Observation Monitoring

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

for 24092020 (0600 UTC)
Indian Observation Coverage
E_CYC

Data Coverage: Surface (24092020 0600UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 549
(42 & 43 Block)

Observation Frequency: ~ 3 hour
Data Coverage: Indian AWS (24092020 0600UTC +/- 3 Hrs) E_CYC
Total Number of Observations Received at NCMRWF: 1823

Observation Frequency: ~ 1 hour
Data Coverage: Indian ARG (24092029 0600UTC +/- 3 Hrs) E_CYC

Total Number of Observations Received at NCMRWF: 1709

Observation Frequency: ~ 1 hour
Data Coverage: BUOY (24092020 0600UTC +/- 3 Hrs)

Total Number of Observations Received at NCMRWF: 131

country code in GTS as: ○ INDIA(11) ○ USA(33) + FRANCE(87) □ OTHERS(0)

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

Data Coverage: Sondes (24092020 0600UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 9
(42 & 43 Block)

TMPLND(1) PILOT(8) Reported, no ascent

Observation frequency: ~ 6 hour
Count for different types of observation (Over Indian Region) for the last 45 days (valid for 06 UTC) E_CYC

SYNOP
Avg=551
Today_Cnt=549
Dep=-0. %

BUOY
Avg=121
Today_Cnt=131
Dep=8. %

AWS+ARG
Avg=3552
Today_Cnt=3532
Dep=-1. %

RS/RW
Avg=2
Today_Cnt=3
Dep=50. %

PILOT
Avg=26
Today_Cnt=29
Dep=12. %

INSAT–3D AMV
Avg=106921
Today_Cnt=134583
Dep=26. %
Global Observation Coverage
E_CYC

Data Coverage: Surface (24092020 0600UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 62217

LNDSYN(14473)  SHIP(2817)  BUOY(12505)  METAR(20267)  MOBILE/AWS(3532)
LNDSYN_BUFR(8168)  SHIP_BUFR(356)
E_CYC

Data Coverage: Sonde (24/09/2020 0600UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 4991

TNPLND(18)  TMPSHP(0)  TMPDRP(4)  TMPMOB(0) PILOT(35) PROFILER(4933)
TNPLND_BUF(10) PILOT_BUFR(48)
Count for different types of observation (Global) for the last 45 Days (valid for 06 UTC) E_CYC

**SYNOP**
- Avg=20211
- Today_Cnt=22639
- Dep=12.%

**SHIP**
- Avg=2583
- Today_Cnt=2973
- Dep=15.%

**BUOY**
- Avg=10357
- Today_Cnt=12806
- Dep=24.%

**AIRCRAFT**
- Avg=40246
- Today_Cnt=49673
- Dep=23.%

**RS/RW**
- Avg=45
- Today_Cnt=28
- Dep=-38.%

**PILOT**
- Avg=85
- Today_Cnt=82
- Dep=-4.%

**AMV**
- Avg=1628738
- Today_Cnt=2026063
- Dep=24.%
Data Coverage: SCATSAT-1 & ASCAT winds (24092020 06UTC +/- 03Hrs)

SCATSAT-1 (469776)  ASCAT-A (105740)  ASCAT-B (103758)
E_CYC

Data Coverage: SAT RADIANCE (MARS+IMD MARS) (24092020 0800UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 544033

NOAA-15(0)    NOAA-16(0)    NOAA-16(117438)    NOAA-16(526587)
METOP-1(0)     METOP-2(0)
Data Coverage: GPSRO (24092020 0600UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 373633
Atmospheric Motion Wind Vectors
Data Coverage: AMV IR (24092020 0600UTC +/- 03hrs)
Total Number of Observations Received at NCMRWF: 949197
Data Coverage: AMV VIS (24/02/2020 0600UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 339093
Data Coverage: AMV WV (24092020 0600UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 717640

GOES-15(0)  GOES-16(189723)  GOES-17(177618)  INSAT-3D(55168)
METEOSAT-5(112825)  METEOSAT-11(115518)  HIMAWARI-8(55733)
AMV IR POLAR NH (24092020 0600UTC +/- 03Hrs) E_CYC

Total Number of Observations Received at NCMRWF: 14079

- METOP-A (7835)
- METOP-B (3821)
- NPP (0)
- MODIS/Aqua (0)
- NOAA-15 (0)
- MODIS/Terra (913)
- NOAA-18 (380)
- NOAA-19 (450)
AMV IR POLAR SH (24062020 0600UTC +/- 03Hrs) E_CYC
Total Number of Observations Received at NCMRWF: 6459

METOP-A(1483) METOP-B(2324) NPP(0) MODIS/Aqua(827)
NOAA-15(180) MODIS/Terra(2) NOAA-18(317) NOAA-19(371)
AMV WV POLAR NH (24092020 0600UTC +/- 03Hrs) N_CYC

Total Number of Observations Received at NCMWF: 590

MODIS/Aqua(590) MODIS/Terra(0)

[Map of observations with a focus on the polar region]
AMV WV POLAR SH (24092020 0600UTC +/- 08Hrs) E_CYC

Total Number of Observations Received at NCMRWF: 0

MODIS/Aqua(0)   MODIS/Terra(0)
Radiance Observations
Data Coverage: Humidity Sounders (24092020 0000UTC +/- 03Hrs)
Total Number of Observations Received at NCMWF: 72135
E_CYC

Data Coverage: AMSUA (24092020 0500UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 77534
E_CYC

Data Coverage: HIRS (24092020 0600UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 473415
E_CYC

Geostationary Clear Sky Radiance (2400Z2020 0600UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 235298

METEOSAT-11(181374)  METEOSAT-8(73922)  GCOFS-15(G)
E_CYC

Data Coverage: IASI (24092020 0600UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 0
E_CYC

Data Coverage: AIRS (24092020 0600UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 624582
SCATTEROMETER WIND VECTORS

RECEIVED AT NCMRWF (20200924 06Z)
SCATTEROMETER SURFACE WINDS (24092020 0600UTC +/- 03Hrs)

ASCAT: Metop-A

ASCAT: Metop-B

SCATSAT-1 (Ind'an)
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) (24092020 0800UTC)

**Low Level (Below 700 hPa)**

**Mid Level (700 - 401 hPa)**

**High Level (Above 400 hPa)**
INSAT–3D ATMOSPHERIC MOTION VECTORS (IR,3.8) (24092020 0600UTC)

Low Level (Below 700 hPa)

Mid Level (700 – 401 hPa)
INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) (24092020 0600UTC)

WV, High Level (Above 400 hPa)

VIS, Low Level (Below 700 hPa)
INSAT-3D ATMOSPHERIC MOTION VECTORS (IR, 10.8) DEVIATION (24092020 0600UTC)

Low Level (Below 700 hPa)  Mid Level (700 – 401 hPa)

High Level (Above 400 hPa)
INSAT-3D ATMOSPHERIC MOTION VECTORS (IR,3.B) DEVIATION (24092020 0600JTC)

Low Level (Below 700 hPa)    Mid Level (700 – 401 hPa)
INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) DEVIATION (24092020 0600UTC)

WV, High Level (Above 400 hPa)  VIS, Low level (Below 700 hPa)
METEOSAT-8 ATMOSPHERIC MOTION VECTORS (IR) (24092020 0600UTC)

Low level (Below 700 hPa)

Mid Level (700 – 401 hPa)

High Level (Above 400 hPa)
METEOSAT-8 ATMOSPHERIC MOTION VECTORS (WV & VIS) (24092020 0600UTC)

WV, High Level (Above 400 hPa)

VIS, Low Level (Below 700 hPa)
METEOSAT-8 ATMOSPHERIC MOTION VECTORS (WV & VIS) DEVIATION (24092020 0800 UTC)

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: 20200924 at: 06 UTC