

1. CURRENT SYNOPTIC SITUATION:

NWFC INFERENCE (0300UTC of the Day):

- ♦ A cyclonic circulation between 2.1 km & 4.5 km above mean sea level lies over northern parts of Odisha & neighbourhood.
- ♦ The remnant Western Disturbance as a trough in mid & upper tropospheric westerlies now runs aloft the above cyclonic circulation with its axis at 5.8 km above mean sea level from east Arunachal Pradesh to interior Odisha across west Assam and Gangetic West Bengal.
- ♦ The Western Disturbance as a trough in mid & upper tropospheric westerlies now runs roughly along Long 52°E to the north of Lat 28°N.
- ♦ The cyclonic circulation extending upto 1.5 km above mean sea level over north Chhattisgarh and neighbourhood persists.
- ♦ The trough extending upto 1.5 km above mean sea level from cyclonic circulation over north Chhattisgarh & neighbourhood now runs upto south Interior Karnataka across Vidarbha, Marathawada and North Interior Karnataka.
- ♦ The cyclonic circulation over Comorin area & neighbourhood now lies over Lakshadweep area & neighbourhood and extends upto 1.5 km above mean sea level.
- ◆ The cyclonic circulation over East Bangladesh & neighbourhood at 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:

Cell No.	Date/Time (UTC)	Area/ Location	Minimum CTBT (Minus °C)	Movement/ Remarks
1	020300	North Kerala	57	

Western Disturbance (WD):

Scattered multi-layered clouds were seen over East Iran, North Afghanistan, Pakistan and over the area between Lat 37.0N to 44.0N Long 68.0°E to 90.0°E in association with WD over the area

Clouds description within India:

Scattered low/medium clouds with embedded moderate to intense convection seen over North Kerala and South Interior Karnataka. Broken low/medium clouds with embedded isolated weak to moderate convection seen over East Odisha, Southeast Bihar, East Jharkhand, Gangetic West Bengal, Sub-Himalayan West Bengal, Sikkim and East Meghalaya. Isolated to scattered low/medium clouds with weak to moderate convection seen over rest Karnataka, Rayalaseema and Andhra Pradesh. Isolated low/medium clouds with embedded weak to moderate convection seen over West Gujarat & West Rajasthan. Isolated low/medium clouds with embedded isolated weak convection seen over extreme north Jammu & Kashmir. Scattered low/medium clouds seen over rest Jammu & Kashmir, Assam, Arunachal Pradesh, Tripura, Nagaland, Manipur and Mizoram.

Arabian Sea:

Scattered low/medium clouds with embedded isolated weak convection seen over Southeast Arabian Sea.

Bay of Bengal & Andaman Sea:

Scattered low/medium clouds with embedded moderate to intense convection seen over Southeast Bay. Scattered low/medium clouds seen over Andaman Sea and Bay Islands south of Lat. 10.0°N.

RADAR and RAPID RGB Observation:

Moderate isolated echoes (dBZ around 50 and height around 12km) were seen on DWR Hyderabad domain at around 1230 IST.

RAPID RGB RAPID RGB Satellite imagery at 1130IST indicates significant convection over South Telangana adjoining Andhra Pradesh.

2. NWP MODEL GUIDANCE:

NCMRWF (NCUM forecast based on 00UTC the day):

1. Weather Systems:

Low level CYCIRs, Troughs:

12 UTC of Day 0-1: Trough at 700 hPa over eastern UP in Day-0, shifting SE-wards to over Head Bay of Bengal in Day-1. In Day-2&3 it can be seen as a weak CYCIR over Head Bay of Bengal.

Confluence & Wind Discontinuity regions:

12 UTC of Day 0-4: at 925 hPa S-N wind discontinuity over interior peninsula extending SW-NE over Chhattisgarh, Jharkhand and WB region.

Synoptic Systems:

12 UTC of Day 0-2: At 500 hPa westerly trough over WB and Bangladesh

2. Location of jet and jet core (>60kt) at 500hPa:

12 UTC of Day 0-5: -----

3. Convergence at 850 hPa:

Day/Index: Subdivisions with Lower Level Convergence > 15 x 10^-5 /s

Day0: East_RJ, Madhya_Maharashtra, Coastal_AP, NI_Karnataka, SI_Karnataka,

Day1: Jharkhand, West_UP, West_MP, East_MP, Madhya_Maharashtra, Marathwada, Vidarbha, Chhattisgarh, NI_Karnataka, SI_Karnataka,

Day2: Jharkhand, Jammu_Kashmir, Odisha, Madhya_Maharashtra, Marathwada, Chhattisgarh, TN_Puducherry, NI_Karnataka, SI_Karnataka, Kerala,

Day3: Jharkhand, Odisha, West_MP, Madhya_Maharashtra, Vidarbha, Chhattisgarh, TN_Puducherry, NI_Karnataka, SI_Karnataka, Kerala,

Day4: Jharkhand, Hry_Chd_Delhi, Odisha, West_MP, East_MP, Madhya_Maharashtra, Marathwada, Vidarbha, Chhattisgarh, TN_Puducherry, SI_Karnataka, Kerala

4. Low level Vorticity:-Positive Vorticity:

Day/Index: Subdivisions with Lower Level Vorticity > 15 x 10^-5/s

Day0: Coastal_AP,

Day1: Chhattisgarh,

Day2: Assam_Meghalaya, East_UP, Jammu_Kashmir, Odisha, Madhya_Maharashtra,

Day3: Assam_Meghalaya, NE_NMMT, Bihar, Uttarakhand, Himachal_Pradesh, Madhya_Maharashtra,

Day4: Arunachal_Pradesh, NE_NMMT, Jharkhand, Bihar, Hry_Chd_Delhi, Himachal_Pradesh, Madhya_Maharashtra.

5. Showalter Index: -3 to -4[Very unstable]:

Day/Index: Subdivisions with Showalter Index < -4

Day0: Arunachal_Pradesh, Assam_Meghalaya, Sub_Himalayan_WB, Gangetic_WB, Uttarakhand, Himachal_Pradesh, Jammu_Kashmir, Odisha, Coastal_AP, Rayalseema, TN_Puducherry, SI_Karnataka, Kerala,

Day1: Arunachal_Pradesh, Assam_Meghalaya, NE_NMMT, Sub_Himalayan_WB, Uttarakhand, Hry_Chd_Delhi, Punjab, Himachal_Pradesh, Jammu_Kashmir, Odisha, Chhattisgarh, Coastal_AP, Telangana, TN_Puducherry, Kerala,

Day2: Arunachal_Pradesh, NE_NMMT, Sub_Himalayan_WB, Gangetic_WB, Uttarakhand, Jammu_Kashmir, Odisha, Madhya_Maharashtra, Vidarbha, Chhattisgarh, Coastal_AP, TN_Puducherry, Sl_Karnataka, Kerala,

- Day3: Arunachal_Pradesh, Assam_Meghalaya, NE_NMMT, Sub_Himalayan_WB, Gangetic_WB, Jharkhand, Bihar, Uttarakhand, Himachal_Pradesh, Jammu_Kashmir, Odisha, Konkan_Goa, Madhya_Maharashtra, Coastal_AP, Coastal_Karnataka, NI_Karnataka, SI_Karnataka, Kerala,
- Day4: Arunachal_Pradesh, NE_NMMT, Sub_Himalayan_WB, Gangetic_WB, Jharkhand, Bihar, East_UP, Uttarakhand, Jammu_Kashmir, Odisha, TN_Puducherry, Coastal_Karnataka, SI_Karnataka, Kerala

6. Spatial distribution of TTI: TTI >50 [Scattered Thunderstorms few severe]:

Day/Index: Subdivision with Total Totals Index > 52

- Day0: Arunachal_Pradesh, Assam_Meghalaya, NE_NMMT, Sub_Himalayan_WB, Gangetic_WB, Jharkhand, Bihar, Uttarakhand, Punjab, Himachal_Pradesh, Jammu_Kashmir, Odisha, Chhattisgarh, Coastal_AP, Telangana,
- Day1: Arunachal_Pradesh, Assam_Meghalaya, NE_NMMT, Sub_Himalayan_WB, East_UP, West_UP, Uttarakhand, Hry_Chd_Delhi, Punjab, Himachal_Pradesh, Jammu_Kashmir, West_RJ, Odisha, Vidarbha, Chhattisgarh, Coastal_AP, Telangana,
- Day2: Arunachal_Pradesh, NE_NMMT, Sub_Himalayan_WB, Gangetic_WB, Jharkhand, Bihar, East_UP, Uttarakhand, Punjab, Himachal_Pradesh, Jammu_Kashmir, Odisha, East_MP, Guj_Reg, Konkan_Goa, Madhya_Maharashtra, Marathwada, Vidarbha, Chhattisgarh, Coastal_AP, Telangana,
- Day3: Arunachal_Pradesh, Assam_Meghalaya, Sub_Himalayan_WB, Gangetic_WB, Jharkhand, Bihar, Uttarakhand, Hry_Chd_Delhi, Punjab, Himachal_Pradesh, Jammu_Kashmir, West_RJ, Odisha, Konkan_Goa, Madhya_Maharashtra, Vidarbha, Chhattisgarh, Coastal_AP, NI_Karnataka,
- Day4: Arunachal_Pradesh, NE_NMMT, Sub_Himalayan_WB, Gangetic_WB, Jharkhand, Bihar, East_UP, West_UP, Uttarakhand, Hry_Chd_Delhi, Punjab, Himachal_Pradesh, Jammu_Kashmir, West_RJ, East_RJ, Odisha, West_MP, East_MP, Guj_Reg, Saurashtra_Kutch, Konkan_Goa, Madhya_Maharashtra, Marathwada, Vidarbha, Chhattisgarh, Telangana, NI_Karnataka

7. K-Index :> 35[Very Unstable thunderstorm likely]:

Day/Index: Subdivisions with K Index > 40

- Day0: Arunachal_Pradesh, Sub_Himalayan_WB, Uttarakhand, Himachal_Pradesh, Jammu_Kashmir, Odisha, Rayalseema, TN_Puducherry, SI_Karnataka, Kerala,
- Day1: Arunachal_Pradesh, Sub_Himalayan_WB, West_UP, Uttarakhand, Hry_Chd_Delhi, Himachal_Pradesh, Jammu_Kashmir, Odisha, Coastal AP, Telangana, TN Puducherry, Coastal Karnataka, SI Karnataka,
- Day2: Arunachal_Pradesh, Sub_Himalayan_WB, Uttarakhand, Jammu_Kashmir, Odisha, Vidarbha, Chhattisgarh, Coastal_AP, Telangana, TN_Puducherry, Coastal_Karnataka, NI_Karnataka, SI_Karnataka,
- Day3: Arunachal_Pradesh, Sub_Himalayan_WB, Gangetic_WB, Jharkhand, Punjab, Jammu_Kashmir, Odisha, Chhattisgarh, Coastal_AP, Coastal_Karnataka, Sl_Karnataka,

Day4: Arunachal_Pradesh, NE_NMMT, Sub_Himalayan_WB, Gangetic_WB, Jharkhand, Uttarakhand, Odisha, Vidarbha, Chhattisgarh,

Coastal_AP, TN_Puducherry, Coastal_Karnataka, SI_Karnataka.

8. Rainfall and thunder storm activity:

Day/Index: Subdivisions with Precipitation > 2 cm

Day1: Jammu_Kashmir,

Day2: Jammu_Kashmir,

Day3: Andaman_Nicobar,

Day4: Arunachal Pradesh, Assam Meghalaya, Sub Himalayan WB, Gangetic WB, Odisha, Andaman Nicobar,

Day5: Arunachal_Pradesh, Assam_Meghalaya, Sub_Himalayan_WB, Jharkhand, Bihar, Marathwada, NI_Karnataka.

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

1. Synoptic Systems:

The analysis based on 00 UTC indicates a cyclonic circulation in lower troposphere over Northern Orissa and adjoining areas. The forecast shows it will persist for next 48 hour and become less marked thereafter. The analysis also shows a cyclonic circulation over Chhattisgarh and adjoining Madhya Pradesh region moving north eastward in next 48 hour forecast becoming less marked thereafter. A trough is extending from this cyclonic circulation up to south interior Karnataka across Vidarbha, Marathawada and north Karnataka. The analysis shows a feeble cyclonic circulation over North West Rajasthan and adjoining areas in lower troposphere. Forecast shows it will persist for next 48 hours.

2. Location of Jet and Jet Core (>60kt) at 500hPa:

Although the presence of strong westerlies is found over east and northeast India but no jet core over the Indian region for the next 3 days.

3. Low Level Vorticity {850hPa Positive Vorticity (>12 x 10⁻¹/s)}:

Mostly along the foothills of Himalaya from J&K to NE states, west and east Uttar Pradesh and adjoining area up to Bihar Jharkhand and adjoining GWB on all 3 days. Also found in the vicinity of the trough extending from Chhattisgarh and adjoining Madhya Pradesh up to South Interior Karnataka across Vidarbha and Marathawada.

4. Spatial distribution of T-storm Initiation Index, Lifted Index, Total Index, CAPE, CIN and Sweat Index [High potential for thunderstorm]:

T-Storm Initiation Index (> 3): Higher than a value 3 over coastal areas of Gangetic West Bengal and Kolkata, Orissa, Bihar, Jharkhand, Andhra Pradesh, Telangana, Rayalaseema, Kerala, Karnataka, Tamil Nadu, parts of Gujarat, coastal Maharashtra, Konkan & Goa, North and East Madhya Pradesh; East Vidarbha adjoining Chhattisgarh, coastal areas along the east coast and west coast, extreme south peninsular India, Tripura and adjoining area, parts of Uttar Pradesh, Rajasthan, J&K during all 3 days; over parts of Punjab and Himachal Pradesh on day 1;

Maximum value of the index is seen over parts of Gujarat, coastal areas along the west coast, Konkan and Goa, coastal Maharashtra, Orissa, East Vidarbha, Chhattisgarh, coastal Andhra Pradesh, Telangana and adjoining area during all 3 days; over parts Orissa and Karnataka region on day 2 and 3.

Lifted Index (< -2): The threshold value of the index is below -2 over parts of Gujarat, Saurashtra region, coastal Andhra Pradesh, coastal Karnataka, Telangana, Rayalaseema, Konkan and Goa, Kerala, Tamil Nadu, southern part of west coast, coastal areas along the east coast, Orissa, East Madhya Pradesh, Chhattisgarh, Vidarbha, GWB, Konkan and Goa, Bihar, Jharkhand, East Uttar Pradesh, NE states on all 3 days; over parts of J&K on day 1; over parts of Punjab Himachal Pradesh and Uttarakhand on day 1 and 2; over parts of East Uttar Pradesh on day 1; maximum negative value of the index less than -8 can be seen over parts of GWB, coastal Orissa and Andhra Pradesh during all 3 days.

Total Total Index (> 50): Above threshold value is seen over most of the parts of India except NE states, extreme southern peninsular India and coastal areas along the east coast and southern part of west coast during all 3 days.

Sweat Index (> 300): Higher than threshold value of index over Parts of J&K, NE states, GWB, coastal areas along the east coast and west coast, Gujarat, Himachal Pradesh, Uttarakhand, Foothills of Himalaya, Uttar Pradesh, Orissa, Andhra Pradesh, Kerala, Tamil Nadu, Konkan and Goa, Costal Maharashtra, Karnataka, Bihar and Jharkhand, Chhattisgarh, Vidarbha, Rajasthan, East Madhya Pradesh during all three days; over parts of Punjab, Haryana and West Uttar Pradesh on day 1 and 2; Maximum value of the index greater than 700 is seen over parts of Orissa, Telangana and some parts of Gujarat on day 1.

CAPE (> 1000): Mostly in areas of southern peninsular India, along west coast and east coast and coastal areas of GWB, Orissa, Andhra Pradesh, Telangana, Rayalaseema, Kerala, Tamilnadu, Karnataka, Konkan and Goa, Gujarat and coastal Maharashtra, Vidarbha, Jharkhand and Chhattisgarh during all 3 days; over parts of East Uttar Pradesh on day 1; over parts of Madhya Pradesh from day 2 onwards; Maximum value of the index greater than 2500 is seen mostly over parts of Andhra Pradesh, coastal Tamil Nadu and Telangana on day 1.

CIN (50-150): Mostly over parts of Gujarat, South West Rajasthan, along east coast along west coast from Saurashtra & Kutch to coastal Karnataka and Kerala, Konkan and Goa, coastal Orissa, Telangana, Rayalaseema, Vidarbha, Andhra Pradesh and GWB, NE states, Bihar, Jharkhand, J&K, Himachal Pradesh, Uttarakhand, East Uttar Pradesh and adjoining Madhya Pradesh region during all 3 days. Over parts of Punjab, Haryana, Delhi, Himachal Pradesh, North Madhya Pradesh, Uttarakhand West Uttar Pradesh on day 1 and 2...

5. Rainfall Activity:

10-40 mm Rainfall; over parts of Arunachal Pradesh, Andhra Pradesh and Foothills of Himalaya during all 3 days; over parts of J&K, Kerala, Tamil Nadu and Karnataka on day 1 and 2; over parts of Himachal Pradesh and Orissa on day 2 and 3; over parts of Sikkim on day 3.

Up to 10 mm rainfall: Over NE states, Sikkim, Foothills of Himalaya, J&K, Uttarakhand, Punjab, Himachal Pradesh, Orissa, Chhattisgarh, Madhya Pradesh, GWB, Andhra Pradesh, Kerala, Karnataka, Tamil Nadu, Telangana and Rayalaseema on all 3 days; over parts of Uttar Pradesh on day 2 and 3, over parts of Bihar, Jharkhand and SHWB on day 1 and 3; over some parts of Rajasthan on day 2.

3. IOP ADVISORY FOR 24 and 48Hrs:

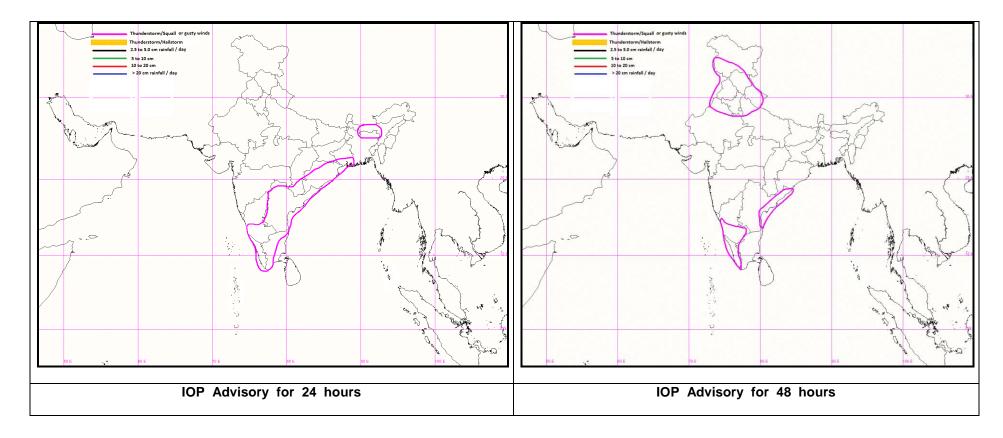
Summary and Conclusions:

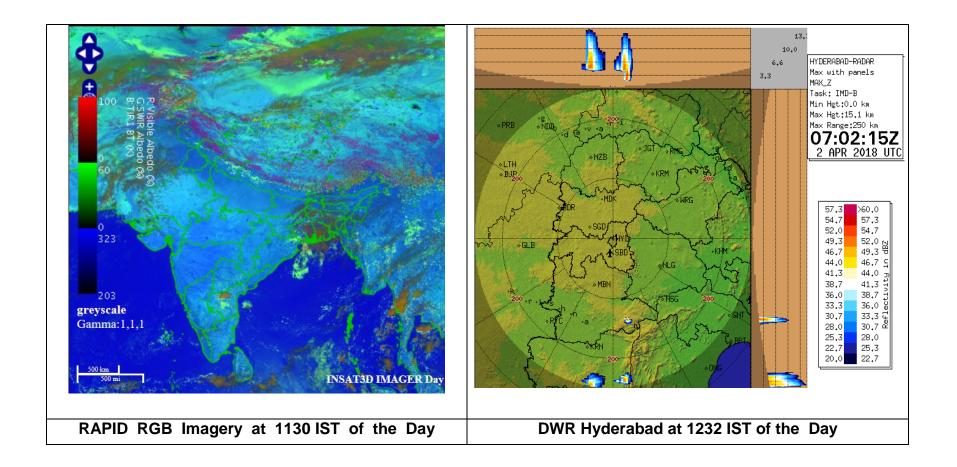
Day-1 & Day-2:

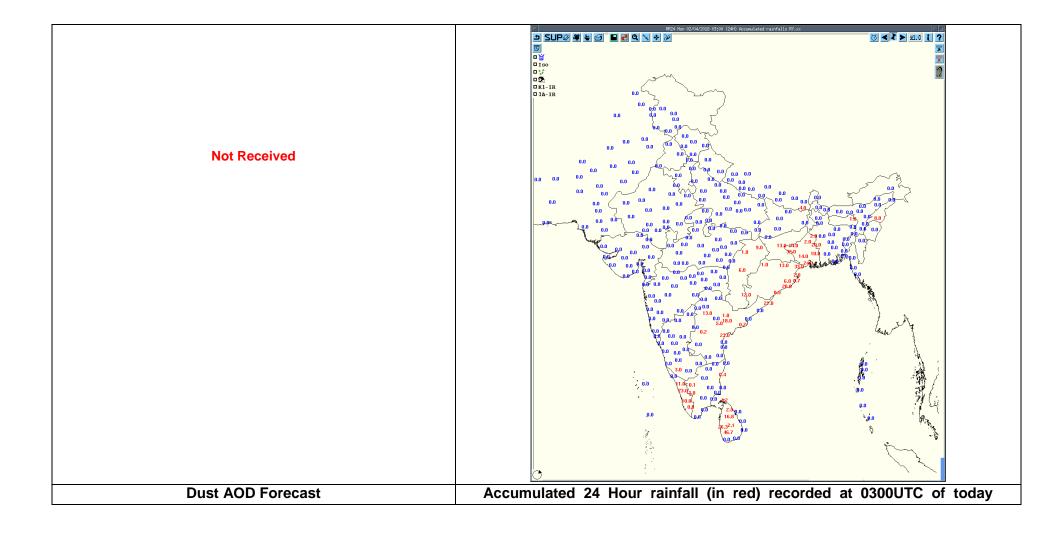
- Synoptic analysis indicates that the cyclonic circulation in the lower levels over north Chhattisgarh and neighbourhood persists from which a north-south trough in the lower levels, extends upto south Interior Karnataka. The anticyclone in the lower levels is pumping moisture to the east coast of India to the east of the trough. ECMWF and IMD GFS deterministic models indicate that in the middle levels, an anticyclone is situated over Madhya Maharashtra. The associated dry northerly flow into peninsular India will increase the probability of thunderstorms in the east and south peninsular India on day 1.
- On day 2, models, as well as synoptic analysis indicate that the Western disturbance, currently seen along Long. 52°E will start affecting Indian region. There is some moisture flow (mainly at 850 hPa and above) from the anticyclone over the Arabian Sea. Associated thunderstorm activity is likely to start over the Northwest Himalayan hill regions on day 2, and Thunderstorm/Duststorm will start over Northwest Indian plain regions. The northern end of the trough is also likely to move eastwards and thunderstorm activity will be confined to over extreme south peninsula and coastal Andhra Pradesh on day 2.

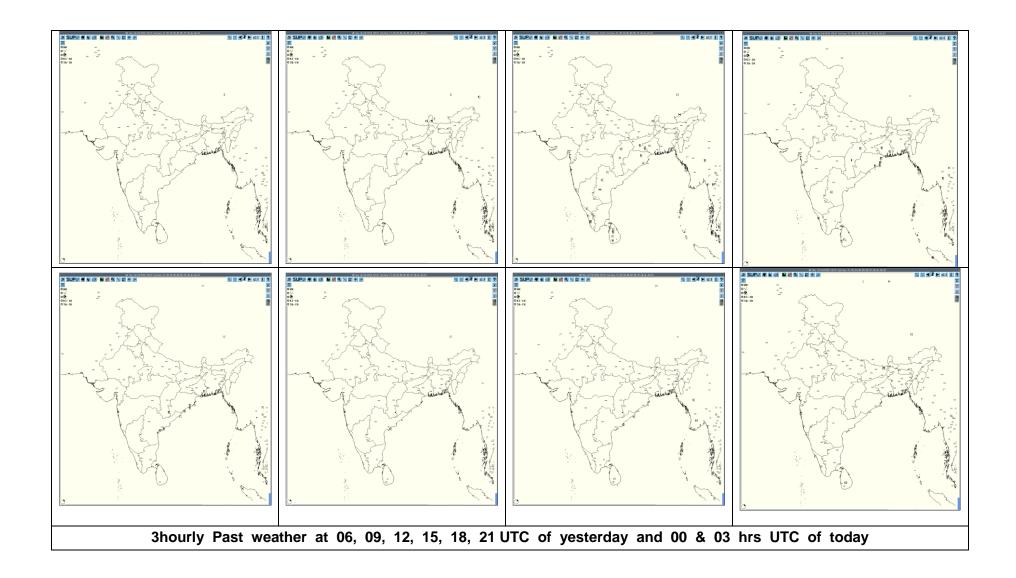
24 hour Advisory for IOP:	48 hour Advisory for IOP:
Rainfall: Nil	Rainfall: Nil
Thunderstorm with associated phenomenon: Kerala, Interior Tamil Nadu, Coastal Andhra Pradesh, Coastal Karnataka, South Interior Karnataka, Telengana, Rayalaseema, South Chhattisgarh, Odisha, Gangetic West Bengal West Assam and Meghalaya	Thunderstorm with associated phenomenon: Punjab, Haryana, Chandigarh, Delhi, West Uttar Pradesh, North Rajasthan Jammu and Kashmir, Himachal Pradesh, Uttarakhand Kerala, Coastal Andhra Pradesh, Coastal Karnataka, South Interior Karnataka

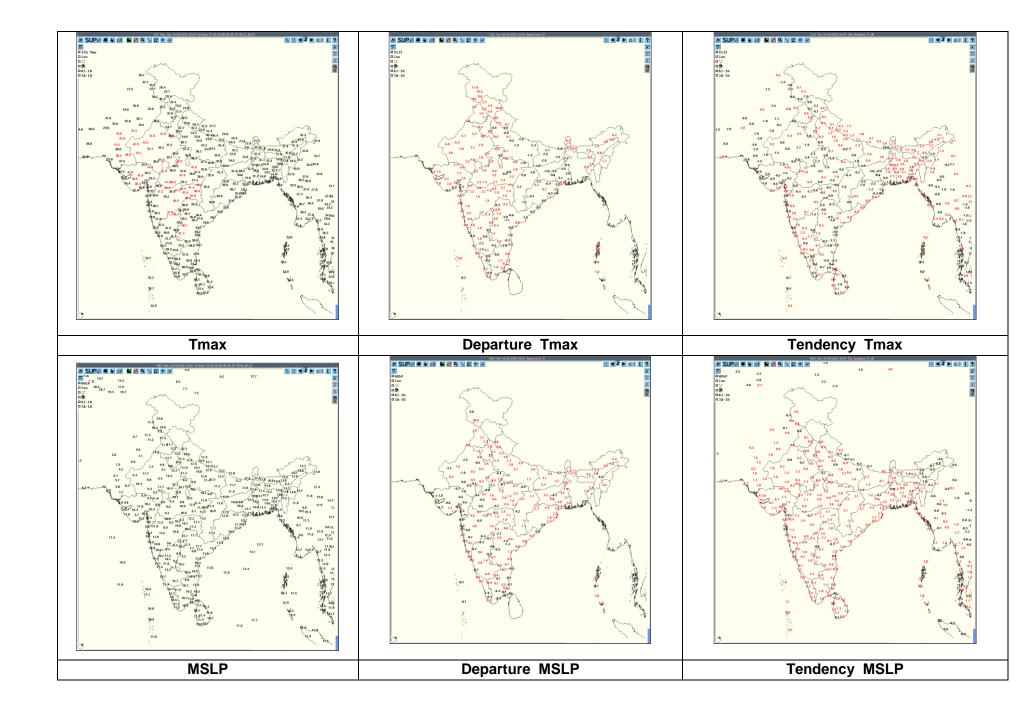
Graphical Presentation of Potential Areas for Severe Weather:

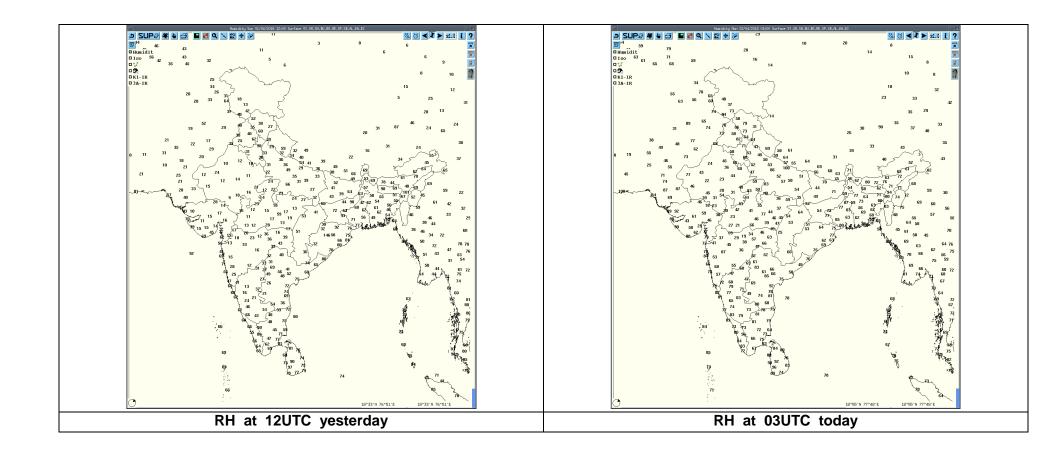












Past 24 hours DWR Report:

DWR Station Name	Date of Report	Time Interval of Observation (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	Associate d Severe Weather if any	Districts affected
Lucknow	02-04-18	010300-020300	Nil	Nil	Nil	Nil	Nil
Jaipur	02-04-18	010300-020300	Nil	Nil	Nil	Nil	Nil
Patiala	02-04-18	010300-020252	No echo	Nil	Nil	Nil	Nil
Visakhapatnam		010900	Isolated single cells formed NW- ly with max. Reflectivity of 47dBz with height of 9kms.	NW and 89 KM	Isolated Single cell formed at 0801UTC and start dissipating from 0831 UTC.	NIL	NIL
		011200	Isolated single cells formed NW ly with max. Reflectivity of 60dBz with height of 13kms.	93 KM and moving Ely	Isolated Single cells formed at 0901UTC and start developing	NIL	Visakhapatnam (AP)
		011500	Isolated single cells formed NW ly/ NE ly with max. Reflectivity of 57dBz with height of 12kms.	233kms, Moving SEly	Isolated Single cells formed at 0901UTC and started developing	NIL	-
		011800	Multiple strong cb cells from NW to NE out of which has max reflectivity 62dbz and height 14kms .	170kms , moving SE ly.	Forming since last observation.	-	-
		020000	Multiple strong cb cells with MAX reflectivity 62 dbz at NW ly with height 14kms.	100kms, moving SE ly.	Formed since last observation	Gusty winds with thundersto rms amid slight rain.	Visakhapatnam
		020300	Isolated cb cells with MAX reflectivity 52 dbz at SW and SE-ly with height 8kms.	240km	Formed since last observation	NIL	-

DWR Station Name	Date of Report	Time Interval of Observation (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	Associate d Severe Weather if any	Districts affected
Agartala	02-04-18	010300-020300	Meghalaya hills forming mltpl & 30 Kmph, E'ly. Me		Dissipated over Meghalaya hills(n ear SLC) at 011002Z	Not Known.	
Kolkata	02-04-18	010300-011010	NIL	NIL	NOSIG ECHO	NIL	NIL
	011011-011641		Isolated single cell, transformed into multi cell system with maximum reflectivity of 59.0 dBz at 11:11UTC and maximum height of 16.3 km at 11:11UTC	WEST (239.1 km) moving in NE-ward direction.	Isolated single cell formed in WEST at a distance of 239.1 km from Radar at 1001 UTC, Matured and dissipated at 1641 UTC in E at a distance 46.4 km from radar.	Thundersto rm /Squall/ Rain / Hail	N/A
		011642-022400	NIL	NIL	NO SIG ECHO	NIL	NIL
		020000-020300	NIL	NIL	NO SIG ECHO	NIL	NIL
Patna	02-04-18	010300-011202	NIL	N/A	N/A	N/A	N/A
		011202-011422	Multiple Cell Lat-24.42N Long-85.34E Maximum Reflectivity: 50 dBZ Echo Top: 14 KM	Range: 131.5 KM from DWR Patna in SSE direction Movement: Easterly	N/A	Thundersq uall	GAYA,NAWA DA
			NIL	N/A	N/A	N/A	N/A
		012140-012222	Single Cell Lat-26.8N Long-85.69E Maximum Reflectivity: 49.5 dBZ Echo Top: 10 KM	Range: 148 KM from DWR Patna in NNE direction Movement: Westerly	N/A	Thundersto rm	SITAMADHI
			NIL	N/A	N/A	N/A	N/A
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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/Sub Division	Weather Event (TS/Hail/Squall)	Date	Time of Commen cement (IST)	Time of end (IST)	
Barapani	Northeast India	Meghalaya	Thunderstorm	01-04-18	1110	1325	
Cherrapunjee	Northeast India	Meghalaya	Thunderstorm	01-04-18	1350	1440	
Shillong	Northeast India	Meghalaya	Thunderstorm	01-04-18	1050	1115	
Raipur	Central India	Chhattisgarh	Thunderstorm	01-04-18	1700	1920	
Ambikapur	Central India	Chhattisgarh	Thunderstorm	01-04-18	1745	2100	
Ambikapui	Central India	Ciliattisgairi	Hailstorm (Hail diameter: 0.10 to 0.15cm)	01-04-18	1820	1825	
Bilaspur	Central India	Chhattisgarh	Thunderstorm	01-04-18	1535	1830	
Gangtok	East India	Sikkim	Thunderstorm	01-04-18	1350	1430	
Alipore	East India	West Bengal(GWB)	Thunderstorm	01-04-18	1935	2305	
Alipore	East India	West Bengal(GWB)	Squall from NW with max speed 85kmph	01-04-18	1927	1928	
Dum Dum	East India	West Bengal(GWB)	Thunderstorm	01-04-18	1950	2335	
Diamond Harbour	East India	West Bengal(GWB)	Thunderstorm	01-04-18	1930	2230	
Haldia	East India	West Bengal(GWB)	Thunderstorm	01-04-18	1940	2255	
Digha	East India	West Bengal(GWB)	Thunderstorm	01-04-18	1850	2200	
Digha	East India	West Bengal(GWB)	Squall from NW with max speed 44kmph	01-04-18	1940	1941	
Asansol	East India	West Bengal(GWB)	Thunderstorm	01-04-18	1740	2200	
Bankura	East India	West Bengal(GWB)	Thunderstorm	01-04-18	1711	2050	
Sriniketan	East India	West Bengal(GWB)	Thunderstorm	01/02-04-18	At N	ight	
Gaya	East India	Bihar	Squall from SW with max speed 56kmph	01-04-18	1740	1742	
Ranchi	East India	Jharkhand	Thunderstorm	01-04-18	1410	1810	
Daltonganj	East India	Jharkhand	Thunderstorm	01-04-18	1530	1630	
Jamshedpur	East India	Jharkhand	Thunderstorm	01-04-18	1530	1920	
Jamshedpur	East India	Jharkhand	Squall from W with max. speed 100kmph	01-04-18	1615	1616	
Bhubaneswar	East India	Odisha	Thunderstorm	01/02-04-18	011940	020050	
Balasore	East India	Odisha	Thunderstorm	01-04-18	1830	2140	
Jharsuguda	East India	Odisha	Thunderstorm	01-04-18	1340	1445	
Jharsuguda	East India	Odisha	Squall from SW with max speed 55kmph	01-04-18	1442	1446	
Chandbali	East India	Odisha	Thunderstorm	01-04-18	1945	2020	
Paradeep	East India	Odisha	Thunderstorm	01-04-18	1955	2050	
Paradeep	East India	Odisha	Squall from NW with max. wind speed 56kmph	01-04-18	1934	1938	
Puri	East India	Odisha	Thunderstorm	2135-0010	012135	020010	

Gopalpur	East India	Odisha	Thunderstorm	01-04-18	1400	2200
Keonjhargarh	East India	Odisha	Thunderstorm	01-04-18	1610	1945

Media / Other Reports of Occurrence / Damage Reports (through RMC Kolkata):

Date of Report	Event	Report
01.04.2018	Thundersquall	Thunder squall reported occurred on 01.04.2018 evening in many areas of Kolkata and some other districts of GWB. Many Trees and electric poles uprooted, electricity supply disrupted, flights diverted. 5 children injured at Eco Park, Kolkata
		Thunder squalls also reported occurred in some places of Odisha state, trees uprooted, structure collapsed at Jajpur.
		(Source: (i) The Telegraph, Kolkata, 02.04.2018, p.13, (ii) New Indian Express, Bhubaneswar, 02.04.2018, p.6)

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 RANDHRA PRADESHID tool:

http://rAndhra Pradeshid.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

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

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

Satellite sounder based T- Phigram

http://satellite.imd.gov.in/mAndhra Pradesh skm2.html

WEATHER SYMBOLS:

