



India Meteorological Department
FDP STORM Bulletin No.52(26-04-2017)

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

SYNOPTIC FEATURES:

The Western Disturbance as an upper air cyclonic circulation over Jammu & Kashmir and neighbourhood extending upto mid-tropospheric level persists.

The trough at mean sea level from East Uttar Pradesh to Assam now runs from north Uttar Pradesh to northern parts of West Bengal. The trough at mean sea level from Telangana to Comorin area with the embedded cyclonic circulation over Telangana & neighbourhood has become less marked.

A trough runs from north Telangana to Comorin area across South Interior Karnataka and Tamilnadu at 1.5 Km above mean sea level.

The trough from east Bihar to northwest Bay of Bengal now runs from east Bihar to North Bay of Bengal and extends upto 1.5 Km above mean sea level.

The upper air cyclonic circulation over West Rajasthan & neighbourhood now lies over West Rajasthan & adjoining Pakistan and extends upto 1.5 Km above mean sea level.

A feeble fresh western disturbance is likely to affect Western Himalayan region from 29th April onwards.

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	CTBT (-°C)	Movement	Remarks If any
1	26/0300	South Assam adjoining East Meghalaya & adjoining North Manipur	63		Developing
	0400	-Do-	55		
	0500	-Do-	45		
	0600	-Do-	45		
	0700	-Do-	44		
	0800	-Do-	48		
	0900	South Assam	64		

Scattered low/medium clouds over Utrakhand, Southeast Uttar Pradesh and East Madhya Pradesh. Scattered medium/high clouds over Vidarbha, South Marathwada. Scattered low/medium clouds with embedded isolated weak to moderate convection over South Haryana, Northeast Rajasthan, North Coastal Andhra Pradesh. Scattered low/medium clouds with embedded moderate to intense convection were seen over South Assam adjoining Manipur.

Arabian Sea:

Scattered low/medium clouds with embedded weak to moderate convection were seen over SW Arabian Sea and adjoining Indian Ocean.

Bay of Bengal & Andaman Sea:

No Significant clouds over the region.

Past Weather:

Convection: Moderate to Intense convection was observed over N Rajasthan south Punjab NW Uttar Pradesh Haryana Delhi NE states Andhra Pradesh Tamilnadu south Karnataka and Kerala.

OLR:- Up to 260 wm^{-2} was over Andhra Pradesh J&K Himachal Pradesh Uttarakhand East Rajasthan Haryana Delhi NE States south Karnataka Kerala and Tamilnadu.

Westerly Trough & Jet Stream:

No Trough & Jet stream observed.

Dynamic Features:

Negative shear tendency observed over NW India and Positive shear tendency observed over Chhattisgarh Madhya Pradesh E UP Bihar NE states.

Medium to high wind shear is observed over India.

A positive Vorticity field is observed over Uttarakhand Bihar West Bengal and Assam.

Negative low level convergence observed over north Madhya Maharashtra Gujarat Uttar Pradesh Bihar & Jharkhand and Positive Low Level Convergence observed over Vidarbha Odisha and south Andhra Pradesh.

Precipitation:

IMR: Rainfall upto 30 mm was observed over east Meghalaya south Assam Manipur Tripura east Bangladesh. Rainfall 10 – 20 mm was observed over south coastal Andhra Pradesh south Karnataka and north Tamilnadu. Rainfall upto 10 mm was observed over J&K north Himachal Pradesh North Uttarakhand, North Rajasthan, South Punjab, Haryana & Delhi.

HEM: Rainfall upto 20 mm was observed over North Rajasthan, Haryana Delhi NE states south coastal Andhra Pradesh south Karnataka and north Tamilnadu.

RADAR and RAPID observation:

Multiple significant convective activities observed over East parts of Rajasthan and Coastal Andhra Pradesh Radar Composite of 1550UTC and in RAPID RGB Satellite imagery of 1530hrs IST including south interior Karnataka and South Tamilnadu.

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

Higher dust concentration was observed over northern Africa and some parts of middle-east and eastern Asia. Dust concentration is expected to decrease over west and north India for next five days.

High PM10 concentration was observed over west and north-east India. PM10 concentration is expected decrease over north India for next five days.

Particulate matter concentration expected to remain in moderate category for next 2 days.

2. NWP MODEL GUIDANCE:

NCMRWF(NCUM Forecasts based on 00UTC of the day):

1. Weather Systems: 12UTC Charts of Day-0 to Day-4 show feeble trough in MSLP over J & K.

12UTC Charts of Day-0 to Day-4 show weakened low pressure and its extension over IG plains is prominent with MSLP is at around 1000 hPa.

12UTC charts on all days from Day0-4 show two zones of wind discontinuity at 925 hPa due to persistent anticyclonic flow over Arabian Sea and Bay of Bengal :(i) SW-NE extending from northern Karnataka-Telangana region to Odisha region. (ii) S-N extending from southern parts of TN to northern parts of Telangana-AP region.

Trough at 850 hPa over GWB and SHWB in Day0-4. CYCIR over NW of India covering Punjab and adjoining Pakistan region at 850 hPa, from Day-2 to Day-4. Strong anti-cyclone at 500 hPa from Day-0 to Day-1 off AP coast. Trough at 500 hPa over J & K region from Day-0 to Day-2.

2. Location of jet and jet core at 500hPa:-500hPa Jet core (>60kt): Weaker core winds at 12 UTC on all days over India.

3. Convergence at 850 hPa: At 12UTC Day-0: high values over isolated locations over AP, Odisha coasts, and over parts of Assam. At 12UTC Day-1-2: lower values at several isolated locations Odisha, Chhattisgarh, WB, AP and Telangana. Additionally over western Ghats in Maharashtra and Over Assam

At 12UTC on Day-3-4: Mainly over NW India over Haryana-Punjab and adjoining Pakistan. Over GWB, Jharkhand and Chattisgarh and over Assam & Manipur.

At 00UTC very high values: over several places in Assam and over Assam-Arunachal region in Day-2 & 4.

4. Low level Vorticity:-Positive Vorticity ($>15 \times 10^{-5}/s$): At 12UTC on Day-0-2: mainly over Assam & Arunachal. On day-2-3 enhanced activity at isolated locations over WB, Assam and GWB, SHWB and Bihar. On Day-3-4 over NW India over isolated locations over Haryana, Punjab and over NE in Assam.

At 00UTC : very high values along the line of low level confluence and strong convergence.

5. Showalter Index: Day-wise Sub-divisions with Showalter index <-4: Day0: Arunachal Pradesh, Sub Himalayan WB, Uttarakhand, TN, Puducherry, SI Karnataka, Kerala,

Day1: Arunachal Pradesh, Assam, Meghalaya, NE NMMT, Sub Himalayan, WB, Gangetic WB, Bihar, Uttarakhand, Himachal Pradesh, Jammu & Kashmir, West Rajasthan, Odisha, Coastal AP, TN, Puducherry, Coastal Karnataka, SI Karnataka, Kerala,

Day2: Arunachal Pradesh, Assam, Meghalaya, NE NMMT, Sub Himalayan WB, Gangetic WB, Bihar, Uttarakhand, Himachal Pradesh, Jammu & Kashmir, Odisha, Coastal AP, Telangana, TN, Puducherry, Coastal Karnataka, SI Karnataka, Kerala,

Day3: Arunachal Pradesh, Assam, Meghalaya, NE NMMT, Sub Himalayan WB, Bihar, Uttarakhand, Himachal Pradesh, Jammu & Kashmir, Saurashtra, Kutch, Chhattisgarh, Coastal AP, Telangana, TN, Puducherry, Coastal Karnataka, SI Karnataka, Kerala,

Day4: Arunachal Pradesh, Assam, Meghalaya, NE NMMT, Sub Himalayan WB, Gangetic WB, Bihar, East UP, Uttarakhand, Himachal Pradesh, Jammu & Kashmir, Odisha, Chhattisgarh, Coastal AP, Telangana, TN, Puducherry, Coastal Karnataka, SI Karnataka, Kerala,

6. K-Index: Daywise Sub-divisions with K-index >40:

Day0: Arunachal Pradesh, Sub Himalayan WB, Odisha, Coastal AP, Telangana, Rayalaseema, TN Puducherry, Coastal Karnataka, SI Karnataka, Kerala,

Day1: Arunachal Pradesh, Assam Meghalaya, Sub Himalayan WB, Uttarakhand, Odisha, Chhattisgarh, Coastal AP, Telangana, Rayalaseema, TN Puducherry, Coastal Karnataka, SI Karnataka, Kerala,

Day2: Arunachal Pradesh, Assam Meghalaya, NE NMMT, Sub Himalayan WB, Jammu Kashmir, Odisha, Chhattisgarh, Coastal AP, Telangana, Rayalaseema, TN Puducherry, Coastal Karnataka, SI Karnataka, Kerala,

Day3: Arunachal Pradesh, Assam Meghalaya, NE NMMT, Sub Himalayan WB, Bihar, Uttarakhand, Jammu Kashmir, Odisha, Chhattisgarh, Coastal AP, Telangana, Rayalaseema, TN Puducherry, Coastal Karnataka, NI Karnataka, SI Karnataka, Kerala,

Day4: Arunachal Pradesh, NE NMMT, Sub Himalayan WB, Bihar, Uttarakhand, Jammu Kashmir, Chhattisgarh, Coastal AP, Telangana, Rayalaseema, TN Puducherry, Coastal Karnataka, NI Karnataka, SI Karnataka, Kerala,

7. Spatial distribution of TTI: Daywise Sub-divisions with TTI >52: Day0: Arunachal Pradesh, Sub Himalayan WB, Jharkhand, West UP, Uttarakhand, Haryana, Chandigarh, Delhi, Punjab, Himachal Pradesh, Jammu Kashmir, West RJ, East RJ, West MP, East MP, Gujarat Region, Saurashtra Kutch, Konkan Goa,

Day1: Arunachal Pradesh, Assam Meghalaya, Sub Himalayan WB, Gangetic WB, Jharkhand, Bihar, West UP, Uttarakhand, Hry Chandigarh, Delhi, Himachal Pradesh, Jammu Kashmir, West RJ, East RJ, Odisha, Vidarbha, Chhattisgarh, Coastal AP, Telangana, Rayalaseema, Coastal Karnataka, NI Karnataka, SI Karnataka,

Day2: Arunachal Pradesh, Assam Meghalaya, NE NMMT, Sub Himalayan WB, Gangetic WB, Jharkhand, Bihar, West UP, Uttarakhand, Haryana, Chandigarh, Delhi, Punjab, Himachal Pradesh, Jammu Kashmir, West RJ, Odisha, Saurashtra Kutch, Konkan Goa, Madhya Maharashtra, Chhattisgarh, Coastal AP, Telangana, Rayalaseema, TN Puducherry, Coastal Karnataka, NI Karnataka, SI Karnataka, Kerala,

Day3: Arunachal Pradesh, Assam Meghalaya, NE NMMT, Sub Himalayan WB, Gangetic WB, Jharkhand, Bihar, East UP, West UP, Uttarakhand, Haryana, Chandigarh, Delhi, Punjab, Himachal Pradesh, Jammu Kashmir, West RJ, East RJ, Odisha, Guj Reg, Saurashtra Kutch, Vidarbha, Chhattisgarh, Coastal AP, Telangana, Rayalaseema, TN Puducherry, Coastal Karnataka, NI Karnataka, SI Karnataka, Kerala,

Day4: Arunachal Pradesh, Assam Meghalaya, NE NMMT, Sub Himalayan WB, Gangetic WB, Jharkhand, Bihar, East UP, Uttarakhand, Punjab, Himachal Pradesh, Jammu Kashmir, Odisha, Konkan Goa, Madhya Maharashtra, Marathwada, Vidarbha, Chhattisgarh, Coastal AP, Telangana, Rayalaseema, TN Puducherry, Coastal Karnataka,

8. Rainfall: Daywise Sub-divisions with Precipitation>2cm:

Day1: Arunachal Pradesh, Assam Meghalaya,

Day2: Arunachal Pradesh, Assam Meghalaya,

Day3: Arunachal Pradesh, Assam Meghalaya, Sub Himalayan WB,

Day4: Arunachal Pradesh, Assam Meghalaya, NE NMMT, Sub Himalayan WB, Jammu Kashmir,

Day5: Arunachal Pradesh, Assam Meghalaya, NE NMMT, Sub Himalayan WB, Jammu Kashmir, Kerala,

IMD GFS (T1534) based on 00UTC the day:-

1. Weather Systems: The analysis and forecasts based on 00 UTC show a low level trough extends from Sub-Himalayan West Bengal to south peninsula and persists for the next 5 days. Forecasts show the feeble CYCIR over extreme NE parts of India will persist for the next 5 days. Contour at 500 hPa shows a feeble WD would affect the northern parts of the India during next five days.

2. Location of jet and jet core at 500 hPa:-500 hPa Jet core (>60kt): No presence of jet core over the Indian region for the next 5 days.

3. Low level Vorticity:-Positive Vorticity 850hPa (>12 x 10⁻¹/s): Mostly along the trough at 850 hPa, and along the foot hill of Himalaya during next 5 days.

4. Spatial distribution of T-Storm Initiation Index, Lifted Index, Total Total Index, CAPE, CINE and Sweat Index (High potential for thunderstorm):

T-Storm Initiation Index (> 4): 3-3.5 mostly over east coast, eastern part of the country and over Gujarat and adjoining south Rajasthan but less than threshold value 4 all over the country during next 5 days.

Lifted Index (< -2): Less than threshold value mostly along east coast from Gangetic West Bengal to south peninsula and over Bihar, Jharkhand, Gangetic West Bengal and parts of north eastern states during next 5 days.

Total Total Index (> 50): Above threshold value over the most parts of central and eastern parts of India at 12 UTC during next 5 days.

Sweat Index (> 300): Mostly along east coast, Gujarat and adjoining areas and north eastern states during next 5 days and over eastern part of India during day2 to day5.

CAPE (> 1000): Mostly along east coast, extreme south peninsula, Gujarat and adjoining areas and parts of north eastern states during next 5 days and over eastern part of India during day3 to day5.

CINE (50-150): Mostly along east coast, west coast, Gujarat and adjoining areas, parts of north eastern states and over eastern part of India during next 5 days.

5. Rainfall and Rainfall activity:

10-40 mm: rainfall over NE states during next five days.

10-40 mm: rainfall over extreme south peninsula during next 24 hours.

10-40 mm: rainfall over J&K, HP and Uttarakhand during day3 to day5.

10-70 mm: rainfall over Gangetic West Bengal on day5.

IMD WRF (based on 00UTC of the day):

Model Reflectivity:

15-35 dBZ: Model reflectivity over parts of NE states during next 3 days.

5-15 dBZ: over parts of south peninsula during 56 hours to 66 hours.

5-15 dBZ: over some parts of J&K and HP during 32 hours to 36 hours.

Spatial distribution of Total Total Index, K-Index, CAPE and CINE:

Total Total Index (> 50): Above threshold value is observed over most parts of the country except south peninsula, J&K and NE states during next 72 hour.

K-Index (> 35): Less than threshold value is observed over the country during the next 72 hour.

CAPE (> 1000): Mostly along east coast of India, over SHWB and GWB during next 3 days.

CINE (50-150): CINE values are mostly less than threshold value over coastal regions, higher than over central parts of India and within threshold limit over parts of north eastern states during next three days.

Rainfall Activity:

Rainfall activity (10-70 mm) over most parts of NE states during next 3 days.

10-40 mm: over parts of south peninsula during next 48 hours.

10-40 mm: over parts of J&K on day3.

3. IOP ADVISORY FOR 24 and 48Hrs:

Summary and Conclusions:

Day 1 & Day 2:

The trough from east Bihar to north Bay of Bengal, which persists over the same region since yesterday is likely to result in persistence of southerlies in lower levels to the east of Gangetic West Bengal, into Northeast India and persistence of rainfall over the entire North-east Indian region. The rainfall is likely to be heavy over Assam, and adjoining Arunachal Pradesh on day 1, and likely to decrease on day 2. In association with the trough at mean sea level from Telangana to Comorin area, thunderstorms accompanied by rainfall, is expected to persist for the next two days over South Interior Karnataka, Kerala and Interior Tamil Nadu. In association with the upper air cyclonic circulation over West Rajasthan & adjoining Pakistan thunderstorms are likely over Northwest India on day 1. The position of the Subtropical Westerly Jet core over the Indian region at 300 hPa and aloft, may give rise to isolated convection on day 1 over East Vidarbha, Southeast Madhya Pradesh and South Chhattisgarh on day 1.

24 hour Advisory for IOP:

Arunachal Pradesh, Assam, Meghalaya
Nagaland, Manipur, Mizoram and Tripura
Interior Tamilnadu and Kerala
South Interior Karnataka
Jammu & Kashmir, Haryana, Punjab, Delhi, North Rajasthan, Uttarakhand, Uttar Pradesh,
Coastal Andhra Pradesh, South Coastal Odisha
Southeast Madhya Pradesh, East Vidarbha and adjoining Chhattisgarh

48 hour Advisory for IOP:

Arunachal Pradesh, Assam, Meghalaya
Nagaland, Manipur, Mizoram and Tripura
South Interior Karnataka, Interior Tamilnadu and Kerala

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

ForIMDNWPproducts:(http://nwp.imd.gov.in/diagpro_new.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/MAR_2017/?C=M;O=D

Upperlevelwinds

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

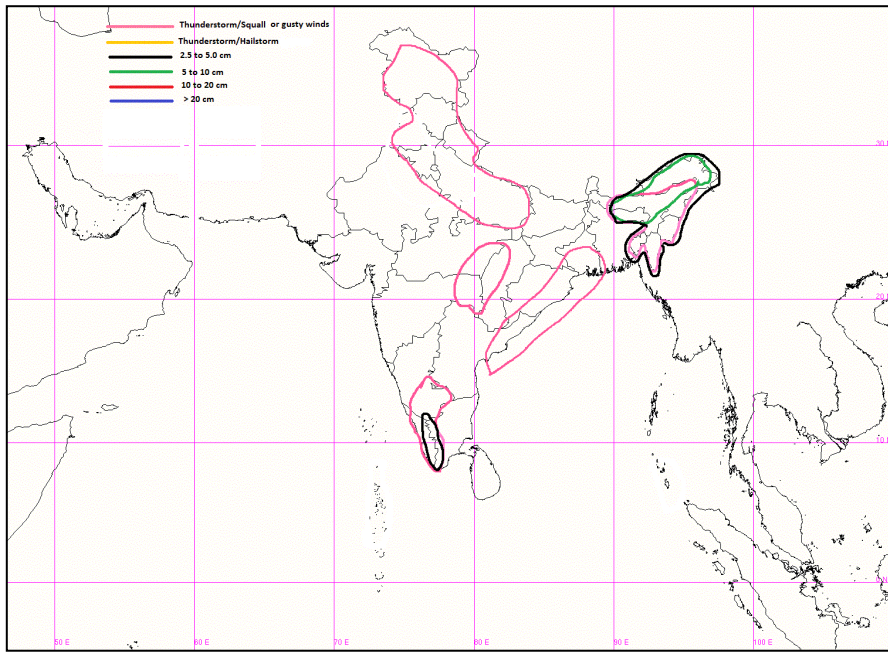
HEM:http://satellite.imd.gov.in/img/3Ddaily_he.jpg

ForRadarimagesofthepast24hoursincludingmosaicofimages:

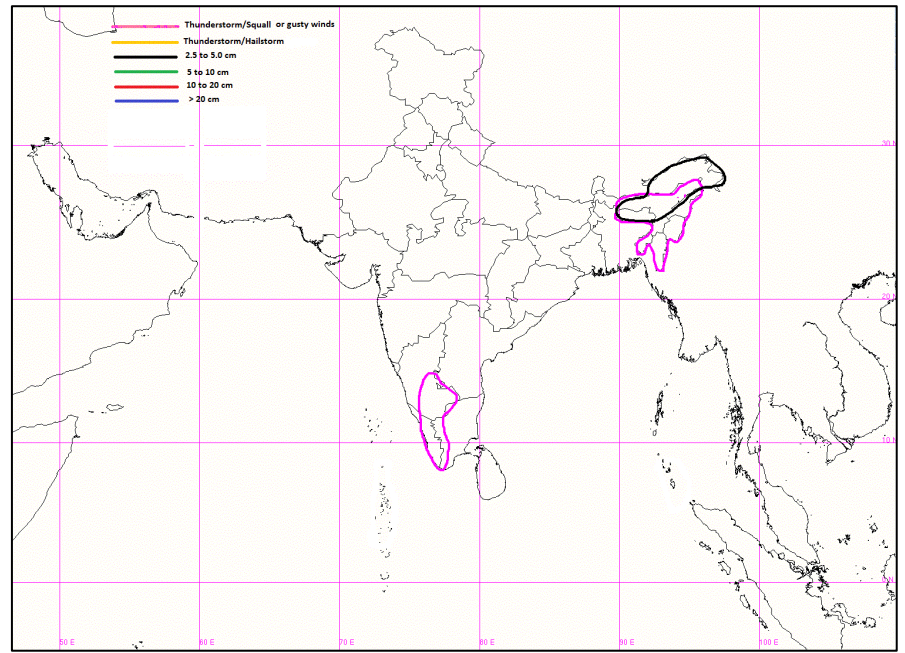
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SatellitesounderbasedT-Phigram

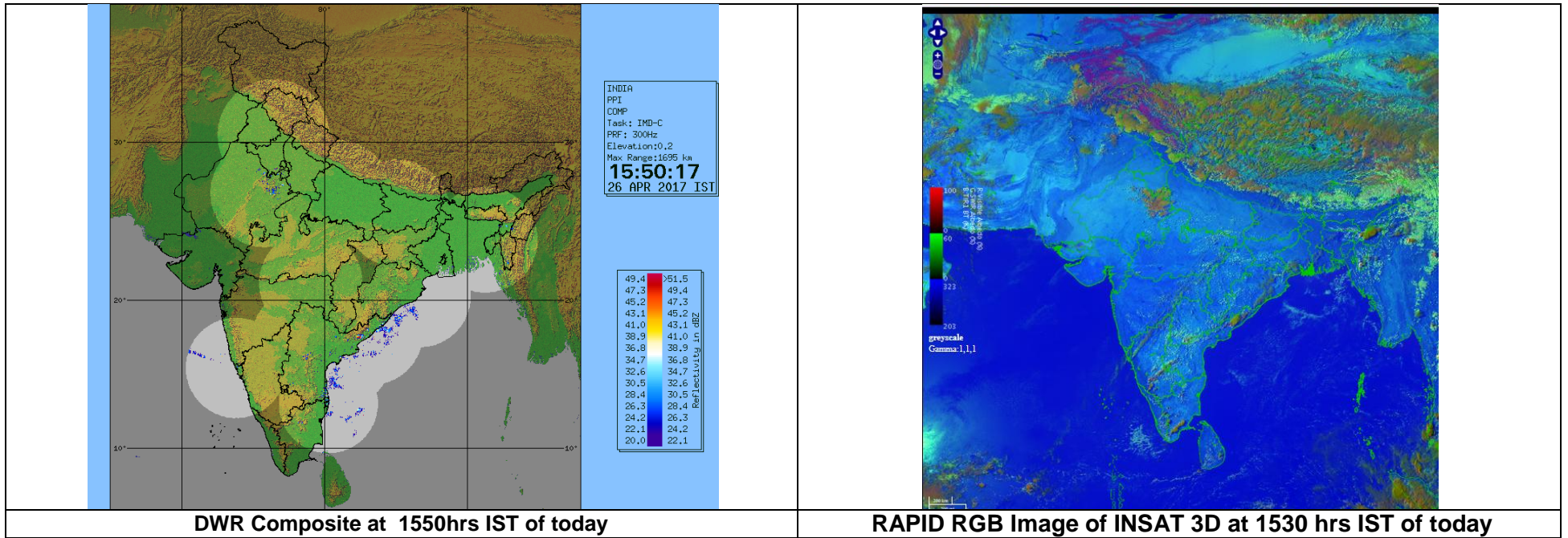
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IOP Advisory for 24 hours



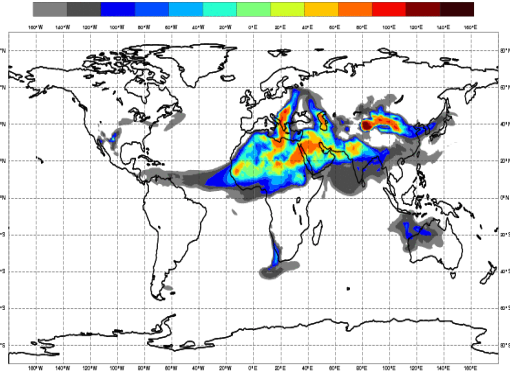
IOP Advisory for 48 hours



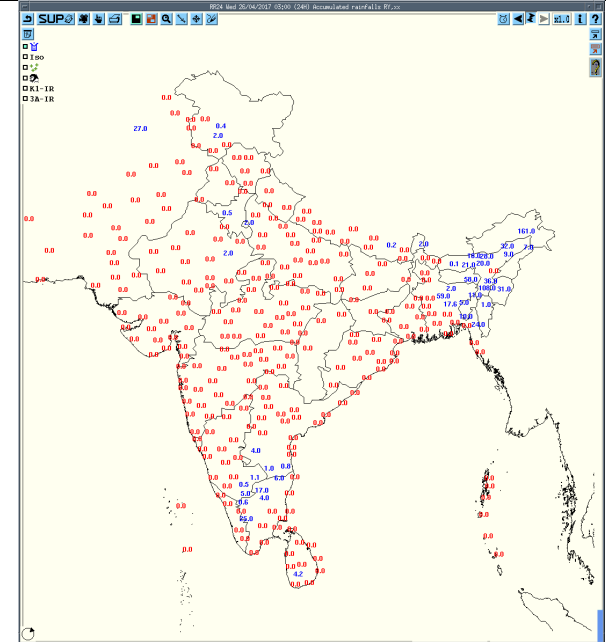
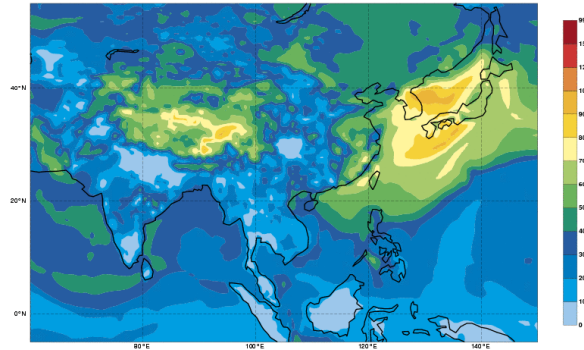
DWR Composite at 1550hrs IST of today

RAPID RGB Image of INSAT 3D at 1530 hrs IST of today

Tuesday 25 April 2017 00UTC CAMS Forecast t+120 VT: Sunday 30 April 2017 00UTC
 Dust Aerosols Optical Depth at 550 nm



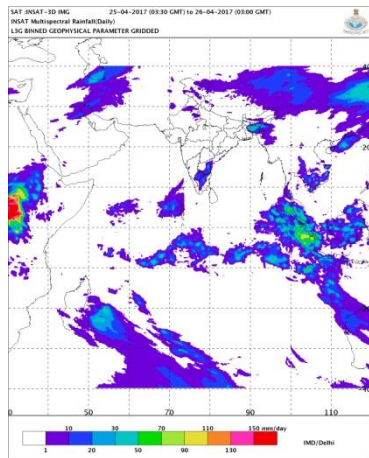
Tuesday 25 April 2017 00UTC CAMS Forecast t+120 VT: Sunday 30 April 2017 00UTC
 Surface ozone [ppbv]



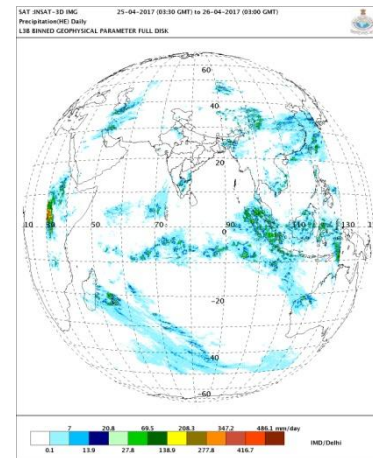
Forecast Dust Concentration for 00UTC of 30th April

PM10 Forecast for 00UTC of 30th April

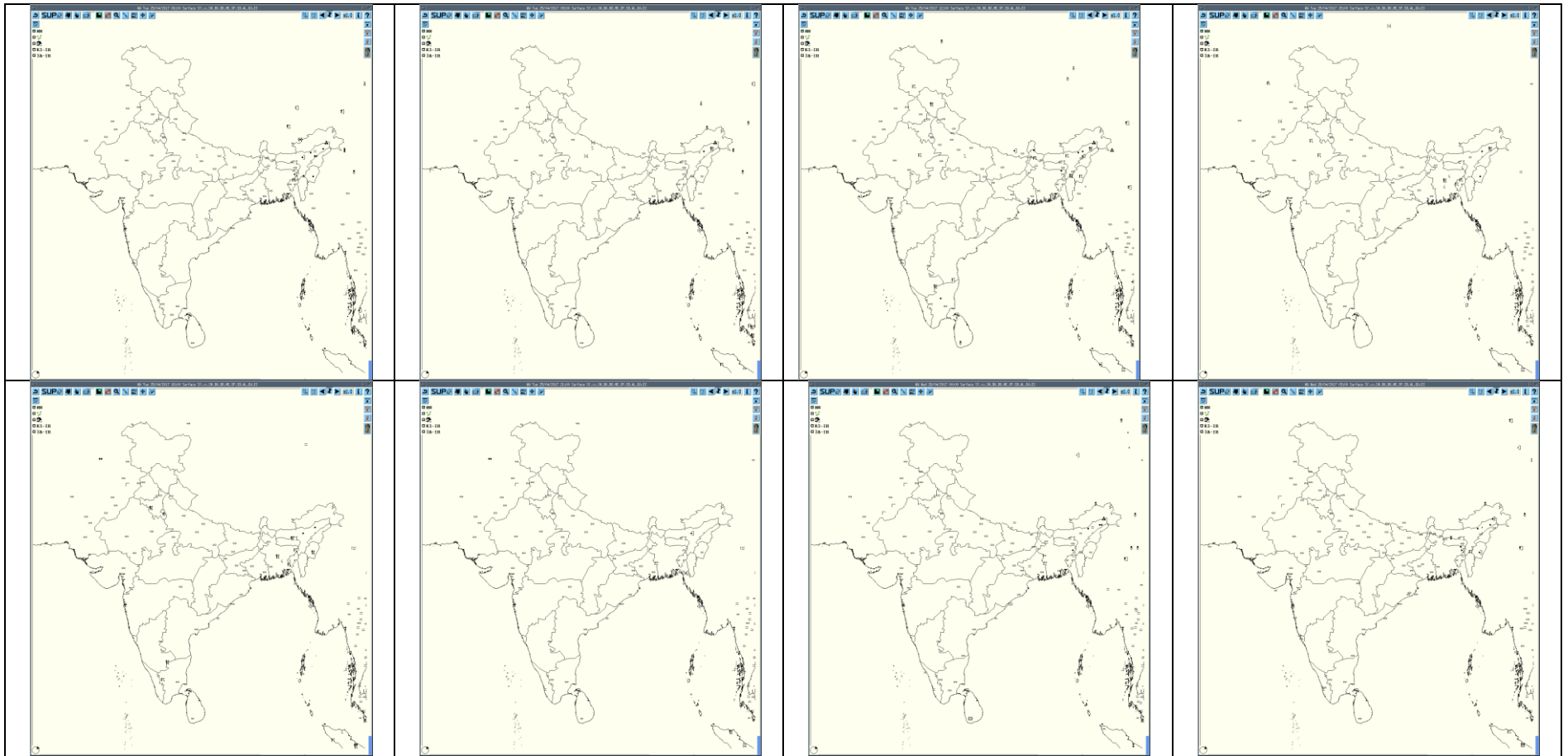
Accumulated 24 Hour rainfall (in blue) recorded at 0300UTC of today



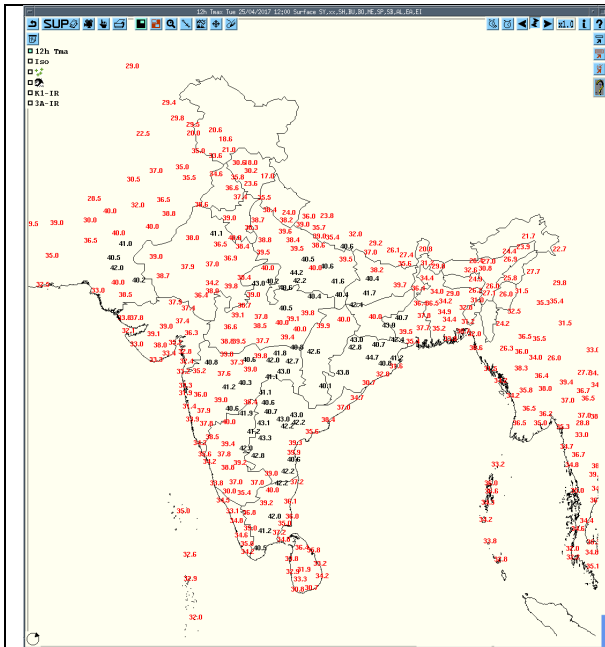
IMR Rainfall



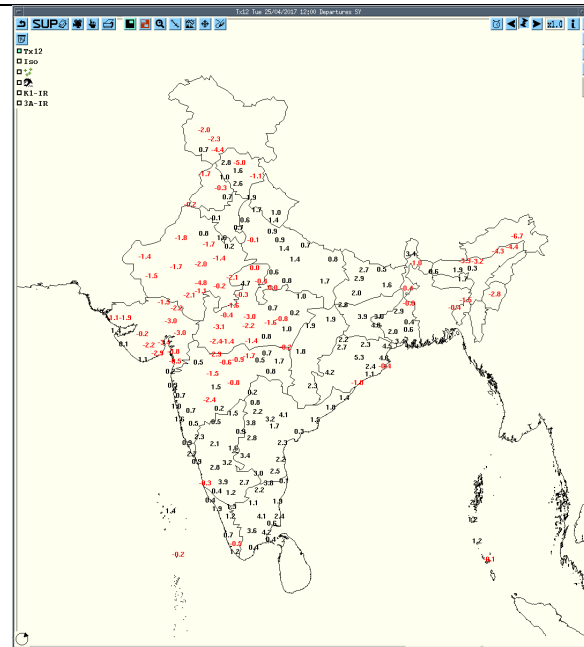
HEM Rainfall



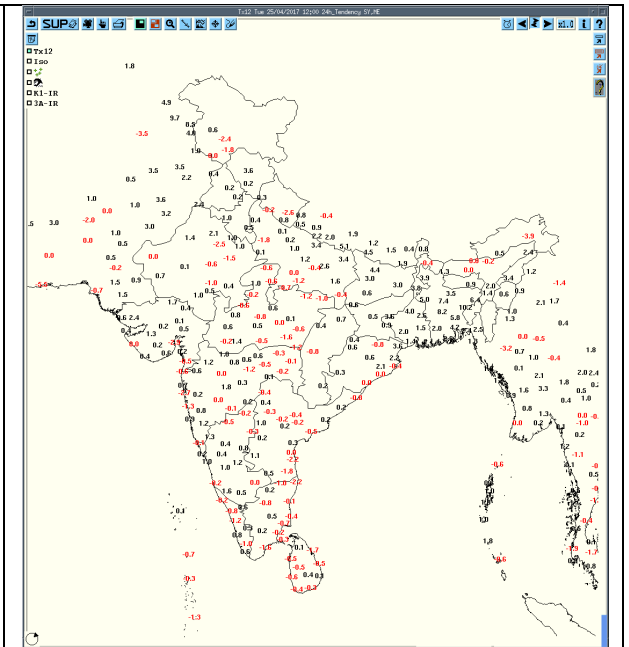
3hourly Past weather at 06, 09,12,15,18, 21UTC of yesterday and 00 & 03hrs UTC of today



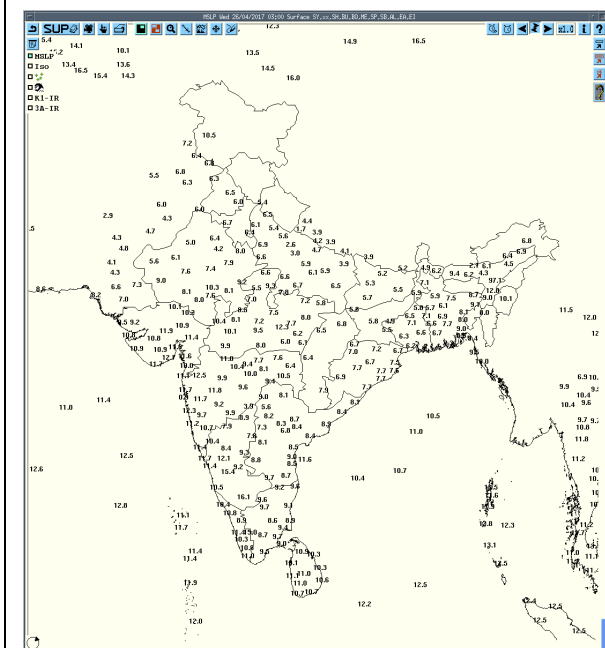
Tmax



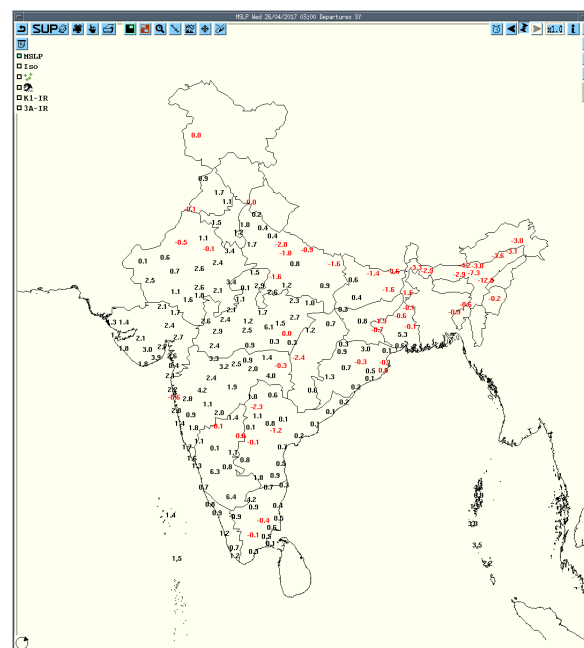
Departure Tmax



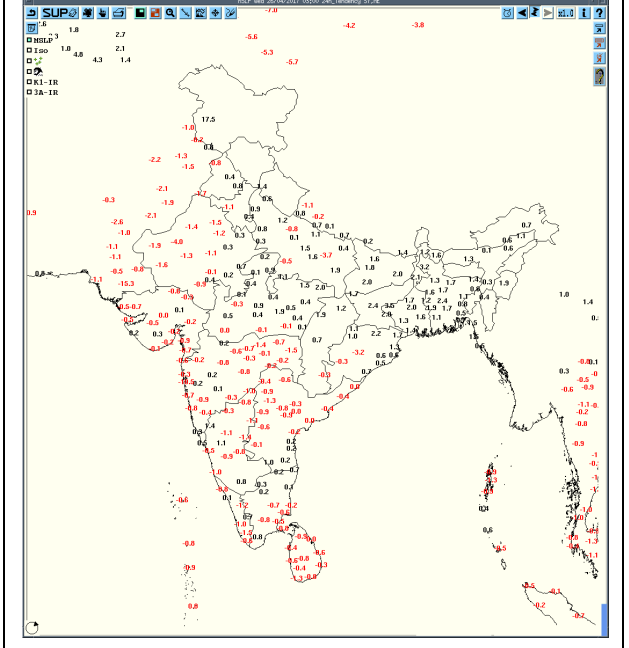
Tendency Tmax



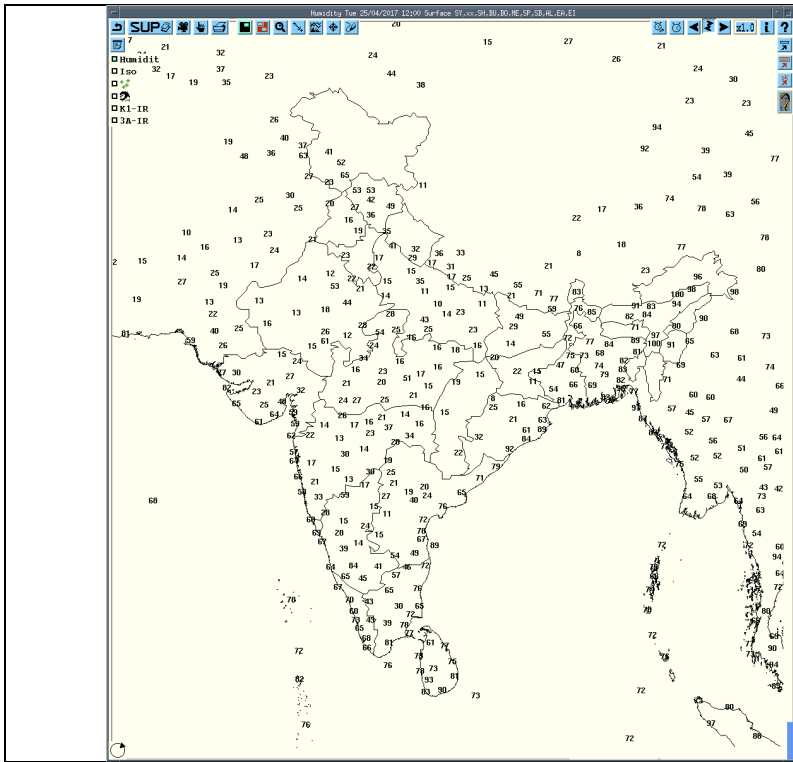
MSLP



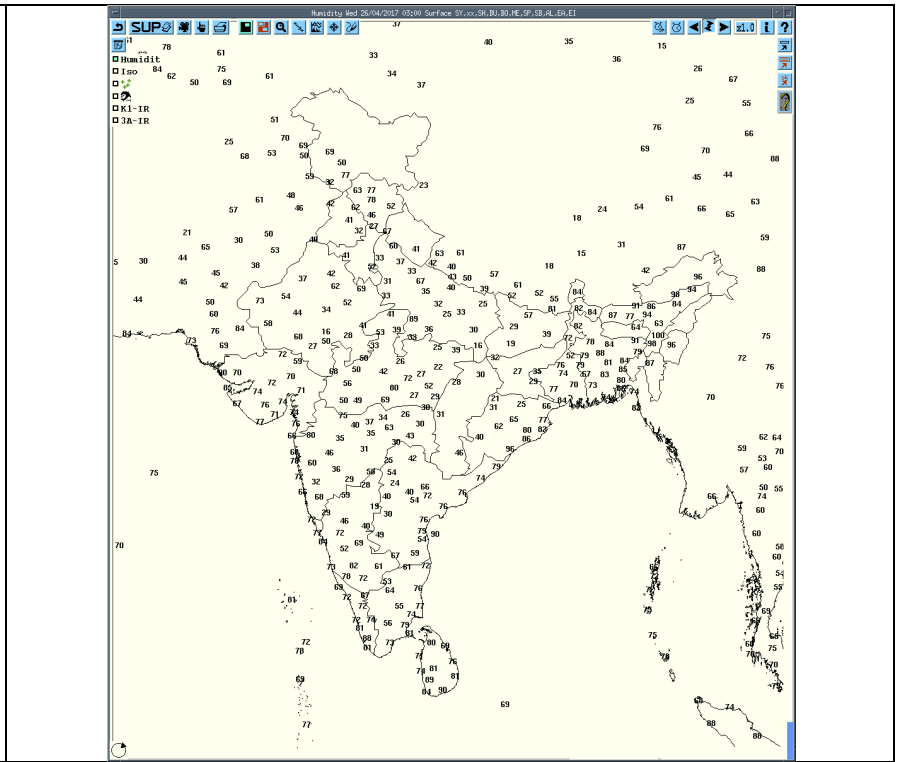
Departure MSLP



Tendency MSLP



RH at 12UTC yesterday



RH at 03UTC today

Realized weather past 24hours (Based on SYNERGIE Products)					
Date	Time of Reporting	Name of Station Reporting	Region	STATE	Weather Event
25-04-17	0600 UTC	Nil	Nil	Nil	Nil
25-04-17	0900 UTC	Dibrugarh	Northeast India	Assam	Thunderstorm
25-04-17	1200 UTC	Banihal	Northwest India	Jammu & Kashmir	Thunderstorm
		Sunder Nagar	Northwest India	Himachal Pradesh	Thunderstorm
		Jaipur	Northwest India	Rajasthan	Thunderstorm
		Jalpaiguri	East India	West Bengal	Thunderstorm
		Dibrugarh, Majbat, Silchar	Northeast India	Assam	Thunderstorm
		Imphal	Northeast India	Manipur	Thunderstorm
		Tirupathi	South India	Andhra Pradesh	Thunderstorm
		Bangalore	South India	Karnataka	Thunderstorm
25-04-17	1500 UTC	Churu, Jaipur	Northwest India	Rajasthan	Thunderstorm
		Dibrugarh	Northeast India	Assam	Thunderstorm
		Agartala	Northeast India	Tripura	Thunderstorm
25-04-17	1800 UTC	Hissar	Northwest India	Haryana	Thunderstorm
		New Delhi	Northwest India	Delhi	Thunderstorm
		Guwahati	Northeast India	Assam	Thunderstorm
		Imphal	Northeast India	Manipur	Thunderstorm
		Bangalore	South India	Karnataka	Thunderstorm
		Coimbatore	South India	Tamilnadu	Thunderstorm
25-04-17	2100 UTC	Nil	Nil	Nil	Nil
26-04-17	0000 UTC	Nil	Nil	Nil	Nil
26-04-17	0300 UTC	Nil	Nil	Nil	Nil

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 Commencement (IST)	Time of end (IST)
Qazigund	Northwest India	Jammu & Kashmir	Thunderstorm	25-04-17	1700	1830
Pahalgam	Northwest India	Jammu & Kashmir	Thunderstorm	25-04-17	1820	1900
Banihal	Northwest India	Jammu & Kashmir	Thunderstorm	25-04-17	1630	1950
Hissar	Northwest India	Haryana	Thunderstorm	25-04-17	1810 2035	1920 2100
Safdarjung	Northwest India	Delhi	Thunderstorm	25-04-17	2110	2210
Sikar	Northwest India	Rajasthan	Thunderstorm	25-04-17	1900	2100
Alawar	Northwest India	Rajasthan	Thunderstorm	25-04-17	2000	2015
Jaipur	Northwest India	Rajasthan	Thunderstorm	25-04-17	1510	2130
Pilani	Northwest India	Rajasthan	Thunderstorm	25-04-17	1930 2130	2030 2230
Swaimadhopur	Northwest India	Rajasthan	Thunderstorm	25-04-17	1400	2030
Churu	Northwest India	Rajasthan	Thunderstorm	25-04-17	1900	2140
Tadong	East India	Sikkim	Thunderstorm	25-04-17	1910	1930
Jalpaiguri	East India	West Bengal	Thunderstorm	25-04-17	1700	1830
Yelahanka IAF	South India	Karnataka	Thunderstorm	25-04-17	1820 2230	1930 2330
Bengaluru City	South India	Karnataka	Thunderstorm	25-04-17	1720 2245	1815 0010
AMS Bangalore	South India	Karnataka	Thunderstorm	25-04-17	1800 2130	1805 2240
Dharmapuri	South India	Tamilnadu	Thunderstorm	25-04-17	1600	1630
Coonoor	South India	Tamilnadu	Thunderstorm	25-04-17	2200	2300
Yercaud	South India	Tamilnadu	Thunderstorm	25-04-17	1530	1600
MO Kodaikanal	South India	Tamilnadu	Thunderstorm	25-04-17	1510 1800	1620 2300
Anantapur	South India	Andhra Pradesh	Thunderstorm	25-04-17	1740	1810
Tirupathi AP	South India	Andhra Pradesh	Thunderstorm	25-04-17	1450 1720 1900	1630 1800 1930

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 Commencement (IST)	Time of end (IST)
Silchar	Northeast India	Assam	Thunderstorm	25-04-17	25/1530	25/2400
Silchar	Northeast India	Assam	Squall from W direction with max speed 60kmph	25-04-17	25/1650	25/1652
Silchar	Northeast India	Assam	Thunderstorm	26-04-17	26/0000	26/0200
Dibrugarh	Northeast India	Assam	Thunderstorm	25-04-17	25/1432	25/2100
Tezpur	Northeast India	Assam	Thunderstorm	25-04-17	25/2125	25/2155
Tezpur	Northeast India	Assam	Thunderstorm	26-04-17	26/0700	26/0830
Guwahati	Northeast India	Assam	Thunderstorm	25-04-17	25/2115	25/2350
Guwahati	Northeast India	Assam	Squall from W direction with max speed 72kmph	25-04-17	25/2142	25/2144
Cherrapunjee	Northeast India	Meghalaya	Thunderstorm	25-04-17	25/1600 25/1800	25/1700 25/2000
Imphal	Northeast India	Manipur	Thunderstorm	25-04-17	25/1200 25/1655 25/2100	25/1355 25/1900 25/2400
Imphal	Northeast India	Manipur	Thunderstorm	26-04-17	26/0000 26/0755	26/0400 26/0810
Lengpui	Northeast India	Mizoram	Thunderstorm	25-04-17	25/1735	25/1900
Kailasahar	Northeast India	Tripura	Thunderstorm	25-04-17	25/1210	25/1300
Agartala	Northeast India	Tripura	Thunderstorm	25-04-17	25/2020	25/2210










Past 24 hours DWR Report:

Radar Station name	Date	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
Kolkata	26-04-17	0301 – 0701	NIL	NIL	NO SIGNIFICANT ECHO	NIL	NIL
		0711 – 0831	Single cell with maximum reflectivity of 53.5 dBz and maximum height of 09.1 Km at 0751 UTC.	NNE (181 km) Moving ESE-ly direction with a speed of 47 kmph	Isolated single cell developed at 0711 UTC in NNE at a distance of 181 km from Radar. Did not mature and dissipated at 0831 UTC in N at a distance of 164.6 km from Radar.	Thunderstorm	N/A
		0841 – 0941	NIL	NIL	NO SIGNIFICANT ECHO	NIL	NIL
		0952 – 1411	Single cell with maximum reflectivity of 68 dBz at 1221 UTC and maximum height of more than 18 km at 1101 UTC and 1231 UTC.	NNE (231 km) Moving ESE-ly direction with a speed of 32.5 kmph	Single cell seen at 0952 UTC in NNE at a distance of 231 km from Radar. Matured and moving towards ESE-ly and became beyond radar range at 1411 UTC.	Thunderstorm /Squall / Hail/Rain	
		1121 – 1621	Single cell with maximum reflectivity of 64 dBz at 1231 UTC and maximum height of more than 18 km at 1331 UTC	NNE (238.1km) Moving ESE -ly /SE-ly direction with a speed of 40 kmph	Single cell seen at 1121 UTC in NNE at a distance of 238.1 km from Radar. Matured and moving towards ESE-ly /SE-ly and became beyond radar range at 1621 UTC.	Thunderstorm /Squall / Hail/Rain	
		1641 – 2352	NIL	NIL	NO SIGNIFICANT ECHO	NIL	NIL
		0001 – 0302	NIL	NIL	NO SIGNIFICANT ECHO	NIL	NIL
Machilipatnam	26-04-17	0551 to 0741	Isolated single cell with average height of 9 km with maximum reflectivity of 54.5 dBZ	SW (243KM) stationary	Cells started forming at 0551UTC at SW (243km) from radar. Maximum reflectivity during 0601 to0721 and died down at 0741UTC	Possibility of Thunder storm with Rain and winds.	Prakasam District
		0811 to 1131	Isolated Multiple cells average height of 10 km with maximum reflectivity of 62.5dBZ	SW(198KM) and moving SW ly direction with average speed of 20 kmph	Cells started forming at 0811UTC at SW (198km) from radar. Maximum reflectivity during 0821 to 1121 and died down at 1131 UTC	Possibility of Thunder storm hail with moderate winds.	Nellore District
		0901 to 1101	Isolated single cell average height of 8.3 km with maximum reflectivity of 55.5dBZ	NE(205KM) stationary	Cells started forming at 0901UTC at NE (205km) from radar. Maximum reflectivity during 0911 to 1051 and died down at 1101 UTC	Possibility of Thunder storm with Rain and moderate winds.	Visakhapatnam District

Radar Station name	Date	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
Hyderabad	26-04-17	25/0300 – 26/0300	Isolated cells with an average height of 9 Km with a max reflectivity of 46 dBZ	SE (180 Kms) moving in S-ly Direction at a speed of 6 Kmph.	Cells started forming at 1302 UTC at SE (180 Kms) from radar, Matured a bit in size. Max reflectivity was between 1312 and 1322 UTC and dissipated at 1330 UTC	Light Thunderstorm with or without rain	Not known.
Nagpur	26-04-17	25/0300 – 26/0300	NIL	NIL	NIL	NIL	NIL
Lucknow	26-04-17	25/0300 – 26/0300	NIL	NIL	NIL	NIL	NIL
Patna	26-04-17	25/0300 – 26/0300	NIL	NIL	NIL	NIL	NIL
Jaipur	26-04-17	25/0300 – 26/0300	Multiple cell average height of 7 km maximum reflectivity 55 dBZ	NE & EAST wards at speed direction 45m km/hr	Cells started forming 0730 UTC South & south west of Jaipur and multiple cells was observed and maximum reflectivity during 1430-1600 UTC and died down at 1930 UTC.	TSRA was reported at few places	Sikar,Jaipur,Tonk,Dausa,Bharatpur,Bhilwara,Sawaimadhopur,Churu, Alwar

Radars Station name	Date	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
Agartala	26-04-17	250400 - 251025	Multiple Cells arranged as a chain with maximum reflectivity 42 dBZ (at 0610 UTC over Dhalai district of Tripura)	Formed 120 km NW of DWR AGT at 0400 UTC of 25.04.17 and moving SE-wards at around 45 kmph	The system dissipated at 1025 UTC of 25.04.17 over Mizoram & Myanmar	TS with rain	North, Unakoti, Dhalai, Khowai districts of Tripura
		250740 - 260300	Multiple Cells continuously formed one after another over same area with Maximum Height 14 km and maximum reflectivity 51 dBZ (at 1150 UTC over Southern parts of Assam)	Started Forming 170 km NE of DWR AGT since 0740 UTC of 25.04.17 and moving ESE-wards at around 50 kmph	At 0300 UTC of 26.04.17, some cells still persist over SE parts of Meghalaya with max height <12km and reflectivity <40dBZ	TS with rain	East Khasi Hills District of Meghalaya, Cachar District of Assam
		250820 - 251510	Multiple Cells with Maximum Height 10 km and maximum reflectivity 42 dBZ (at 1030 UTC over North Tripura District)	Formed 60 km NE of DWR AGT at 0820 UTC of 25.04.17 and moved ESE-wards at around 55 kmph	The cell dissipated at 1510 UTC of 25.04.17 over Mizoram	TS with rain	North, Unakoti, Dhalai districts of Tripura
		251000 - 252330	Multiple Cells with Maximum Height 16 km and maximum reflectivity 47 dBZ (at 1410 UTC over Bangladesh-180KM WNW of DWR AGT)	Formed 230 km WNW of DWR AGT at 1000 UTC of 25.04.17 and moved ESE-wards at around 50 kmph	The cells dissipated at 2330 UTC of 25.04.17 over Myanmar	TS with rain	All Districts of Tripura, Mamit district of Mizoram

∞	haze
☁	smoke
☄	dust or sand storm
☁	fog
☂	drizzle
•	rain
❄	snow
☂	showers
⚡	hail
⚡	thunderstorm
Weather Symbols	

		
+ thunderstorm	+ heavy thunderstorm	sandstorm or dust storm
		
squall	hail shower	tropical storm
		
+ tornado	+ lightning	+ hurricane

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