

Government of India Ministry of Earth Sciences India Meteorological Department



Press Release Date: 12<sup>th</sup> October, 2024 Time of Issue: 1230 hours IST

Subject:(i) The Well marked low pressure area over eastcentral Arabian sea is likely to move west-northwestwards and intensify into a Depression over central Arabian Sea by morning of 13<sup>th</sup> October.

(ii) Isolated heavy rainfall activity very likely to continue over South Interior Karnataka, Kerala & Mahe and Tamil Nadu during next 5-6 days; Coastal Andhra Pradesh & Yanam and Rayalaseema during 14<sup>th</sup> -16<sup>th</sup> October, 2024.

## Realised weather during past 24 hours till 0830 hours IST of today (Annexure I)

**Heavy to very Heavy rainfall** at isolated places over Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, North Interior Karnataka; **Heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram & Tripura, East Madhya Pradesh, Assam & Meghalaya, West Madhya Pradesh, Madhya Maharashtra, Marathwada, Arunachal Pradesh, South Interior Karnataka.

#### **On further Withdrawal of Southwest Monsoon**

- ✓ The line of withdrawal of Southwest Monsoon continues to pass through 29°N/86°E, Darbhanga, Hazaribagh, Pendra Road, Narsinghpur, Khargone, Nandurbar, Navsari and 20°N/70°E.
- ✓ Conditions are favourable for further withdrawal of Southwest Monsoon from remaining parts of Gujarat, Madhya Pradesh, Jharkhand, Bihar, some more parts of Maharashtra, Chhattisgarh and some parts of Odisha, West Bengal & Sikkim during next 2 days.

#### Weather Systems:

- ✓ Yesterday's Well Marked Low pressure area over eastcentral Arabian Sea off Maharashtra coast lay over eastcentral Arabian Sea at 0830 hours IST of today, the 12<sup>th</sup> October 2024. It is likely to move west-northwestwards and intensify into a Depression over central Arabian Sea by morning of 13<sup>th</sup> October.
- A cyclonic circulation lay over southeast Bay of Bengal & adjoining equatorial Indian Ocean extended up to middle tropospheric levels. Under its influence, a low pressure area is likely to form over southwest Bay of Bengal around 14<sup>th</sup> October.
- ✓ An upper air cyclonic circulation over central parts of south Bay of Bengal lay over southwest Bay of Bengal in lower tropospheric levels.

#### Forecast & Warnings (upto 7 days) (Annexure II & III):

#### **South Peninsular India**

 Fairly widespread to widespread light to moderate rainfall very likely over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep, South Interior Karnataka; Scattered to Fairly widespread light to moderate rainfall over Coastal & North Interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema; Isolated to Scattered light to moderate rainfall very likely over Telangana during the week.

- Isolated very heavy rainfall very likely over Tamil Nadu, Puducherry & Karaikal during 14<sup>th</sup>-16<sup>th</sup> October.
- Isolated heavy rainfall very likely over Kerala & Mahe during the week; Tamil Nadu, Puducherry & Karaikal on 12<sup>th</sup>, 13<sup>th</sup> & 17<sup>th</sup>; Coastal Andhra Pradesh & Yanam, Rayalaseema during 14<sup>th</sup>-17<sup>th</sup>; South Interior Karnataka during 12<sup>th</sup>-16<sup>th</sup> October.

#### Northeast & East India

- ✓ Fairly widespread to widespread light to moderate rainfall very likely over Andaman & Nicobar Islands; Fairly widespread to widespread light to moderate rainfall very likely over Arunachal Pradesh during next 2 days & Scattered to Fairly widespread light to moderate rainfall over Assam & Meghalaya & Nagaland, Manipur, Mizoram & Tripura during 2 days; Isolated to Scattered light to moderate rainfall very likely over same region during subsequent 5 days.
- ✓ Isolated heavy rainfall very likely over Arunachal Pradesh, Assam & Andaman & Nicobar Islands on 12<sup>th</sup> October.

## West & Central India

- ✓ Scattered to Fairly widespread light to moderate rainfall over Gujarat State during 3 days; Isolated to Scattered light to moderate rainfall very likely over Konkan & Goa, Madhya Maharashtra, Marathwada, East Madhya Pradesh, Vidarbha, Chhattisgarh during the week; West Madhya Pradesh during next 5 days.
- Isolated heavy rainfall very likely over Madhya Maharashtra on 12<sup>th</sup>; Gujarat State on 12<sup>th</sup> & 13<sup>th</sup>; West Madhya Pradesh, Vidarbha on 12<sup>th</sup> October.

#### **Northwest India:**

✓ No significant rainfall likely over these regions during the week.

#### **Fishermen warning**

✓ Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail over Maldives, Lakshadweep Comorin areas, southeast Arabian sea and many parts of southwest Arabian sea, along and off Somalia coast, parts of westcentral Arabian sea, most parts of eastcentral Arabian sea, along and off Kerala, Karnataka, north Gujarat coasts, Gulf of Mannar, along and off south Sri Lanka coast, most parts of southwest Bay of Bengal and adjoining parts of southeast Bay of Bengal. Fishermen are advised not to venture into these areas during the period.

#### Southwest Monsoon withdrawal Map (ANNEXURE IV)

# For more details, kindly refer: https://mausam.imd.gov.in/responsive/all\_india\_forcast\_bulletin.php For District wise warnings refer: https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php For Fishermen warnings, kindly refer: https://rsmcnewdelhi.imd.gov.in/uploads/archive/51/51 bdf575 GRAPHIC.png

#### **ANNEXURE I**

# Significant Rainfall recorded during past 24 hours till 0830 hours IST of today 12.10.2024 (in cm):

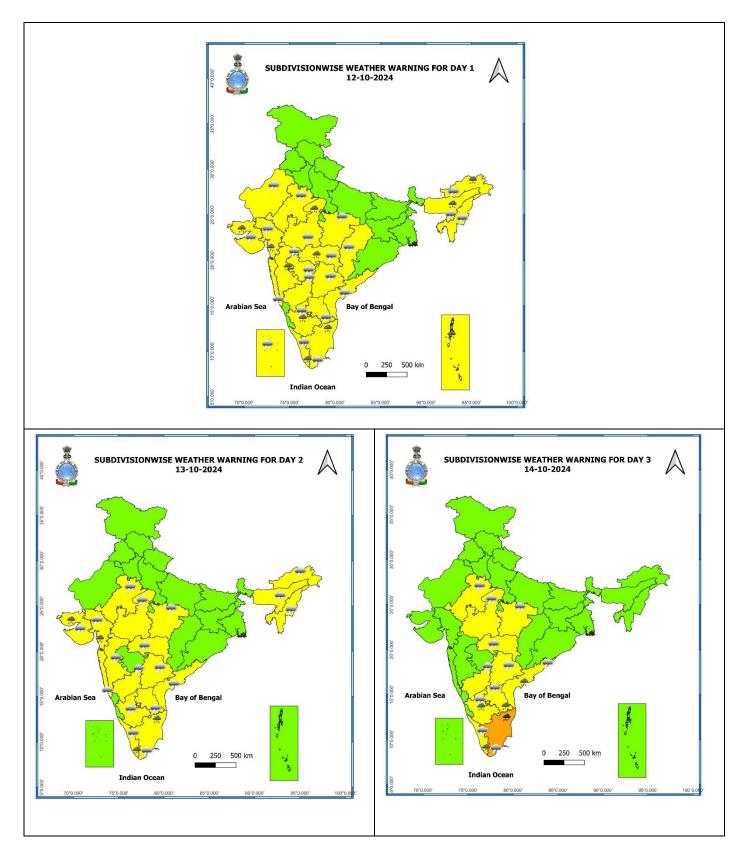
- Kerala & Mahe: Vadakara (dist Kozhikode) 18, Alapuzha (dist Alapuzha) 16, Poonjar(dist Thiruvananthapuram) 11, Trivandrum (dist 11, Airport Chakka(dist Kottayam) Thiruvananthapuram) Mancompu (dist Alapuzha) 11, Mahe (dist 11, Mahe) 10, Peringalkuthu(dist Thrissur) 10, Neyyattinkara (dist Thiruvananthapuram) 10, Varkala (dist Thiruvananthapuram) 9, Kanjirapuzha(dist Palakkad) 9, Perumkadavila (dist Thiruvananthapuram) 8, Anakayam(dist Malappuram) 7, Thiruvananthapuram (dist Thiruvananthapuram) 7, Kollam (dist Kollam) 7, Kanjirappally (dist Kottayam) 7,
- North Interior Karnataka: Haveri Pto (dist Haveri) 17, Ilkal (dist Bagalkote) 7, Kudalasangama (dist Bagalkote) 7,
- Tamil Nadu, Puducherry & Karaikal: Karaikudi (dist Sivagangai) 15, Tiruchirappalli Airport (dist Thiruchirappalli) 13, Kurunthancode (dist Kanniyakumari) 10, Colachel (dist Kanniyakumari) 9, Neyyoor AWS (dist Kanniyakumari) 9, Erode (dist Erode) 8, Varattupallam (dist Erode) 7,
- South Interior Karnataka: Shivamogga Pto (dist Shivamogga) 10, Nagamangala (dist Mandya) 7, Hagaribommanahalli (dist Vijayanagara) 7,
- Nagaland, Manipur, Mizoram & Tripura: Kadamtala CWC (dist North Tripura) 9, Kailashahar Aero (dist Unakoti) 8, Kamalpur (dist Dhalai) 7, Dharmanagar/ Panisagar (dist North Tripura) 7,
- Seoni) 8, East Madhya Pradesh: Lakhnadon (dist Seoni) 8,
- Assam & Meghalaya: Silchar (dist Cachar) 8, Beki Mathungari (dist Barpeta) 8, Matijuri (dist Hailakandi) 7, Lala Arg (dist Hailakandi) 7, Sonari\_arg (dist Sibsagar) 7,
- West Madhya Pradesh: Pandhana (dist Khandwa) 7, Bhagwanpura (dist Khargone) 7,
- Madhya Maharashtra: Bhusawal (dist Jalgaon) 7,
- \* Marathwada: Soegaon (dist Chh. Sambhajinagar) 7,
- Arunachal Pradesh: Roing (dist Lower Dibang Valley) 7,

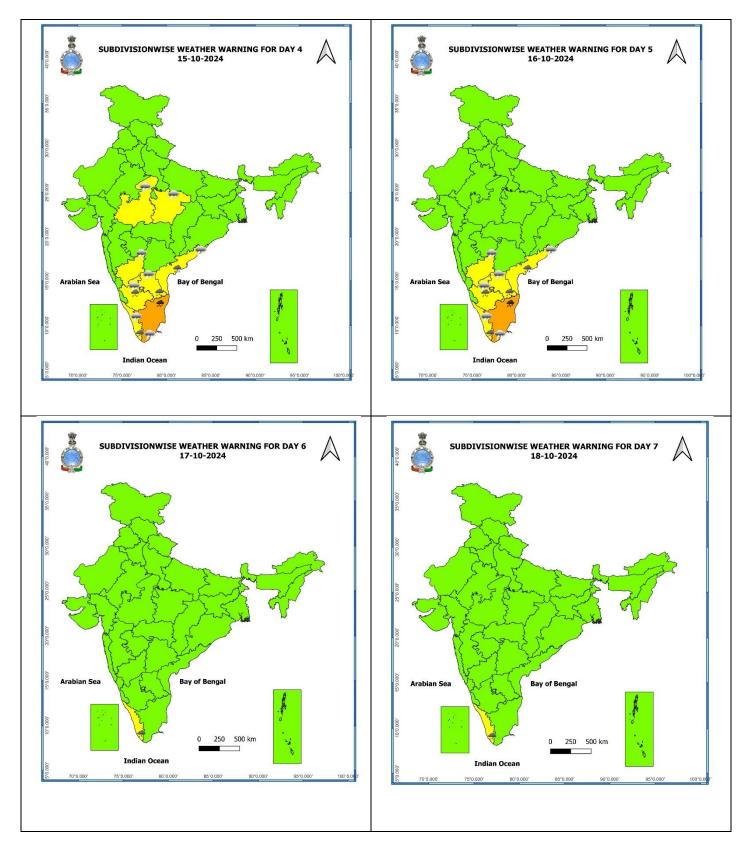
# **ANNEXURE II**

7 Days Rainfall Forecast								
S. No.	Subdivision	12-Oct	13-Oct	14-Oct	15-Oct	16-Oct	17-Oct	18-Oct
<b>5.</b> NO.		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	WS	WS	WS	FWS	FWS	FWS	FWS
2	ARUNACHAL PRADESH	WS	FWS	SCT	SCT	SCT	ISOL	ISOL
3	ASSAM & MEGHALAYA	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	ISOL						
6	GANGETIC WEST BENGAL	ISOL	ISOL	DRY	ISOL	ISOL	ISOL	SCT
7	ODISHA	ISOL						
8	JHARKHAND	ISOL	DRY	DRY	ISOL	ISOL	ISOL	ISOL
9	BIHAR	DRY	DRY	DRY	DRY	DRY	DRY	ISOL
10	EAST UTTAR PRADESH	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	DRY						
13	HARYANA CHANDIGARH & DELHI	DRY						
14	PUNJAB	DRY						
15	HIMACHAL PRADESH	DRY						
16	JAMMU & KASHMIR AND LADAKH	DRY	DRY	DRY	DRY	ISOL	ISOL	DRY
17	WEST RAJASTHAN	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	SCT	SCT	ISOL	ISOL	ISOL	DRY	DRY
20	EAST MADHYA PRADESH	ISOL						
21	GUJARAT REGION	FWS	FWS	SCT	ISOL	ISOL	ISOL	ISOL
22	SAURASHTRA & KUTCH	FWS	FWS	SCT	ISOL	ISOL	ISOL	DRY
23	KONKAN & GOA	SCT	SCT	ISOL	SCT	SCT	SCT	SCT
24	MADHYA MAHARASHTRA	SCT	ISOL	ISOL	ISOL	ISOL	SCT	SCT
25	MARATHAWADA	ISOL	ISOL	ISOL	ISOL	ISOL	SCT	SCT
26	VIDARBHA	FWS	SCT	ISOL	ISOL	ISOL	SCT	SCT
27	CHHATTISGARH	ISOL						
28	COASTAL ANDHRA PRADESH & YANAM	SCT	SCT	FWS	FWS	FWS	SCT	SCT
29	TELANGANA	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
30	RAYALASEEMA	ISOL	SCT	SCT	FWS	WS	FWS	SCT
31	TAMILNADU PUDUCHERRY & KARAIKAL	FWS	FWS	WS	WS	FWS	SCT	ISOL
32	COASTAL KARNATAKA	SCT	SCT	SCT	FWS	FWS	FWS	FWS
33	NORTH INTERIOR KARNATAKA	SCT	ISOL	SCT	SCT	FWS	SCT	FWS
34	SOUTH INTERIOR KARNATAKA	FWS	FWS	FWS	WS	WS	WS	SCT
35	KERALA & MAHE	WS						
36	LAKSHADWEEP	WS	WS	FWS	FWS	WS	WS	WS

• As the lead period increases forecast accuracy decreases.

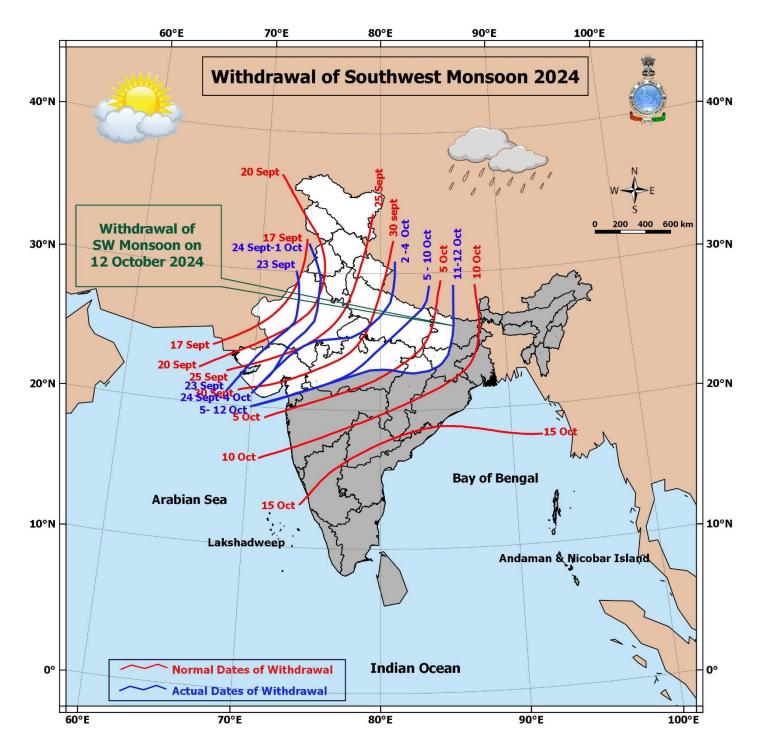
#### **ANNEXURE III**





- Action may be taken based on ORANGE AND RED COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

#### **ANNEXURE IV**



## Impact due to

✓ Isolated heavy to very heavy rainfall very likely over Tamil Nadu, Puducherry & Karaikal during 14<sup>th</sup>-16<sup>th</sup> October.

### **Impact Expected**

- ✓ Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- ✓ Occasional reduction in visibility due to heavy rainfall.
- ✓ Disruption of traffic in major cities and roadways due to water logging in roads leading to increased travel time.
- ✓ Minor damage to kutcha roads.
- ✓ Possibilities of damage to vulnerable structure.
- ✓ Localized Landslides/Mudslides/landslips/mud slips/land sinks/mud sinks.
- ✓ Damage to horticulture and standing crops in some areas due to inundation and wind.
- ✓ It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

# **Action Suggested**

- ✓ Judicious regulation of surface transports including railways and roadways.
- ✓ Check for traffic congestion on your route before leaving for your destination.
- ✓ Follow any traffic advisories that are issued in this regard.
- ✓ Avoid going to areas that face the water logging problems often.
- ✓ Avoid staying in vulnerable structure

# Agromet advisories for Heavy Rainfall likely over various parts of the country

- ✓ In **Tamil Nadu**, drain out excess water from rice nurseries and fields of rice, maize, pepper and newly planted turmeric. Provide support to banana plantations.
- ✓ Make necessary arrangements for draining out excess water from standing crop fields and fruit orchards to avoid water stagnation in West Madhya Pradesh, Vidarbha, Madhya Maharashtra, Gujarat region, Kerala, South Interior Karnataka, Arunachal Pradesh and Assam.
- $\checkmark$  Keep the harvested produce at safer places.
- ✓ Provide mechanical support to horticultural crops & staking to vegetables.

## Legends & abbreviations:

- ✤ Heavy Rain:64.5-115.5mm; Very Heavy Rain:115.6-204.4mm; Extremely Heavy Rain: >204.4mm.
- Obsy: Observatory; AWS: Automatic Weather Station; ARG: Automatic Rain Gauge; dist: District: NH: National Highway; KVK: Krishi Vigyan Kendra; DVC: Damodar Valley Corporation; PTO: Part Time Office, Aero: Aerodrome, IAF: Indian Air Force.
- **\*** Region wise classification of meteorological Sub-Divisions:
  - Northwest India: Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
  - Central India: West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
  - **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
  - Northeast India: Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
  - West India: Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathawada.
  - South India: Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.



राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

		<u>FENDS</u>	
1. अंडमान और निकोबार द्वीप	ासमूह		1. Andaman & Nicobar Islands
2. अरुणाचल प्रदेश 3. असम और मेघालय			2. Arunachal Pradesh
. असम आर मयालय 4. नागालैंड, मणिपुर, मिजोरम	और निमय		3. Assam & Meghalaya
4. नागालड, माणपुर, मिजारम 5. उप-हिमालयी पश्चिम बंगाल	आर ।त्रपुर। और गिलिस्म		4. Nagaland, Manipur, Mizoram & Tripur
6. गंगीय पश्चिम बंगाल	जारासायकम		5. Sub-Himalayan West Bengal & Sikkim 6. Gangetic West Bengal
र. ओडिशा	and and		7. Odisha
8. झारखंड			8. Jharkhand
9. बिहार	<b>16</b>		9. Bihar
10. पूर्वी उत्तर प्रदेश	15		10. East Uttar Pradesh
11. पश्चिम उत्तर प्रदेश	14 12		11. West Uttar Pradesh
12. उत्तराखंड	13		12. Uttarakhand
13. हरियाणा, चंडीगढ़ और दि	eef 17 5 m 11	ma E	13. Haryana, Chandigarh & Delhi
14. पंजाब		Sa fa	<b>3</b> 14. Punjab
15. हिमाचल प्रदेश	the per of german	man R	15. Himachal Pradesh
16. जम्मू और कश्मीर और लह		<b>1 8 ~ 6</b> {	16. Jammu & Kashmir and Ladakh
17. पश्चिम राजस्थान	22 The share	from the	17. West Rajasthan
18. पूर्वी राजस्थान	26 27	7 >	18. East Rajasthan
19. पश्चिम मध्य प्रदेश	25 25		19. West Madhya Pradesh
20. पूर्वी मध्य प्रदेश	23 24 29 29	M	20. East Madhya Pradesh
21. गुजरात	5 33 2 28	5	21. Gujarat
22. सौराष्ट्र	32 30		22. Saurashtra
23. कोंकण और गोवा	32 34		23. Konkan & Goa
24. मध्य महाराष्ट्र	Roman Company		24. Madhya Maharashtra
25. मराठवाड़ा	35, 31		<b>1</b> 25. Marathwada
26. विदर्भ	36		26. Vidarbha
27. छत्तीसगढ़	•		27. Chhattisgarh
28. तटीय आंध्र प्रदेश और यन	म		28. Coastal Andhra Pradesh & Yanam
29. तेलंगाना		29. Telangana	
30. रायलसीमा		30. Rayalaseema	
31. तमिलनाडु, पुडुचेरी और व	नराईकल	31. Tamilnadu, Puducherry & Karaikal	
32. तटीय कर्नाटक			32. Coastal Karnataka
33. आतंरिक उत्तरी कर्नाटक		33. North Interior Karnataka	
34. आतंरिक दक्षिणी कर्नाटक	1		34. South Interior Karnataka
35. केरल और माहे			35. Kerala & Mahe
36. लक्षद्वीप			36. Lakshadweep
SPA	<b>FIAL DISTRIBU</b>	TION (%	of Stations reporting)
% Stations	Category	% Stations	Category
	read (WS/Most Places)	26-50	Scattered (SCT/A Few Places)
51-75 Fairly Wide			
51-75 Fairly wide	spread (FWS/Many Places)	1-25	isolated (ISOL)
	spread (FWS/Many Places)	1-25 	Isolated (ISOL)
Fog	Heavy Snow	– Cold Way	Isolated (ISOL) Ve COLOUR CODED WARNING No Warning (No Action)
Fog			Isolated (ISOL) Ve COLOUR CODED WARNING No Warning (No Action)
Fog Heavy Rain	Heavy Snow	– Cold Way	Isolated (ISOL)         ve       COLOUR CODED WARNING         No Warning (No Action)         Watch (Be Aware)         Frost       Alert (Be Prepared To Take Action)
Fog Heavy Rain Very Heavy Rain	الله Heavy Snow في Dust Storm	- Cold Way	Isolated (ISOL)         ve       COLOUR CODED WARNING         No Warning (No Action)         Watch (Be Aware)         Alort (Be Brangred To Take Action)
Fog Heavy Rain Very Heavy Rain Extremely Heavy Rain	Heavy Snow Dust Storm + Heat Wave	- Cold Way	Isolated (ISOL)         ve       COLOUR CODED WARNING         No Warning (No Action)         Watch (Be Aware)         Alert (Be Prepared To Take Action)         Warning (Take Action)         Probabilistic Forecast
Fog Heavy Rain Very Heavy Rain Extremely Heavy Rain Thunder & Lightning	Heavy Snow Dust Storm + Heat Wave + Warm Night + Hot Day	- Cold Way	Isolated (ISOL)         Ve       COLOUR CODED WARNING         No Warning (No Action)         Watch (Be Aware)         Alert (Be Prepared To Take Action)         Warning (Take Action)         Probabilistic Forecast         Terms       Probability of Occurrence (%)         Unlikely       < 25
Fog Heavy Rain Very Heavy Rain Extremely Heavy Rain	Heavy Snow Dust Storm + Heat Wave + Warm Night	- Cold Way	Isolated (ISOL)         ve       COLOUR CODED WARNING         No Warning (No Action)         Watch (Be Aware)         Alert (Be Prepared To Take Action)         Warning (Take Action)         Probabilistic Forecast         Terms       Probability of Occurrence (%)

\* Red colour warning does not mean "Red Alert", Red colour warning means "Take Action". Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day. For more details, kindly visit https://mausam.imd.gov.in or contact: 011-2434-4599 (Service to the Nation since 1875)





National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

*	Heavy: 64.5 to 115.5 tm //cm *
ain/ Snow *	Very Heavy: 115.6 to 204.4 mm/cm* Extremely Heavy: > 204.4 mm/cm *
	When maximum temperature of a station reaches ≥40° C for plains and ≥30° C for hilly regions (a) Based on Departure from normal
	Heat Wave: Maximum Temperature Departure from normal 4.5° C to 6.4° C.
	Severe Heat Wave: Maximum Temperature Departure from normal ≥6.5° C
leat Wave	(b). Based on Actual maximum temperature Heat Wave: When actual maximum temperature ≥45°C.
	Severe Heat Wave: When actual maximum temperature ≥45 C.
	( c). Criteria for heat wave for coastal stations When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°C
	When maximum temperature remains 40°C
/arm Night	Warm Night: When minimum temperature departure 4.5 °C to 6.4 °C.
	Severe Warm Night: When minimum temperature departure >6.4 °C.
	When minimum temperature of a station $\leq 10^{\circ}$ C for plains and $\leq 0^{\circ}$ C for hilly regions. (a). Based on departure
	Cold Wave: Minimum Temperature Departure from normal -4.5 °C to -6.4 °C.
Cold Wave	Severe Cold Wave: Minimum Temperature Departure from normal ≤ -6.5 °C
	(b) Based on actual Minimum Temperature (for Plains only) Cold Wave : When Minimum Temperature is ≤ 4.0 °C
	Severe Cold Wave: When Minimum Temperature is ≤ 2.0 °C
	( c) For Coastal Stations
	When Minimum Temperature departure is ≤-4.5 °C & actual Minimum Temperature is ≤ 15 °C
	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions Based on departure
Cold Day	Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.
	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C
	Phenomenon of small droplets suspended in air and the horizontal visibility < 1km
	Moderate Fog: When the visibility between 500-200 metres
Fog	Dense Fog: when the visibility between 50- 200 metres
	Very Dense Fog: when the visibility < 50 metres
understorm	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)
Dust/Sand Storm	An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.
	Ice deposits on ground
Frost	Air temperature ≤4°C ( over Plains)
	A strong wind that rises suddenly, lasts for atleast 1 minute.
	Moderate: Wind speed 52-61 kmph
Squall	Severe: Wind speed 62-87 kmph
	Very Severe: Wind speed >87 kmph
	Effect of various waves in the sea over specific area Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre
Sea State	High to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre High to very high: Wind speed 63-117 kmph ( 34-63 knots) & Wave height 6-14 metre
	Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre
	Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)
	Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)
Cyclone	Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots) Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)
	Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots) Super Cyclone Strom: Wind speed >220 kmph (>119 knots)

For a colour warning uses not mean ked Alert, ked colour warning means "Take Action". For cast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day. For more details, kindly visit https://mausam.imd.gov.in or contact: 011-2434-4599 (Service to the Nation since 1875)