

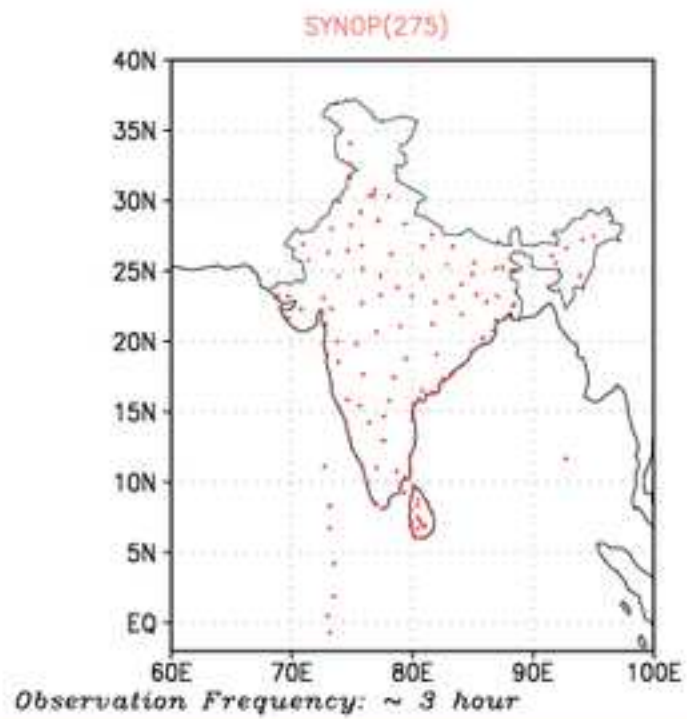
Observation Monitoring

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

for 27062017 (1800 UTC)

Indian Observation Coverage

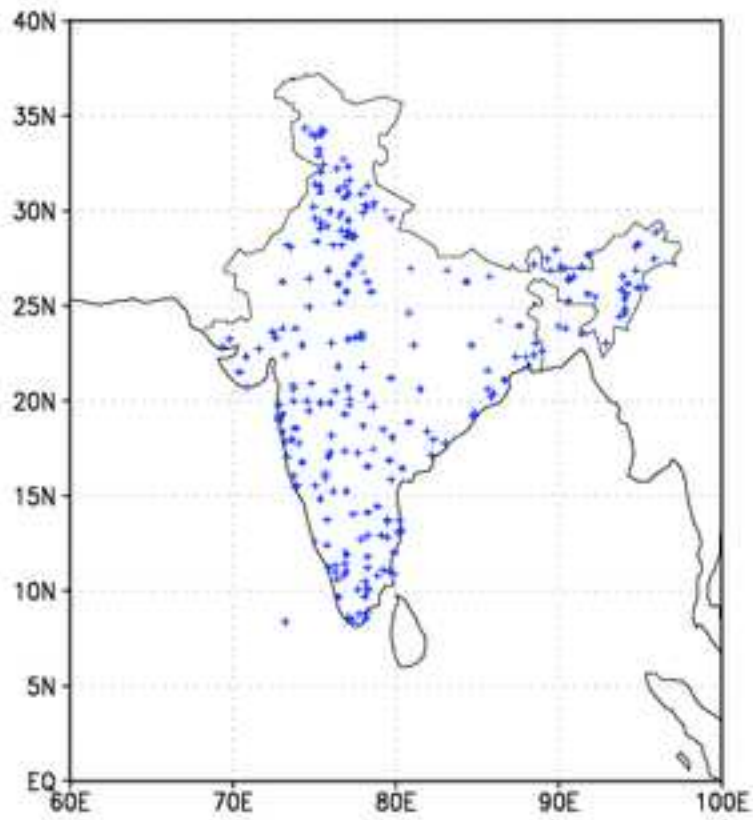
Data Coverage: Surface (27062017 1800UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 275
(42 & 43 Block)



Data Coverage: Indian AWS (27062017 1800UTC +/- 3 Hrs)

Total Number of Observations Received at NCMRWF: 1268

AWS PRESSURE (1268)

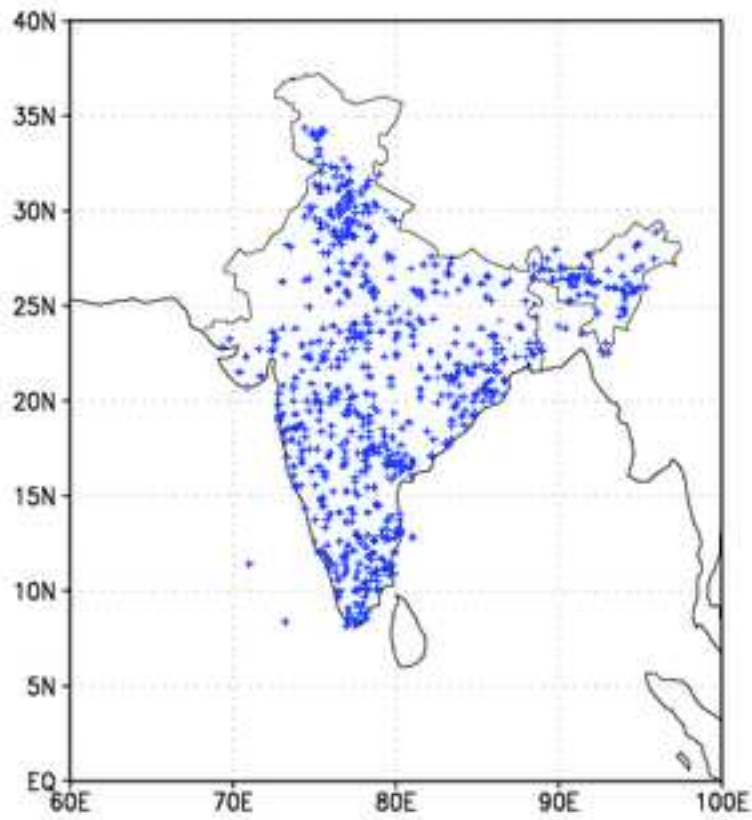


Observation Frequency: ~ 1 hour

Data Coverage: Indian AWS (27062017 1800UTC +/- 3 Hrs)

Total Number of Observations Received at NCMRWF: 3761

AWS + ARG (3761)

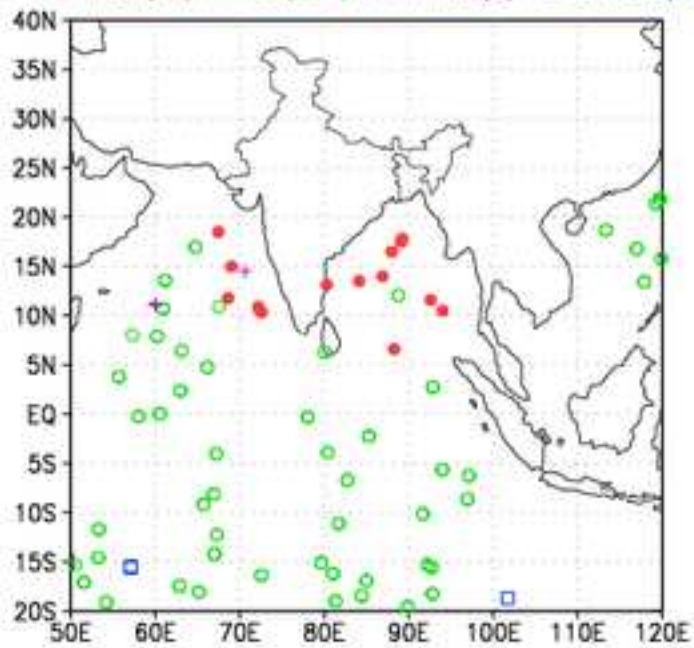


Observation Frequency: ~ 1 hour

Data Coverage: BUOY (27062017 1800UTC +/- 3 Hrs)

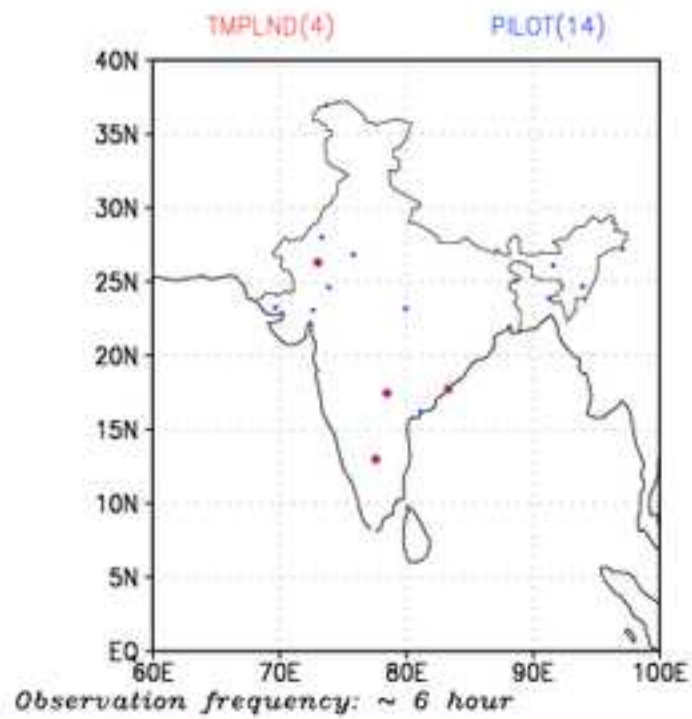
Total Number of Observations Received at NCMRWF: 345

country code in GTS as ● INDIA(30) ○ USA(291) + FRANCE(8) □ OTHERS(16)



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

Data Coverage: Sonde (27062017 1800UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 18
(42 & 43 Block)



Count for different types of observation (Over Indian Region)
for the last 45 days (valid for 18 UTC)

SYN0P

Avg=
Today_Cnt=
Dep= %

BUOY

Avg=
Today_Cnt=
Dep= %

AWS+ARG

Avg=
Today_Cnt=
Dep= %

RS/RW

Avg=
Today_Cnt=
Dep= %

PILOT

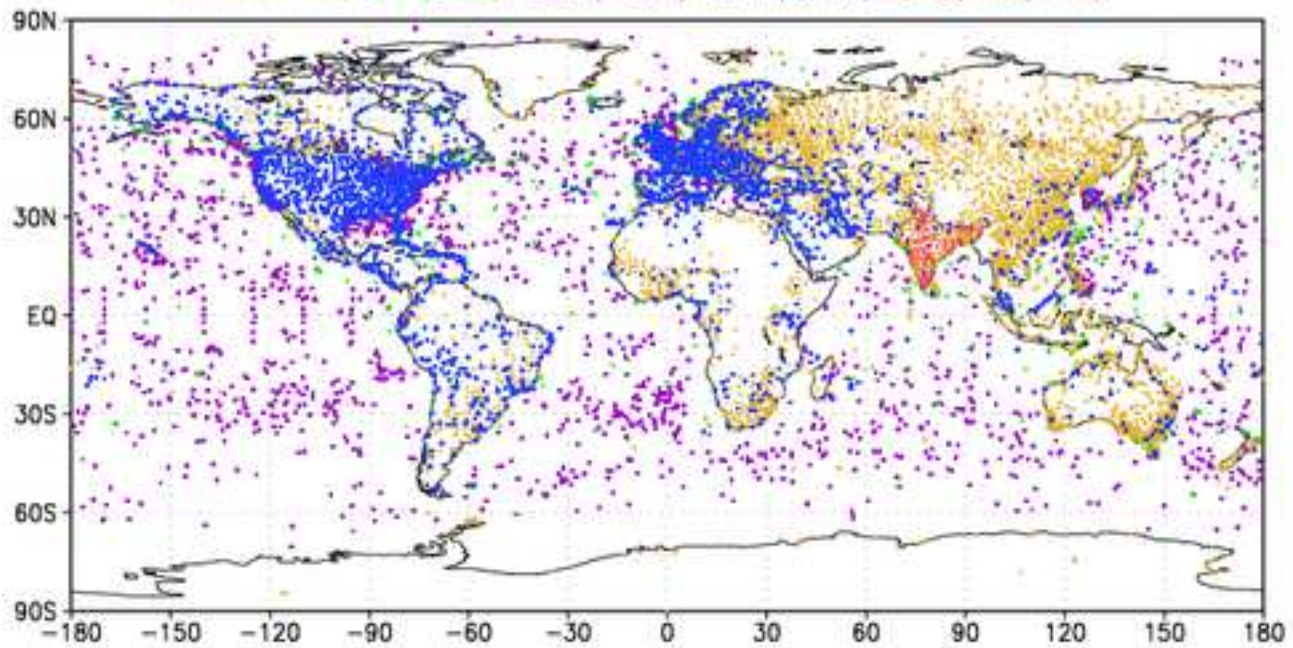
Avg=
Today_Cnt=
Dep= %

Global Observation Coverage

Data Coverage: Surface (27062017 1800UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 55646

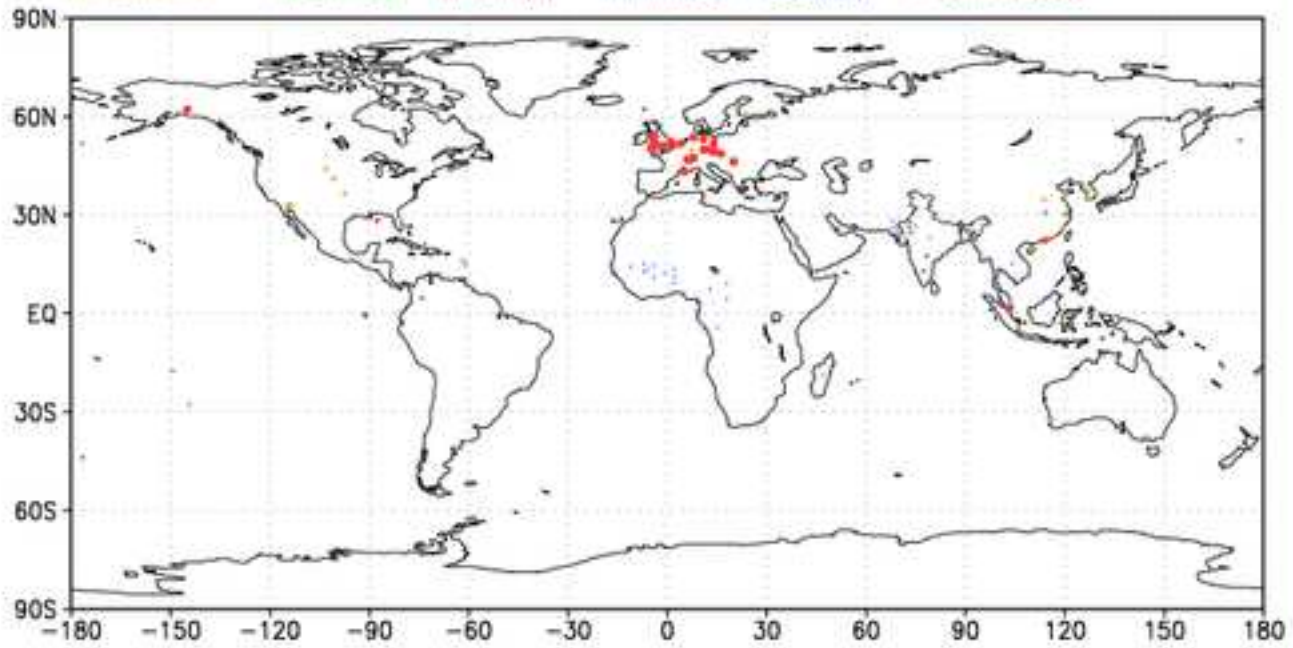
LNDSYN(14702) SHIP(2003) BUOY(14361) METAR(20170) MOBILE/AWS(4410)



Data Coverage: Sonde (27062017 1800UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 670

TMPLND(43) TMPSHP(0) TMPDRP(1) TMPMDB(0) PILOT(73) PROFILER(553)



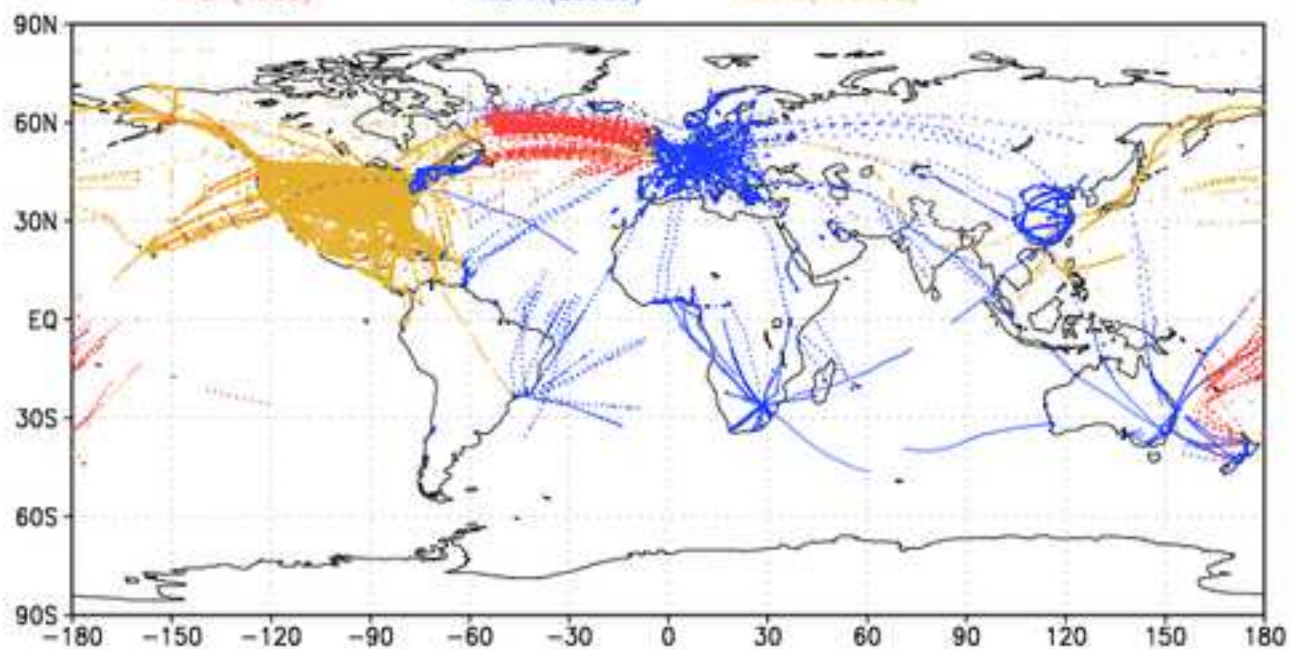
Data Coverage: AIRCFT (27062017 1800UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 194529

AIREP(4968)

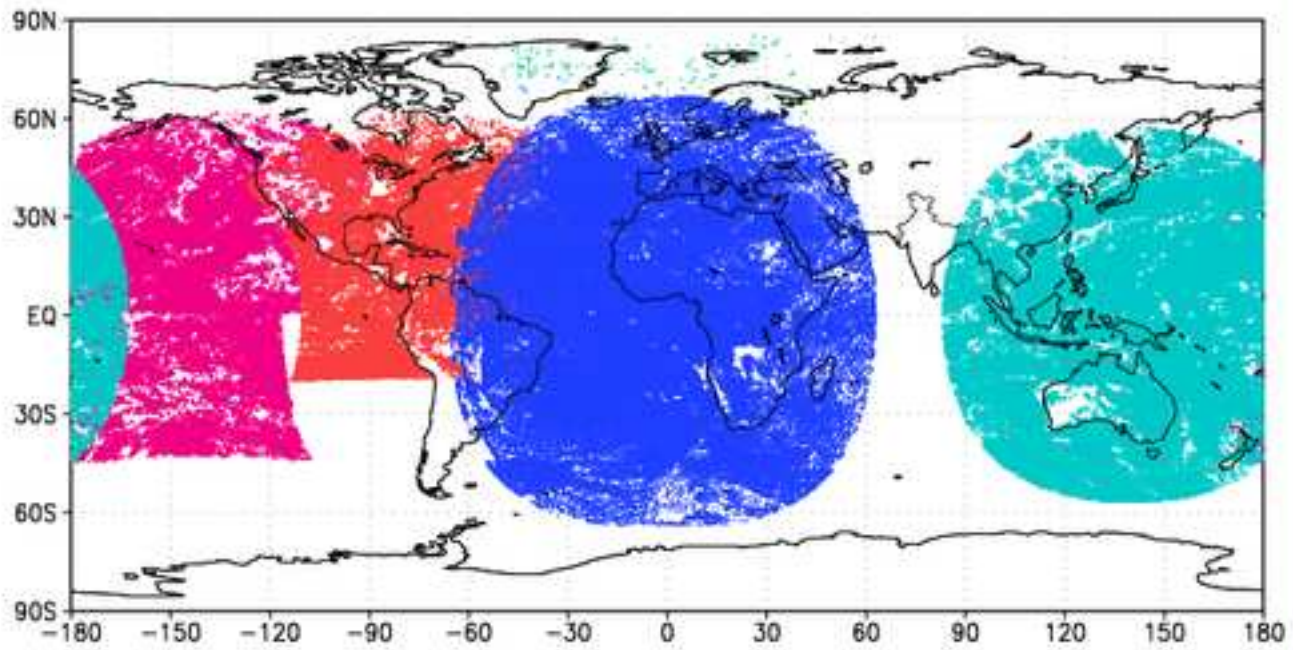
AMDAR(23039)

ACARS(166522)



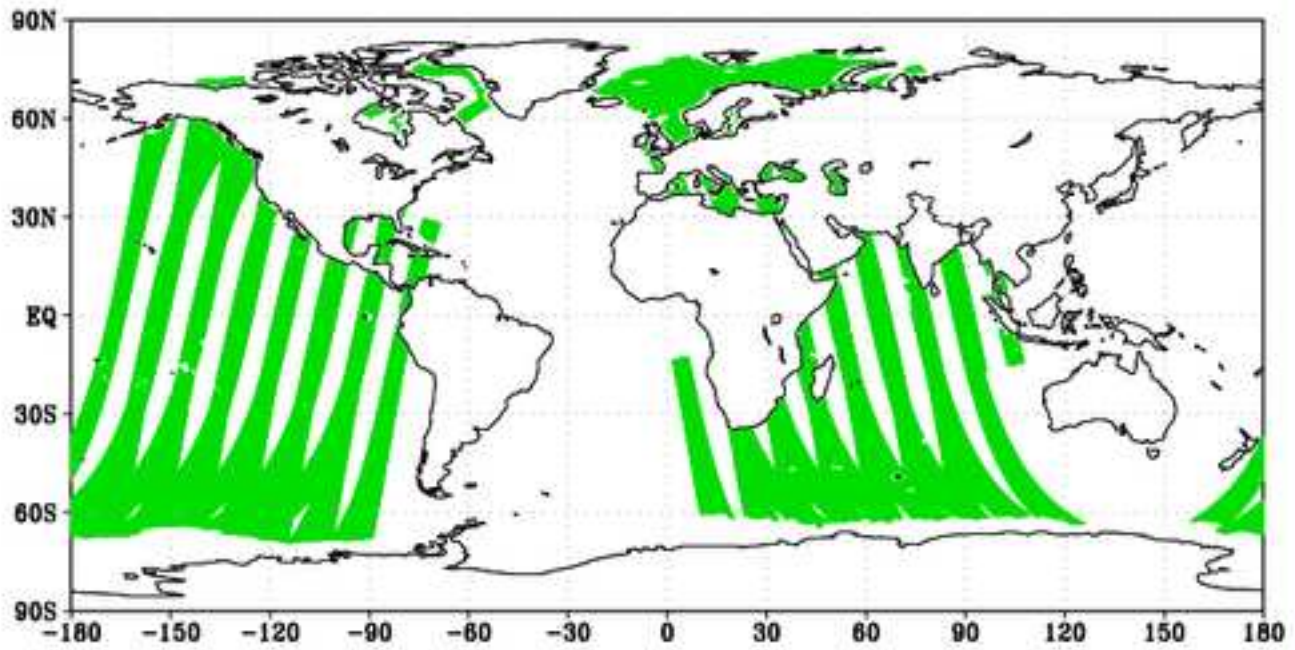
Data Coverage: AMV (27062017 1800UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 432609

GOES-15(93627) GOES-13(65809) METEOSAT-7(0) METEOSAT-8(0)
METEOSAT-10(139235) GMS/MTSAT(132035) MODIS/Terra(0) MODIS/Aqua(0)
METOP(0) NOAA-15(0) NOAA-16(0) NOAA-18(175) NOAA-19(31)



Data Coverage: ASCAT winds (27062017 18UTC +/- 03Hrs)

ASCAT (224639)



Data Coverage: SAT RADIANCE (27062017 1800UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 3792421

NOAA15(80880)

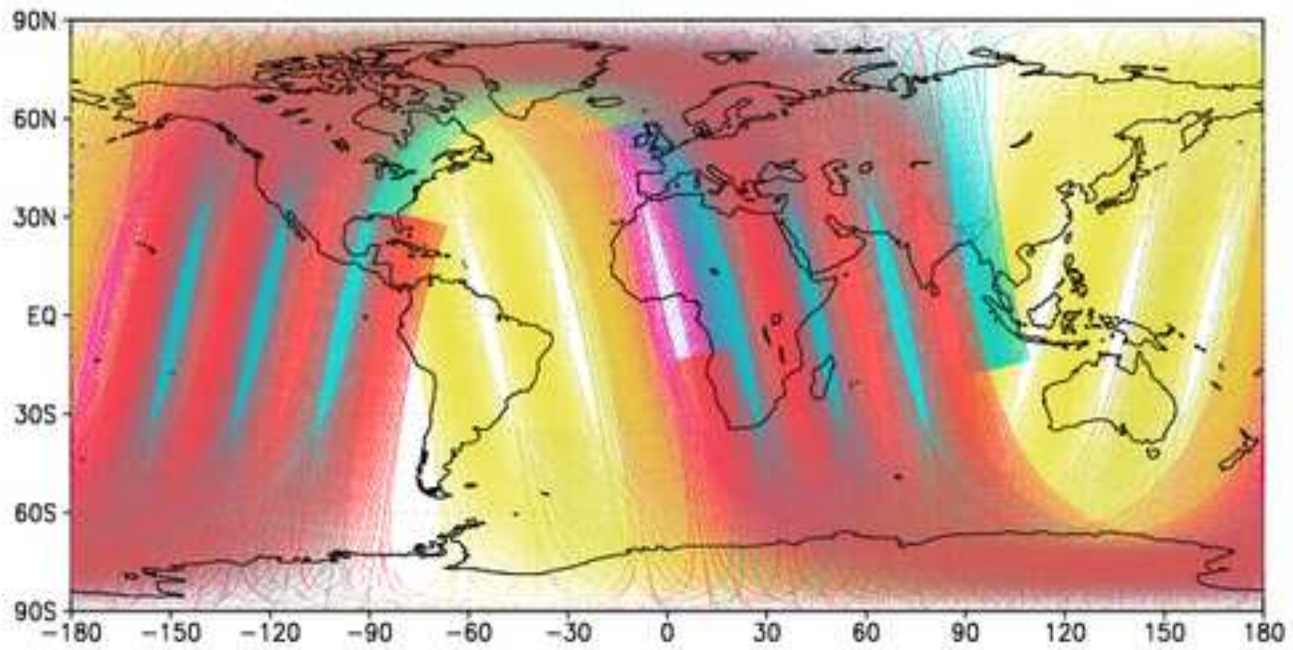
NOAA18(0)

NOAA18(839778)

NOAA18(8394282)

METOP1(984572)

METOP2(990929)



Data Coverage: SAT RADIANCE (EARS+IMD RARS) (27062017 1800UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 832956

NOAA15(0)

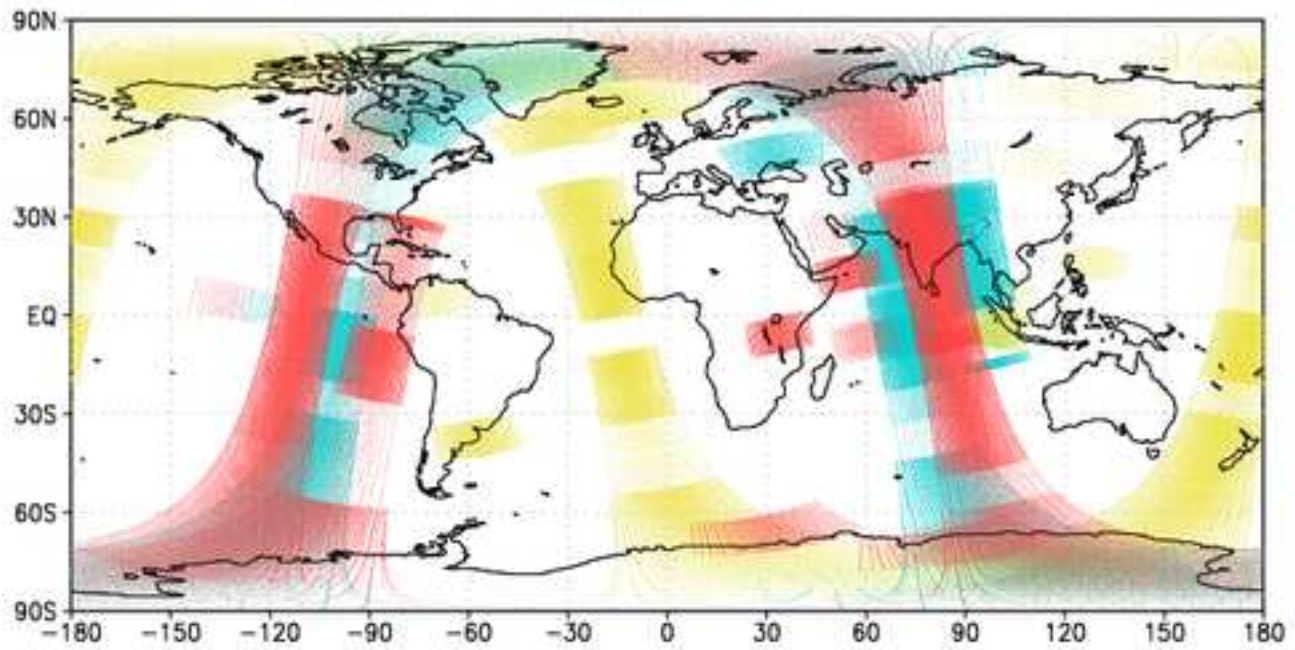
NOAA16(0)

NOAA18(0)

NOAA19(244770)

METOP1(325590)

METOP2(262596)

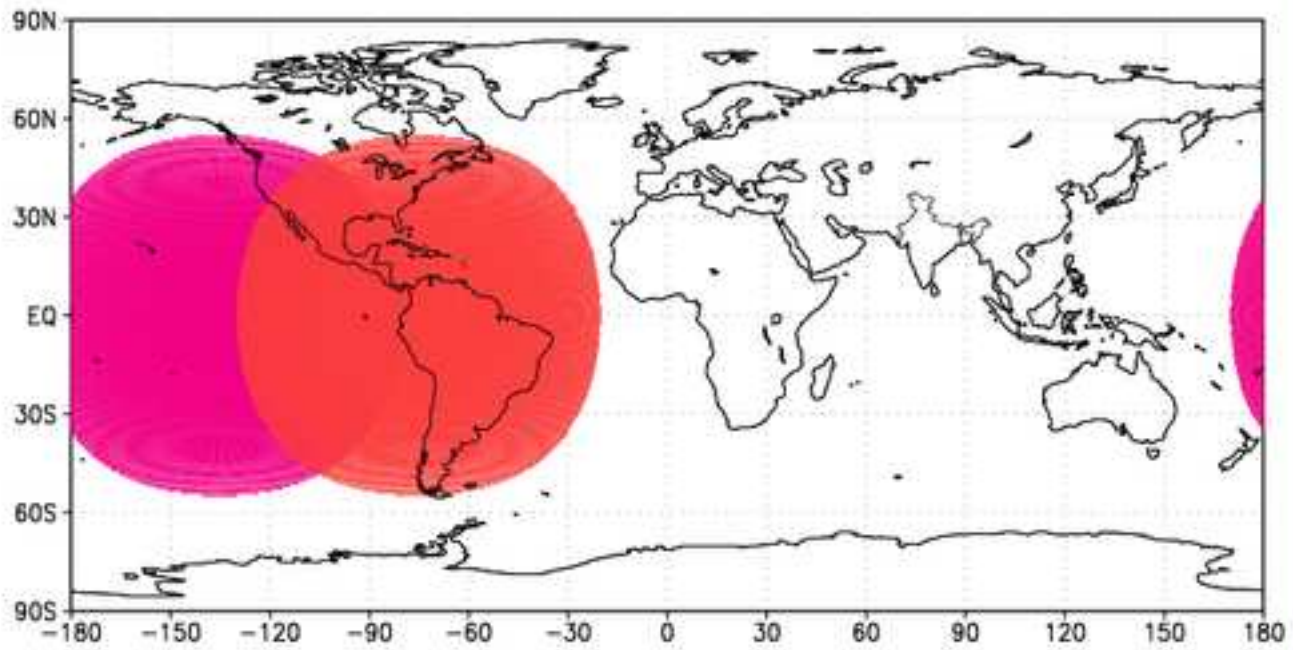


Data Coverage: GOES CSBT (27062017 1800UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 84777

GOES-15(42392)

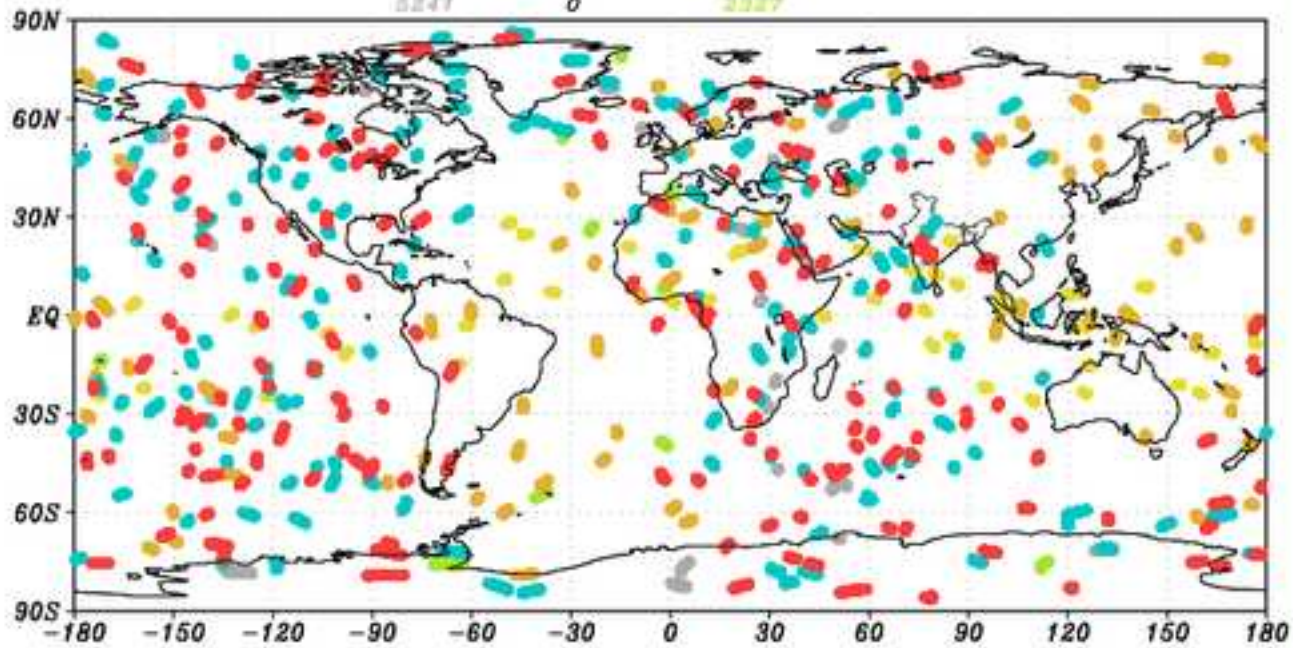
GOES-13(42385)



Data Coverage:GPSRO (27062017 1800UTC +/-03Hrs)

Total Number of Observations Received at NCMRWF: 118932

GRACE-A	METOP-B	METOP-A	COSMIC-1	COSMIC-2	COSMIC-3	COSMIC-4	COSMIC-5	COSMIC-6
0	40412	39470	0	0	8305	0	0	23177
TerraSAR-X	TenDEM-X	GRACE-B						
5241	0	3327						



Count for different types of observation (Global)
for the last 45 Days (valid for 18 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= %

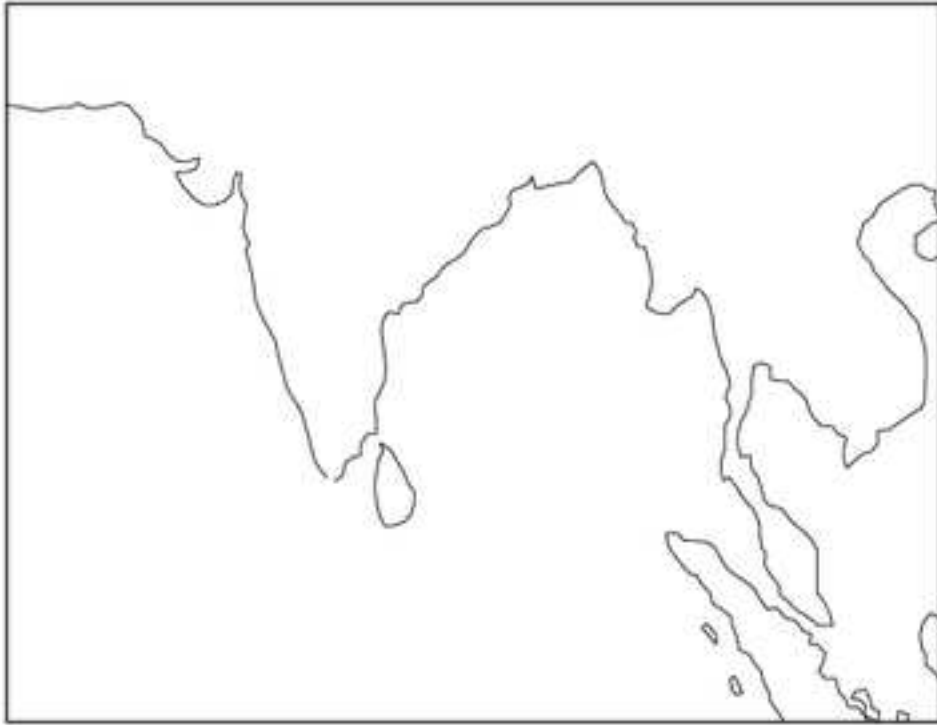
AMV

Avg=
Today_Cnt=
Dep= %

SCATTEROMETER WIND VECTORS

RECEIVED AT NCMRWF (20170627 18Z)

ASCAT WINDS (27062017 18 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) (27062017 1800UTC)

Low Level (Below 700 hPa)

Mid Level (700 - 401 hPa)

High Level (Above 400 hPa)

INSAT-3D ATMOSPHERIC MOTION VECTORS (IR,3.8) (27062017 1800UTC)

Low Level (Below 700 hPa)

Mid Level (700 - 401 hPa)

INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) (27062017 1800UTC)

WV, High Level (Above 400 hPa)

VIS, Low Level (Below 700 hPa)

INSAT-3D ATMOSPHERIC MOTION VECTORS (IR,10.8) DEVIATION (27062017 1800UTC)

Low Level (Below 700 hPa)

Mid Level (700 - 401 hPa)

High Level (Above 400 hPa)

INSAT-3D ATMOSPHERIC MOTION VECTORS (IR,3.8) DEVIATION (27062017 1800UTC)

Low Level (Below 700 hPa)

Mid Level (700 - 401 hPa)

INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) DEVIATION (27062017 1800UTC)

WV, High Level (Above 400 hPa)

VIS, Low level (Below 700 hPa)

INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) DEVIATION (27062017 1800UTC)

WV, High Level (Above 400 hPa)

VIS, Low level (Below 700 hPa)

INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) DEVIATION (27062017 1800UTC)

WV, High Level (Above 400 hPa)

VIS, Low level (Below 700 hPa)

INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) DEVIATION (27062017 1800UTC)

WV, High Level (Above 400 hPa)

VIS, Low level (Below 700 hPa)

INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) DEVIATION (27062017 1800UTC)

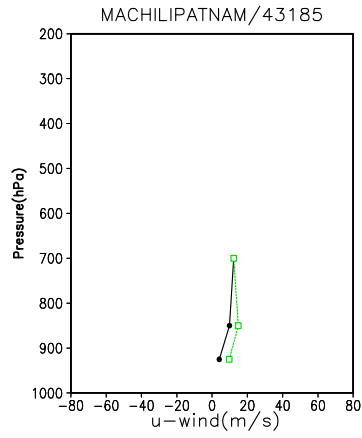
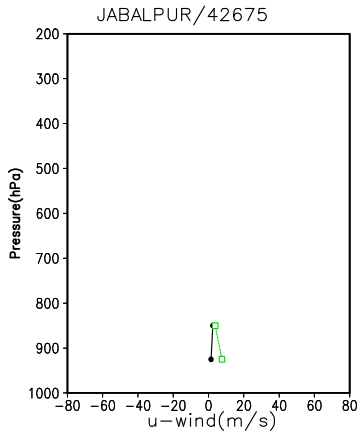
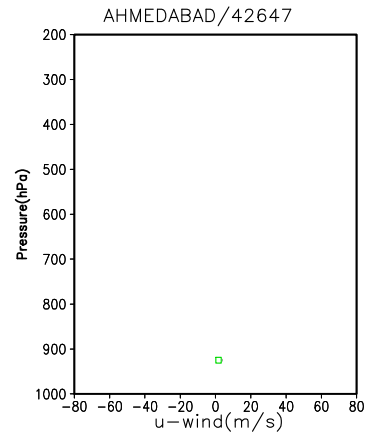
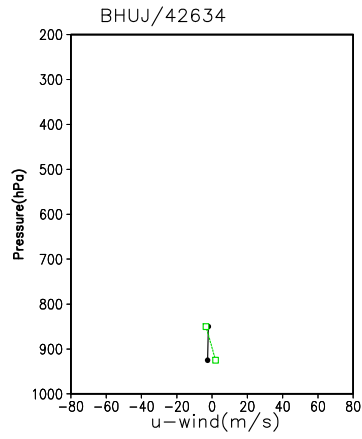
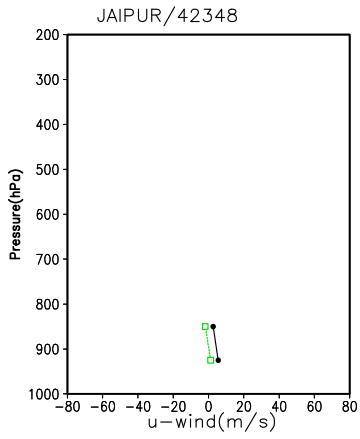
WV, High Level (Above 400 hPa)

VIS, Low level (Below 700 hPa)

Quality of Indian PIBAL Observations

Maximum height reported
by PIBAL ascents

Zonal Wind Rejections by NGFS GDAS



Observed (—) and 1st-guess (- -) Zonal wind (m/s) for 18UTC 27062017
 × -- denotes the rejection of observation by NGFS GDAS
 (plotted for standard pressure levels only)