

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 0900UTC imagery of INSAT 3D):

Convective Activity and cloud description:

Cell No	Date/Time (UTC)	Area/Location	CTT (- Deg C)	Movement	Remarks
1	0900	Extreme NW Punjab adjoining Pakistan	50		
2	0900	C parts of North Interior Karnataka	76		
3	0900	Extreme S Odisha adjoining North Coastal Andhra Pradesh	71		

Broken low/medium clouds with embedded moderate to intense convection were seen over J & K, Himachal Pradesh, and Uttarakhand. Scattered low/medium clouds with embedded moderate to intense convection were seen over S Mizoram and Bay Islands. Scattered low/medium clouds with embedded isolated weak to moderate convection were seen over Sikkim, Bhutan, Arunachal Pradesh, Nagaland, Manipur, rest Mizoram, Meghalaya and Tripura. Scattered low/medium clouds with embedded weak convection were seen over Madhya Maharashtra. Scattered low/medium clouds were seen over rest Punjab, Haryana, S Madhya Pradesh, rest parts of south India and rest parts of East India except Bihar, S Gangetic West Bengal, NE Odisha & E Sub Himalayan West Bengal. Isolated low/medium clouds over SE Rajasthan and SE 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:

Significant convection was observed over North Coastal Andhra Pradesh, South Odisha, North Tamilnadu and Karnataka in DWR Composite at 1610hrs IST of today. It also indicated isolated convection over Haryana, Uttarakhand and S Chhattisgarh.

RAPID RGB satellite imagery at 1530hrs IST indicated convective clouds over North Interior Karnataka, S Odisha adjoining coastal Andhra Pradesh, Telangana, J & K, Himachal Pradesh, Uttarakhand, extreme NW Punjab, Kerala, Tamilnadu 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, 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 Interior Karnataka North Coastal Andhra Pradesh, Sub Himalayan West Bengal, Sikkim Himachal Pradesh, South Madhya Maharashtra, Vidarbha J & K, Uttarakhand, Odisha

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:(http://www.ncmrwf.gov.in/HomePage/NEPS-prod-1.php)

ForIMDNWPproducts:(http://nwp.imd.gov.in/diagpronew.php)

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

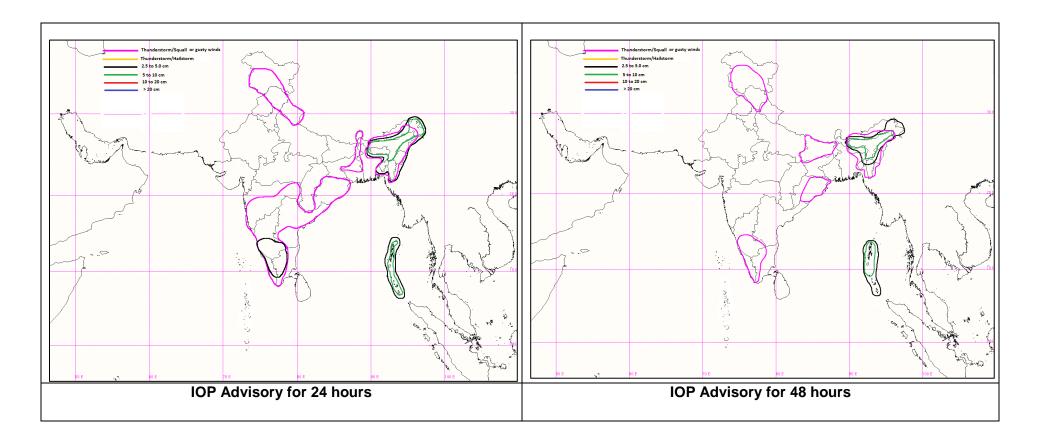
HEM: http://satellite.imd.gov.in/img/3Ddailyhe.jpg

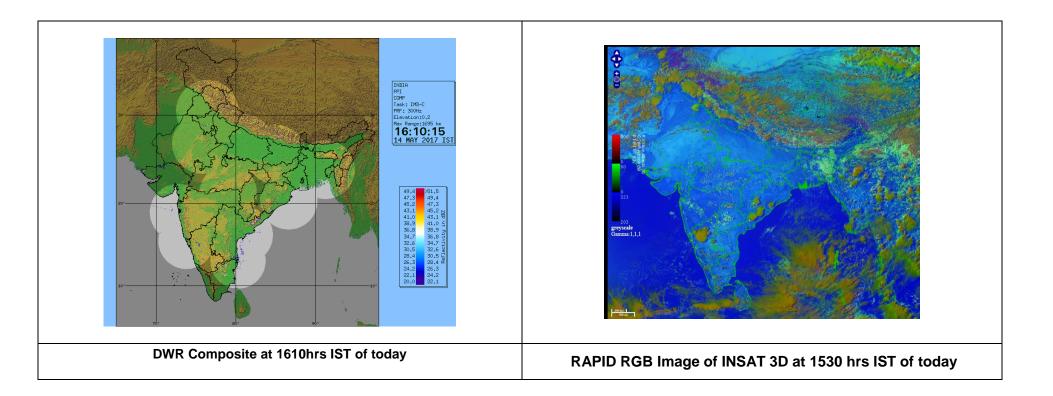
For Radarimages of the past 24 hours including mosaic of images:

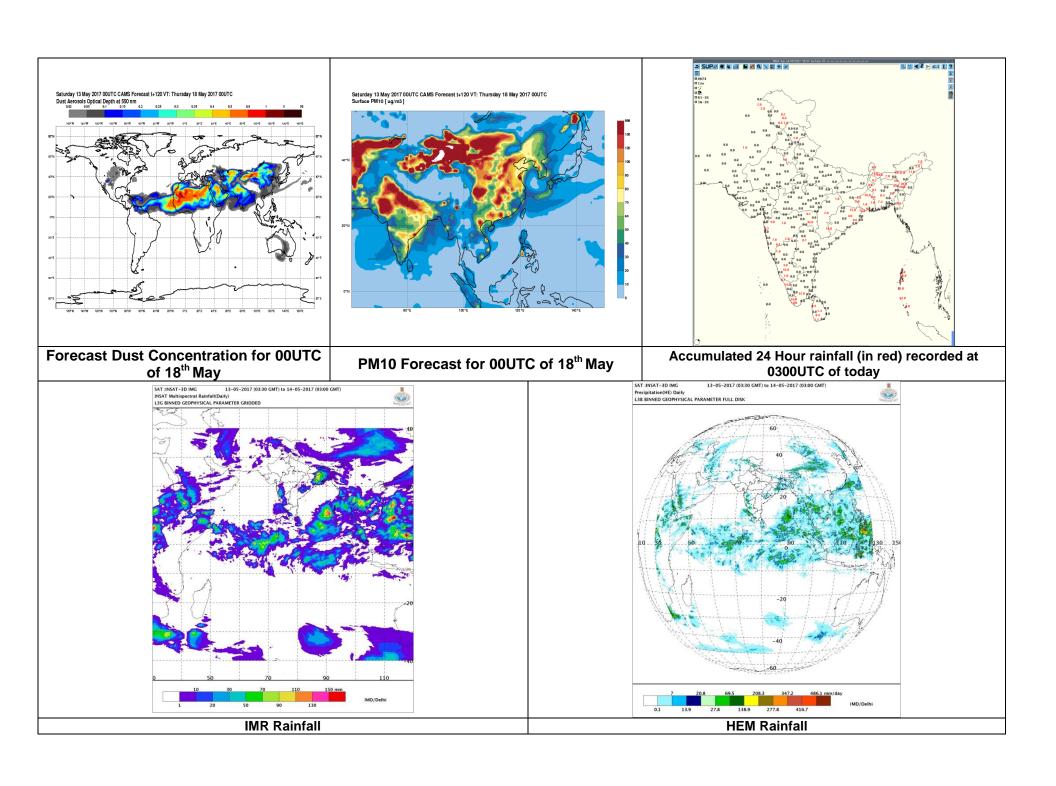
http://ddgmui.imd.gov.in/dwrimg/

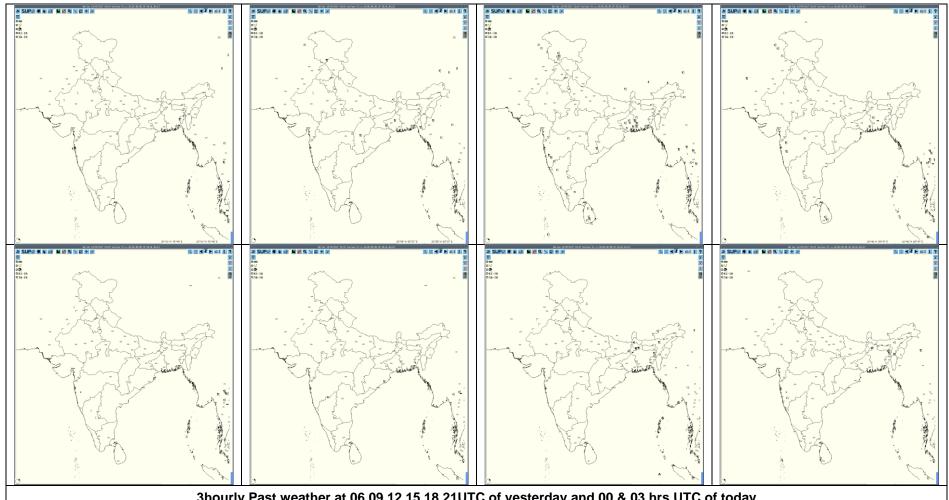
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http://satellite.imd.gov.in/mapskm2.html

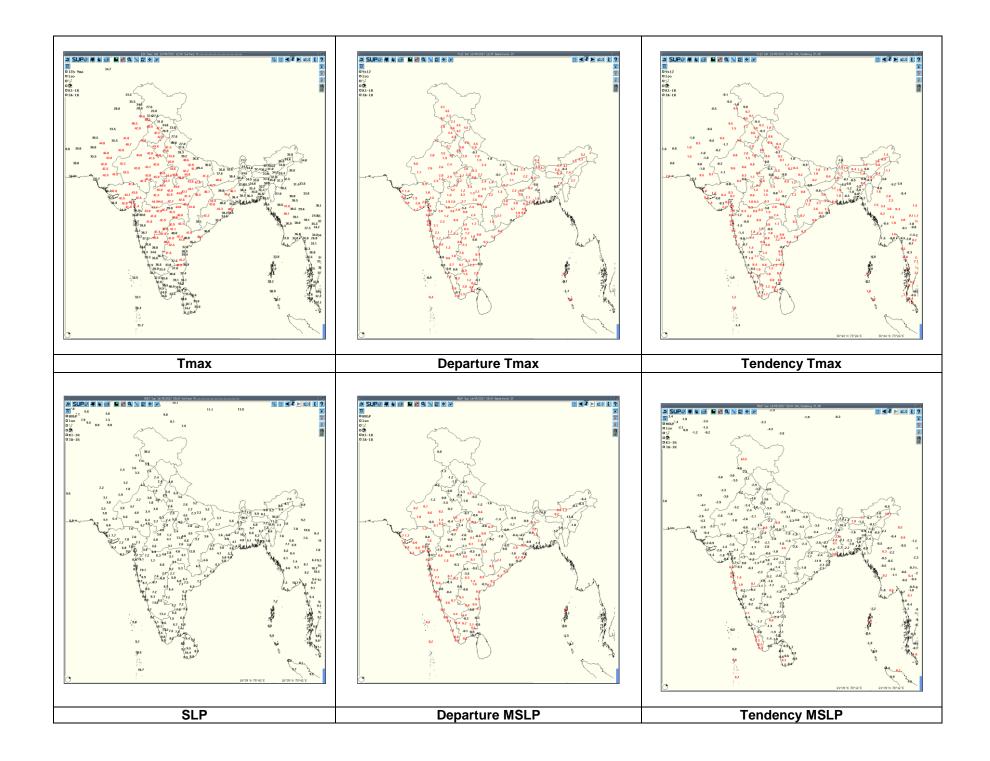


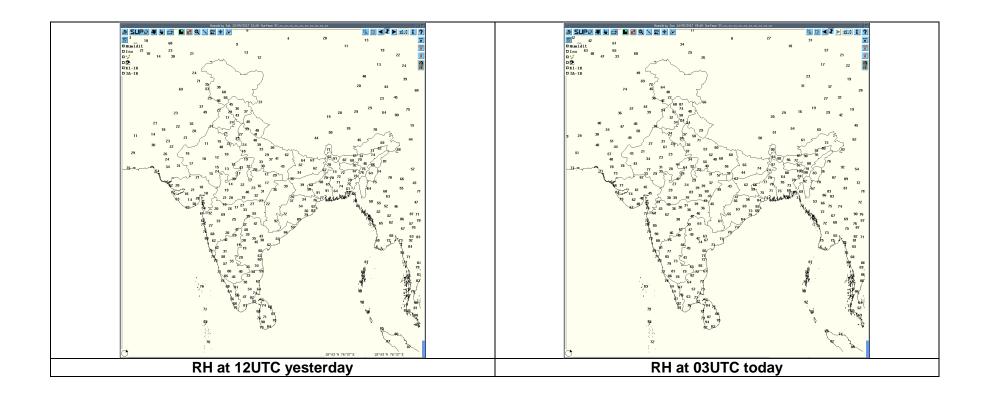






3hourly Past weather at 06,09,12,15,18,21UTC of yesterday and 00 & 03 hrs UTC of today





		Realized weather past 24hours (Bas	sed on SYNERGIE I	Products)	
Date	Time of Reporting	Name of Station Reporting	Region	STATE	Weather Event
13-05-17	0600UTC	Kailasahar, Agartala	NE India	Tripura	Thunderstorm
13-03-17		Mumbai(SCZ)	W India	Maharashtra	Thunderstorm
	0900UTC	Bhaderwah	NW India	J&K	Thunderstorm
13-05-17		Shantiniketan	E India	West Bengal(GWB)	Thunderstorm
		Jamshedpur	E India	Jharkhand	Thunderstorm
		Raipur	C India	Chhattisgarh	Thunderstorm
		Belgaum	S India	Karnataka	Thunderstorm
	40001170	Pahalgam, Kukernag, Qazigund, Banihal, Batote	NW India	J&K	Thunderstorm
13-05-17	1200UTC	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
13-05-17	1500UTC	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
13-05-17	1800UTC	Gadag, Chitradurga	S India	Karnataka	Lightening
13-05-17	1000010	Chandbali	E India	Odisha	Thunderstorm
		Jammu	NW India	J&K	Lightening
13-05-17	040011TO	Bhubaneshwar	E India	Odisha	Thunderstorm
	2100UTC	Solapur	W India	Maharashtra	Thunderstorm
44.05.47		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

Name of Station Reporting	Region	STATE	Weather Event (TS/Hail/Squall)	Date	Time of Commenc ement (IST)	Time of end (IST)
Agartala	NE India	Tripura	Thunderstorm	13-05-17	0855	1230
Kailasahar	NE India	Tripura	Thunderstorm	13/14-05-17	1020 140500	1220 140610
Ballia	NW India	Uttar Pradesh(E)	Thunderstorm	13-05-17	0900	0930
Pilani	NW India	Rajasthan(E)	Thunderstorm	13-05-17	1745	1930
Shimla	NW India	Himachal Pradesh	Thunderstorm	13-05-17	1735	1830
Qazigund	NW India	J & K	Thunderstorm	13-05-17	1620	1740
Pahalgam	NW India	J & K	Thunderstorm	13-05-17	1550	1600
Kukernag	NW India	J & K	Thunderstorm	13-05-17	1545	1805
Banihal	NW India	J & K	Thunderstorm	13-05-17	1610	1800
Batote	NW India	J & K	Thunderstorm	13-05-17	1450	1820
Katra	NW India	J & K	Thunderstorm	13-05-17	2045	2120
Bhaderwah	NW India	J&K	Thunderstorm	13-05-17	1230 1815	1520 2030
Akola	C India	Vidarbha	Thunderstorm	13-05-17	1710	1750
Chandrapur	C India	Vidarbha	Thunderstorm	13-05-17 14-05-17	1630 0030	1720 0100
Ambikapur	C India	Chhattisgarh	Thunderstorm	13-05-17	1415	1435
Jagdalpur	C India	Chhattisgarh	Thunderstorm	13-05-17	1640	1900
Pendra Rd	C India	Chhattisgarh	Thunderstorm	13-05-17	0830 1445	0930 1520
Hyderabad	S India	Telangana	Thunderstorm	14-05-17	0620	0705
Lengpui	NE India	Mizoram	Thunderstorm	13-05-17	0831	0950
Agartala	NE India	Tripura	Thunderstorm	13-05-17	0855	1230
Kailasahar	NE India	Tripura	Thunderstorm	13-05-17	1020	1220
				14-05-17	0500	0610

Shillong	NE India	Meghalaya	Thunderstorm	13-05-17	1200	1250
Barapani	NE India NE India	Meghalaya	Thunderstorm	13-05-17	1450 1525	1515 1640
Imphal	NE India	Manipur	Thunderstorm	13-05-17	1525	1640
Dhubri	NE India	Assam	Thunderstorm	13-05-17	1900	0540
Guwahati	NE India	Assam	Thunderstorm	13-05-17	1915	2135
Passighat	NE India	Arunachal Pradesh	Thunderstorm	14-05-17	0000	0300
Jorhat	NE India	Assam	Thunderstorm	14-05-17	0200	0510
Tezpur	NE India	Assam	Thunderstorm	14-05-17	0240	0500
·			Thunderstorm	14-05-17	0520	0540
Silchar	NE India	Assam	Thunderstorm	14-05-17	0610	0830
Cherrapunjee	NE India	Meghalaya	Thunderstorm	14-05-17	0710	0800
Bajpe	S India	Karnataka(CK)	Thunderstorm	14-05-17	0340	0420
		, ,	Thunderstorm	13-05-17	1415	1610
Belagavi AP	S India	Karnataka(NIK)			1855	2010
Salem	S India	Tamilnadu(North)	Thunderstorm	13-05-17	1625	1735
Kodaikanal	S India	Tamilnadu (South)	Thunderstorm	13-05-17	1430	1620
Karipur A P	S India	Kerala	Thunderstorm	13-05-17	1720	1825
Thiruvananthapuram Airport	S India	Kerala	Thunderstorm	14-05-17	0148	0410
Karipur A P	S India	Kerala	Thunderstorm	13-05-17	1720	1825
Alipore	E India	West Bengal(GWB)	Thunderstorm	13-05-17	1600 1700	1615 1745
			Squall from NW direction with max speed 75kmph	13-05-17	1602	1603
			Lightening	13-05-17	1807	1820
Dum Dum	E India	West Bengal(GWB)	Thunderstorm	13-05-17	1615	2128
			Squall from NW direction with max speed 62kmph	13-05-17	1601	1602
			Lightening	13-05-17	1625	2130

Haldia	E India	West Bengal(GWB)	Thunderstorm	13-05-17	1705	1750
			Squall from NW direction with max speed 82kmph	13-05-17	1745	1748
Digha	E India	West Bengal(GWB)	Thunderstorm	13-05-17	1745	2145
			Lightening	13-05-17	2145	2245
Asansol	E India	West Bengal(GWB)	Thunderstorm	13-05-17	1352	1600
			Lightening	13-05-17	1357	1600
Bankura	E India	West Bengal(GWB)	Thunderstorm	13-05-17	1432	1645
			Lightening	13-05-31	1432	1530
Purnia	E India	Bihar	Thunderstorm	14-05-17	0235	0345
			Lightening	14-05-17	0235	0345
Jamshedpur	E India	Jharkhand	Thunderstorm	13-05-17	1350	1400
Bhubaneswar	E India	Odisha	Thunderstorm	14-05-17	140	310
Balasore	E India	Odisha	Thunderstorm	13-05-17	1740	2110
Chandbali	E India	Odisha	Thunderstorm	13-05-17	2300	2400
Keonjhargarh	E India	Odisha	Thunderstorm	13-05-17	1905	2300
Port Blair	E India	Andaman & Nicobar Islands	Lightening	13-05-17	2115	2200

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	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

			maximum height of 12.27 Km at 1252UTC		radar, matured, dissipated in SW at 1521 UTC at a distance of 236.7 km from radar.		
		131541- 132351	NIL	NIL	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
		131231- 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.	
			Tolloouvity of oo.o ab2	Tokinpii	radar the	ingrit Williao.	
					maximum		
					reflectivity during		
					1241 to 1331 and		
					died		
					Down at 1341UTC		
Agartala	14-05-17		Multi cell with Maximum	Formed 90km WSW of	Cells Dissipated at	TS with rain	Mamit District of
		130300	Height 10km and	DWR AGT at 2220	0540 UTC over		Mizoram
		-	maximum reflectivity 37	UTC of 12.05.17 and	Mizoram		West, Sipahijala,
		130540	dBZ (at 0320 UTC over	moved Eastwards at			Khowai districts of
			Central Tripura)	around 30 kmph			Tripura
	 	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	10 marran	Tripura
		130930	maximum reflectivity 44	UTC of 12.05.17	Manipur		mpara
		100000	dBZ (at 0610UTC over	divided into two parts at	Mariipai		
			South Assam)	0310 UTC, one part			
			South Assain)	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			
	Ī	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	grade :		
			Bangladesh)	kmph			
	 	131940	Multi cell with Maximum	Formed 80km NNW of	Cells persist at	TS with rain	East Khasi hills
		131340	Height 9km and	DWR AGT at 1940	0300 UTC ,over	1 5 WILLI TAILI	District of
		140300		UTC and moved ENE-	East Meghalaya		
		140300	maximum reflectivity 41				Meghalaya
			dBZ (at 2110 UTC over	wards at around 30	and South Assam		
			East Bangladesh)	kmph	and in dissipating		
	<u> </u>		<u> </u>		stage		
		132040	Multi cell with Maximum	Formed 350km NW of	Cells persist at	N/A	N/A
		-	Height 14km and	DWR AGT at 2040	0300 UTC, over		
		140300	maximum reflectivity 40	UTC and moved ESE-	West Meghalaya		
			dBZ (at 0140 UTC over	wards at around 30	and Bangladesh		
	i I		1			I	
			West Meghalaya)	kmph	and in growing		

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.



