

India Meteorological Department FDP STORM Bulletin No.70 (14-05-2017)

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

In view of the strengthening and deepening of south-westerly winds, persistent cloudiness & rainfall, southwest monsoon has advanced into some parts of southeast Bay of Bengal, Nicobar Islands, entire south Andaman sea and some parts of north Andaman Sea today, the 14th May 2017.

Conditions are favourable for further advance of southwest monsoon into some parts of southwest Bay of Bengal, some more parts of southeast Bay of Bengal, remaining parts of Andaman sea and Andaman & Nicobar Islands and some parts of east central Bay of Bengal during next 72 hours.

The Western Disturbance as an upper air cyclonic circulation over north Pakistan & adjoining Jammu & Kashmir now lies over Jammu & Kashmir and adjoining north Pakistan at 3.1 Km above mean sea level.

Another Western Disturbance as a trough in mid-tropospheric westerlies roughly along longitude 54.0°E and north of latitude 30.0°N persists.

A trough runs from northwest Madhya Pradesh to north Madhya Maharashtra and extends upto 0.9 km above mean sea level.

The upper air cyclonic circulation over Bihar & adjoining Jharkhand extending upto 0.9 km above mean sea level has become less marked. The upper air cyclonic circulation over central parts of south Uttar Pradesh and adjoining north Madhya Pradesh now lies over East Uttar Pradesh and neighbourhood and extends upto 0.9 km above mean sea level. A trough runs from this system to Mizoram across Bihar, Sub Himalayan West Bengal & Assam and extends upto 0.9 km above means sea level. The upper air cyclonic circulation over northern parts of Bangladesh & neighbourhood embedded with the above trough.

The upper air cyclonic circulation over South Andaman Sea and adjoining Malay peninsula now lies over south Andaman sea & neighbourhood and extends upto 3.6 km above mean sea level.

The upper air cyclonic circulation over North Interior Karnataka & neighbourhood persists and now seen at 1.5 km above mean sea level.

The trough from the above system to Comorin area across South Interior Karnataka and Interior Tamilnadu now runs from Marathawada to south Tamilnadu across interior Karnataka and extends upto 0.9 km above mean sea level.

The upper air cyclonic circulation over Lakshadweep area and neighbourhood extending upto 1.5 km above mean sea level has become less marked.

SATELLITE OBSERVATIONS during past 24hrs and current observation: Current Observation (based on 0300UTC imagery of INSAT 3D):

Convective Activity and cloud description:

| Cell | Date/Time | Area/Location | CTT | Movement | Remarks |
|-------|-----------|---|-----------|----------|------------|
| No | | | | | |
| | (UTC) | | (- Deg C) | | |
| 10 | 13/1900 | NE Bihar, Sub-Himalayan West Bengal adjoining Nepal | 76 | | Developing |
| (old) | 2000 | DO | 75 | | |
| | 2100 | DO | 71 | | |
| | 2200 | DO | 67 | | |
| | 2300 | Sub-Himalayan West Bengal adjoining Bihar extreme N Bangladesh adjoining Meghalaya | 65 | E-WARDS | |
| | 14/0000 | Sub-Himalayan West Bengal, extreme N Bangladesh, W Meghalaya adjoining Assam | 78 | | |
| | 0100 | DO | 71 | | |
| | 0200 | DO | 69 | | |
| | 0300 | DO | 68 | | |

Scattered low/medium clouds with embedded moderate to intense convection were seen over W Meghalaya, extreme W & SE Assam adjoining Manipur, Tripura and Bay Islands. Scattered low/medium clouds with embedded isolated weak to moderate convection were seen over Arunachal Pradesh, rest Assam, Nagaland and rest Manipur. Scattered low/medium clouds with embedded weak convection were seen over Maharashtra adjoining Gujarat. Scattered low/medium clouds were seen over J & K, Himachal Pradesh, North Uttarakhand, S Madhya Pradesh and rest parts of East & South India. Isolated low/medium clouds over SE Rajasthan and rest Gujarat.

Arabian Sea:

Scattered low/medium clouds with embedded moderate to intense convection were seen over south Arabian Sea.

Bay of Bengal & Andaman Sea:

Scattered low/medium clouds with embedded moderate to intense convection were seen over Central & south Bay of Bengal and Andaman Sea, Gulf of Martaban and Tenasserim coast.

Past Weather:

Convection:-

Moderate to Intense convection was observed over NW J&k, Himachal Pradesh, Uttarakhand, Uttar Pradesh, South Chhattisgarh, Bihar, Jharkhand, Odisha, West Bengal, Meghalaya, Assam, Tripura, Maharashtra, Karnataka, Kerala Tamilnadu.

OLR:-

Upto 230 wm⁻² was observed over North West J&K, Himachal Pradesh, North Uttarakhand, North East Odisha, South Madhya Maharashtra, South Interior Karnataka.

Upto 250 wm⁻² was observed over South Chhattisgarh adjoining Odisha, North Interir Karnataka, Kerala adjoining Tamilnadu, Sikkim, Arunachal Pradesh, Meghalaya, Tripura, Nagaland and Mizoram.

Westerly Trough & Jet-Stream:.

No Westerly Trough & Jet Stream

Dynamic Features

Low to Medium wind shear is observed over India.

Positive shear tendency is observed over India.

A positive Vorticity field is observed over Madhya Pradesh and south Uttar Pradesh.

Negative low level convergence observed over Rajasthan and Positive Low Level Convergence observed over the rest parts of India.

Precipitation:

IMR:

Rainfall Upto 110mm was observed over North East Jharkhand, West Bengal.

Rainfall Upto 70 mm was observed over South Madhya Maharashtra, North East Odisha.

Rainfall upto 30 mm was observed over West Karnataka, South Central Tamilnadu. Rainfall upto 20 mm was observed over North Himachal Pradesh, North East Bihar, South Chhattisgarh, North West Odisha.

Rainfall upto 10 mm was observed over North West J&K, North Uttarakhand, Extreme North Rajasthan, East Punjab, Meghalaya, Assam, Arunachal Pradesh, Nagaland, Manipur, Mizoram Tripura.

HEM:.

Rainfall upto 70 mm was observed over North West J&K, Himachal Pradesh, North Uttarakhand, Madhya Maharashtra, South Chhattisgarh, North East Odisha, West Bengal, West Meghalaya, East Arunachal Pradesh, West Karnataka, South Central Tamilnadu and North Kerala.

Rainfall upto 07 mm was observed over Vidarbha, South West Odisha, East Bihar, North East Jharkhand, Assam, Rest Arunachal

Pradesh, Nagaland, Manipur, Mizoram and Tripura.

RADAR and RAPID Observation:

No Significant convection was observed in DWR Composite at 12330hrs IST of today.

RAPID RGB satellite imagery at 1200hrs IST indicated convective clouds over west Assam adjoining Meghalaya, south Assam, Nagaland, Manipur, Mizoram, Tripura, Sikkim, Arunachal Pradesh, J & K and Andaman & Nicobar Islands.

Environmental condition (dust etc) and its forecast based on 00UTC of date:

Higher Dust concentration was observed over northern Africa and some parts of eastern Asia. Dust concentration is expected to remain high over western and northern India for next five days. High PM10 concentration was observed over north-western and northern India.

2. NWP MODEL GUIDANCE:

NCMRWF (NCUM Forecasts based on 00 UTC of the day):-Not Received (delayed due to technical reasons)

IMD GFS (T1534) based on 00UTC the day:-Not Received

3. IOP ADVISORY FOR 24 and 48Hrs:

Summary and Conclusions:

Day-1 & Day-2:

Presently, conditions are favorable for further advance of southwest monsoon into some parts of southwest Bay of Bengal, some more parts of southeast Bay of Bengal, remaining parts of Andaman Sea and Andaman & Nicobar Islands and some parts of east central Bay of Bengal during next 72 hours. Apart from this, the upper air cyclonic circulation over South Andaman Sea and adjoining Malay Peninsula now lies over south Andaman sea & neighbourhood and extends upto 3.6 km above mean sea level. This will give rise to heavy rainfall activity over Andaman and Nicobar Islands on Day-1 and Day-2.

A trough runs from Mizoram across Bihar, Sub Himalayan West Bengal & Assam and extends upto 0.9 km above means sea level. The upper air cyclonic circulation over northern parts of Bangladesh & neighbourhood embedded with the above trough. This will give rise to heavy rainfall activity over Assam, Meghalaya and eastern parts of Arunachal Pradesh.

The upper air cyclonic circulation over North Interior Karnataka & neighbourhood persists, the trough from the this system to Comorin area across South Interior Karnataka and Interior Tamilnadu now runs from Marathawada to south Tamilnadu across interior Karnataka and extends upto 0.9 km above mean sea level. Due to this system, Kerala, Interior Tamilnadu, Coastal Karnataka, South Interior Karnataka, North Coastal Andhra Pradesh may experience the thunderstorm with gusty winds on Day-1. Kerala and South Interior Karnataka may experience some rainfall activity onDay-1.

24 hour Advisory for IOP:

Andaman and Nicobar Islands, Assam, Meghalaya, East Arunachal Pradesh Nagaland, Manipur, Mizoram and Tripura Kerala, Interior Tamilnadu, Coastal Karnataka, South Interior Karnataka, North Coastal Andhra Pradesh Sub Himalayan West Bengal, Sikkim Himachal Pradesh South Madhya Maharashtra, Vidarbha

48 hour Advisory for IOP:

Andaman and Nicobar Islands, Assam, Meghalaya, East Arunachal Pradesh Nagaland, Manipur, Mizoram and Tripura Kerala, Interior Tamilnadu, Coastal Karnataka Orissa, Bihar Jammu and Kashmir and Himachal Pradesh

| ForNCMRWFNWPproducts:(<u>http://www.ncmrwf.gov.in/HomePage/NEPS-prod-1.php</u>) ForIMDNWPproducts:(<u>http://nwp.imd.gov.in/diagpronew.php</u>) |
|--|
| ForSynopticplotteddataandcharts |
| http://amssdelhi.gov.in/ |
| http://www.amsskolkata.gov.in/ |
| ForRAPIDtool: |
| http://rapid.imd.gov.in/ |
| LowLevelWinds |
| http://satellite.imd.gov.in/archive/INSAT-3D-IMAGER/3D-PRODUCTS/AMV/LLW/MAR2017/?C=M;O=D |
| Upperlevelwinds |
| http://satellite.imd.gov.in/archive/INSAT-3D-IMAGER/3D-PRODUCTS/AMV/HLW/MAR2017/?C=M;O=D |
| Past24hourHEMandIMRrainfall(upto03UTCoftoday) |
| IMR:http://satellite.imd.gov.in/img/3Ddailyimr.jpg |
| HEM:http://satellite.imd.gov.in/img/3Ddailyhe.jpg |
| ForRadarimagesofthepast24hoursincludingmosaicofimages: |
| http://ddgmui.imd.gov.in/dwrimg/ |
| SatellitesounderbasedT-Phigram |
| http://satellite.imd.gov.in/mapskm2.html |
| |













| Realized weather past 24hours (Based on SYNERGIE Products) | | | | | | | | | |
|--|-------------------|---|----------|------------------|------------------------|--|--|--|--|
| Date | Time of Reporting | Name of Station Reporting | Region | STATE | Weather Event | | | | |
| 13-05-17 | | Kailasahar, Agartala | NE India | Tripura | Thunderstorm | | | | |
| | | Mumbai(SCZ) | W India | Maharashtra | Thunderstorm | | | | |
| 0900UTC 13-05-17 | | Bhaderwah | NW India | J&K | Thunderstorm | | | | |
| | | Shantiniketan | E India | West Bengal(GWB) | Thunderstorm | | | | |
| | | Jamshedpur | E India | Jharkhand | Thunderstorm | | | | |
| | | Raipur | C India | Chhattisgarh | Thunderstorm | | | | |
| | | Belgaum | S India | Karnataka | Thunderstorm | | | | |
| | | Pahalgam, Kukernag, Qazigund, Banihal, Batote | NW India | J&K | Thunderstorm | | | | |
| 13-05-17 | 1200010 | Jagdalpur | C India | Chhattisgarh | Thunderstorm | | | | |
| | | Akola, Mahableshwar, Satara, Sangli | W India | Maharashtra | Thunderstorm | | | | |
| | | Nasik | W India | Maharashtra | Lightening | | | | |
| | | Dharwad, Madikeri | S India | Karnataka | Thunderstorm | | | | |
| | | Coonoor | S India | Tamilnadu | Thunderstorm with Hail | | | | |
| | | Salem | S India | Tamilnadu | Thunderstorm | | | | |
| | | Bankura, Shantiniketan, Burdwan, Midnapore, Kolkata(Alipore & Dumdum), Haldia | E India | West Bengal(GWB) | Thunderstorm | | | | |
| 12 05 17 | | Nasik, Pune, Akola | W India | Maharashtra | Thunderstorm | | | | |
| 13-05-17 | 1500010 | Belgaum | S India | Karnataka | Lightening | | | | |
| | | Kolkata(Dumdum), Digha | E India | West Bengal(GWB) | Thunderstorm | | | | |
| | | Balasore | E India | Odisha | Thunderstorm | | | | |
| | | Chandbali | E India | Odisha | Lightening | | | | |
| | | Pamban | S India | Tamilnadu | Lightening | | | | |
| 12 05 17 | | Gadag, Chitradurga | S India | Karnataka | Lightening | | | | |
| 13-03-17 | 1800010 | Chandbali | E India | Odisha | Thunderstorm | | | | |
| | | Jammu | NW India | J&K | Lightening | | | | |
| 13-05-17 | | Bhubaneshwar | E India | Odisha | Thunderstorm | | | | |
| | 2100010 | Solapur | W India | Maharashtra | Thunderstorm | | | | |
| | | Tezpur | NE India | Assam | Thunderstorm | | | | |
| 14-05-17 | 0000UTC | Kailasahar | NE India | Tripura | Thunderstorm | | | | |
| | | Purnea | E India | Bihar | Thunderstorm | | | | |
| | | Satara | W India | Maharashtra | Thunderstorm | | | | |
| 14-05-17 | 0300 UTC | Cherrapunjee | NE India | Meghalaya | Thunderstorm | | | | |
| | | Silchar | NE India | Assam | Thunderstorm | | | | |

Past 24 hours DWR Report:

| Radar Station name | Date of Reportin g | Time interval of observation (UTC) | Organization of the 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 |
|-----------------------|--------------------------|---|---|---|---|--|----------------------------------|
| Lucknow | 14-05-17 | 130300- 140300 | Nil | | | | |
| Nagpur | 14/05/17 | 130642- 140132 | Multiple | 130 km N, moving S'ly & SES'ly | maxZ=40 (ht of cloud=2.5 to 8.1 km), rest have reflectivity from 30 to 40 & cloud htt. Varies from 2.5 to 10 disappear 200 km in S | Thunderstorm warning started at 0852 & continue till 1042 at regular interval mostly in S direction. At 0942= 80 km N & 200 km E, thunderstorm warning | Mostly in 200 km in S, |
| | | 130652- 131332 | Multiple | 210 km E, moving S'ly | maxZ=30, cloud ht varies from 2 to 9 km | | |
| | | 130712- 131332 | Multiple | 200 km in S, moving S | maxZ=50 & ht. of cloud =2.3 to 5 km, for 46 dBZ ht of cloud till 7 km | | |
| | | 140002- 140302 | nil | | | | |
| Hyderabad | 14-05-17 | 130652 - 131132 | Scattered cells with an average height of 10 Km with a max reflectivity of 54.0 dBZ | N (55 Kms) moving in WSW- ly Direction at a speed of approx 6.0 kmph | Cells started forming at 0652 utc. Matured between 0942 and 1032 with max ref of 54 dBz and dissipated by 1132 UTC | Moderate Thunderstorm with or without rain | Siddipet and Medak districts. |

| | | 130302- 130602 | NO ECHO | | | | |
|---------|----------|--------------------|--|---|--|-------|-----------------------------|
| | | 130602 - 130902 | NO ECHO | | | | |
| | | 130902- 131202 | Multiple cells Max= 58.5 dBz Ht.=12-14 km | N & NE SECTOR. MOVING TOWARDS SE-WARDS | | RA/TS | HAMIRPUR AND ADJ. AREAS. |
| | | 131202- 131502 | ISOLATED PATCH. Max= 54.5 dBz Ht.=12-15 km | N & NE SECTOR. MOVING TOWARDS SE-WARDS | | RA/TS | NADAUN AND ADJ. AREAS. |
| Patiala | 14-05-17 | 131502- 131802 | NO ECHO | | | | |
| | | 131802- 132102 | NO ECHO | | | | |
| | | 132102- 130002 | NO ECHO | | | | |
| | | 140002- 140252 | NO ECHO | | | | |
| Jaipur | 14-05-17 | 131132- 131402 | Multiple cell with average height of 6.0 km maximum reflectivity 50.5 dBZ | Cells develop 1132 to 1402 UTC towards EAST at speed 40-45 km/hr | Cells continuous forming from 1132 UTC NW, N of Jaipur and multiple cell was observed and maximum refelectivity during 1212-1242 UTC and died down at 1402 UTC. | TSRA | CHURU, JHUNJHUNU |

| | | 131242- 131412 | Multiple cell with average height of 6.0 km maximum reflectivity 42 dBZ | Cells develop 1242 to 1412 UTC towards EAST at speed 40-45 km/hr | Cells continuous forming from 1242 UTC South of Jaipur and multiple cell was observed and maximum refelectivity during 1332-1342 UTC and died down at1412 UTC | | Tonk |
|----------|----------|-------------------|---|--|---|--|------------------------------|
| Srinagar | 14-05-17 | 130300- 140300 | Multiple ceells developed in the SW and NW directionDWR Srinagar at around 1120 utc with max. reflectivity 50-55 DBZ and average height 9 kms and moved se wards | Developed at around1130 moved ESE diecton of DWR and finally dissipated at around1730utc | Thunder and light rain reported from Phalgam . kukernag Qazigund Katra Bhaderwah Batote | Light rain has occurred at phalgam Kukernag Bhaderwah and katra | Anantnag Ramban and Reasi |
| Kolkata | 14-05-17 | 130301- 130601 | NIL | NIL | NO SIG ECHO | NIL | NIL |
| | | 130612- 131501 | 1. Isolated Single cell with maximum reflectivity of 59.0 dBz at 0731 UTC and maximum height of 12.63 Km at 0731UTC | NNW(247.9 km) moving towards SE-ly direction | 1. Isolated single cell seen at 0612 UTC in NNW at a distance of 247.9 km from radar. Merged and moving towards SE-ly direction in Bangladesh. | Thunderstorm / Rain | N/A |
| | | 130711- 131501 | 2. Multi celled system with maximum reflectivity of 62.5 dBz at 0901 UTC and maximum height of 15.4 Km at 0901 UTC | NW (243.2 km) Moving in SE-ly direction | Multicelled system coming from 0711 UTC from NW at a distance of 248.6 km from radar. Merged and moving towards SE-ly direction in Bangladesh | Thunderstorm /Squall/ Hail/ Rain | N/A |
| | | 131122- 131521 | 3. Isolated Single cell with maximum reflectivity of 52.5 dBz at 1252 UTC and | W (244.3 km) Moving in SE-ly direction | Isolated single cell seen at 1122 UTC in W at a distance of 244.3 km from | Thunderstorm /Squall/ Hail/ Rain | N/A |

| | | 131541- 132351 | maximum height of 12.27 Km at 1252UTC NIL | NIL | radar, matured, dissipated in SW at 1521 UTC at a distance of 236.7 km from radar. NO SIG ECHO | NIL | NIL |
|---------------|----------|---------------------------|---|---|--|---|---|
| | | 140001- 140301 | NIL | NIL | NO SIG ECHO | NIL | NIL |
| Machilipatnam | 14-05-17 | 130721- 131241 | Isolated Multiple cells average height of 11.5 km with maximum reflectivity of 65dBZ | NE(125KM) and moving SW ly direction with average speed of 22 kmph | Cell started forming at 0721UTC, at NE (247km) from Radar the maximum reflectivity during 0731 to 1221 UTC and died down at 1241UTC | Possibility of Thunder storm with Hail and rain and moderate winds. | Visakhapatnam, East Godavari and West Godavari Districts |
| | | 130941- 131131 | Isolated Multiple cells average height of 8.5km with maximum reflectivity of 56.5 dBZ | NWN (211KM) and moving S ly direction with average speed of 10kmph | Cells started forming at 1511UTC at NWN(231km) from radar the maximum reflectivity during 0951 to 1101 and died Down at 1131UTC | Possibility of Thunder storm with Rain and light winds. | Jayashankar Bhupalpalli District |
| | | 131211- 131511 | Isolated Multiple cells average height of 12.5km with maximum reflectivity of 60.5 dBZ | N (175KM) and moving S ly direction with average speed of 23kmph | Cells started forming at 1211UTC at N(245km) from radar the maximum reflectivity during 1211 to 1501 and died Down at 1511UTC | Possibility of Thunder storm with Rain and moderate winds. | Dantewara District |
| | | 1 <u>31231-</u> 131341 | Isolated Multiple cells average height of 10.5km with maximum | N (161KM) and moving S ly direction with average speed of | Cells started forming at 1231UTC at | Possibility of Thunder storm with Rain and | Bhadradri Kothagudem District |

| | | | reflectivity of 59.5 dBZ | 13kmph | N(174km) from | light winds. | |
|----------|----------|--------|--------------------------|---------------------------|---------------------|--------------|-------------------|
| | | | | | radar the | | |
| | | | | | maximum | | |
| | | | | | reflectivity during | | |
| | | | | | 12/11 to 1331 and | | |
| | | | | | died | | |
| | | | | | Down at 12/11 ITC | | |
| Agertale | 14 05 17 | | Multi coll with Movimum | Formed Ookm M(S)M of | Colla Dissipated at | TC with roin | Mamit District of |
| Aganala | 14-05-17 | 420200 | | | | 15 with rain | Minorom |
| | | 130300 | Height Tukm and | | 0540 UTC over | | Mizoram |
| | | - | maximum renectivity 37 | 01C 01 12.05.17 and | Mizoram | | west, Sipanijaia, |
| | | 130540 | dBZ (at 0320 UTC over | moved Eastwards at | | | |
| | | | Central Tripura) | around 30 kmph | | | Iripura |
| | | 130300 | Multi cell with Maximum | Formed 150km West of | Cells Dissipated at | TS with rain | All districts of |
| | | - | Height 14km and | DWR AGT at 2210 | 0930 UTC over | | Tripura |
| | | 130930 | maximum reflectivity 44 | UTC of 12.05.17 | Manipur | | |
| | | | dBZ (at 0610UTC over | divided into two parts at | | | |
| | | | South Assam) | 0310 UTC, one part | | | |
| | | | | moved ENE-wards and | | | |
| | | | | another part moved | | | |
| | | | | ESE-wards at around | | | |
| | | | | 25kmph | | | |
| | | 130550 | Multi cell with Maximum | Formed 300km WNW | Cells Dissipated at | N/A | N/A |
| | | - | Height 14km and | of DWR AGT at 0550 | 1040 UTC over | | |
| | | 131040 | maximum reflectivity 46 | UTC and moved ESE- | East Bangladesh | | |
| | | | dBZ (at 0640 UTC over | wards at around 35 | - | | |
| | | | Bangladesh) | kmph | | | |
| | | 130550 | Multi cell with Maximum | Formed 500km WNW | Cells Dissipated at | N/A | N/A |
| | | - | Height 13km and | of DWR AGT at 0550 | 1420 UTC over | | |
| | | 131420 | maximum reflectivity 46 | UTC and moved ESE- | South Bangladesh | | |
| | | | dBZ (at 1120 UTC over | wards at around 35 | 5 | | |
| | | | Bangladesh) | kmph | | | |
| | | 131940 | Multi cell with Maximum | Formed 80km NNW of | Cells persist at | TS with rain | East Khasi hills |
| | | - | Height 9km and | DWR AGT at 1940 | 0300 UTC .over | | District of |
| | | 140300 | maximum reflectivity 41 | UTC and moved ENE- | Fast Meghalava | | Meghalava |
| | | 110000 | dBZ (at 2110 LITC over | wards at around 30 | and South Assam | | mognalaya |
| | | | East Bangladesh) | kmph | and in dissipating | | |
| | | | East Bangladesh) | Kiipii | stane | | |
| | | 132040 | Multi cell with Maximum | Formed 350km NW of | Cells persist at | Ν/Δ | Ν/Δ |
| | | 102040 | Height 14km and | DW/R AGT at 2040 | 0300 LITC over | 11/7 | 11/7 |
| | | 1/0300 | maximum reflectivity 40 | LITC and moved ESE | West Mechalava | | |
| | | 140300 | dPZ (at 0140 LITC over | words at around 20 | and Bangladesh | | |
| | | | West Mechalove) | kmph | and banyiauesh | | |
| | | | west wegnalaya) | ктрп | and in growing | | |
| | | | | | stage | 1 | |

| Patna | 14-05-17 | 130300 - 130630 | NIL | NIL | NIL | NIL | NIL |
|-------|----------|-----------------------|---|---|--|---------------------------|--|
| | | 130630 - 130830 | Single Cell. Maximum Reflectivity : 52 dBZ Echo Top : 14.9 KM | Range: 167 km SE from DWR Patna Movement-South- Easterly | Warning E-mail and Fax sent to State Disaster management Authority and Concern DMs | Thunderstorm with Rain | BANKA |
| | | 130830 - 131800 | NIL | NIL | NIL | NIL | NIL |
| | | 131800 - 132200 | Multiple Cells. Maximum Reflectivity : 51 dBZ Echo Top : 14 KM | Range: 174km NE from DWR Patna Movement-South- Easterly | Warning E-mail and Fax sent to State Disaster management Authority and Concern DMs | Thunderstorm with Rain | MADHUBANI, MADHEPURA, SUPAUL, SAHARSA, PURNIA & BHAGALPUR |
| | | 132200 - 140000 | NIL | NIL | NIL | NIL | NIL |
| | | 140000 - 140300 | Multiple Cells. Maximum Reflectivity : 51 dBZ Echo Top : 14 KM | Range: 135 km N from DWR Patna Movement-South- Easterly | Warning E-mail and Fax sent to State Disaster management Authority and Concern DMs | Thunderstorm with Rain | SITAMARHI, DARBHANGA MADHUBANI, SAHARSA. |

