

Government of India Ministry of Earth Sciences India Meteorological Department



Press Release Date: 31st August, 2024 Time of Issue: 1315 hours IST

Subject: (i) The Cyclonic Storm "ASNA" has moved away from Indian coast and lies over Northeast and adjoining Northwest Arabian Sea.

(ii) Depression over westcentral & adjoining northwest Bay of Bengal off north Andhra Pradesh & South Odisha coasts and is likely to cross north Andhra Pradesh close to Kalingapatnam around midnight of today.

(iii) Heavy to very heavy rainfall with isolated extremely heavy rainfall very likely over Coastal Andhra Pradesh on 31st; Telangana on 31st & 1st and Vidarbha on 1st September.

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

Heavy to very heavy rainfall at isolated places Assam, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Telangana; **Heavy rainfall** at isolated places over East Rajasthan, Madhya Pradesh, Chhattisgarh, Odisha, Arunachal Pradesh, Meghalaya, Himachal Pradesh, Tamil Nadu, Puducherry & Karaikal, Rayalaseema.

Weather Systems:

(a) Cyclonic Storm "Asna" (Pronounced As As-Na) Over Northeast Arabian Sea Off Pakistan Coast

The Cyclonic Storm "ASNA" (pronounced as As-Na) over northeast Arabian Sea off Pakistan coast moved westwards with a speed of 15 kmph during past 6 hours and lay centered at 0830 hours IST of 31st August, 2024 over northeast and adjoining northwest Arabian Sea near latitude 23.6°N and longitude 65.3°E, 360 km west of Naliya (Gujarat), 260 km southwest of Karachi (Pakistan), 300 km southeast of Pasni (Pakistan) and 720 km east of Muscat (Oman). It is likely to continue to move nearly west-northwestwards over northeast & northwest Arabian Sea and maintain its intensity till morning of 1st September. Thereafter, it is likely to move west-southwestwards for subsequent 24 hours and weaken gradually into a depression over northwest Arabian Sea by morning of 2nd September 2024.

(b) Depression Over Westcentral & Adjoining Northwest Bay Of Bengal (Annexure II)

The depression over westcentral & adjoining northwest Bay of Bengal off north Andhra Pradesh & South Odisha coasts moved northwestwards with a speed of 10 kmph during past 3 hours and lay centered at 0830 hours IST of today, the 31st August, 2024 over the same region near latitude 17.7°N and longitude 84.4°E, about 80 km south-southeast of Kalingapatnam (Andhra Pradesh), 120 km east of Visakhapatnam (Andhra Pradesh) and 180 km south-southwest of Gopalpur (Odisha). It is likely to move further west-northwestwards and cross north Andhra Pradesh and adjoining south Odisha coasts between Visakhapatnam and Gopalpur close to Kalingapatnam around midnight of today, the 31st August 2024

(c) Monsoon trough at mean sea level lies to the south of its normal position.

Forecast & Warnings (upto 7 days) (Annexure III & IV):

South Peninsular India:

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

- ✓ Scattered heavy to very heavy with isolated extremely heavy rainfall very likely over Coastal Andhra Pradesh & Yanam on 31st August; Telangana on 31st August & 01st September.
- ✓ Isolated heavy to very heavy rainfall also very likely over Rayalaseema, Interior Karnataka on 31st August to 02nd September; Coastal Karnataka during 31st August & 02nd September.
- ✓ Isolated heavy rainfall very likely over Coastal Karnataka during next 7 days; Kerala & Mahe during 31st August 04th September.
- West & Central India Fairly widespread to widespread light/moderate rainfall very likely over West & Central India during the week.
 - ✓ Isolated heavy to very heavy with isolated extremely heavy rainfall very likely over Vidarbha on 01st September.
 - ✓ Isolated very heavy rainfall also very likely over West Madhya Pradesh, Marathwada on 01st & 02nd; Vidarbha during 31st August- 02nd September; Chhattisgarh on 31st; Gujarat Region during 02nd 04th September.
 - ✓ Isolated Heavy rainfall very likely over Madhya Pradesh during 31st August- 04th September; Vidarbha, Marathwada during 31st August- 03rd September; Chhattisgarh on 31st August, 01st September and during 04th – 06th September; Konkan & Goa, Madhya Maharashtra during 01st – 06th September; Gujarat State during 01st – 05th September.

* East & Northeast India

- ✓ Fairly widespread to widespread light/moderate rainfall very likely over Andaman & Nicobar Islands, Odisha and Scattered to Fairly widespread light/moderate rainfall very likely over Northeast India, West Bengal & Sikkim, Bihar and Jharkhand during the week.
- ✓ Isolated **very heavy rainfall** also very likely over Odisha on 31st August.
- ✓ Isolated heavy rainfall very likely over Northeast India during 31st August 04th September; Sub-Himalayan West Bengal & Sikkim on 31st August, 03rd & 04th September; Odisha on 31st August, 01st & 04th September, Andaman & Nicobar Islands on 03rd & 04th September.

Northwest India

- ✓ Scattered to Fairly widespread light/moderate rainfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, East Rajasthan; isolated to scattered rainfall over Uttar Pradesh, Haryana-Chandigarh-Delhi, Punjab, West Rajasthan during the week.
- ✓ Isolated heavy rainfall very likely over East Rajasthan during next 7 days. Himachal Pradesh, Haryana-Chandigarh on 02nd; Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, Punjab on 02nd & 03rd; West Rajasthan on 03rd & 04th September.

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

(i) Wind warning:

- Squally Weather With Wind Speed Reaching 45-55 Kmph Gusting To 65 Kmph Likely Over Westcentral And Adjoining Northwest Bay Of Bengal On 31st August.
- ✓ Squally Wind Speed Reaching 45-55 Kmph Gusting To 65 Kmph Is Likely To Prevail Along & Off North Andhra Pradesh & South Odisha Coasts On 31st August.
- Squally Weather With Wind Speed Reaching 35-45 Kmph Gusting To 55 Kmph Is Likely To Prevail Along And Off North Odisha And South Andhra Pradesh Coasts On 31st August.

(i) Sea condition:

 Rough To Very Rough Sea Condition Is Very Likely To Prevail Over Westcentral And Adjoining Northwest Bay Of Bengal On 31st August And 1st September. Rough To Very Rough Sea Condition Is Very Likely To Prevail Along & Off North Andhra Pradesh & South Odisha Coasts On 31st August And 1st September

(ii) Fishermen warning: (Annexure V)

Fishermen are advised not venture into

- Northeast & Adjoining Eastcentral Arabian Sea And Along & Off Gujarat & Adjoining North Maharashtra Coasts Till 31st August.
- Northeast & Adjoining Eastcentral Arabian Sea Off Gujarat Coast And Along & Off Pakistan Coasts During 31st August To 1st September.
- ✓ Northwest & Adjoining Westcentral Arabian Sea And Along & Off Pakistan Coast From 31st August Till 2nd September.
- ✓ Fishermen Are Advised Not Venture Into Westcentral & Adjoining Northwest Bay Of Bengal Till 1st September And Along & Off South Odisha And North Andhra Pradesh Coasts Till 1st September.

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

Significant Rainfall recorded during past 24 hours till 0830 hours IST of today 31.08.2024 (in cm):

- Coastal Andhra Pradesh: Masulipatnam Cdr (dist Krishna) 18, Vijayawada(arg) (dist Ntr District) 18, Gudivada (dist Krishna) 17, Kaikalur (dist Eluru) 15, Narsapuram (dist West Godavari) 14, Amaravati (dist Guntur) 13, Vijayawada A.p. (dist Ntr District) 12, Mangalagiri (dist Guntur) 11, Nandigama (dist Ntr District) 11, Bheemavaram (dist West Godavari) 11, Palakoderu (dist West Godavari) 9, Tenali (dist Guntur) 9, Tiruvuru (dist Ntr District) 9, Guntur (dist Guntur) 9, Eluru (dist Eluru) 8, Nuzvid (dist Eluru) 8, Atchampet (dist Palnadu) 8, Tadepalligudem (dist West Godavari) 7, Repalle (dist Bapatla) 7, Kunavaram (dist Alluri Sitharamaraju) 7, Karamchedu (dist Bapatla) 7,
- Assam & Meghalaya: Diphu AGRI (dist Karbi Anglong) 14, Matijuri Arg (dist Hailakandi) 13, Naharkatia Arg (dist Dibrugarh) 10, Matijuri (dist Hailakandi) 10, Tura DAO (dist West Garo Hills) 10, Lala Arg (dist Hailakandi) 9, Margherita (dist Tinsukia) 8, Nahar Katia (dist Dibrugarh) 8, Moranhat (dist Dibrugarh) 8, Numaligarh (dist Golaghat) 7, Golaghat_pto (dist Golaghat) 7, Dhemaji (dist Dhemaji) 7,
- Kerala: Vaikom (dist Kottayam) 13, Anakayam (dist Malappuram) 9, Kayamkulam (dist Alapuzha) 8, Padannakkad (dist Kasod) 8, Ayyankunnu (dist Cannur) 7, Aryankavu (dist Kollam) 7, Cherthala (dist Alapuzha) 7, Manjeri (dist Malappuram) 7, Kayamkulam_ (dist Alapuzha) 7,
- Telangana: Damaragidda (dist Narayanpet) 13, Madhira (dist Khammam) 9, Dornakal (distMahabubabad)
 9, Kothaguda (dist Mahabubabad) 9, Thimmajipeta (dist Nagarkurnool) 9, Bonakal (dist Khammam) 9,
- Odisha: Malkangiri (dist Malkangiri) 11, Nandapur (dist Koraput) 8,
- Arunachal Pradesh: Pasighat_ Aero (dist East Siang) 10, Oyan Arg (dist East Siang) 8,
- Himachal Pradesh: Ghamroor (dist Kangra) 9,
- Tamil Nadu: Kozhiporvilai (dist Kanniyakumari), Sholayar (dist Coimbatore) 9 each, Mylaudy (dist Kanniyakumari), Mambzhathuraiyaru (dist Kanniyakumari), Anaikedanku (distKanniyakumari) 7 each,
- Chhattisgarh: Sukma (dist Sukma) 9, Barsur (dist Dantewada) 8, Dantewara (dist Dantewada) 7, Usoor (dist Bijapur) 7,
- Meghalaya: Tura DL (dist. West Garo Hills) 9,
- East Madhya Pradesh: Chauri (dist Chindwara) 9, Umreth (dist Chindwara) 8, Deori (dist Sagar) 8, Amarwara (dist Chindwara) 7
- East Rajasthan: Dug (dist Jhalawar) 8,
- Rayalaseema: Proddutur (dist Ysr District) 9, Chapad (dist Ysr District) 7, Jammalamadugu (dist Ysr District) 7,
- West Madhya Pradesh: Budhni (dist Sehore) 7,

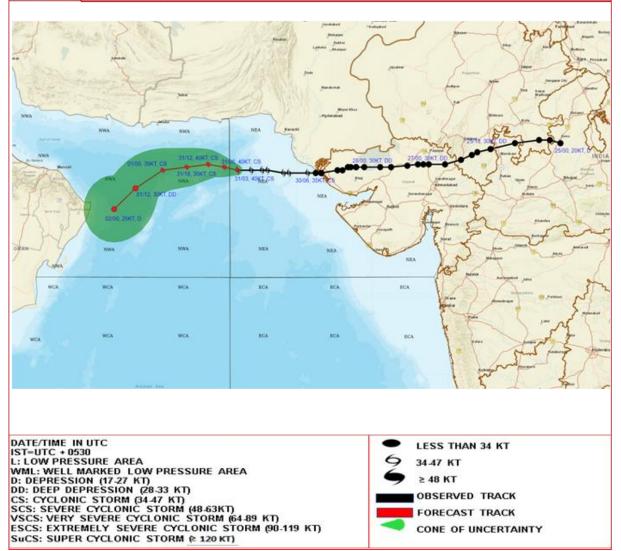


OBSERVED AND FORECAST TRACK OFDEPRESSION OVER WESTCENTRAL AND ADJOINING NORTHWEST BAY OF BENGALBASED ON 0300 UTC (0830 IST) OF 31stAUGUST, 2024.



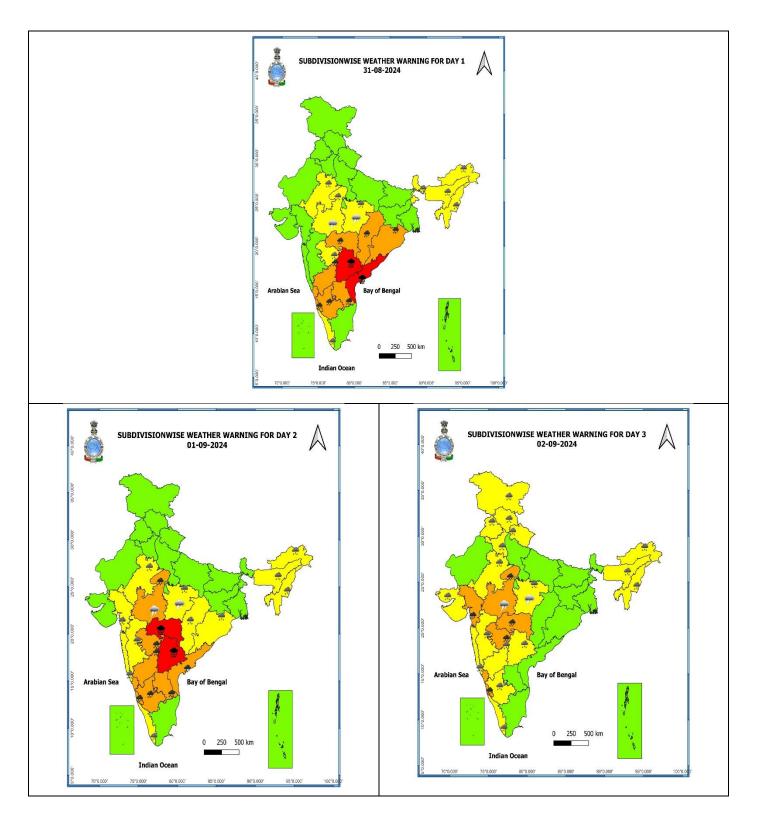


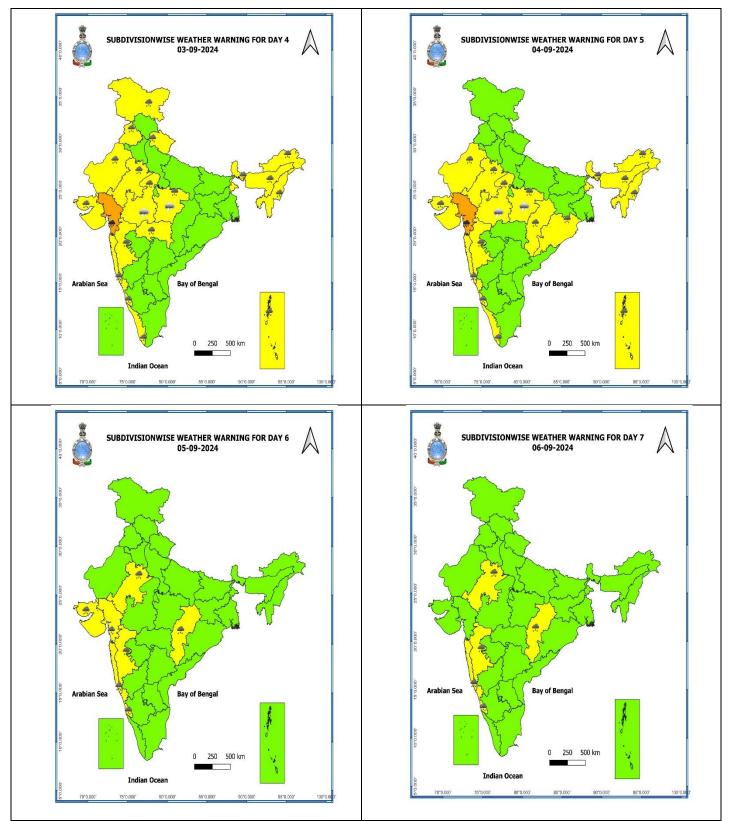
OBSERVED AND FORECAST TRACK OF CYCLONIC STORM ASNA OVER NORTHEAST AND ADJOINING NORTHWEST ARABIAN SEA BASED ON 0300 UTC (0830 IST) OF 31stAUGUST, 2024.



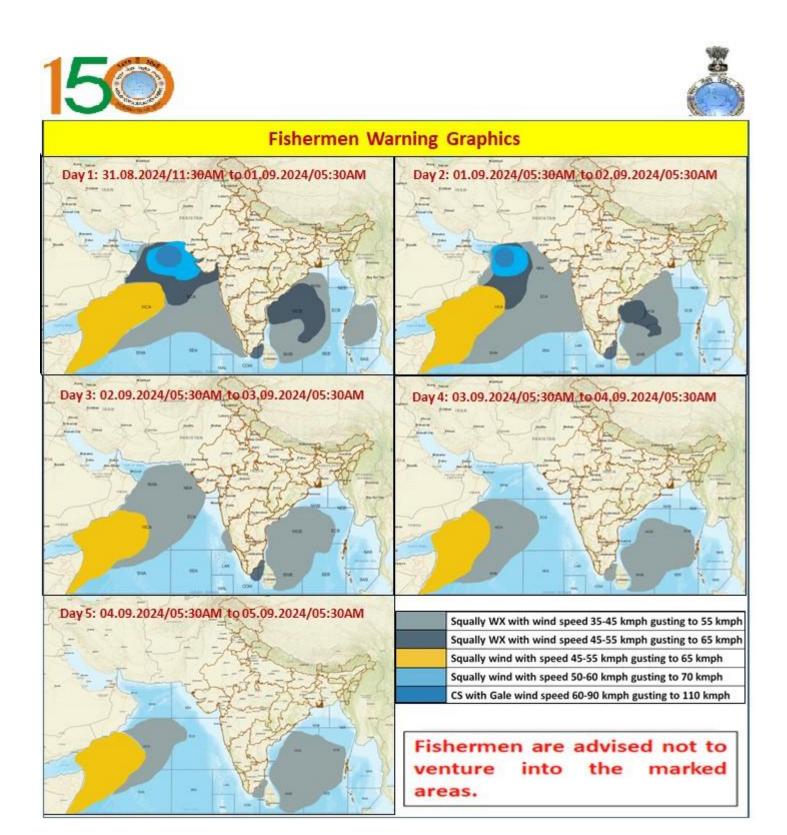
| 7 Days Rainfall Forecast | | | | | | | | |
|--------------------------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| S. No. | Subdivision | 31-Aug | 01-Sep | 02-Sep | 03-Sep | 04-Sep | 05-Sep | 06-Sep |
| | | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 | Day 6 | Day 7 |
| 1 | ANDAMAN & NICOBAR ISLANDS | WS |
| 2 | ARUNACHAL PRADESH | WS | FWS | FWS | FWS | FWS | SCT | SCT |
| 3 | ASSAM & MEGHALAYA | FWS |
| 4 | NAGALAND, MANIPUR, MIZORAM & TRIPURA | FWS |
| 5 | SUB-HIMALAYAN WEST BENGAL & SIKKIM | FWS |
| 6 | GANGETIC WEST BENGAL | FWS | SCT | SCT | SCT | SCT | FWS | FWS |
| 7 | ODISHA | WS | FWS | SCT | SCT | FWS | FWS | FWS |
| 8 | JHARKHAND | SCT | SCT | SCT | SCT | SCT | FWS | FWS |
| 9 | BIHAR | SCT |
| 10 | EAST UTTAR PRADESH | ISOL | SCT | SCT | SCT | FWS | FWS | FWS |
| 11 | WEST UTTAR PRADESH | ISOL | SCT | FWS | FWS | FWS | FWS | FWS |
| 12 | UTTARAKHAND | ISOL | SCT | FWS | FWS | FWS | SCT | SCT |
| 13 | HARYANA CHANDIGARH & DELHI | ISOL | ISOL | SCT | SCT | SCT | ISOL | ISOL |
| 14 | PUNJAB | ISOL | ISOL | SCT | SCT | SCT | ISOL | ISOL |
| 15 | HIMACHAL PRADESH | SCT | SCT | FWS | FWS | SCT | SCT | SCT |
| 16 | JAMMU & KASHMIR AND LADAKH | ISOL | ISOL | FWS | FWS | SCT | ISOL | SCT |
| 17 | WEST RAJASTHAN | ISOL | ISOL | SCT | FWS | FWS | SCT | SCT |
| 18 | EAST RAJASTHAN | SCT | FWS | FWS | FWS | FWS | FWS | FWS |
| 19 | WEST MADHYA PRADESH | FWS | WS | WS | WS | WS | FWS | FWS |
| 20 | EAST MADHYA PRADESH | FWS |
| 21 | GUJARAT REGION | FWS | WS | WS | WS | WS | WS | WS |
| 22 | SAURASHTRA & KUTCH | SCT | SCT | FWS | WS | WS | WS | FWS |
| 23 | KONKAN & GOA | WS |
| 24 | MADHYA MAHARASHTRA | SCT | FWS | FWS | WS | WS | WS | WS |
| 25 | MARATHAWADA | FWS | WS | WS | FWS | FWS | SCT | SCT |
| 26 | VIDARBHA | WS | WS | WS | WS | FWS | FWS | FWS |
| 27 | CHHATTISGARH | WS | FWS | FWS | FWS | FWS | FWS | FWS |
| 28 | COASTAL ANDHRA PRADESH & YANAM | WS | WS | FWS | FWS | SCT | SCT | FWS |
| 29 | TELANGANA | WS | WS | WS | FWS | SCT | SCT | SCT |
| 30 | RAYALASEEMA | WS | FWS | FWS | SCT | ISOL | ISOL | SCT |
| 31 | TAMILNADU PUDUCHERRY & KARAIKAL | ISOL |
| 32 | COASTAL KARNATAKA | WS |
| 33 | NORTH INTERIOR KARNATAKA | WS | WS | FWS | SCT | SCT | SCT | SCT |
| 34 | SOUTH INTERIOR KARNATAKA | WS | FWS | SCT | SCT | SCT | SCT | SCT |
| 35 | KERALA & MAHE | WS | WS | WS | FWS | FWS | WS | WS |
| 36 | LAKSHADWEEP | WS | WS | FWS | FWS | SCT | SCT | SCT |

• As the lead period increases forecast accuracy decreases.





- 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.



Impact due to

- ✓ Scattered heavy to very heavy with isolated extremely heavy rainfall very likely over Coastal Andhra Pradesh & Yanam on 31st August; Telangana on 31st August & 01st September.
- ✓ Isolated heavy to very heavy with isolated extremely heavy rainfall very likely over Vidarbha on 01st September.
- ✓ Very heavy rainfall at isolated over Rayalaseema, Interior Karnataka on 31st August to 02nd September; Coastal Karnataka, Vidarbha during 31st August & 02nd September. West Madhya Pradesh, Marathwada on 01st & 02nd; Chhattisgarh, Odisha on 31st; Gujarat Region during 02nd – 04th September.
- ✓ Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Chhattisgarh on 31st August & 01st September. (ANNEXURE V)

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.
- ✓ Reduction of visibility over sea area due to sea spray induced by strong wind and 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 30th 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.
- \checkmark 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 & amp; Meghalaya, Odisha, East Rajasthan, Madhya Pradesh, Tamil nadu, Kerala, Karnataka, Andhra Pradesh and Telangana.
- Make provision for draining out excess water from standing crop fields and fruit orchards to avoid water stagnation in Konkan & amp; Goa, Madhya Maharashtra, Marathwada, Vidarbha, Chhattisgarh, Gujrat Region and NMMT.
- Drain out excess water from maize, groundnut, ragi, vegetables, niger and banana in South Odisha; from rice, maize, sugarcane, red gram, cotton, groundnut, vegetables and horticultural crops in Andhra Pradesh; from rice, soyabean, red gram, maize, cotton and Turmeric in Telangana to prevent water logging.
- Store the harvested produce of black gram and green gram at safer places in Vidarbha, Marathwada and Ghat areas of Madhya Maharashtra.
- > Provide mechanical support to horticultural crops & amp; staking to vegetables.

ANNEXURE V

Flash Flood Guidance:

24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 01-09-2024 :

Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 24 hours.

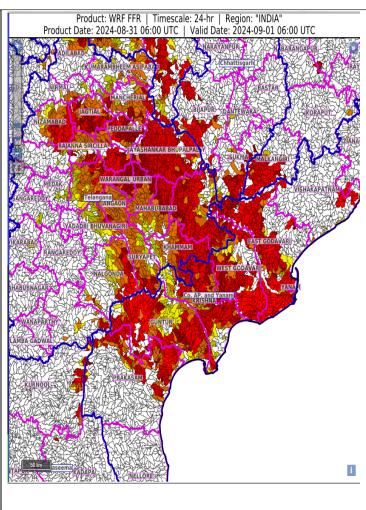
Coastal AP & Yanam - East Godavari, Guntur, Krishna, Prakasam, West Godavari, Visakhapatnam and Yanam districts.

Rayalaseema - Kurnool district.

Telangana - Adilabad, B. Kothagudem, J. Bhupalpally, Jagtial, Jangaon, Khammam, Kumaram Bheem, Mahabubabad, Mancherial, Nalgonda, Nirmal, Nizamabad, Peddapalle, Rajanna Sircilla, Siddipet, Suryapet, Warangal_Rural and Warangal_Urban districts.

Chhattisgarh - Bijapur and Sukma 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.



राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

| | LEG | | |
|---|--|--|--|
| 1. अंडमान और निकोबार द्वीपस | मूह | | 1. Andaman & Nicobar Islands |
| 2. अरुणाचल प्रदेश | | | 2. Arunachal Pradesh |
| 3. असम और मेघालय | | | 3. Assam & Meghalaya |
| 4. नागालैंड, मणिपुर, मिजोरम अ | | | 4. Nagaland, Manipur, Mizoram & Tripu |
| 5. उप-हिमालयी पश्चिम बंगाल अ | ौर सिक्किम | | 5. Sub-Himalayan West Bengal & Sikkin |
| 6. गंगीय पश्चिम बंगाल | | | 6. Gangetic West Bengal |
| 7. ओडिशा | L'and the second | | 7. Odisha |
| 8. झारखंड | 16 | | 8. Jharkhand |
| 9. बिहार | he mas | | 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 दिल्ले | fl 17 Song 11 | ma B | 13. Haryana, Chandigarh & Delhi |
| 14. पंजाब | | Saka | 3 کر کر 14. Punjab |
| 15. हिमाचल प्रदेश | - A legg from | Smark - | 15. Himachal Pradesh |
| 16. जम्मू और कश्मीर और लद्दार | ब 🐎 े 19 } 20 र्ड् | × 8 < 6 } | 🔨 🏳 👘 16. Jammu & Kashmir and Ladakh |
| 17. पश्चिम राजस्थान | 22 St for short of | mary | 17. West Rajasthan |
| 18. पूर्वी राजस्थान | 26 26 | ~ 7 } | 18. East Rajasthan |
| 19. पॅश्चिम मध्य प्रदेश | 22 25 | | 19. West Madhya Pradesh |
| 20. पूर्वी मध्य प्रदेश | 25 29 29 | | 20. East Madhya Pradesh |
| 21. गुजरात | 5 33 2 28 | | 21. Gujarat |
| 22. सौराष्ट्र | 32 30 | | 22. Saurashtra |
| 23. कोंकण और गोवा | 34 34 | | 23. Konkan & Goa |
| 24. मध्य महाराष्ट्र | Rent C | | . 24. Madhya Maharashtra |
| 25. मराठवाड़ा | 33 31 | | 1 25. Marathwada |
| 26. विदर्भ | 36 | | 26. Vidarbha |
| 27. छत्तीसगढ़ | | | 27. Chhattisgarh |
| 28. तटीय आंध्र प्रदेश और यनम | | | 28. Coastal Andhra Pradesh & Yanam |
| 29. तेलंगाना | | | 29. Telangana |
| 30. रायलसीमा | | | 30. Rayalaseema |
| 31. तमिलनाडु, पुडुचेरी और करा | ईकल | | 31. Tamilnadu, Puducherry & Karaikal |
| 32. तटीय कर्नाटक | | | 32. Coastal Karnataka |
| 33. आतंरिक उत्तरी कर्नाटक | | | 33. North Interior Karnataka |
| 34. आतंरिक दक्षिणी कर्नाटक | | | 34. South Interior Karnataka |
| 35. केरल और माहे | | | 35. Kerala & Mahe |
| | | | 36. Lakshadweep |
| 36. लक्षद्वीप | | | |
| | AL DISTRIBU | | |
| | AL DISTRIBU | FION (% c % Stations | |
| SPATI % Stations | | 7 | of Stations reporting) Category |
| SPATI % Stations 76-100 Widespree | Category ad (WS/Most Places) | % Stations | of Stations reporting) Category Scattered (SCT/A Few Places) |
| SPATI % Stations 76-100 Widespree 51-75 Fairly Widesp | Category ad (WS/Most Places) pread (FWS/Many Places) | % Stations 26-50 1-25 | of Stations reporting) Category Scattered (SCT/A Few Places) Isolated (ISOL) |
| SPATI % Stations 76-100 Widespree | Category ad (WS/Most Places) | % Stations 26-50 | of Stations reporting) Category Scattered (SCT/A Few Places) Isolated (ISOL) COLOUR CODED WARNING |
| SPATI % Stations 76-100 Widesprey 51-75 Fairly Widesp | Category ad (WS/Most Places) pread (FWS/Many Places) | % Stations 26-50 1-25 | of Stations reporting) Category Scattered (SCT/A Few Places) Isolated (ISOL) COLOUR CODED WARNING No Warning (No Action) |
| SPATI % Stations 76-100 Widesprey 51-75 Fairly Widesprey Fog Heavy Rain | Category ad (WS/Most Places) pread (FWS/Many Places) Heavy Snow Dust Storm | % Stations 26-50 1-25 - Cold Wave - Cold Day | Category Category Scattered (SCT/A Few Places) Isolated (ISOL) COLOUR CODED WARNING No Warning (No Action) Watch (Be Aware) Alact (Bo Brongard To Take Action) |
| SPATI % Stations 76-100 Widesprey 51-75 Fairly Widesp | Category ad (WS/Most Places) oread (FWS/Many Places) , Heavy Snow | % Stations 26-50 1-25 Cold Wave | of Stations reporting) Category Scattered (SCT/A Few Places) Isolated (ISOL) COLOUR CODED WARNING No Warning (No Action) Watch (Be Aware) Alert (Be Prepared To Take Action) |
| SPATI % Stations 76-100 Widesprey 51-75 Fairly Widesprey Fog Heavy Rain | Category ad (WS/Most Places) pread (FWS/Many Places) Heavy Snow Dust Storm | % Stations 26-50 1-25 - Cold Wave - Cold Day | of Stations reporting) Category Scattered (SCT/A Few Places) Isolated (ISOL) COLOUR CODED WARNING No Warning (No Action) Watch (Be Aware) Alert (Be Prepared To Take Action) Warning (Take Action) |
| SPAT | Category ad (WS/Most Places) pread (FWS/Many Places) Heavy Snow | % Stations 26-50 1-25 - Cold Wave - Cold Day | of Stations reporting) Category Scattered (SCT/A Few Places) Isolated (ISOL) COLOUR CODED WARNING No Warning (No Action) Watch (Be Aware) Alert (Be Prepared To Take Action) Warning (Take Action) Probabilistic Forecast |
| SPATI % Stations 76-100 Widesprey 51-75 Fairly Widesp Fog Heavy Rain Very Heavy Rain | Category ad (WS/Most Places) pread (FWS/Many Places) Heavy Snow Dust Storm + Heat Wave | % Stations 26-50 1-25 - Cold Wave - Cold Day | of Stations reporting) Category Scattered (SCT/A Few Places) Isolated (ISOL) 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 (%) |
| SPATI % Stations 76-100 Widesprey 51-75 Fairly Widesp Fog Heavy Rain Very Heavy Rain Extremely Heavy Rain Thunder & Lightning | Category ad (WS/Most Places) bread (FWS/Many Places) Heavy Snow | % Stations 26-50 1-25 - Cold Wave - Cold Day | of Stations reporting) Category Scattered (SCT/A Few Places) Isolated (ISOL) COLOUR CODED WARNING No Warning (No Action) Watch (Be Aware) Alert (Be Prepared To Take Action) Warning (Take Action) Warning (Take Action) Probabilistic Forecast Terms Probability of Occurrence (%) Unlikely <25 |
| SPAT | Category ad (WS/Most Places) pread (FWS/Many Places) Heavy Snow | % Stations 26-50 1-25 - Cold Wave - Cold Day | of Stations reporting) Category Scattered (SCT/A Few Places) Isolated (ISOL) COLOUR CODED WARNING No Warning (No Action) Watch (Be Aware) Alert (Be Prepared To Take Action) Warning (Take Action) Warning (Take Action) Probabilistic Forecast Terms Probability of Occurrence (%) Unlikely <25 Likely 25 - 50 |
| SPATI % Stations 76-100 Widesprey 51-75 Fairly Widesp Fog Heavy Rain Very Heavy Rain Extremely Heavy Rain Thunder & Lightning | Category ad (WS/Most Places) bread (FWS/Many Places) Heavy Snow | % Stations 26-50 1-25 Cold Wave Cold Day | of Stations reporting) Category Scattered (SCT/A Few Places) Isolated (ISOL) COLOUR CODED WARNING No Warning (No Action) Watch (Be Aware) Alert (Be Prepared To Take Action) Warning (Take Action) Warning (Take Action) Probabilistic Forecast Terms Probability of Occurrence (%) Unlikely <25 Likely 25-50 |

* 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

| 4- | Heavy: 64.5 to 115.5 mm/cm * |
|--------------------|---|
| ain/ Snow * | Very Heavy: 115.6 to 204.4 mm/cm* Extremely Heavy: > 204.4 mm/cm * |
| | Laueney reavy 2014 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 ≥47°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 ≤10°C for plains and ≤0°C for hilly regions. (a). Based on departure |
| | Cold Wave: Minimum Temperature Departure from normal -4.5 °C to -6.4 °C. |
| | Severe Cold Wave: Minimum Temperature Departure from normal ≤ -6.5 °C |
| Cold Wave | (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 $\leq 10^{\circ}$ C for plains and $\leq 0^{\circ}$ 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. |
| Courtell | 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 |
| Sea State | Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre |
| Jea State | 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) Super Cyclone Strom: Wind speed >220 kmph (>119 knots) |
| | |
| | |
| | |

st and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of n For more details, kindly visit https://mausam.imd.gov.in or contact: 011-2434-4599 (Service to the Nation since 1875)