

1. CURRENT SYNOPTIC SITUATION at 0300UTC of the Day:

• The western Disturbance as a trough in mid tropospheric westerlies with its axis at 5.8 Km above mean sea level now runs roughly along Long 65°E to the north of Lat 25°N.

♦ The remnant Western Disturbance as a trough in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long 91°E to the north of Lat 28°N has moved away eastwards.

• The cyclonic circulation over west Assam and neighbourhood extending upto 0.9 km above mean sea level persists.

• A trough of low at mean sea level lies over Equatorial Indian Ocean and adjoining southeast Bay of Bengal and Nicobar Islands.

• The cyclonic circulation over Comorin area and neighbourhood now lies over Lakshadweep area & neighbourhood and extends upto 0.9 km above mean sea level.

• The trough now runs from the above cyclonic circulation over Lakshadweep & neighbourhood to Telangana across interior Karnataka and extends upto 0.9 km above mean sea level.

SATELLITE OBSERVATIONS during past 24hrs and current observation:

Current Observation (based on 0300UTC imagery of INSAT 3D):

Westerly Trough:

Trough in westerlies runs roughly along long 60.0°E & north of la 25.0°N

Clouds descriptions within India:

Scattered low medium clouds seen over Jammu & Kashmir, North Himachal Pradesh, North Uttarakhand, Southeast Gujarat, Southwest Madhya Pradesh, Maharashtra, Sikkim, Arunachal Pradesh and extreme Northeast Assam. Isolated to scattered low/medium clouds over North Telengana, Coastal Andhra Pradesh, Coastal Karnataka, Kerala, Tamilnadu and Bay Islands.

Arabian Sea: No significant clouds are seen over the region.

Bay of Bengal: Scattered low/medium clouds with embedded isolated weak convection seen over South Bay, South of Lat 10.0^oN and South Andaman Sea.

Past Weather:

Convection (during last 24 hrs):-

Weak to Moderate convection was observed over Arunachal Pradesh North-East Assam and Nagaland.

OLR :-

Upto 230 wm⁻² was observed over J&K Himachal Pradesh North Uttarakhand Sikkim Arunachal Pradesh.

Westerly Trough & Jet-Stream:-

Trough in westerlies runs roughly along longitude 60.0°E & north of latitude 25.0°N.

Dynamic Features:-

Negative shear tendency is observed over North-West India and Positive shear tendency over rest parts of India.

Medium to high wind shear is observed over North & Central India.

A positive Vorticity field is observed over Uttarakhand North Uttar Pradesh Bihar.

Negative low level convergence is observed over Punjab Haryana Rajasthan North-East States and Positive Low Level Convergence over rest parts of India.

Precipitation:

IMR: Rainfall upto 20 mm was observed over East Arunachal Pradesh and Rainfall upto 10 mm was observed over J&K North Himachal Pradesh . HEM: Rainfall upto 70 mm was observed over East Arunachal Pradesh

Rainfall upto 70 mm was observed over East Arunachal Pradesh. Rainfall upto 14 mm was observed over Nagaland.

RADAR and RAPID Observation:

No significant convection is seen on any DWR domain at around 1215 IST and RAPID RGB Satellite imagery at 1130IST

Environmental condition (dust etc) and its forecast based on 00UTC of date: Not Received

2. NWP MODEL GUIDANCE:

NCMRWF (NCUM Forecasts based on 00 UTC of the day):-Not Received IMD GFS (T1534) based on 00UTC the day:-Not Received

IMD WRF (based on 00UTC of the day): Not Received

3. IOP ADVISORY FOR 24 and 48Hrs:

Summary and Conclusions:

Day-1 & Day-2:

In association with the trough that runs from the cyclonic circulation over Lakshadweep & neighbourhood to Telangana across interior Karnataka and the position of the anticyclones- one over the North Bay of Bengal, and the other over north central India, a north-south oriented region of wind discontinuity is developing over Madhya Maharashtra and adjoining Marathawada. Associated weather in the form of thunderstorms, sometimes accompanied by hail, is expected over west central India on day 1. On day 2, the wind discontinuity is shifting eastwards and associated thunderstorms accompanied by hail, are expected over central India. Also, this zone of thunderstorms is likely to be extended northwestwards into east Rajasthan on day 2, in association with the eastward movement of the western disturbance to over the Indian region.

24 hour Advisory for IOP:	48 hour Advisory for IOP:
Rainfall: Nil	Rainfall: Nil
Thunderstorm with associated phenomena: North Madhya Maharashtra, Marathawada, South-west Madhya Pradesh, West Vidarbha	Thunderstorm with associated phenomena: Vidarbha, Madhya Pradesh, East Rajasthan













Realised past 24hrs TS/SQ/HS Data:

Realised TS/HS/SQ during past 24 hours ending at 0300UTC of today(received from RMCs/MCs)									
Name of Station Reporting	Region	STATE	Weather Event (TS/Hail/Squall)	Date	Time of Commence ment (IST)	Time of end (IST)			
Passighat	Northeast India	Arunachal Pradesh	Thunderstorm	06-03-18	06/0840 06/1055 06/1605 06/1730	06/0940 06/1310 06/1620 06/1900			
Itanagar	Northeast India	Arunachal Pradesh	Thunderstorm	06-05-18	06/0940 06/1200	06/0950 06/1210			
N/Lakhimpur	Northeast India	Assam	Thunderstorm	06-03-18	06/0940 06/1220	06/1040 06/1240			

Past 24 hours DWR Report:

DWR Station Name	Date of Report	Time Interval of Observati on (UTC)	Organisation of cells (Isolated single cells/multiple cells/convective regions /squall lines) with height of 20 dBZ echo top and maximum reflectivity	Formation w.r.t. radar station and Direction of movement	Remarks	Associated Severe Weather if any	Districts affected
Kolkata	07-03-2018	060301- 070300	NIL	NIL	NO ECHO	NIL	NIL
Agartala	07-03-2018	060300- 070300	NIL	NIL	NIL	NIL	NIL
Patiala	07-03-2018	060300- 070252	NO ECHO				
Visakhapatnam	07-03-2018	060600- 070300	Nil	Nil	Nil	Nil	Nil
Lucknow	07-03-2018	060600- 070300	Nil	Nil	Nil	Nil	Nil
Jaipur	07-03-2018	060600- 070300	Nil	Nil	Nil	Nil	Nil

IMPORTANT LINKS:

For NCMRWF NWP products:(http://www.ncmrwf.gov.in/HomePage/NEPS-prod-1.php) For IMD NWP products:(http://nwp.imd.gov.in/diagpro new.php) For Synoptic plotted data and charts http://amssdelhi.gov.in/ http://www.amsskolkata.gov.in/ For RAPID tool: http://rapid.imd.gov.in/ Low Level Winds http://satellite.imd.gov.in/archive/INSAT-3D-IMAGER/3D-PRODUCTS/AMV/LLW/MAR 2017/?C=M;O=D Upper level winds http://satellite.imd.gov.in/archive/INSAT-3D-IMAGER/3D-PRODUCTS/AMV/HLW/MAR 2017/?C=M;O=D Past24hourHEMandIMRrainfall(upto03UTCoftoday) IMR: http://satellite.imd.gov.in/img/3Ddaily imr.jpg HEM: http://satellite.imd.gov.in/img/3Ddaily he.jpg ForRadarimagesofthepast24hoursincludingmosaicofimages: http://ddgmui.imd.gov.in/dwr img/ Satellite sounder based T- Phigram http://satellite.imd.gov.in/map skm2.html

WEATHER SYMBOLS:



