Observation Monitoring

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

for 29082020 (1800 UTC)
Indian Observation Coverage
E_CYC

Data Coverage: Surface (29082020 1800UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 286
(42 & 43 Block)

Observation Frequency: ~ 3 hour
Data Coverage: Indian AWS (29082020 1800UTC +/- 3 Hrs) E_CYC
Total Number of Observations Received at NCMRWF: 1190

Observation Frequency: ~ 1 hour
Data Coverage: Indian ARG (22082020 1800UTC +/- 3 Hrs) E_CYC
Total Number of Observations Received at NCMRWF: 1465

Observation Frequency: ~ 1 hour
Data Coverage: BUOY (29082020 1800UTC +/- 3 Hrs)

Total Number of Observations Received at NCMRWF: 113

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

Data Coverage: Sondes (29082020 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=288
Dep=1. %

BUOY
Avg=203
Today_Cnt=113
Dep=-44. %

AWS+ARG
Avg=2775
Today_Cnt=2656
Dep=-4. %

RS/RW
Avg=3
Today_Cnt=3
Dep=0. %

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

INSAT-3D AMV
Avg=112105
Today_Cnt=20547
Dep=-82. %
Global Observation Coverage
E_CYC

Data Coverage: Surface (29082020 1800UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 50400

LANDSYN(12479)  SHIP(2079)  BUOY(10323)  METAR(15755)  MOBILE/AWS(2656)
LANDSYN_BUFR(8807)  SHIP_BUFR(301)
E_CYC

Data Coverage: Sonde (29082020 1800UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 4183

TNPLND(24)  TMPSRP(1)  TMPDRP(0)  TMPMORB(0)  PILOT(41)  PROFiler(4117)
TNPLNd_BUF(7)  PILOT_BUFr(20)
E_CYC

Data Coverage: AIRCFT (29082020 1800UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 83447
Count for different types of observation (Global) for the last 45 Days (valid for 18 UTC) E_CYC

**SYNOP**
Avg=19507
Today_Cnt=19286
Dep=-1. %

**SHIP**
Avg=2614
Today_Cnt=2380
Dep=-9. %

**BUOY**
Avg=12851
Today_Cnt=10323
Dep=-20. %

**AIRCRAFT**
Avg=88201
Today_Cnt=83447
Dep=-5. %

**RS/RW**
Avg=54
Today_Cnt=31
Dep=-43. %

**PILOT**
Avg=63
Today_Cnt=61
Dep=-3. %

**AMV**
Avg=3776438
Today_Cnt=3666888
Dep=-3. %
Data Coverage: SCATSAT-1 & ASCAT winds (29082020 18UTC +/- 03Hrs)

SCATSAT-1 (86370)  ASCAT-A (67386)  ASCAT-B (83047)
E_CYC

Data Coverage: SAT RADIANCE (MARS+IMD MARS) (29062020 1800UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 490223

NOAA15(0)  NOAA18(0)  NOAA18(8080C)  NOAA18(408425)

METOP 1(0)  METOP 2(0)
E_CYC

Data Coverage: GPSRO (290820 1800UTC +/-03Hrs)
Total Number of Observations Received at NCMRWF: 194054
Atmospheric Motion Wind Vectors
Data Coverage: AMV IR (29062020 1800UTC +/- 03hrs)
Total Number of Observations Received at NCMRWF: 857335
E_CYC

Data Coverage: AMV VIS (29082020 1800UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 2560201

GOES-15(0)   GOES-16(1447382)   GOES-17(1001652)   INSAT-3D(0)
METEOSAT-5(21737)   METEOSAT-11(88525)   HIMAWARI-8(3905)
Data Coverage: AMV WV (29062020 1800UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 437634

GOES-15(0)  GOES-16(140187)  GOES-17(76357)  INSAT-3D(14074)
METEOSAT-8(77382)  METEOSAT-11(81211)  HIMAWARI-8(45573)
AMV IR POLAR NH (29062020 1600UTC +/- 03Hrs) E_CYC

Total Number of Observations Received at NCMRWF: 6219

- METOP-A (2408)
- METOP-B (2570)
- NPP (0)
- MODIS/Aqua (0)
- NOAA-15 (228)
- MODIS/Terra (101)
- NOAA-18 (379)
- NOAA-19 (324)
AMV IR POLAR SH (29062020 1800UTC +/- 03Hrs) E_CYC

Total Number of Observations Received at NCMRWF: 6495

METOP-A(1827) METOP-B(2376) NPP(0) MODIS/Aqua(0)
NOAA-15(0) MODIS/Terra(1018) NOAA-18(227) NOAA-19(248)
AMV WV POLAR NH (29092020 1800UTC +/- 03Hrs) E_CYC

Total Number of Observations Received at NCMRWF:

MODIS/Aqua() MODIS/Terra()
AMV WV POLAR SH (29082020 1800UTC +/- 03Hrs) E_CYC

Total Number of Observations Received at NCMRWF:

MODIS/Aqua() MODIS/Terra()
SCATTEROMETER WIND VECTORS

RECEIVED AT NCMRWF (20200829 18Z)
INSAT-3D

ATMOSPHERIC MOTION VECTORS (AMV)

{ CLOUD MOTION VECTORS (IR)
  WATER VAPOUR WINDS (WVW) }

SELECTION CRITERIA

Quality flag > 80%, Wind Speed > 2.5 m/s
Wind Speed Difference < 30 m/s
Wind Direction Difference < 60 degree

OBSERVATION ERROR
(OBSERVATION - FIRST GUESS)
Indian Doppler Weather Radar

Data Monitoring
Volume of DWR observations received at NCMRWF

Date: 20200829 at: 18 UTC