



Government of India  
Ministry of Earth Sciences  
India Meteorological Department



Press Release

Date: 27<sup>th</sup> August, 2024

Time of Issue: 1331 hours IST

- Subject: (i) Deep Depression over north Gujarat likely to continue to move slowly west-southwestwards and reach Saurashtra & Kutch and adjoining areas of Pakistan and northeast Arabian Sea by 29<sup>th</sup> August.**
- (ii) Extremely heavy rainfall very likely to continue at isolated places of Gujarat today and over Saurashtra and Kutch during next 3 days with exceptional heavy rainfall at isolated places of Saurashtra today.**
- (iii) Low pressure area over Northwest Jharkhand likely to move west-northwestwards across East India and weaken gradually during next 24 hrs.**

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

**Heavy to very heavy rainfall with extremely heavy falls** at isolated places over Saurashtra & Kutch, Gujarat Region, Chhattisgarh; **Heavy to very heavy rainfall** at isolated places over East Rajasthan, Coastal Karnataka, East Madhya Pradesh, Jharkhand, Andaman & Nicobar Islands, Gangetic West Bengal, Madhya Maharashtra, Konkan & Goa; **Heavy rainfall** at isolated places over Odisha, Kerala & Mahe, South Interior Karnataka, West Madhya Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Assam & Meghalaya, Himachal Pradesh, Sikkim, Uttarakhand, Punjab, North Interior Karnataka, Bihar.

**Weather Systems:**

**(a) Deep Depression over north Gujarat**

The deep depression over north Gujarat moved slowly westwards with a speed of 5 kmph during past 6 hours and lay centered at 0830 hours IST of today, the 27<sup>th</sup> August over the same region near latitude 23.8°N and longitude 72.0 °E, about 10 km west of Patan, 50 km south-southwest of Deesa (Gujarat), 100 km north-northwest of Ahmedabad (Gujarat), 120 km north-northeast of Surendranagar (Gujarat) and 230 km east-northeast of Bhuj (Gujarat). It is likely to move slowly west-southwestwards across Gujarat region and reach Saurashtra & Kutch coast and adjoining areas of Pakistan and northeast Arabian Sea by morning of 29<sup>th</sup> August.

**(b) Low Pressure Area over Jharkhand**

The low-pressure area over Jharkhand & neighbourhood moved west-northwestwards and lay over Northwest Jharkhand and neighbourhood at 0830 hours IST of today, the 27<sup>th</sup> August 2024. It is likely to continue to move west-northwestwards across Jharkhand, and north Chhattisgarh & adjoining southeast Uttar Pradesh and weaken gradually during next 24 hours.

(c) Western end of the monsoon trough at mean sea level is south of its normal position while the eastern end is at its normal position.

(d) A fresh low-pressure area is likely to form over Eastcentral & adjoining North Bay of Bengal on 29<sup>th</sup> August, 2024. It is likely to move west-northwestwards close to south Odisha & north Andhra Pradesh coasts during subsequent 2 days.

### Forecast & Warnings (upto 7 days):

- ❖ **West & Central India (For District wise Extremely heavy rainfall warning maps of Gujarat State for 27<sup>th</sup> to 30<sup>th</sup> August, Annexure IV)**
  - ✓ Fairly widespread to widespread light/moderate rainfall very likely over West & Central India during the week.
  - ✓ Isolated **heavy rainfall** very likely over West Madhya Pradesh on 27<sup>th</sup> & 31<sup>st</sup>; East Madhya Pradesh during 27<sup>th</sup> – 31<sup>st</sup>; Vidarbha during 30<sup>th</sup> August – 02<sup>nd</sup> September; Chhattisgarh on 27<sup>th</sup> & 29<sup>th</sup>; Konkan & Goa, Madhya Maharashtra during 28<sup>th</sup> August- 01<sup>st</sup> September; Saurashtra & Kutch on 30<sup>th</sup>; Gujarat Region during 29<sup>th</sup> August- 02<sup>nd</sup> September; Marathwada on 01<sup>st</sup> & 02<sup>nd</sup> September.
  - ✓ Isolated **very heavy rainfall** also very likely over Konkan & Goa, Madhya Maharashtra on 27<sup>th</sup> August & 02<sup>nd</sup> September; Gujarat Region on 28<sup>th</sup>; Madhya Pradesh on 01<sup>st</sup> & -2<sup>nd</sup> September; Vidarbha on 31<sup>st</sup> August & 01<sup>st</sup> September; Chhattisgarh on 30<sup>th</sup> & 31<sup>st</sup> August.
  - ✓ Isolated **extremely heavy rainfall also very likely** over Gujarat Region on 27<sup>th</sup>; Saurashtra & Kutch during 27<sup>th</sup> – 29<sup>th</sup> August.
- ❖ **East & Northeast India**
  - ✓ Fairly widespread to widespread light/moderate rainfall very likely over East & Northeast India, during the week.
  - ✓ Isolated **heavy rainfall** very likely over, Gangetic West Bengal, Assam on 27<sup>th</sup>; Bihar, Jharkhand, Odisha on 27<sup>th</sup> & 28<sup>th</sup> August; Arunachal Pradesh on 27<sup>th</sup>, 28<sup>th</sup> and during 31<sup>st</sup> August- 02<sup>nd</sup> September; Assam & Meghalaya on 28<sup>th</sup>, 31<sup>st</sup> August & 01<sup>st</sup> September; Nagaland on 28<sup>th</sup>; Nagaland, Manipur, Mizoram & Tripura on 01<sup>st</sup> & 02<sup>nd</sup> September.
  - ✓ Isolated **very heavy rainfall** also very likely over Jharkhand on 27<sup>th</sup>; Andaman & Nicobar Islands on 27<sup>th</sup> & 28<sup>th</sup>; Odisha during 29<sup>th</sup>–31<sup>st</sup> August.
  - ✓ Isolated **extremely heavy rainfall also very likely** over Odisha on 30<sup>th</sup> August.
- ❖ **South Peninsular India:**
  - ✓ Scattered to Fairly widespread light/moderate rainfall very likely over Kerala & Mahe, Lakshadweep, Coastal Andhra Pradesh & Yanam, Coastal Karnataka, Interior Karnataka; isolated to scattered rainfall over Tamil Nadu, Puducherry & Karaikal, Rayalaseema & Telangana during the week.
  - ✓ Isolated **heavy rainfall** very likely over Kerala & Mahe during next 7 days; Coastal Andhra Pradesh & Yanam during 29<sup>th</sup> August- 02<sup>nd</sup> September; Telangana during 30<sup>th</sup> August- 01<sup>st</sup> September; Interior Karnataka during 27<sup>th</sup> – 31<sup>st</sup> August.
  - ✓ Isolated **very heavy rainfall** also very likely over Coastal Karnataka during 27<sup>th</sup> August- 02<sup>nd</sup> September; South Interior Karnataka during 27<sup>th</sup> – 31<sup>st</sup>; Telangana on 31<sup>st</sup> August & 01<sup>st</sup> September; Coastal Andhra Pradesh & Yanam during 29<sup>th</sup> – 31<sup>st</sup>; Kerala & Mahe on 29<sup>th</sup> & 30<sup>th</sup> August.
- ❖ **Northwest India**
  - ✓ Fairly widespread to widespread light/moderate rainfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Rajasthan; isolated to scattered rainfall over Punjab, Uttar Pradesh Haryana-Chandigarh-Delhi during the week.
  - ✓ Isolated **heavy rainfall** very likely over East Uttar Pradesh on 27<sup>th</sup>; Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 27<sup>th</sup> – 30<sup>th</sup>; Himachal Pradesh during 27<sup>th</sup> – 29<sup>th</sup>; Uttarakhand on 27<sup>th</sup> August & 02<sup>nd</sup> September; Punjab, West Rajasthan on 27<sup>th</sup> & 28<sup>th</sup>; East Rajasthan on 28<sup>th</sup> August, 01<sup>st</sup> & 02<sup>nd</sup> September.
  - ✓ Isolated **very heavy rainfall** also very likely over Southeast Rajasthan today.

For more details, kindly refer: [https://mausam.imd.gov.in/responsive/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php)

For Districtwise warnings refer: <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

**Wind warning:**

- ✓ Squally wind speed reaching 40-50 kmph gusting to 60 kmph is very likely over the districts of North Gujarat region on 27th August; Squally wind speed reaching 45-55 kmph gusting to 65 kmph is likely over the districts of South Gujarat Region and Saurashtra & Kutch during 27th-29th August.
- ✓ Squally wind speed reaching 55-65 kmph gusting to 75 kmph is very likely to prevail along & off Gujarat coasts & adjoining Pakistan coasts and northeast & adjoining eastcentral Arabian Sea during 27th-30th August.
- ✓ Strong surface wind speed reaching 40-50 kmph gusting to 60 kmph is very likely to prevail over South Rajasthan on 27th August.
- ✓ Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail along and off north Maharashtra coasts on 27- 29thAugust.

**Sea condition:**

- ✓ Squally weather with Rough to very Rough sea conditions is very likely to prevail along & off Gujarat & adjoining Pakistan and north Maharashtra Coasts and Northeast & adjoining Eastcentral Arabian Sea till 30th August.

**Fisherman warning:**

- ✓ Fishermen are advised not venture into Northeast & adjoining Eastcentral Arabian Sea and along & off Gujarat & adjoining Pakistan and north Maharashtra Coasts till 30th August.

**For more details, kindly refer to National bulletin on: <https://rsmcnewdelhi.imd.gov.in/>**

**Significant Rainfall recorded during past 24 hours till 0830 hours IST of today 27.08.2024 (in cm):**

- ❖ **Saurashtra & Kutch:** Tankara (dist Morbi) 36, Wankaner (dist Morbi) 34, Rajkot (dist Rajkot) 32, Kalavad (dist Jamnagar) 26, Mandvi(k) (dist Kutch) 25, Khambhalia (dist Devbhoomi Dwarka) 25, Lodhika (dist Rajkot) 23, Chotila (dist Surendranagar) 22, Morbi (dist Morbi) 22, Nakhatrana (dist Kutch) 22, Thangadh (dist Surendranagar) 21, Lalpur (dist Jamnagar) 21, Kottasangani (dist Rajkot) 17, Chuda (dist Surendranagar) 16, Jodia (dist Jamnagar) 16, Dhrol (dist Jamnagar) 14, Sayla (dist Surendranagar) 14, Lakhtar (dist Surendranagar) 13, Barvala (dist Botad) 13, Jamnagar (dist Jamnagar) 12, Gadhda (dist Botad) 12, Dasada (dist Surendranagar) 12, Vadia (dist Amreli) 12, Paddhari (dist Rajkot) 12, Gondal (dist Rajkot) 12, Botad (dist Botad) 12, Visavadar (dist Junagadh) 11, Ranpur\_arg (dist Botad) 11, Muli (dist Surendranagar) 11, Wadhvan (dist Surendranagar) 11, Jasdan (dist Rajkot) 11, Dwarka (dist Devbhoomi Dwarka) 11, Naliya (dist Kutch) 11, Babra (dist Amreli) 11, Kalyanpur (dist Devbhoomi Dwarka) 10, Jamnagar\_kvks Aws (dist Jamnagar) 10, Okha (dist Devbhoomi Dwarka) 10, Surendranagar (dist Surendranagar) 10, Keshod (dist Junagadh) 10,
- ❖ **Gujarat Region:** Morva Hadaf (dist Panchmahal) 34, Tarapur (dist Anand) 31, Nadiad (dist Kheda) 29, Khambhat (dist Anand) 29, Borsad (dist Anand) 28, Padra (dist Vadodara) 28, Vadodara (dist Vadodara) 28, Godhra (dist Panchmahal) 27, Sojitra (dist Anand) 27, Wanakbori (dist Mahisagar) 26, Anand (dist Anand) 24, Mahemdavad (dist Kheda) 23, Vaso (dist Kheda) 22, Balasinor (dist Mahisagar) 21, Mahudha (dist Kheda) 21, Dholka (dist Ahmedabad) 20, Bilodara\_aws (dist Kheda) 19, Matar (dist Kheda) 19, Kheda (dist Kheda) 19, Meghraj (dist Aravalli) 19, Halol (dist Panchmahal) 18, Ghoghamba (dist Panchmahal) 18, Jotana (dist Mehsana) 18, Galteshwar (dist Kheda) 17, Shahera (dist Panchmahal) 17, Santrampur (dist Mahisagar) 17, Jambughoda (dist Panchmahal) 17, Limkheda (dist Dahod) 17, Dhandhuka (dist Ahmedabad) 17, Arnej\_aws (dist Ahmedabad) 16, Siddhpur (dist Patan) 15, Fatepura (dist Dahod) 15, Kadi (dist Mehsana) 15, Singvad (dist Dahod) 14, Dhandhuka\_arg (dist Ahmedabad) 14, Mansa (dist Gandhinagar) 14, Abad City (dist Ahmedabad) 14, Kathalal (dist Kheda) 14, Chhota Udepur (dist Chhota Udepur) 14, Khanpur (dist Mahisagar) 14, Anklav (dist Anand) 14, Umreth (dist Anand) 13, Visnagar (dist Mehsana) 13, Modasa (dist Aravalli) 13, Dascroi (dist Ahmedabad) 13, Mc Ahmedabad\_arg (dist Ahmedabad) 13, Mandal (dist Ahmedabad) 13, Waghai (dist Dangs) 13, Bavla (dist Ahmedabad) 12, Virpur (dist Mahisagar) 12, Savli (dist Vadodara) 12, Dholera (dist Ahmedabad) 12, Becharaji (dist Mehsana) 12, Viramgam (dist Ahmedabad) 11, Jhalod (dist Dahod) 11, Dang\_kvks Aws (dist Dangs) 11, Vadodara\_aws (dist Vadodara) 11, Desar (dist Vadodara) 11, Harij (dist Patan) 11, Waghodia (dist Vadodara) 11, Petlad (dist Anand) 11, Bayad\_arg (dist Aravalli) 11, Jetpur Pavi (dist Chhota Udepur) 11, Vadnagar (dist Mehsana) 11, Godra\_aws (dist Panchmahal) 11, Bodeli (dist Chhota Udepur) 11, Vijapur (dist Mehsana) 10, Subir (dist Dangs) 10, Dhanpur (dist Dahod) 10, Gandhinagar (dist Gandhinagar) 10, Mahesana (dist Mehsana) 10, Kalol(g) (dist Gandhinagar) 10, Sanjeli (dist Dahod) 10, Dahegam (dist Gandhinagar) 10, Detroj (dist Ahmedabad) 10, Prantij (dist Sabarkantha) 10,
- ❖ **Chhattisgarh:** Kusmi (dist Balrampur) 25, Wandrafanagar (dist Balrampur) 15, Raghunath Nagar (dist Balrampur) 9, Manora (dist Jashpur) 9, Sanna (dist Jashpur) 7,
- ❖ **East Rajasthan:** Bagidora Sr (dist Banswara) 20, Sallopat Sr (dist Banswara) 17, Shergarh Sr (dist Banswara) 17, Dhambola (dist Dungarpur) 14, Veja Sr (dist Dungarpur) 13, Arthuna (dist Banswara) 11, Sajjangarh Sr (dist Banswara) 10, Loharia (dist Banswara) 9, Khushalgarh (dist Banswara) 9, Chikali Sr (dist Dungarpur) 9, Garhi (dist Banswara) 8, Kanva Sr (dist Dungarpur) 7, Galiakot Sr (dist Dungarpur) 7, Sanganeer Tehsil Sr (dist Jaipur) 7,
- ❖ **Coastal Karnataka:** Castle Rock (dist Uttara Kannada) 16, Puttur Hms (dist Dakshina Kannada) 10,
- ❖ **East Madhya Pradesh:** Kusmi (dist Sidhi) 15, Sidhi (gopadbanas) (dist Sidhi) 14, Churhat (dist Sidhi) 14, Nagode (dist Satna) 11, Beohari (dist Shahdol) 11, Bahri (dist Sidhi) 11, Rampur (dist Sidhi) 10, Majhauri (dist Sidhi) 9, Devser (dist Singrauli) 9, Sihawal (dist Sidhi) 9, Orchha (dist Niwari) 8, Bilhari (dist Katni) 8, Naigarhi (dist Rewa) 7, Semariya (dist Rewa) 7, Gudh (dist Rewa) 7, Lavkushnagar (dist Chhatrapur) 7,
- ❖ **Jharkhand:** Rania (dist Khunti) 14, Kharsema (dist Seraikela-kharsawan) 13, Maithon Dvc (dist Dhanbad) 12, Dumri (dist Giridih) 12, Bagodari (dist Giridih) 11, Panchet (dist Dhanbad) 9, Nandadih (dist Giridih) 9, Panchet Dvc (dist Dhanbad) 9, Nawadih (dist Bokaro) 9, Dumri Dvc (dist Giridih) 9, Hunterganj (dist Chatra) 8, Chandil (dist Seraikela-kharsawan) 8, Markachou (dist Koderma) 8, Gobindpur Dvc (dist Dhanbad) 8, Madhupur (dist Deoghar) 8, Chakulia (dist East Singbhum) 8, Torpa (dist Khunti) 7, Giridih Bengbad Kvks Aws (dist Giridih) 7, Giridih (dist Giridih) 7, Jamtara Fmo (dist Jamtara) 7, Diyakel Khunti Kvks Aws (dist Khunti) 7,
- ❖ **Andaman & Nicobar Islands:** Iaf Carnicobar (dist Nicobar) 13, Car Nicobar (dist Nicobar) 13, Hut Bay (dist South Andaman) 12,

- ❖ **Gangetic West Bengal:** Bankura(cwc) (dist Bankura) 13, Luchipur (dist Paschim Bardhaman) 11, Diamond Harbour (dist South 24 Parganas) 11, Bankura (dist Bankura) 10, Asansol (dist Paschim Bardhaman) 9, Asansol(cwc) (dist Paschim Bardhaman) 9, Jhargram (pto) (dist Jhargram) 8, Burnpur (dist Paschim Bardhaman) 8, Kalaikunda ( Iaf) (dist West Midnapore) 7, Midnapore(cwc) (dist West Midnapore) 7,
- ❖ **Madhya Maharashtra:** Gaganbawada (dist Kolhapur) 13, Mahabaleshwar- Imd Obsy (dist Satara) 13, Surgana (dist Nashik) 12, Lonavala\_agri (dist Pune) 11, Trimbakshwar (dist Nashik) 11, Shahuwadi (dist Kolhapur) 10, Ajra (dist Kolhapur) 9, Chandgad (dist Kolhapur) 9, Radhanagari (dist Kolhapur) 9, Velhe (dist Pune) 9, Peth (dist Nashik) 8, Patan (dist Satara) 7, Igatpuri (dist Nashik) 7, Harsul - Fmo (dist Nashik) 7,
- ❖ **Konkan & Goa:** Jawhar (dist Palghar) 12, Awalegaon - Arg (dist Sindhudurg) 10, Matheran (dist Raigad) 8, Pawarwadi - Arg (dist Ratnagiri) 8, Lanja (dist Ratnagiri) 7, Mandangad (dist Ratnagiri) 7, Mokheda - Fmo (dist Palghar) 7, Vikramgad (dist Palghar) 7, Rajapur (dist Ratnagiri) 7,
- ❖ **Odisha:** Jagatsinghpur ( Jagatsinghpur) 11, Cuttack ( Cuttack) 9, Bhuban ( Dhenkanal) 9, Kantapada ( Cuttack) 9, Athgarh ( Cuttack) 7, Mundali ( Cuttack) 7, Banki ( Cuttack) 7,
- ❖ **Kerala & Mahe:** Bayar (dist Kasod) 11, Vellarikkundu (dist Kasod) 9, Cheruvanchery (dist Cannur) 9, Hosdurg (dist Kasod) 8, Ayyankunnu (dist Cannur) 7,
- ❖ **South Interior Karnataka:** Kottigehara (dist Chikkamagaluru) 11, Agumbe Emo (dist Shivamogga) 8, Bhagamandala (dist Kodagu) 8,
- ❖ **West Madhya Pradesh:** Kathiwada (dist Alirajpur) 10, Bhabhra (dist Alirajpur) 9, Meghnagar (dist Jhabua) 7, Udaigarh (dist Alirajpur) 7, Thandla (dist Jhabua) 7,
- ❖ **Jammu-Kashmir:** Kathua\_kv (dist Kathua) 9, Jammu Aws (dist Jammu) 7, Kathua (dist Kathua) 7, Udampur(iaf) (dist Udampur) 7,
- ❖ **Assam & Meghalaya:** WRD Dibrugarh (dist Dibrugarh) 9, Dhemaji (dist Dhemaji) 7,
- ❖ **Himachal Pradesh:** Kahu (dist Bilaspur) 8, Jubberhatti (dist Shimla) 8, Kandaghat (dist Solan) 8, Kufri (dist Shimla) 7, Dharampur (dist Solan) 7,
- ❖ **Sikkim:** Tadong (dist Gangtok) 8,
- ❖ **Uttarakhand:** Kapkot (BAGESHWAR) : 7,
- ❖ **Punjab:** Bhadson Irr (dist Patiala) 7, Shahpur Kandi (dist Pathankot) 7, Mahurana Arg (dist Kapurthala) 7,
- ❖ **North Interior Karnataka:** Londa (dist Belagavi) 7,
- ❖ **Bihar:** Khaira (dist Jamui) 7, Silao (dist Nalanda) 7, Sono (dist Jamui) 7,

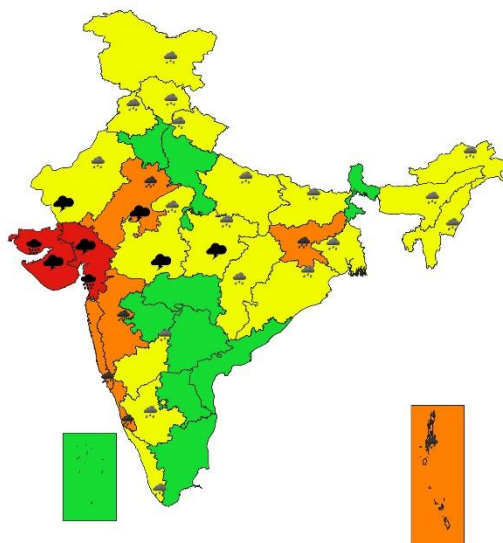
7 Days Rainfall Forecast								
S. No.	Subdivision	27-Aug	28-Aug	29-Aug	30-Aug	31-Aug	01-Sep	02-Sep
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	WS	WS	WS	WS	WS	WS	WS
2	ARUNACHAL PRADESH	FWS	FWS	SCT	SCT	FWS	FWS	FWS
3	ASSAM & MEGHALAYA	SCT	SCT	FWS	FWS	FWS	WS	WS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	FWS	FWS	FWS	FWS	FWS	WS	WS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	FWS	FWS	SCT	SCT	SCT	FWS	FWS
6	GANGETIC WEST BENGAL	WS	FWS	FWS	FWS	SCT	SCT	FWS
7	ODISHA	FWS	FWS	WS	WS	WS	FWS	SCT
8	JHARKHAND	WS	WS	FWS	SCT	SCT	SCT	SCT
9	BIHAR	FWS	FWS	SCT	SCT	SCT	SCT	SCT
10	EAST UTTAR PRADESH	FWS	SCT	SCT	SCT	SCT	SCT	SCT
11	WEST UTTAR PRADESH	SCT	SCT	ISOL	ISOL	ISOL	SCT	SCT
12	UTTARAKHAND	SCT	FWS	SCT	SCT	SCT	SCT	FWS
13	HARYANA CHANDIGARH & DELHI	SCT	SCT	SCT	ISOL	ISOL	ISOL	SCT
14	PUNJAB	FWS	SCT	SCT	SCT	ISOL	ISOL	SCT
15	HIMACHAL PRADESH	FWS	FWS	FWS	FWS	SCT	SCT	FWS
16	JAMMU & KASHMIR AND LADAKH	FWS	WS	WS	FWS	ISOL	ISOL	SCT
17	WEST RAJASTHAN	FWS	SCT	SCT	SCT	SCT	SCT	SCT
18	EAST RAJASTHAN	FWS	SCT	SCT	SCT	SCT	FWS	FWS
19	WEST MADHYA PRADESH	FWS	SCT	SCT	SCT	FWS	FWS	FWS
20	EAST MADHYA PRADESH	FWS	FWS	FWS	WS	WS	WS	WS
21	GUJARAT REGION	WS	WS	WS	WS	WS	WS	WS
22	SAURASHTRA & KUTCH	WS	WS	WS	WS	WS	WS	WS
23	KONKAN & GOA	WS	WS	WS	WS	WS	WS	WS
24	MADHYA MAHARASHTRA	WS	FWS	FWS	FWS	FWS	FWS	FWS
25	MARATHAWADA	SCT	ISOL	ISOL	SCT	FWS	FWS	FWS
26	VIDARBHA	FWS	FWS	FWS	WS	WS	WS	WS
27	CHHATTISGARH	FWS	FWS	WS	WS	WS	WS	WS
28	COASTAL ANDHRA PRADESH & YANAM	SCT	SCT	FWS	WS	WS	FWS	SCT
29	TELANGANA	ISOL	ISOL	SCT	FWS	FWS	SCT	SCT
30	RAYALASEEMA	ISOL	ISOL	SCT	SCT	FWS	SCT	ISOL
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	SCT	SCT	ISOL	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	WS	WS	WS	WS	WS	WS	WS
33	NORTH INTERIOR KARNATAKA	SCT	SCT	SCT	FWS	FWS	FWS	FWS
34	SOUTH INTERIOR KARNATAKA	SCT	SCT	FWS	FWS	FWS	SCT	SCT
35	KERALA & MAHE	FWS	FWS	WS	WS	WS	FWS	FWS
36	LAKSHADWEEP	FWS	FWS	FWS	FWS	FWS	FWS	FWS

- As the lead period increases forecast accuracy decreases.

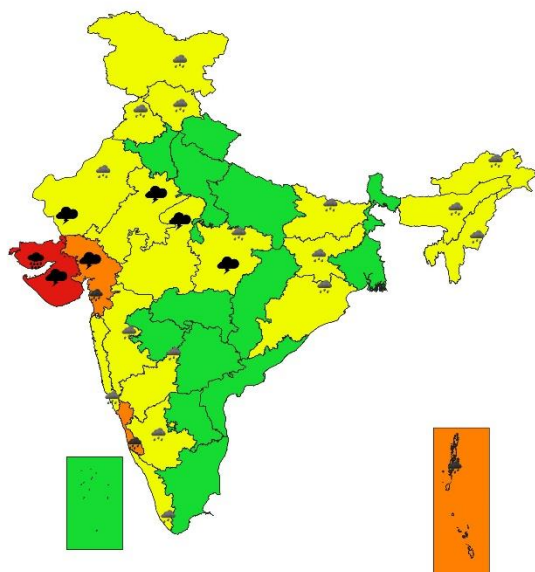




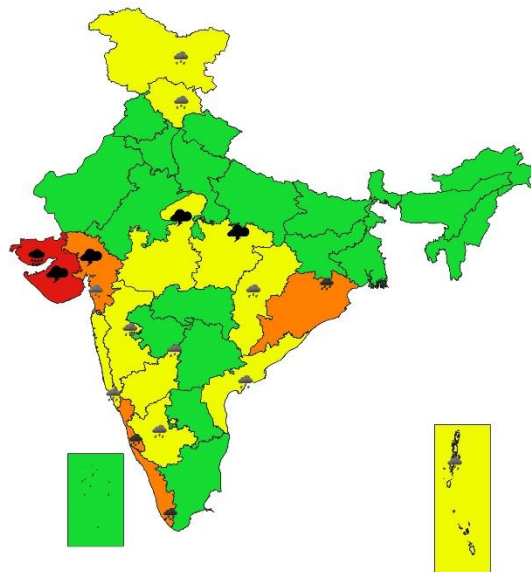
SUBDIVISIONWISE WEATHER WARNING FOR DAY 1  
27-08-2024



SUBDIVISIONWISE WEATHER WARNING FOR DAY 2  
28-08-2024

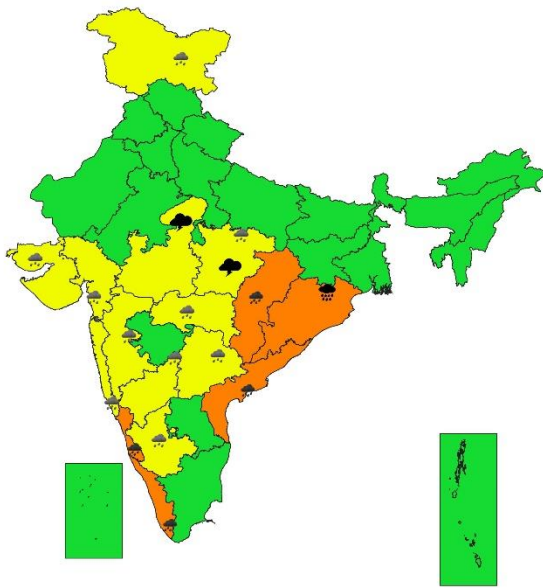


SUBDIVISIONWISE WEATHER WARNING FOR DAY 3  
29-08-2024

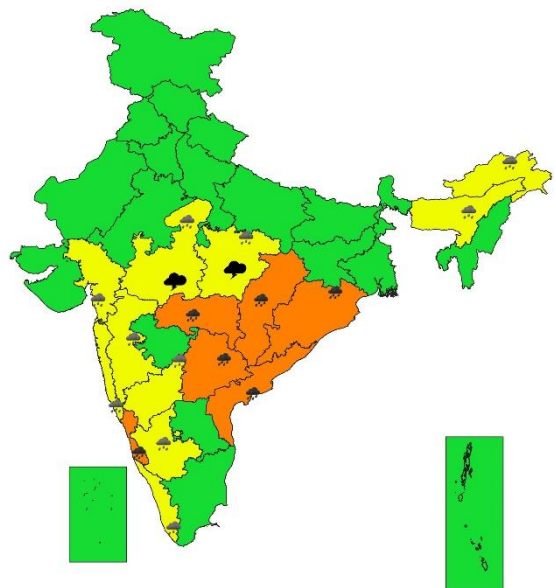




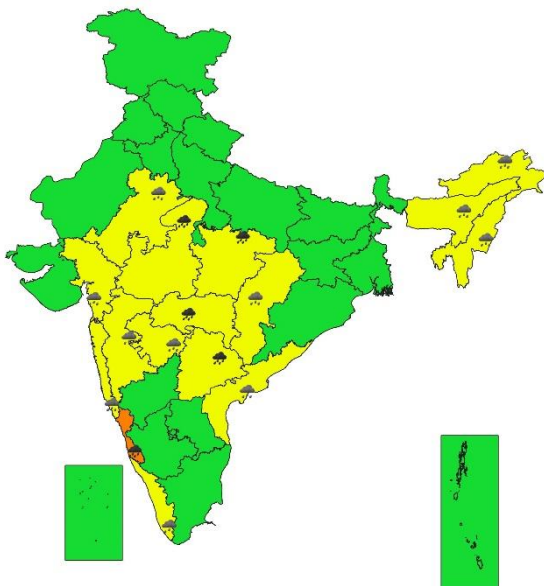
SUBDIVISIONWISE WEATHER WARNING FOR DAY 4  
30-08-2024



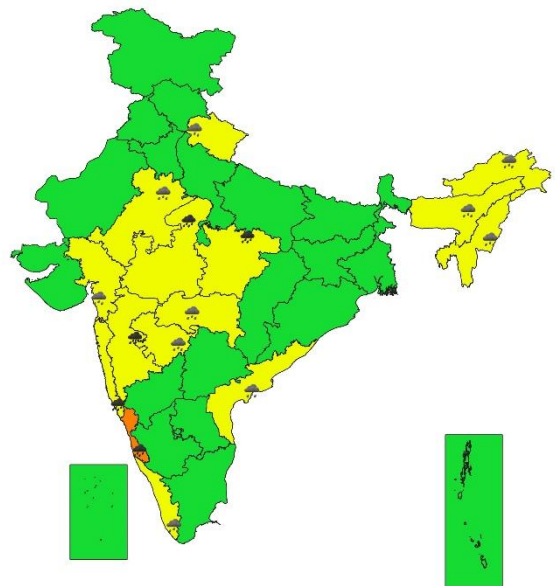
SUBDIVISIONWISE WEATHER WARNING FOR DAY 5  
31-08-2024



SUBDIVISIONWISE WEATHER WARNING FOR DAY 6  
01-09-2024



SUBDIVISIONWISE WEATHER WARNING FOR DAY 7  
02-09-2024

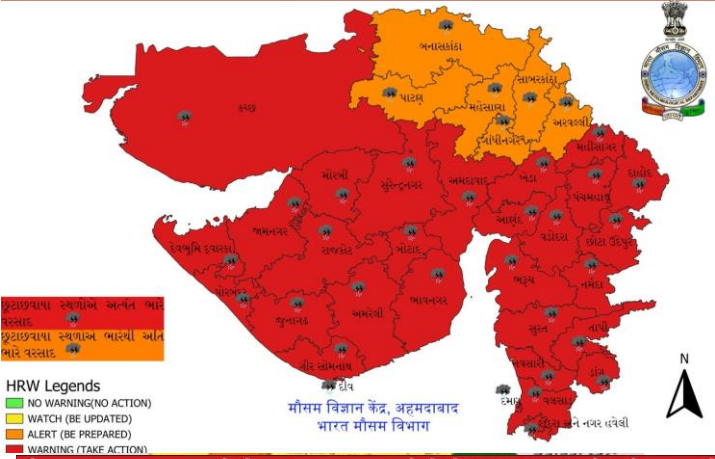


- Action may be taken based on ORANGE AND RED COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

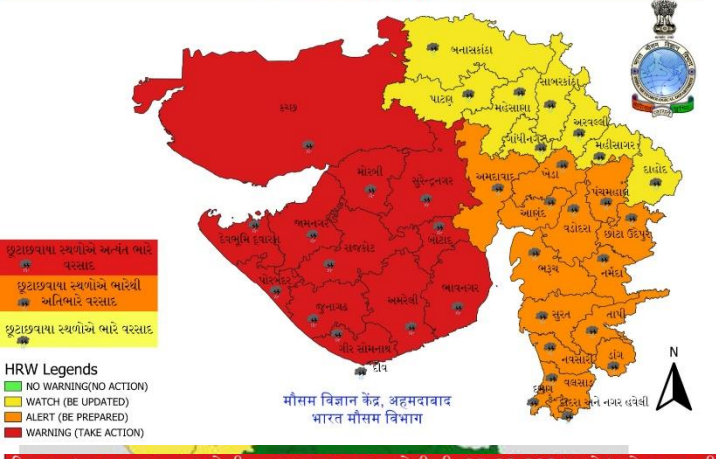


District wise Warning Graphics

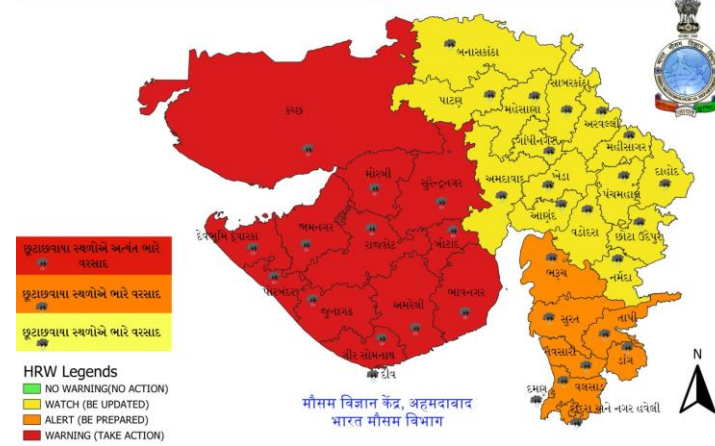
દિવસ - 1 ગુજરાત રાજ્ય અને દીવ, દમણ, દાદરા નગર હવેલી ની 27-08-2024 માટે 'ભારે વરસાદ ની ચેતવણી'



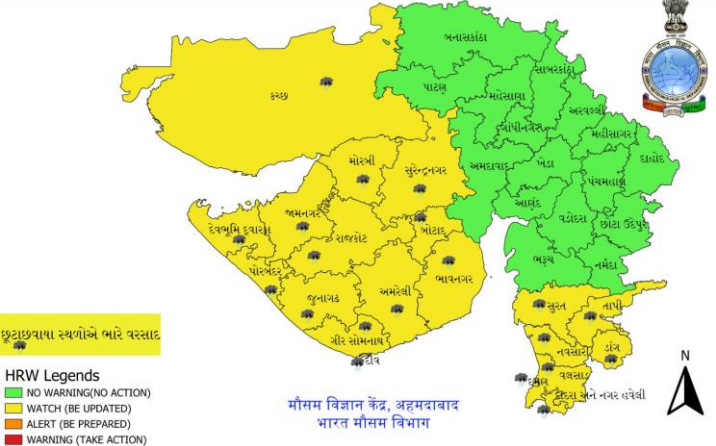
દિવસ - 2 ગુજરાત રાજ્ય અને દીવ, દમણ દાદરા નગર હવેલી ની 28-08-2024 માટે 'ભારે વરસાદ ની ચેતવણી'



દિવસ - 3 ગુજરાત રાજ્ય અને દીવ, દમણ દાદરા નગર હવેલી ની 29-08-2024 માટે 'ભારે વરસાદ ની ચેતવણી'



દિવસ - 4 ગુજરાત રાજ્ય અને દીવ, દમણ દાદરા નગર હવેલી ની 30-08-2024 માટે 'ભારે વરસાદ ની ચેતવણી'



## Impact due to

- ✓ **Isolated extremely heavy rainfall very likely over** Gujarat Region on 27<sup>th</sup>; Saurashtra & Kutch during 27<sup>th</sup> – 29<sup>th</sup>; Odisha on 30<sup>th</sup> August.
- ✓ **Very heavy rainfall** at isolated over East Rajasthan, Jharkhand on 27<sup>th</sup> ; Coastal Karnataka during 27<sup>th</sup> August- 02<sup>nd</sup> September; South Interior Karnataka during 27<sup>th</sup> – 31<sup>st</sup>; Telangana on 31<sup>st</sup> August & 01<sup>st</sup> September; Coastal Andhra Pradesh & Yanam during 29<sup>th</sup> – 31<sup>st</sup>; Kerala & Mahe on 29<sup>th</sup> & 30<sup>th</sup> August; Andaman & Nicobar Islands on 27<sup>th</sup> & 28<sup>th</sup>; Odisha during 29<sup>th</sup>–31<sup>st</sup> ; Konkan & Goa, Madhya Maharashtra on 27<sup>th</sup> August & 02<sup>nd</sup> September; Gujarat Region on 28<sup>th</sup>; Madhya Pradesh on 01<sup>st</sup> & -2<sup>nd</sup> September; Vidarbha on 31<sup>st</sup> August & 01<sup>st</sup> September; Chhattisgarh on 30<sup>th</sup> & 31<sup>st</sup> August.
- ✓ **High flash flood risk likely** over likely over Southern parts of East Rajasthan, Saurashtra & Kutch, Gujarat Region on 27<sup>th</sup> & 28<sup>th</sup> August. **(ANNEXURE V)**
- ✓ 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 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.
- ✓ It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

## Action Suggested

- ✓ Fishermen are advised not to venture into Northeast & adjoining Eastcentral Arabian Sea and along & off Gujarat & adjoining Pakistan and north Maharashtra Coasts till 30<sup>th</sup> August.
- ✓ Judicious regulation of offshore/onshore Operations
- ✓ 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

- Drain out excess water from field crops and horticultural crops in Arunachal Pradesh, Assam & Meghalaya, West Madhya Pradesh, Chhattisgarh, Gujarat State, Andaman & Nicobar Islands, Gangetic West Bengal, Odisha, Jharkhand, Tamil Nadu and Karnataka.
  - Make provision for draining out excess water from standing crop fields and fruit orchards to avoid water stagnation in Jammu & Kashmir, Himachal Pradesh, Uttarakhand and Punjab.
  - Drain out excess water from kharif rice, groundnut, sesame, soybean, ginger, turmeric and vegetables to prevent water logging in Mizoram; from pigeon pea, soybean, cotton and sesame crop fields in Saurashtra & Kutch; from rice, finger millet, groundnut, pulses and orchards in Konkan & Goa; from rice, pigeon pea, cotton, black gram, green gram, soybean, groundnut etc. in North Madhya Maharashtra; from rice, castor, cotton, pearl millet, groundnut, sesame and maize fields in Gujarat; from rice, maize, green gram, black gram, soybean, sesame and vegetable fields in Rajasthan.
- Due to prolonged heavy rainfall, transplanted Aman rice and vegetable crops in low-lying areas of Tripura are submerged, with young rice seedlings unlikely to recover. It is recommended to procure short-duration rice varieties for re-sowing after the cessation of rains, or alternatively, prepare in advance for winter vegetable cultivation.
- Provide mechanical support to horticultural crops & staking to vegetables.

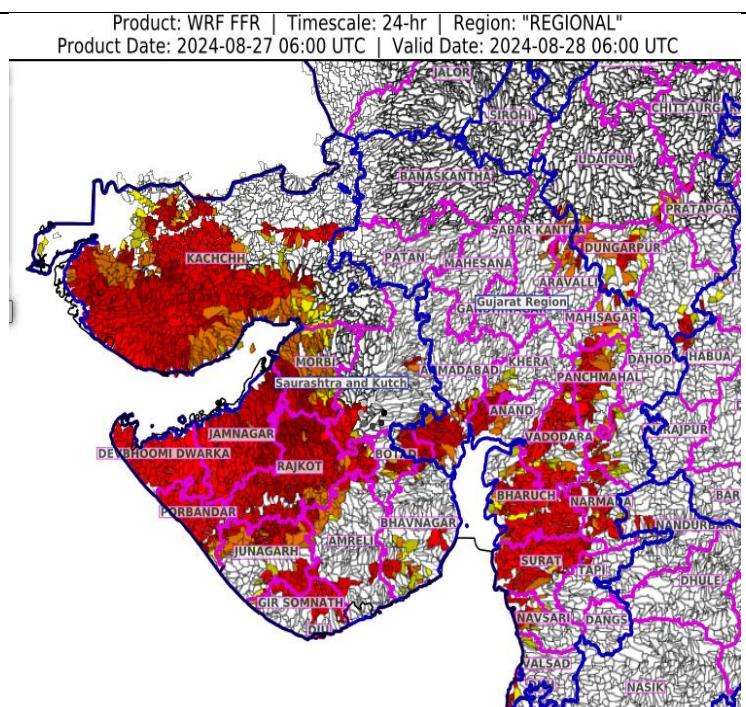
Moderate to High flash flood risk likely over few watersheds & neighbourhoods of following Met Subdivisions during next 24 hours.

Southern parts of East Rajasthan - Banswara, Chittaurgarh, Dungarpur, Pratapgarh and Udaipur districts.

Gujarat Region - Ahmadabad, Anand, Aravalli, Bharuch, Khera, Mahisagar, Narmada, Navsari, Panchmahal, Sabar Kantha, Surat, Tapi, Vadodara and Valsad districts.

Saurashtra & Kutch - Amreli, Bhavnagar, Botad, Devbhoomi Dwarka, Gir Somnath, Jamnagar, Junagarh, Porbandar, Rajkot, Surendranagar, Morbi and Kachchh districts.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as shown in map due to expected rainfall occurrence in next 24 hours.



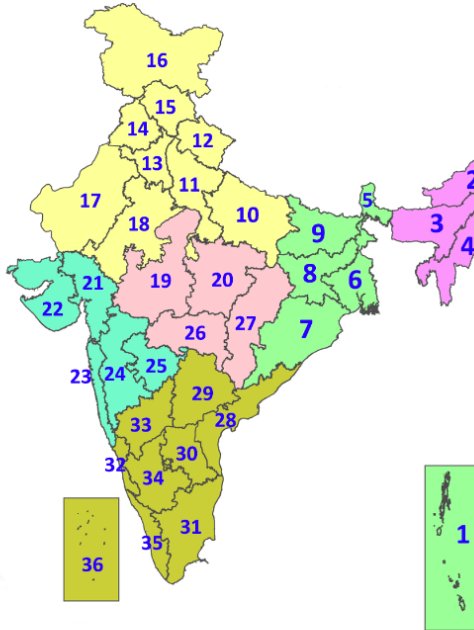
### Legends & abbreviations:

- ❖ **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.



## LEGENDS

1. अंडमान और निकोबार द्वीपसमूह
2. अरुणाचल प्रदेश
3. असम और मेघालय
4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
5. उप-हिमालयी पश्चिम बंगाल और सिक्किम
6. गंगीय पश्चिम बंगाल
7. ओडिशा
8. झारखंड
9. बिहार
10. पूर्वी उत्तर प्रदेश
11. पश्चिम उत्तर प्रदेश
12. उत्तराखंड
13. हरियाणा, चंडीगढ़ और दिल्ली
14. पंजाब
15. हिमाचल प्रदेश
16. जम्मू और कश्मीर और लद्दाख
17. पश्चिम राजस्थान
18. पूर्वी राजस्थान
19. पश्चिम मध्य प्रदेश
20. पूर्वी मध्य प्रदेश
21. गुजरात
22. सौराष्ट्र
23. कोंकण और गोवा
24. मध्य महाराष्ट्र
25. मराठवाड़ा
26. विदर्भ
27. छत्तीसगढ़
28. तटीय आंध्र प्रदेश और यनम
29. तेलंगाना
30. रायलसीमा
31. तमिलनाडु, पुडुचेरी और कराईकल
32. तटीय कर्नाटक
33. आंतरिक उत्तरी कर्नाटक
34. आंतरिक दक्षिणी कर्नाटक
35. केरल और माहे
36. लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Odisha
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chandigarh & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathwada
26. Vidarbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

## SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/A Few Places)
51-75	Fairly Widespread (FWS/Many Places)	1-25	Isolated (ISOL)



Fog



Heavy Snow



Cold Wave



Heavy Rain



Dust Storm



Cold Day



Very Heavy Rain



Heat Wave



Ground Frost



Extremely Heavy Rain



Warm Night



Thunder & Lightning



Hot Day



Hailstorm



Hot & Humid



Dust Raising Winds



Strong Surface Winds

### 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
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

\* 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)

## DEFINITION/CRITERIA

### Rain/ Snow \*

Heavy: 64.5 to 115.5 mm/cm \*  
Very Heavy: 115.6 to 204.4 mm/cm \*  
Extremely Heavy: > 204.4 mm/cm \*

### Heat Wave

When maximum temperature of a station reaches  $\geq 40^{\circ}\text{C}$  for plains and  $\geq 30^{\circ}\text{C}$  for hilly regions  
(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

Severe Heat Wave: Maximum Temperature Departure from normal  $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature  $\geq 45^{\circ}\text{C}$ .

Severe Heat Wave: When actual maximum temperature  $\geq 47^{\circ}\text{C}$

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is  $> 4.5^{\circ}\text{C}$  from normal. Heat Wave may be described provided maximum temperature  $\geq 37^{\circ}\text{C}$

### Warm Night

When maximum temperature remains  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

Severe Warm Night: When minimum temperature departure  $> 6.4^{\circ}\text{C}$ .

### Cold Wave

When minimum temperature of a station  $\leq 10^{\circ}\text{C}$  for plains and  $\leq 0^{\circ}\text{C}$  for hilly regions.  
(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

Severe Cold Wave: Minimum Temperature Departure from normal  $\leq -6.5^{\circ}\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave: When Minimum Temperature is  $\leq 4.0^{\circ}\text{C}$

Severe Cold Wave: When Minimum Temperature is  $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is  $\leq -4.5^{\circ}\text{C}$  & actual Minimum Temperature is  $\leq 15^{\circ}\text{C}$

### Cold Day

When minimum temperature of a station  $\leq 10^{\circ}\text{C}$  for plains and  $\leq 0^{\circ}\text{C}$  for hilly regions  
Based on departure

Cold Day: Maximum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

Severe Cold Day: Maximum Temperature Departure from normal  $\leq -6.5^{\circ}\text{C}$

### Fog

Phenomenon of small droplets suspended in air and the horizontal visibility  $< 1\text{km}$

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

Very Dense Fog: when the visibility  $< 50$  metres

### Thunderstorm

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.

### Frost

Ice deposits on ground

Air temperature  $\leq 4^{\circ}\text{C}$  ( over Plains)

### Squall

A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-87 kmph

Very Severe: Wind speed  $> 87$  kmph

### Sea State

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

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

### Cyclone

Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)

Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)

Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)

Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)

Super Cyclone Strom: Wind speed  $> 220$  kmph ( $> 119$  knots)

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