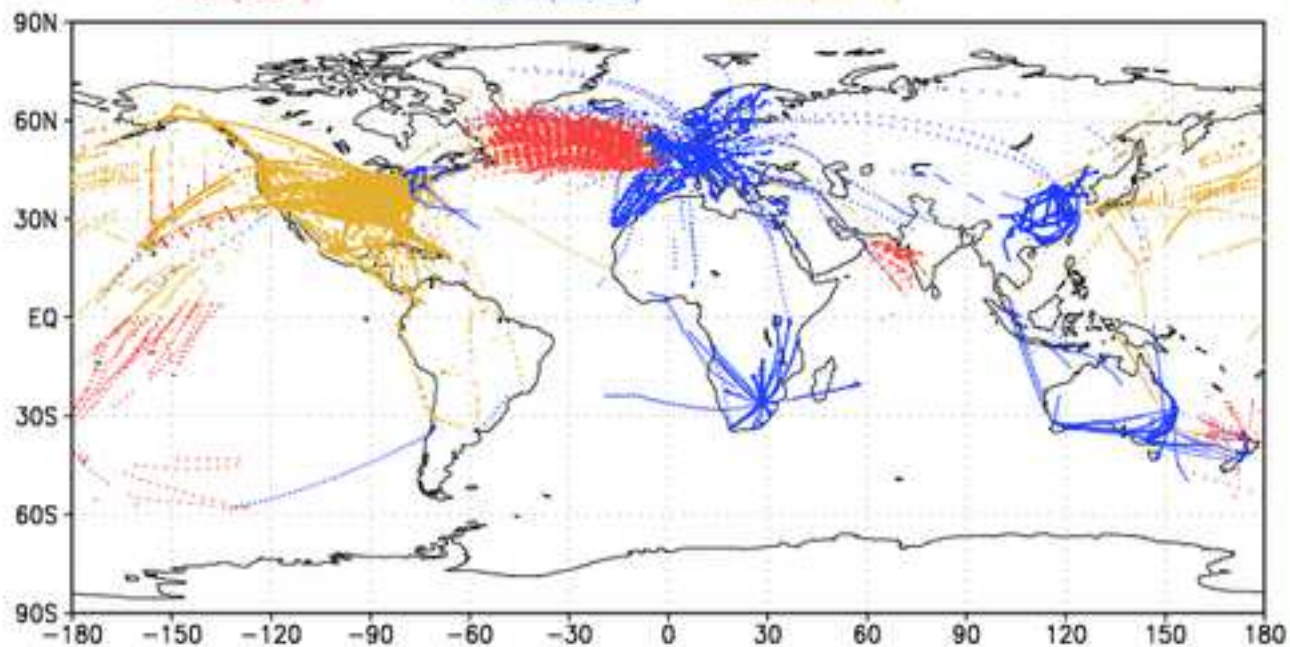
Data Coverage: AIRCFT (18022018 1200UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 82088

AIREP(6281)

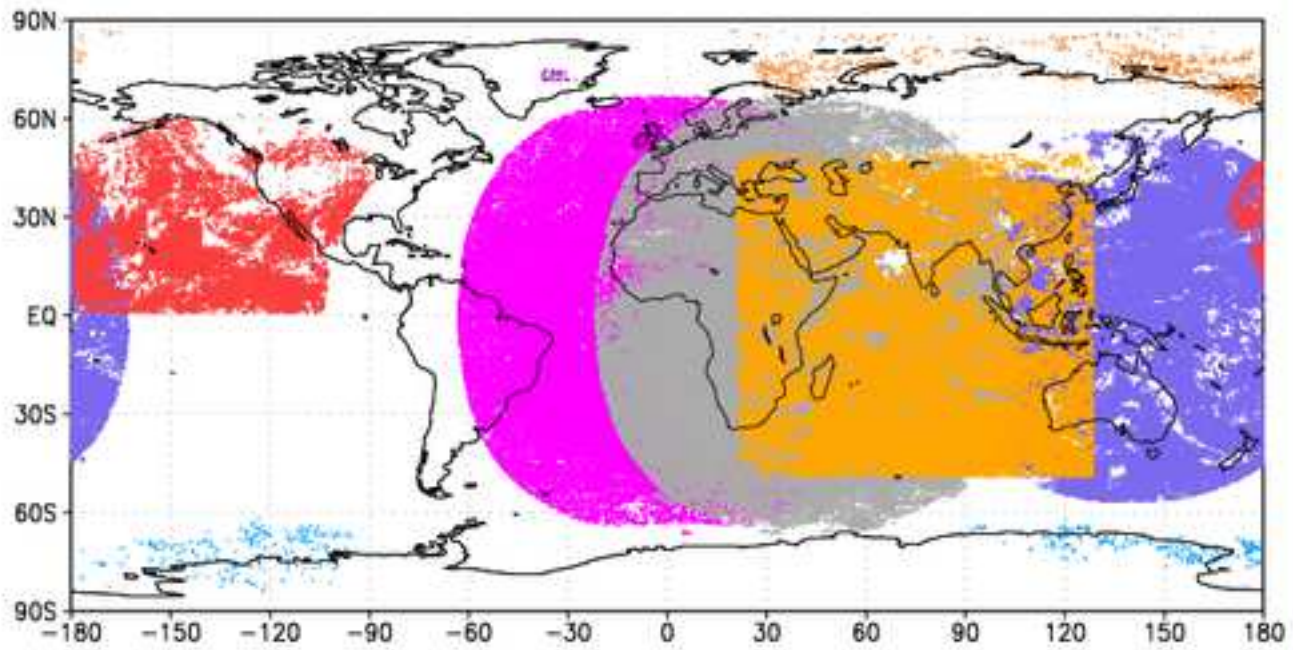
AMDAR(22658)

ACARS(53149)



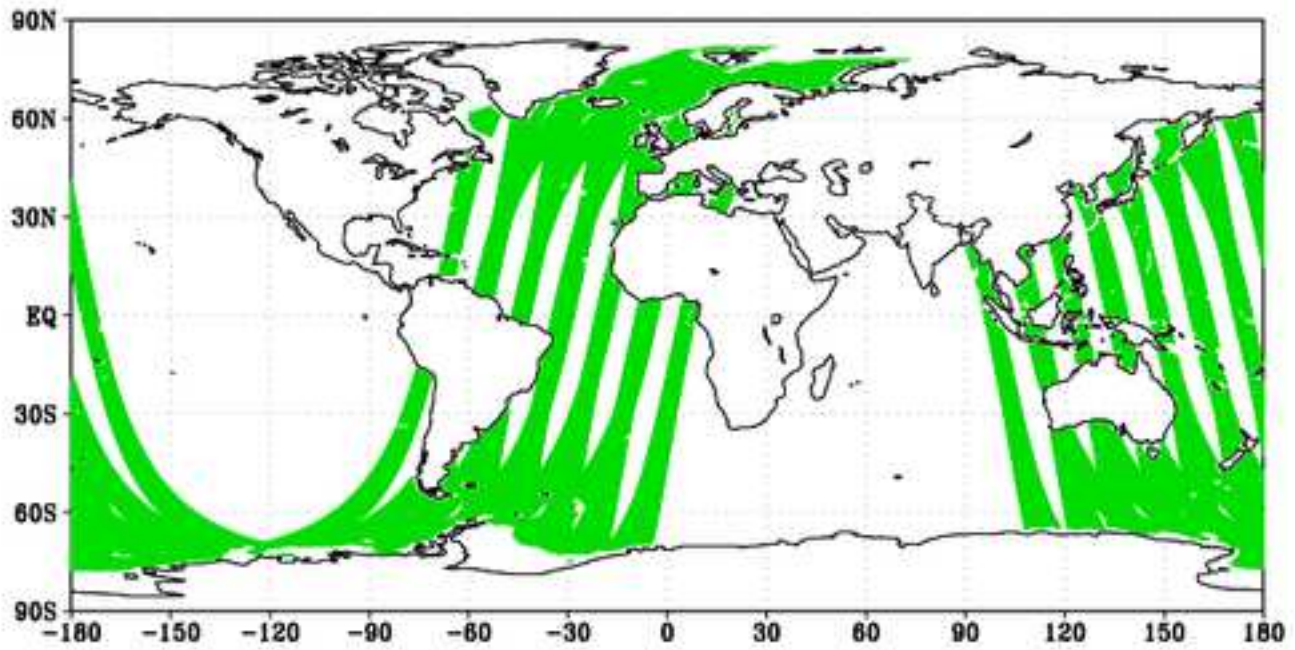
Data Coverage: AMV (18022018 1200UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 692587

GOES-15(26827) GOES-13(0) INSAT-3D(58184) METEOSAT-8(246433)
METEOSAT-10(243246) HIMAWARI-8(111985) MODIS/Terra(1068) MODIS/Aqua(45)
METOP(0) NOAA-15(0) NOAA-18(0) NOAA-18(0) NOAA-19(591)



Data Coverage: ASCAT winds (18022018 12UTC +/- 03Hrs)

ASCAT (233284)



Data Coverage: SAT RADIANCE (18022018 1200UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 3777910

NOAA15(56623)

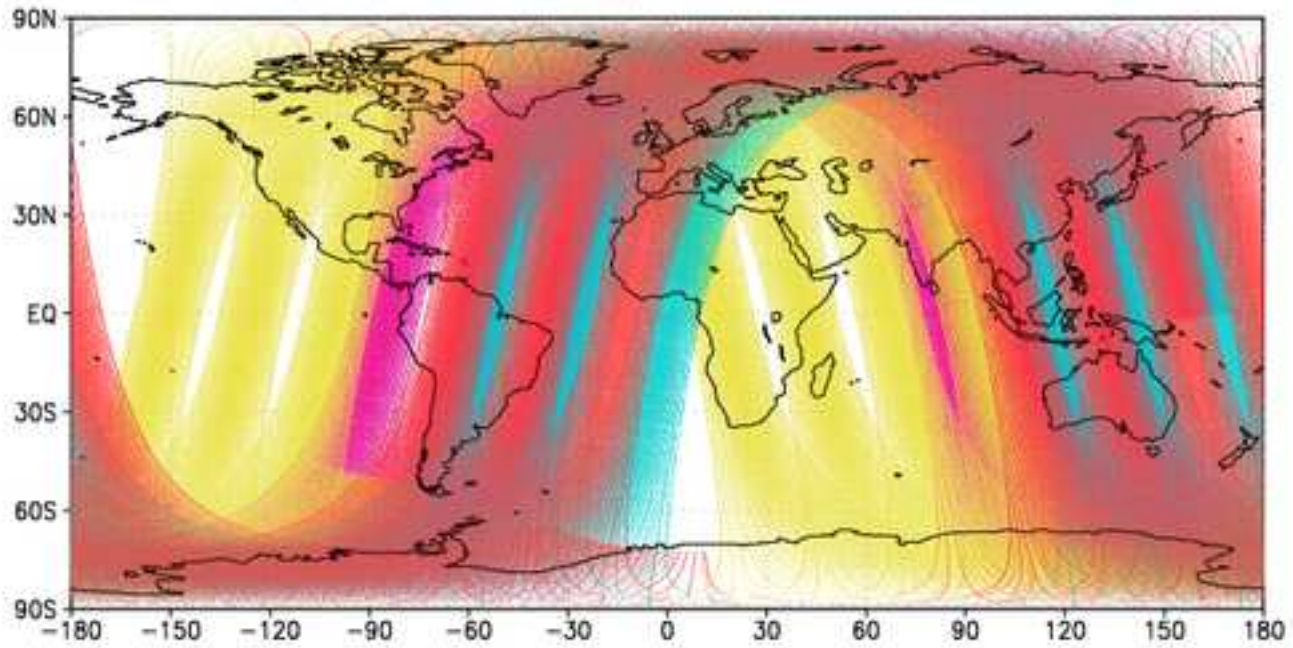
NOAA18(0)

NOAA19(921848)

NOAA17(9838322)

METOP1(987147)

METOP2(626660)



Data Coverage: SAT RADIANCE (EARS+IMD RARS) (18022018 1200UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 2646699

NOAA15(0)

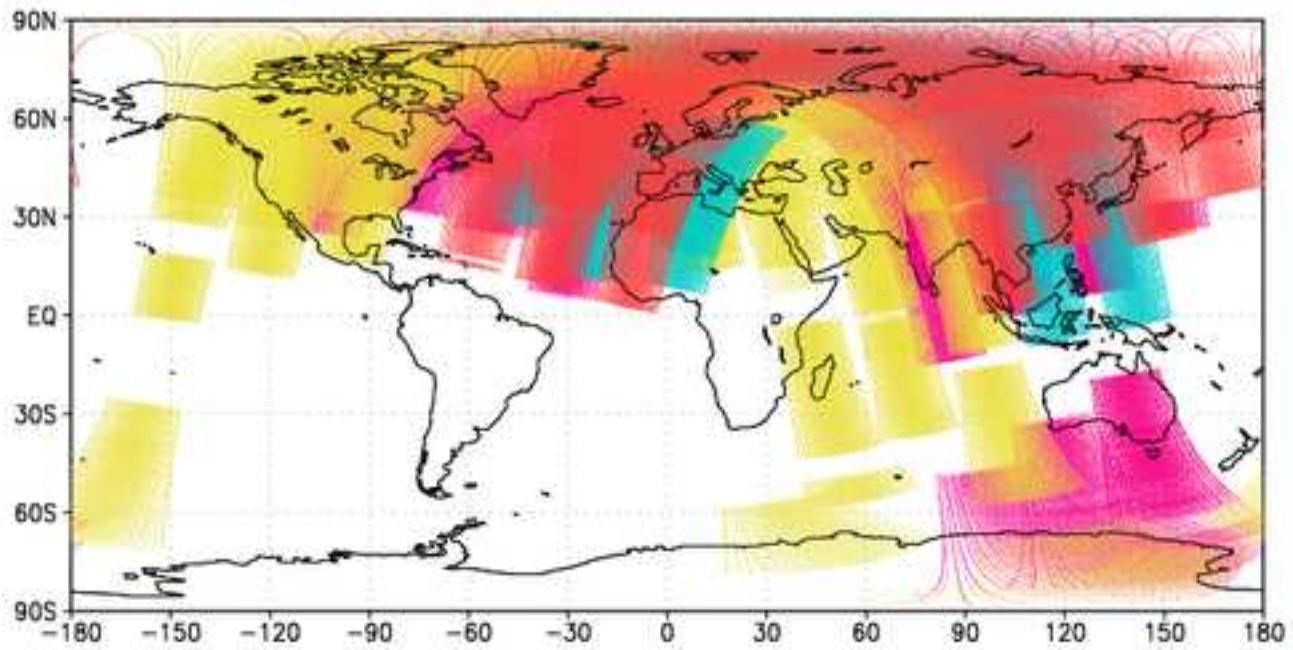
NOAA16(0)

NOAA18(831319)

NOAA19(879978)

METOP1(586266)

METOP2(349195)

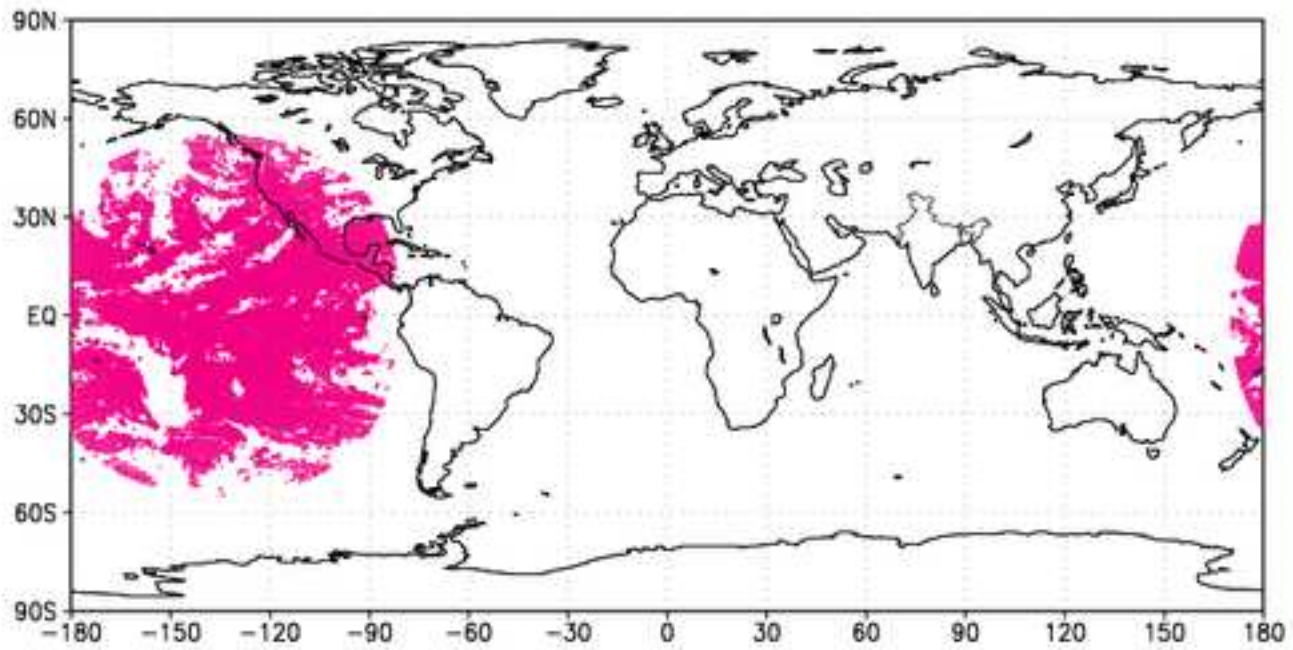


Data Coverage: GOES CSBT (18022018 1200UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 28497

GOES-15(28497)

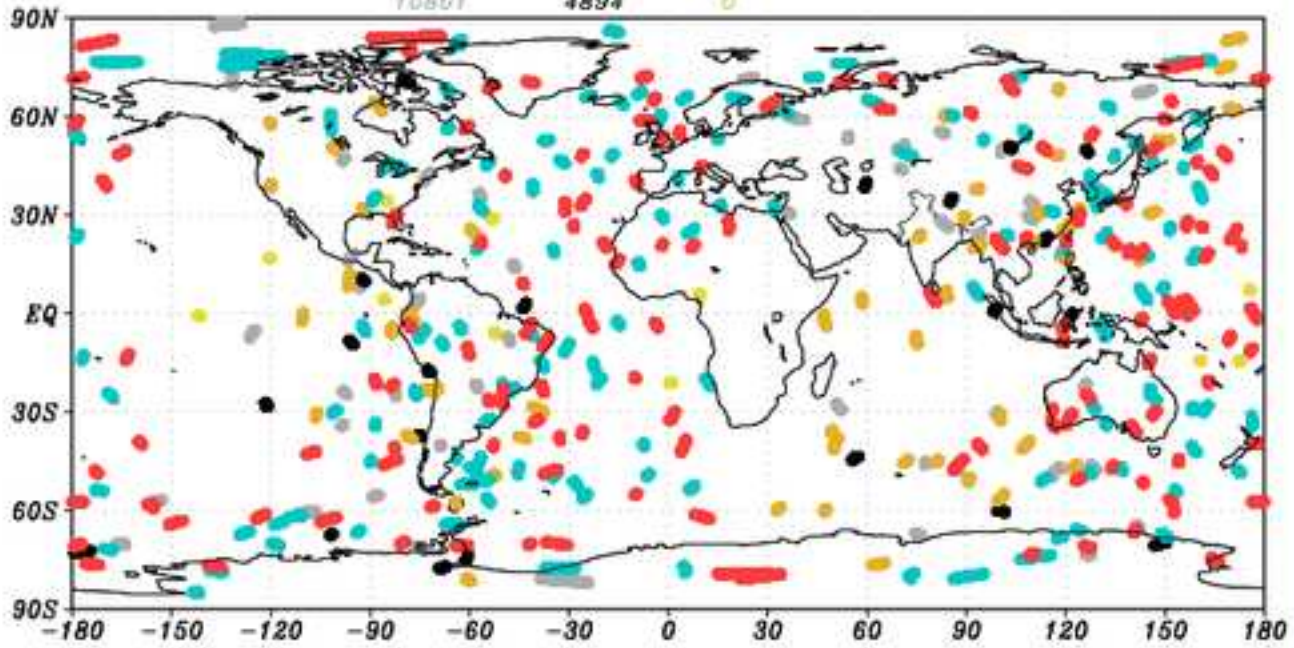
GOES-13(0)



Data Coverage:GPSRO (18022018 1200UTC +/-03Hrs)

Total Number of Observations Received at NCMRWF: 100201

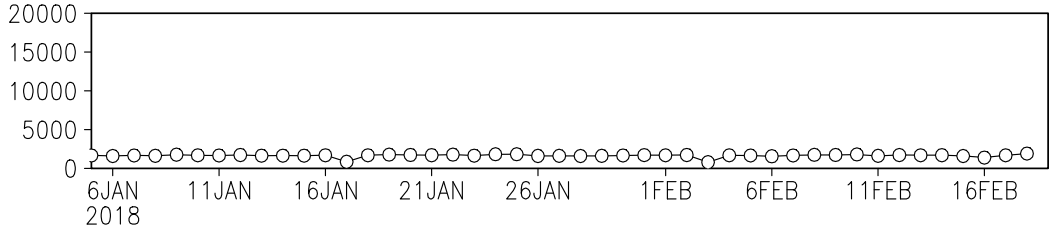
GRACE-A	METOP-B	METOP-A	COSMIC-1	COSMIC-2	COSMIC-3	COSMIC-4	COSMIC-5	COSMIC-6
0	33587	32632	0	0	2033	0	0	16254
	TerraSAR-X	TenDEM-X	GRACE-B					
	10801	4894	0					



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

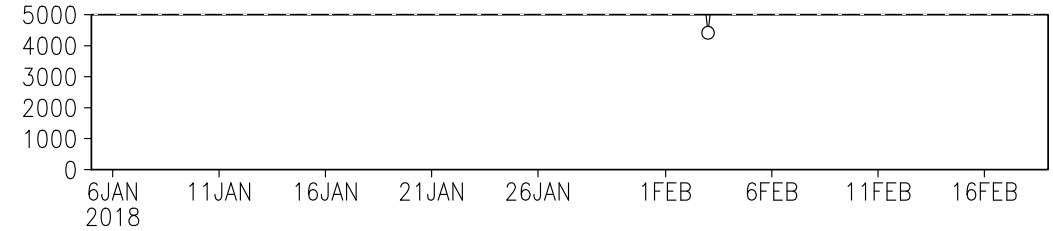
SYNOP

Avg=
Today_Cnt=
Dep= %



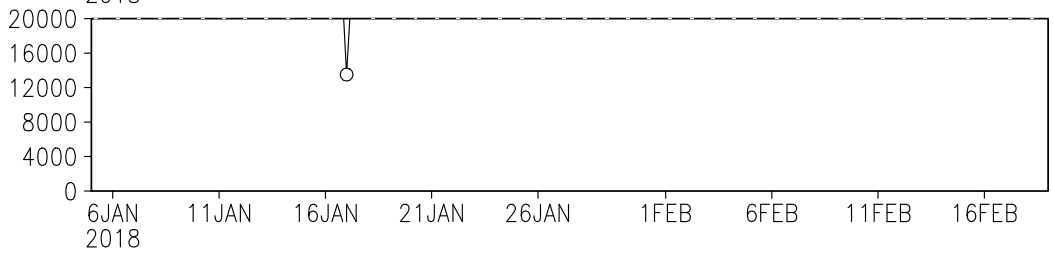
SHIP

Avg=1711
Today_Cnt=1900
Dep=11. %



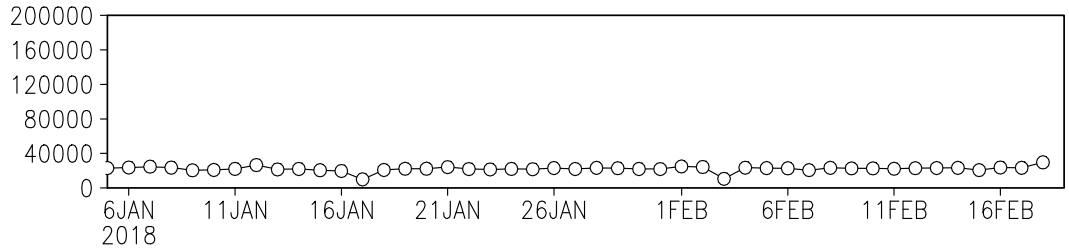
BUOY

Avg=11021
Today_Cnt=12506
Dep=13. %



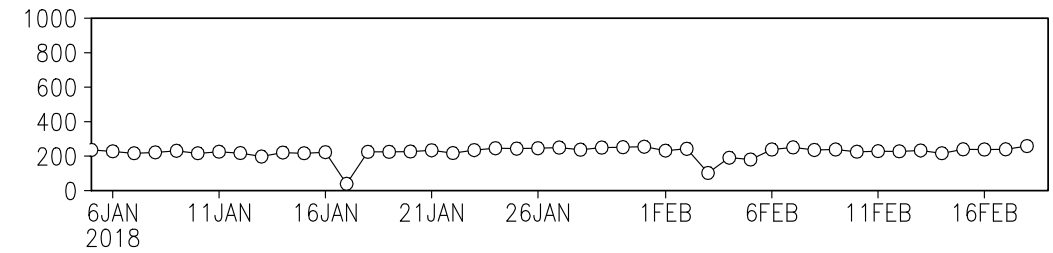
AIRCRAFT

Avg=87647
Today_Cnt=82088
Dep=-6. %



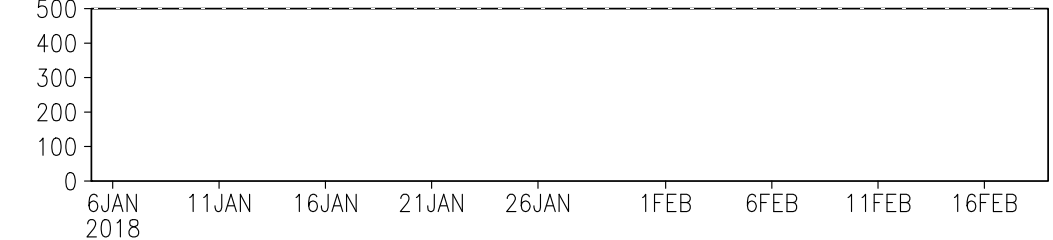
RS/RW

Avg=619
Today_Cnt=621
Dep=0. %



PILOT

Avg=237
Today_Cnt=259
Dep=9. %



AMV

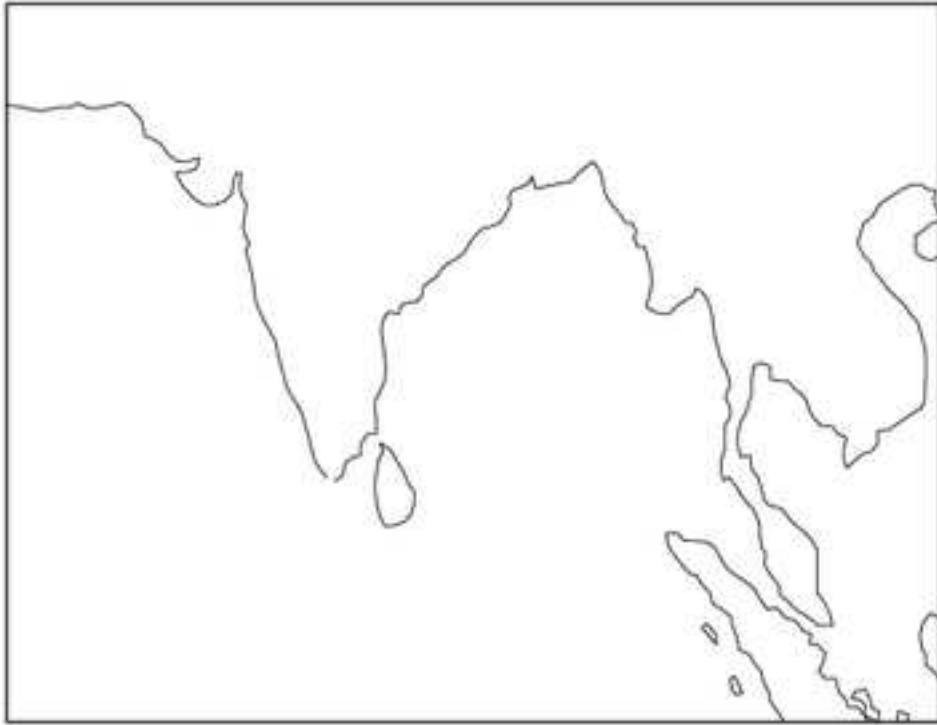
Avg=729550
Today_Cnt=692587
Dep=-5. %



SCATTEROMETER WIND VECTORS

RECEIVED AT NCMRWF (20180218 12Z)

ASCAT WINDS (18022018 12 UTC):NCMRWF



INSAT-3D

ATMOSPHERIC MOTION VECTORS (AMV)

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

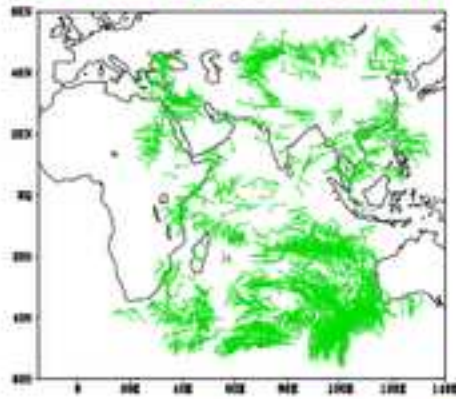
WATER VAPOUR WINDS (WV)

VISIBLE WINDS (VIS) }

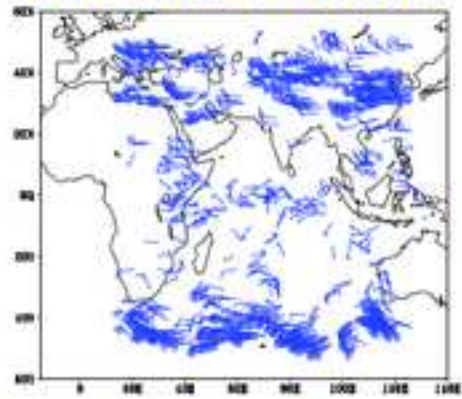
AMV DEVIATION
(OBSERVATION - FIRST GUESS)

INSAT-3D ATMOSPHERIC MOTION VECTORS (IR,10.8) (18022018 1200UTC)

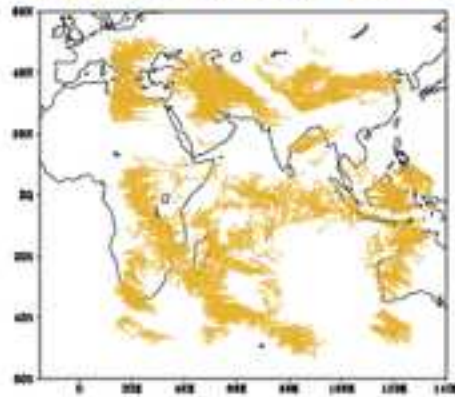
Low Level (Below 700 hPa)



Mid Level (700 - 401 hPa)

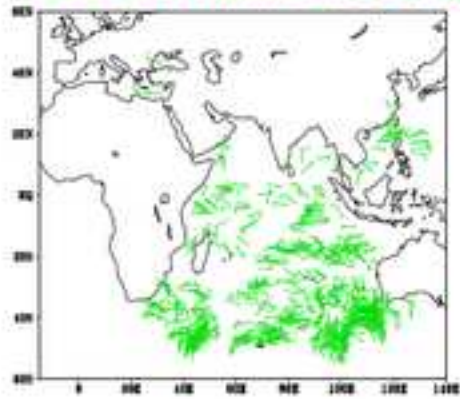


High Level (Above 400 hPa)

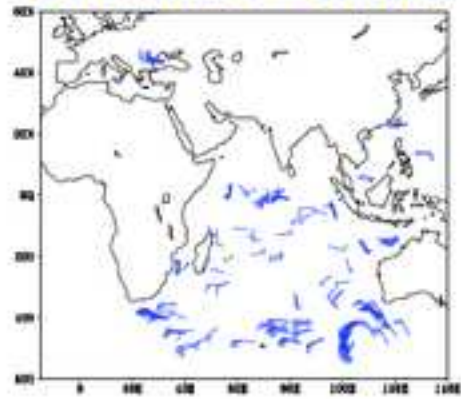


INSAT-3D ATMOSPHERIC MOTION VECTORS (IR,3.8) (18022018 1200UTC)

Low Level (Below 700 hPa)

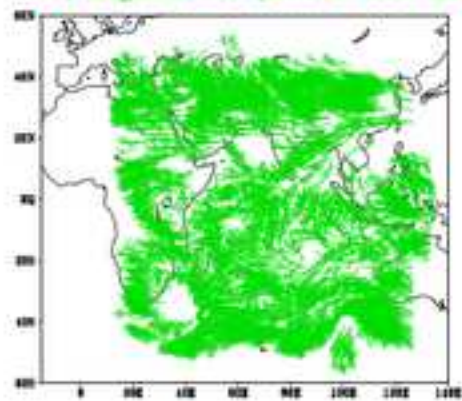


Mid Level (700 - 401 hPa)

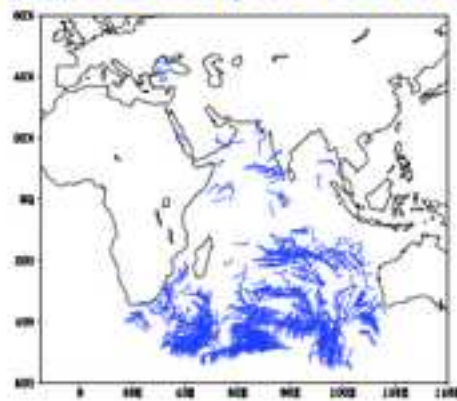


INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) (18022018 1200UTC)

WV, High Level (Above 400 hPa)

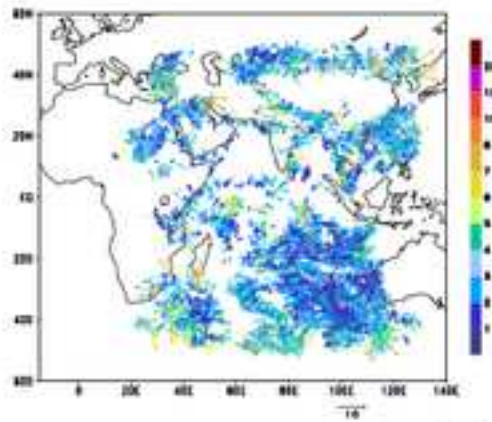


VIS, Low Level (Below 700 hPa)

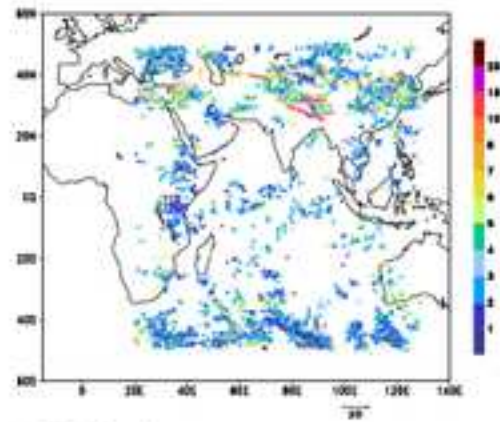


INSAT-3D ATMOSPHERIC MOTION VECTORS (IR,10.8) DEVIATION (18022018 1200UTC)

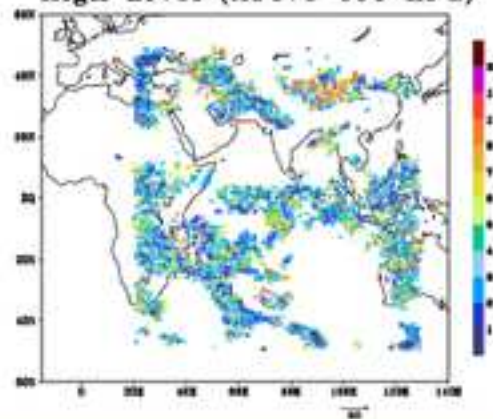
Low Level (Below 700 hPa)



Mid Level (700 - 401 hPa)

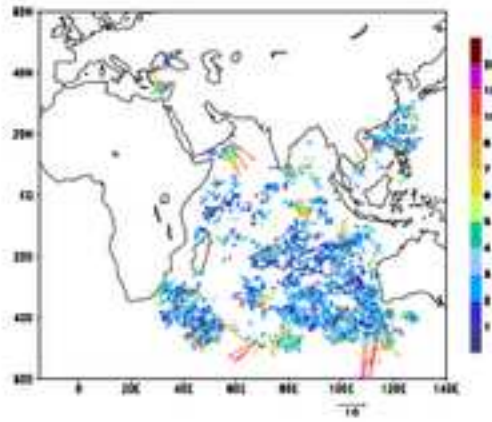


High Level (Above 400 hPa)

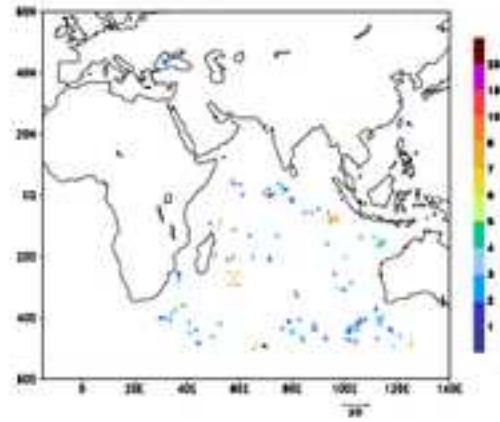


INSAT-3D ATMOSPHERIC MOTION VECTORS (IR,3.8) DEVIATION (18022018 1200UTC)

Low Level (Below 700 hPa)

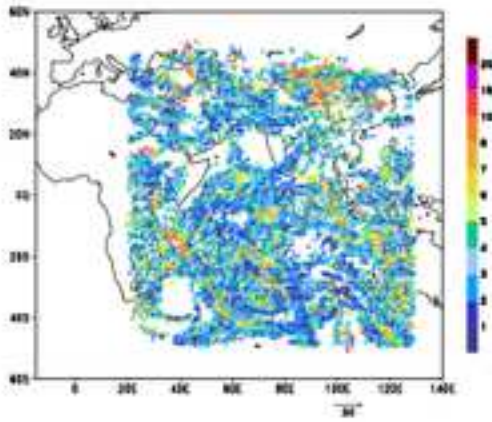


Mid Level (700 - 401 hPa)

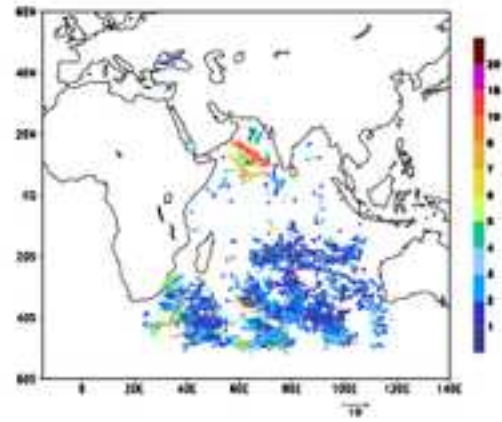


INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) DEVIATION (18022018 1200UTC)

WV, High Level (Above 400 hPa)

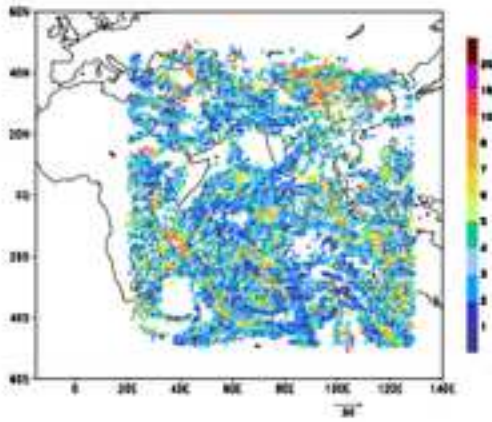


VIS, Low level (Below 700 hPa)

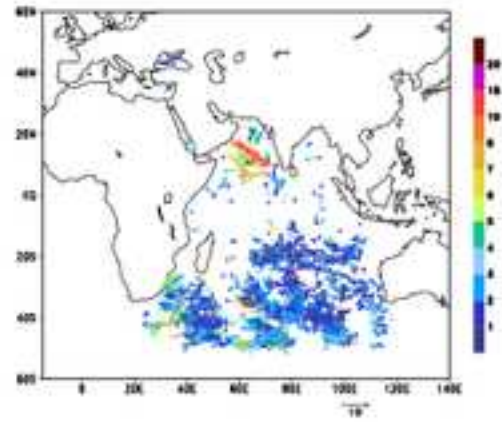


INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) DEVIATION (18022018 1200UTC)

WV, High Level (Above 400 hPa)

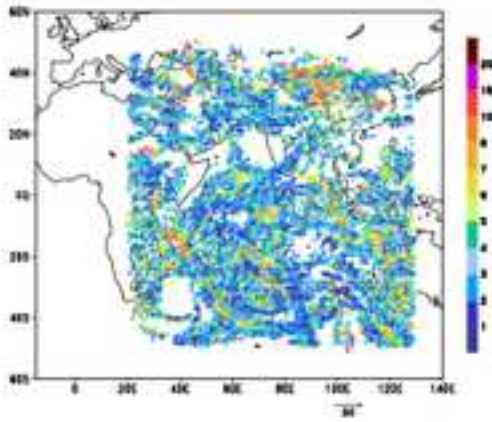


VIS, Low level (Below 700 hPa)

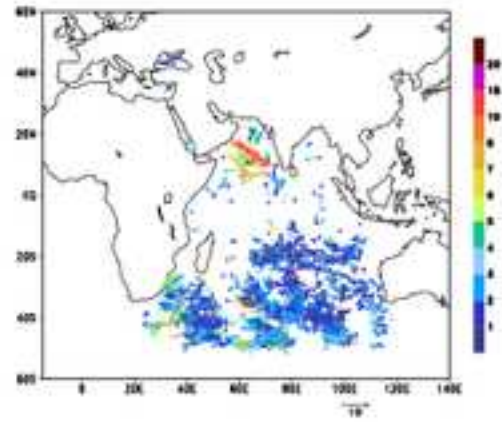


INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) DEVIATION (18022018 1200UTC)

WV, High Level (Above 400 hPa)

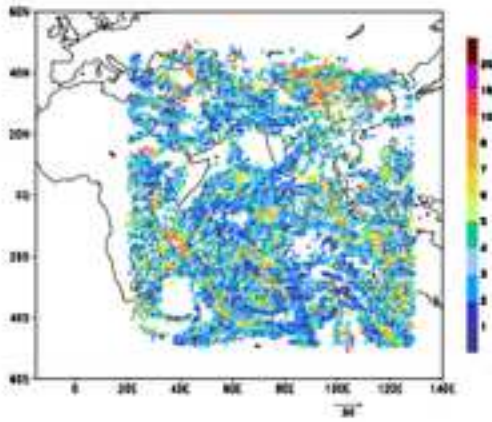


VIS, Low level (Below 700 hPa)

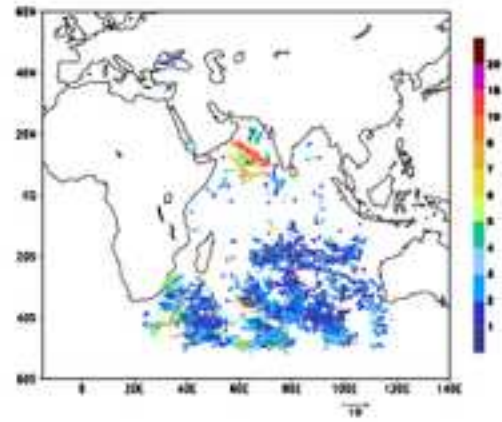


INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) DEVIATION (18022018 1200UTC)

WV, High Level (Above 400 hPa)

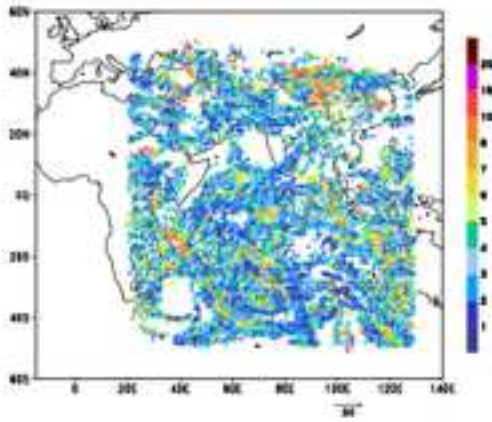


VIS, Low level (Below 700 hPa)

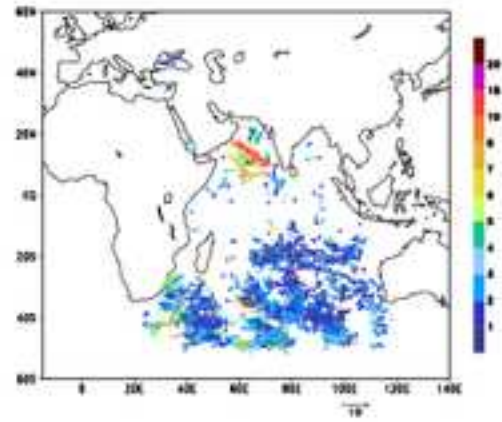


INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) DEVIATION (18022018 1200UTC)

WV, High Level (Above 400 hPa)



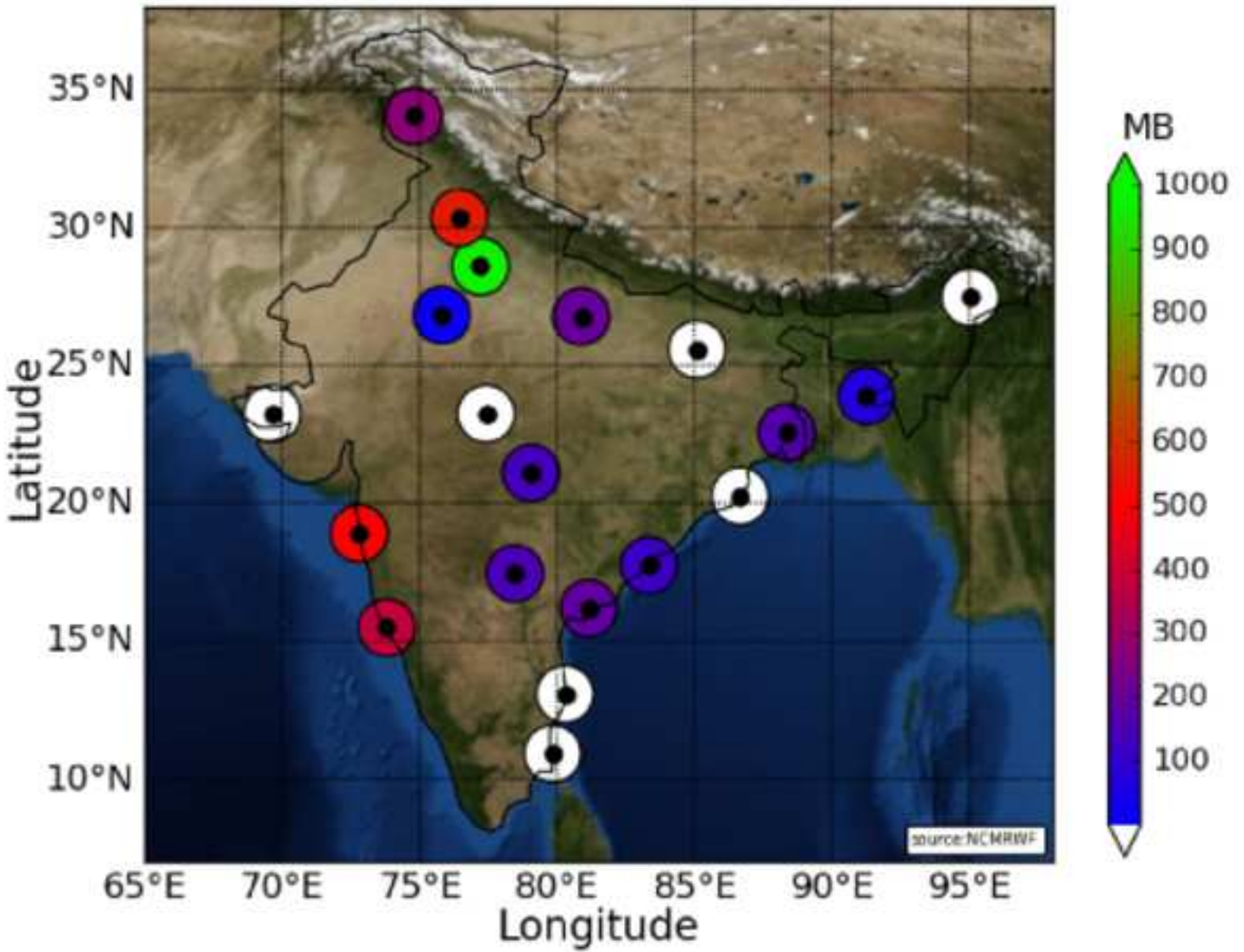
VIS, Low level (Below 700 hPa)



Indian Doppler Weather Radar Data Monitoring

Volume of DWR observations received at NCMRWF

Date: 20180218 at : 12UTC

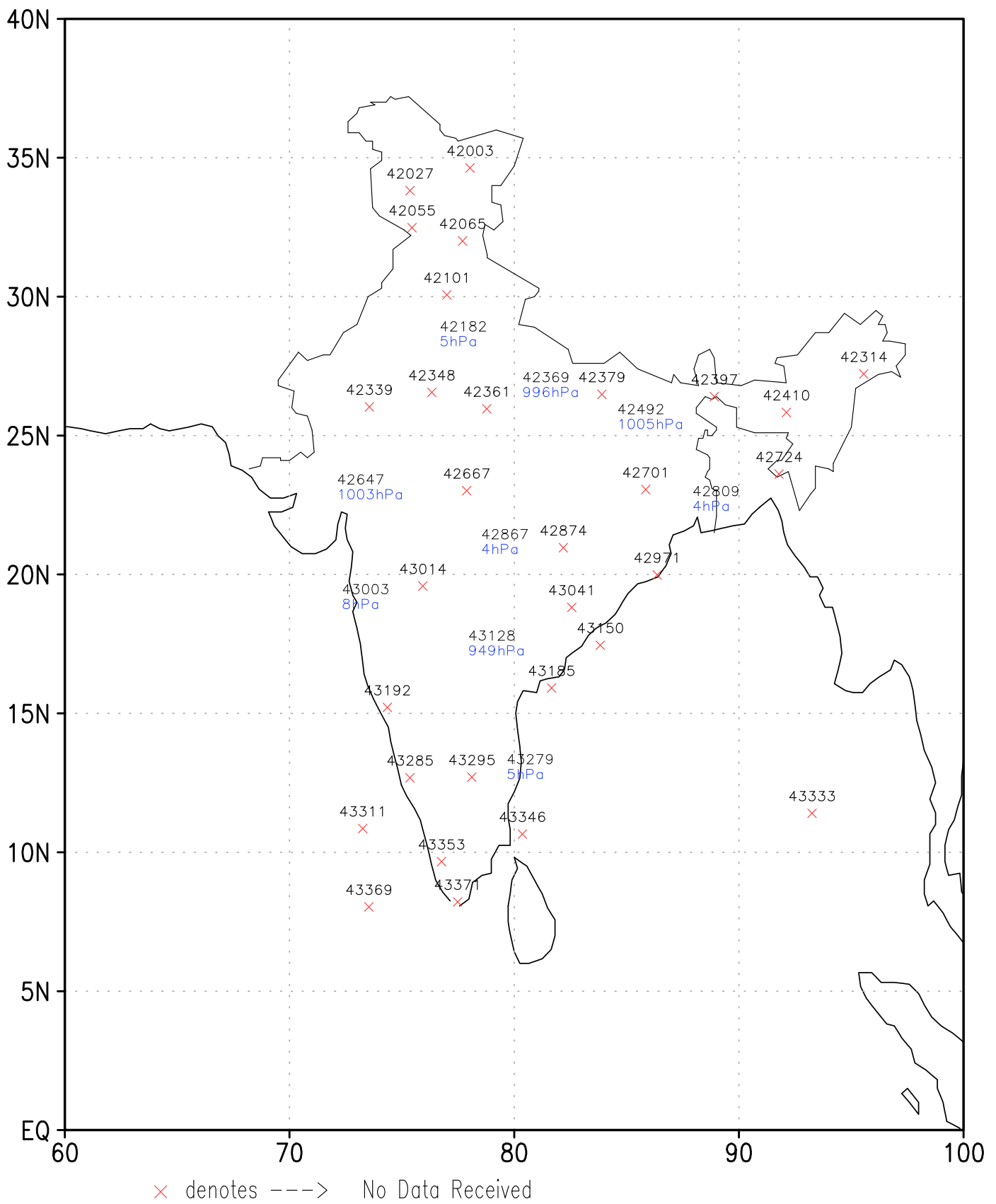


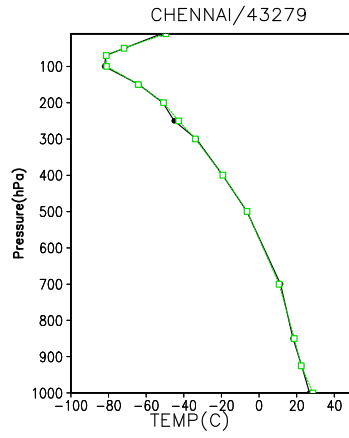
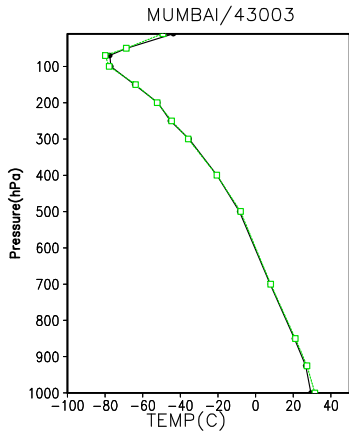
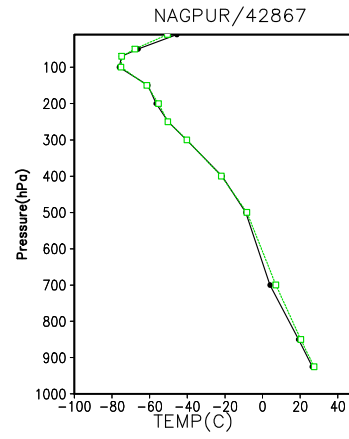
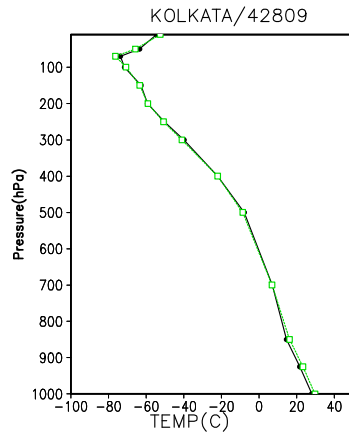
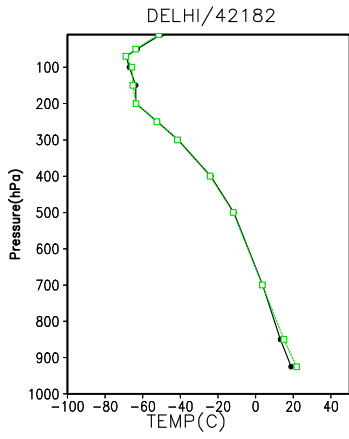
Quality of Indian RS/RW Observations

Maximum height reported
by RS/RW ascents

Temperature and Zonal Wind
Rejections by NGFS GDAS

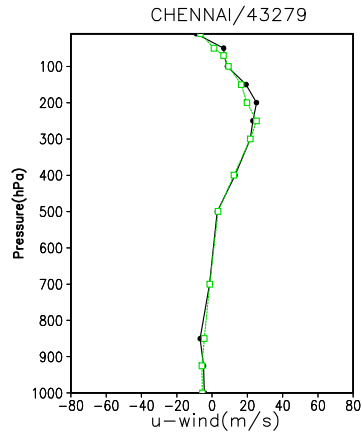
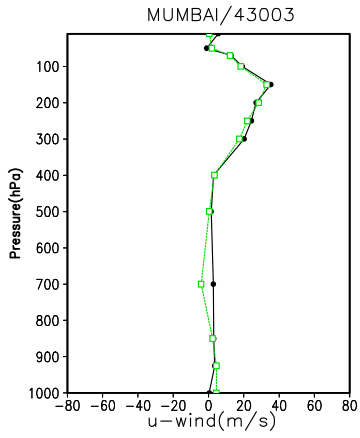
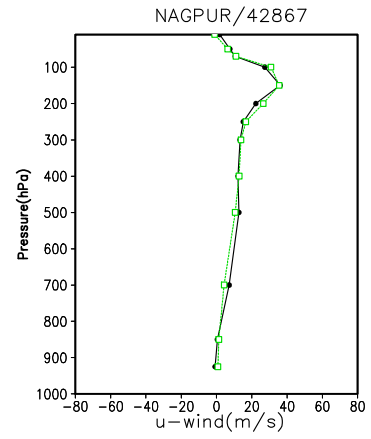
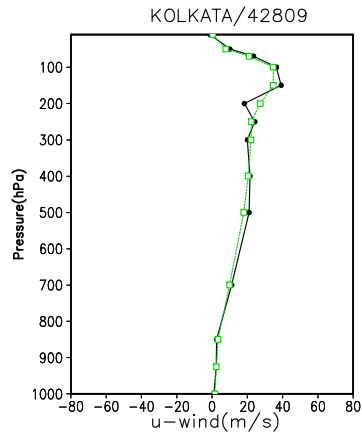
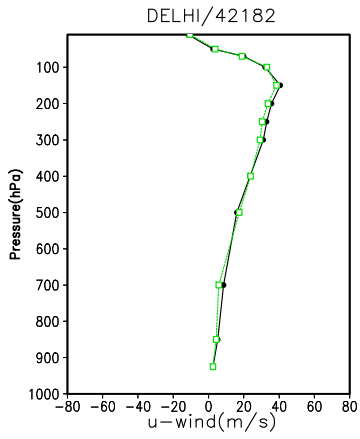
Highest Level Reported by RS/RW (18022018 1200UTC +/- 03Hrs)





Observed (—) and 1st-guess (—) Temperature (Deg C) for 12UTC 18022018

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



Observed (—) and 1st-guess (—) Zonal wind (m/s) for 12UTC 18022018
 × -- denotes the rejection of observation by NGFS GDAS
 (plotted for standard pressure levels only)