Observation Monitoring

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

for 15062020 (1200 UTC)
Indian Observation Coverage
E_CYC

Data Coverage: Surface (15082020 1200UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 501
(42 & 43 Block)

Observation Frequency: ~ 3 hour
Data Coverage: Indian AWS (15062020 1200UTC +/- 3 Hrs) E_CYC
Total Number of Observations Received at NCMRWF: 1215

Observation Frequency: ~ 1 hour
Data Coverage: Indian ARG (15062029 1200UTC +/- 3 Hrs) E_CYC
Total Number of Observations Received at NCMRWF: 1602

Observation Frequency: ~ 1 hour
Data Coverage: BUOY (15062020 1200UTC +/- 3 Hrs)

Total Number of Observations Received at NCMRWF: 181

country code in GTS as: ● INDIA(21) ○ USA(124) + FRANCE(35) □ OTHERS(0)

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

Data Coverage: Sondes (15082020 1200UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 22
(42 & 43 Block)

TMPLND(8) PILOT(16) Reported, no ascent

Observation frequency: ~ 6 hour
Count for different types of observation (Over Indian Region) for the last 45 days (valid for 12 UTC) E_CYC

**SYNOP**
Avg=520  
Today_Cnt=501  
Dep=-4. %

**BUOY**
Avg=223  
Today_Cnt=181  
Dep=-19. %

**AWS+ARG**
Avg=2987  
Today_Cnt=2817  
Dep=-6. %

**RS/RW**
Avg=8  
Today_Cnt=8  
Dep=0. %

**PILOT**
Avg=49  
Today_Cnt=52  
Dep=6. %

**INSAT-3D AMV**
Avg=103369  
Today_Cnt=80933  
Dep=-22. %
Global Observation Coverage
E_CYC

Data Coverage: Surface (15062020 1200UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 54749

BUFR(7146)  LNSYN(13421)SHIP(2164)  BUOY(12255)  METAR(15410)MOBILE/AWS(3353)
E_CYC

Data Coverage: Sonde (15062020 1200UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 5132
E_CYC

Data Coverage: AIRCFT (15062020 1200UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 32871
Count for different types of observation (Global) for the last 45 Days (valid for 12 UTC) E_CYC

SYNOP
Avg=21347
Today_CNT=20567
Dep=-4. %

SHIP
Avg=2525
Today_CNT=2164
Dep=-14. %

BUOY
Avg=12072
Today_CNT=12255
Dep=2. %

AIRCRAFT
Avg=40940
Today_CNT=32871
Dep=-20. %

RS/RW
Avg=432
Today_CNT=437
Dep=1. %

PILOT
Avg=208
Today_CNT=209
Dep=0. %

AMV
Avg=2659140
Today_CNT=2529126
Dep=-5. %
Data Coverage: SCATSAT-1 & ASCAT winds (15062020 12UTC +/- 03Hrs)

SCATSAT-1 (134902)  ASCAT-A (67234)  ASCAT-B (72087)
Data Coverage: SAT RADIANCE (MARS+IMD MARS) (15062020 1200UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 536776
E_CYC

Data Coverage: GPSRO (15062020 1200UTC +/- 03Hrs)

Total Number of Observations Received at NCMRWF: 76492

METOP-A(22487)  METOP-B(22775)  METOP-C(20255)  COSMIC-1(2)  COSMIC-2(2)
FerraSAR-X(0)  TenDEM-X(1103)  FY-3D(9883)  FY-3C(0)
Atmospheric Motion Wind Vectors
E_CYC

Data Coverage: AMV IR (15082020 1200UTC +/- 03hrs)
Total Number of Observations Received at NCMRWF: 1149437

GOES-15(0)       GOES-18(372867)       GOES-17(580086)       INSAT-3D(46444)
METEOSAT-5(42156) METEOSAT-11(44907)   HIMAWARI-8(60047)
Data Coverage: AMV VIS (15082020 1200UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 599313
Data Coverage: AMV WV (15062020 1200UTC +/- 03Hrs)
Total Number of Observations Received at NCMRWF: 762928
AMV IR POLAR NH (15062020 1200UTC +/- 03Hrs) E_CYC

Total Number of Observations Received at NCMWF: 12881

- METOP-A (3453)
- METOP-B (2953)
- NPP (0)
- MODIS/Aqua (0)
- NOAA-15 (0)
- MODIS/Terra (0)
- NOAA-18 (0)
- NOAA-19 (0)
Total Number of Observations Received at NCMRWF: 4563
AMV WV POLAR NH (15092020 1200UTC +/- 03Hrs) N_CYC

Total Number of Observations Received at NCMRWF:

MODIS/Aqua()  MODIS/Terra()
AMV WV POLAR SH (15042020 1200UTC +/- 08hrs) E_CYC

Total Number of Observations Received at NCMRWF:

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

RECEIVED AT NCMRWF (20200615 12Z)
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: 20200615 at: 12 UTC
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 (15062020 1200UTC +/- 03Hrs E_CYC)
Observed (---) and 1st-guess (---) Temperature (Deg C) for 12UTC 15062020

× -- denotes the rejection of observation by NGFS GDAS

( plotted for standard pressure levels only)
Observed (---) and 1st-guess (-----) Zonal wind (m/s) for 12UTC 15062020

X --- denotes the rejection of observation by NGFS GDAS

( plotted for standard pressure levels only )