Observation Monitoring

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

for 30082020 (1800 UTC)
Indian Observation Coverage
Data Coverage: Surface (300820 UTC 1800UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 262
(42 & 43 Block)

Observation Frequency: ~ 3 hour
Data Coverage: Indian AWS (30082020 1800UTC +/- 3 Hrs) E_CYC
Total Number of Observations Received at NCMRWF: 548

Observation Frequency: ~ 1 hour
Data Coverage: Indian ARG (30082020 1800UTC +/- 3 Hrs) E_CYC

Total Number of Observations Received at NCMRWF: 653

Observation Frequency: ~ 1 hour
Data Coverage: BUOY (30082020 1800UTC +/- 3 Hrs)

Total Number of Observations Received at NCMRWF: 116

country code in GTS as:
- INDIA(8)  ○ USA(33)  + FRANCE(75)  □ OTHERS(0)

Observation Frequency: ~ 1 hour & ~ 3 hour (India)
Data Coverage: Sondes (300B2020 1800UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 5
(42 & 43 Block)

TMPLND(0) PILOT(5) Reported, no ascent

Observation frequency: ~ 6 hour
Count for different types of observation (Over Indian Region) for the last 45 days (valid for 18 UTC) E_CYC

SYNOP
Avg=286
Today_Cnt=262
Dep=-8. %

BUOY
Avg=203
Today_Cnt=116
Dep=-43. %

AWS+ARG
Avg=2776
Today_Cnt=1201
Dep=-57. %

RS/RW
Avg=3
Today_Cnt=5
Dep=67. %

PILOT
Avg=35
Today_Cnt=35
Dep=0. %

INSAT-3D AMV
Avg=107263
Today_Cnt=3937
Dep=-96. %
Global Observation Coverage
E_CYC

Data Coverage: Surface (30082020 1800UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 48739

LNDSYN(12294)  SHIP(1966)  BUOY(10235)  METAR(15863)  MOBILE/AWS(1201)
LNDSYN_BUF(7129)  SHIP_BUF(249)
E_CYC

Data Coverage: Sonde (30082020 1800UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 4373
TNPLND(25)  TMPSSH(1)  TMPDRP(0)  TMPMOB(0)  PILOT(43)  PROFILER(4304)
TNPLND_BUF(9)  PILOT_BUFR(20)
E_CYC

Data Coverage: AIRCFT (30082020 1800UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 82472
Count for different types of observation (Global) for the last 45 Days (valid for 18 UTC) E_CYC

**SYNOP**
- Avg = 19501
- Today_Cnt = 19422
- Dep = -0. %

**SHIP**
- Avg = 2625
- Today_Cnt = 2215
- Dep = -16. %

**BUOY**
- Avg = 12851
- Today_Cnt = 10238
- Dep = -20. %

**AIRCRAFT**
- Avg = 88538
- Today_Cnt = 82472
- Dep = -7. %

**RS/RW**
- Avg = 54
- Today_Cnt = 34
- Dep = -37. %

**PILOT**
- Avg = 63
- Today_Cnt = 63
- Dep = 0. %

**AMV**
- Avg = 3770428
- Today_Cnt = 3027478
- Dep = -20. %
Data Coverage: SCATSAT-1 & ASCAT winds (30082020 18UTC +/- 03Hrs)

SCATSAT-1 (115255)  ASCAT-A (63223)  ASCAT-B (70161)
E_CYC

Data Coverage: SAT RADIANCE (MARS+IMD MARS) (30062020 1800UTC +/- 03Hrs)

Total Number of Observations Received at NCMWF: 523826

NOAA15(0)  NOAA18(0)  NOAA18(78336)  NOAA18(445488)

METOP 1(0)  METOP 2(0)
Data Coverage: GPSRO (00082020 1800UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 230161
Atmospheric Motion Wind Vectors
F_CYC

Data Coverage: AMV IR (30082020 1800UTC +/- 03hrs)
Total Number of Observations Received at NCMRWF: 551952

- GOES-15(0)
- GOES-18(160848)
- GOES-17(233215)
- INSAT-3D(801)
- METEOSAT-8(25451)
- METEOSAT-11(45475)
- HIRAMARI-8(58949)
Data Coverage: AMV VIS (30082020 1800UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 2073292
Data Coverage: AMV WV (30062020 1500UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 352651
AMV IR POLAR NH (30062020 1800UTC +/- 03Hrs) E_CYC

Total Number of Observations Received at NCMWF: 3392

METOP-A (385)  METOP-B (1872)  NPP (0)  MODIS/Aqua (0)
NOAA-15 (0)  MODIS/Terra (432)  NOAA-18 (586)  NOAA-19 (317)
AMV IR POLAR SH (300E3020 1800UTC +/- 03Hrs) E_CYC

Total Number of Observations Received at NCMRWF: 6187

METOP-A(18h) METOP-B(330h) NPP(0) MODIS/Aqua(0)
NOAA-15(0) MODIS/Terra(418) NOAA-18(391) NOAA-18(273)
AMV WV POLAR NH (20092020 1800UTC +/- 03Hrs) E_CYC

Total Number of Observations Received at NCMRWF:

MODIS/Aqua()        MODIS/Terra()
AMV WV POLAR SH (30082020 1600UTC +/- 08hrs) E_CYC

Total Number of Observations Received at NCMRWF:

MODIS/Aqua()    MODIS/Terra()
Radiance Observations
Data Coverage: Humidity Sounders (30062020 1800UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 473336
E_CYC

Data Coverage: AMSUA (30082020 1800UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 11130
E_CYC

Data Coverage: HIRS (300B2020 1800UTC +/- 03Hrs)

Total Number of Observations Received at NCMWF: 254577
E_CYC

Geostationary Clear Sky Radiance (0000Z 2020 1800UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 133479

METEOSAT-11(104477)  METEOSAT-8(24477)  GEMS-15(G)
E_CYC

Data Coverage: IASI (30082020 1800UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 32364
E_CYC

Data Coverage: AIRS (30082020 1800UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 0
SCATTEROMETER WIND VECTORS

RECEIVED AT NCMRWF (20200830 18Z)
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) (30082020 1800UTC)

Low Level (Below 700 hPa)

Mid Level (700 – 401 hPa)

High Level (Above 400 hPa)
INSAT-3D ATMOSPHERIC MOTION VECTORS (IR,3.8) (30062020 1800UTC)

Low Level (Below 700 hPa)

Mid Level (700 - 401 hPa)
INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) (30082020 1800UTC)

WV, High Level (Above 400 hPa)  VIS, Low Level (Below 700 hPa)
INSAT-3D ATMOSPHERIC MOTION VECTORS (IR,10.8) DEVIATION (30082020 1800UTC)

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

High Level (Above 400 hPa)
INSAT-3D ATMOSPHERIC MOTION VECTORS (IR,3.B) DEVIATION (30082020 1800JTC)

Low Level (Below 700 hPa)  Mid Level (700 - 401 hPa)
INSAT-3D ATMOSPHERIC MOTION VECTORS (WV & VIS) DEVIATION (30082020 1800UTC)

WV, High Level (Above 400 hPa)  VIS, Low level (Below 700 hPa)
Low level (Below 700 hPa)

Mid Level (700 – 401 hPa)

High Level (Above 400 hPa)
METEOSAT-8 ATMOSPHERIC MOTION VECTORS (WV & VIS) (30082020 1800UTC)

WV, High Level (Above 400 hPa)

VIS, Low Level (Below 700 hPa)
METEOSAT-8 ATMOSPHERIC MOTION VECTORS (IR) DEVIATION (300B2020 1800UTC)

Low Level (Below 700 hPa)

Mid Level (700 - 401 hPa)

High Level (Above 400 hPa)
METEOSAT-8 ATMOSPHERIC MOTION VECTORS (WV & VIS) DEVIATION (30082020 1800 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: 20200830 at: 18 UTC