



Government of India
Ministry of Earth Sciences



India Meteorological Department

PRESS RELEASE-5

Time of issue: 1330 hours IST

Dated: 12th September, 2024

Sub: Depression over Southwest Uttar Pradesh and neighbourhood

Yesterday's Depression over Northeast Madhya Pradesh moved north-northwestwards and lay centred at 0830 hours IST of today, the 12th September over Southwest Uttar Pradesh and neighbourhood near latitude 27.0°N and longitude 78.5°E, about 50 km east-southeast of Agra (Uttar Pradesh), 90 km north-northeast of Gwalior (Madhya Pradesh), 110 km south-southeast of Aligarh (Uttar Pradesh) and 180 km south-southwest of Bareilly (Uttar Pradesh).

It is likely to move north-northeastwards and maintain its intensity today, the 12th September and weaken gradually thereafter from tomorrow, the 13th September.

The system is under continuous surveillance of Doppler Weather Radars at Delhi and Lucknow.

Warnings:

(i) Rainfall warning

Uttarakhand: Light to moderate rainfall at most places is very likely with **heavy to very heavy rainfall** at a few places and **extremely heavy rainfall** at isolated places on 12th & 13th; **heavy rainfall** at isolated places on 14th September.

West Uttar Pradesh: Light to moderate rainfall at most places is very likely with **heavy to very heavy rainfall** at a few places and **extremely heavy rainfall** at isolated places on 12th **heavy to very heavy rainfall** at isolated places on 13th and **heavy rainfall** at a few places on 14th September.

East Uttar Pradesh: Light to moderate rainfall at many places is very likely with **heavy rainfall** at a few places on 12th and at isolated places on 13th & 14th September.

West Madhya Pradesh: Light to moderate rainfall at many places is very likely with **heavy to very heavy rainfall** at a few places over northwest Madhya Pradesh on 12th; **heavy rainfall** at isolated places on 13th & 14th September.

East Madhya Pradesh: Light to moderate rainfall at most places is very likely with **heavy rainfall** at few places over northeast Madhya Pradesh on 12th and **heavy rainfall** at isolated places on 13th and 14th September.

East Rajasthan: Light to moderate rainfall at many places is very likely with **heavy to very heavy rainfall** at a few places over northeast Rajasthan on 12th and **heavy rainfall** at isolated places on 14th September.

Haryana: Light to moderate rainfall at most places is very likely with **heavy to very heavy rainfall** at a few places over south Haryana on 12th and **heavy rainfall** at isolated places on 13th & 14th September.

Contact: Cyclone Warning Division, Office of the Director General of Meteorology, India Meteorological Department, Ministry of Earth Sciences, E-mail: cyclonewarningdivision@gmail.com, Website: rsmcnewdelhi.imd.gov.in. Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%, Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

(ii) Flash Flood Guidance: (Graphics Attached)

24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 13-09-2024 :

Moderate to High flash flood risk likely over few watersheds & neighbourhoods of **West**

Uttarakhand – Pauri Garwal, Tehri Garwal, Dehradun, Uttarkashi, Rudraprayag, Bageshwar, Almora, Nainital, Champawat, Chamoli and Pithoragarh districts

Himachal Pradesh – Simla, Sirmour, Kullu and Kinnaur districts

Uttar Pradesh – Moradabad, Rampur, Bareilly, Philiphit, Jyotibaphule Nagar, Sambhal, Badaun, Bulandsahar, Aligarh, Kanshiram Nagar, Mahamayanagar, Etah, Auraiya, Etah, Shahjahanpur, Firozabad, Mainpuri, Etawah, Auraiya, Hamirpur, Jalaun, Jhansi, Kannauj, Kanpur Dehat, Hardoi, Keeri, Sitapur, Lacknow, Unnao, Raibareli, and Barabanki districts.

East Madhya Pradesh - Chhatarpur, Damoh and Sagar districts.

West Madhya Pradesh – Agarmalwa, Ashoknagar, Bhind, Bhopal, Datia, Guna, Morena, Rajgarh, Sheopur, Shivpuri, Raisen, and Videsha districts.

East Rajasthan – Kota, Baraj, Jhalawar, Pratapgarh, Alwar, Dausa, Bundi, Karauli and Bharatpur districts.

(iii) Wind warning:

Strong wind speed reaching 35-45 kmph gusting to 55 kmph is likely to prevail over southwest Uttar Pradesh adjoining areas of Northwest Madhya Pradesh, northeast Rajasthan and south Haryana during next 24 hours.

(iv) Impact Expected (Uttarakhand, Uttar Pradesh, North Madhya Pradesh, Haryana, and Northeast Rajasthan due to heavy rainfall)

- ✓ 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)

(v) Action Suggested (Uttarakhand, Uttar Pradesh, North Madhya Pradesh, Haryana, and Northeast Rajasthan)

- ✓ 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.

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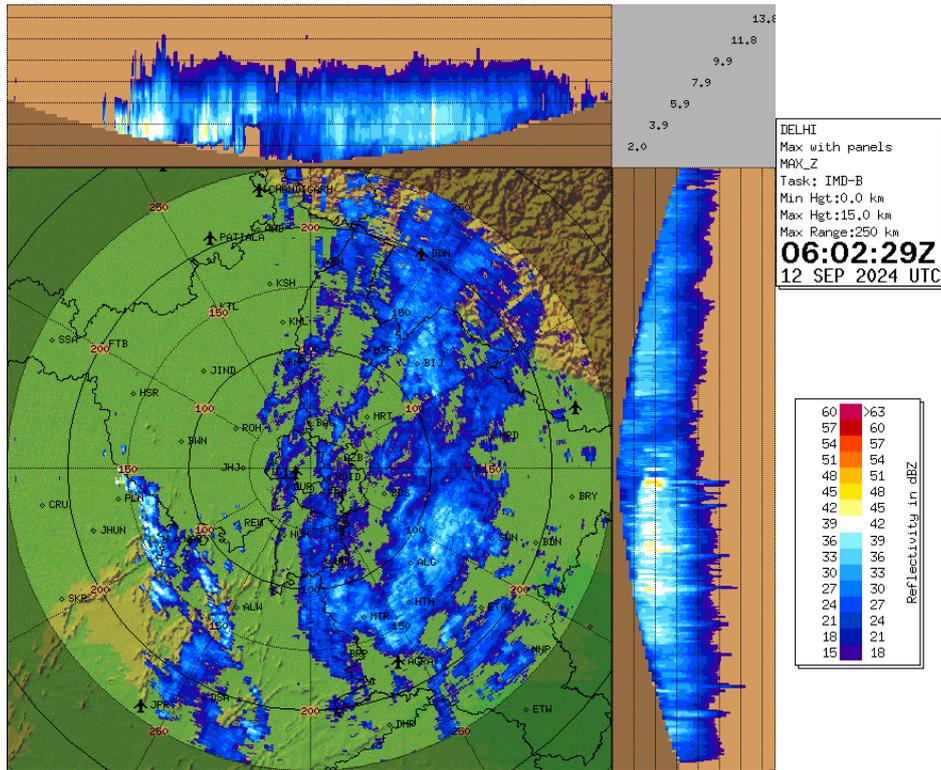
(vi) Agromet advisories for Heavy Rainfall likely over various parts of the country

- ✓ Provide mechanical support to horticultural crops & staking to vegetables.
- ✓ Keep the harvested produce at safer place.

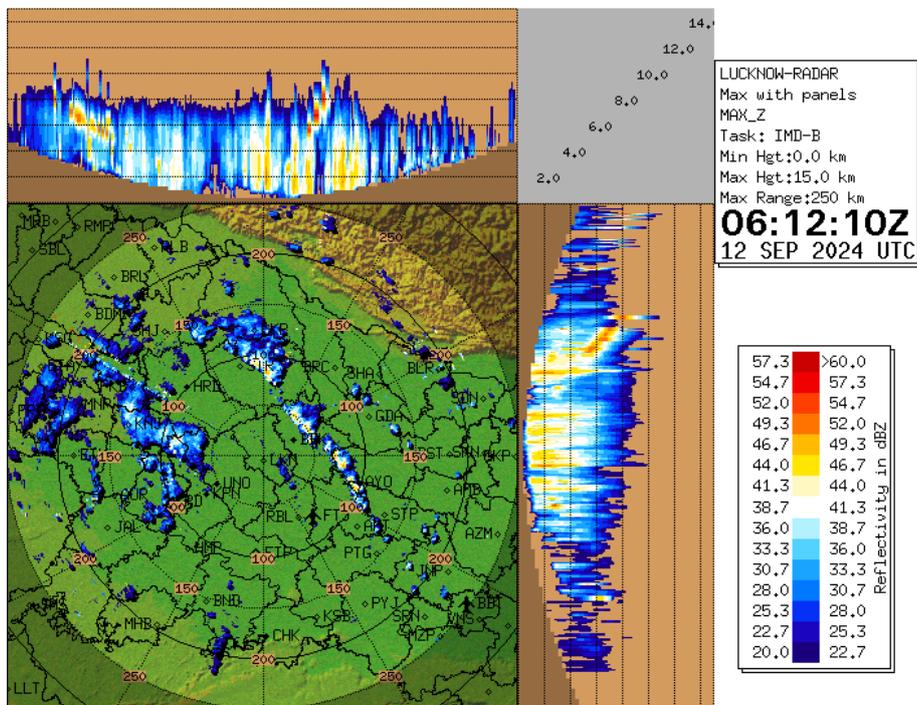
All associated graphics have been kept in Annexure-I. The 24 hours accumulated realised rainfall (≥ 7 cm) ending at 0830 hours IST of 12th September is kept in Annexure-II.

Next Press Release will be issued at 1430 hours IST of tomorrow, the 13th September, 2024.

Doppler Weather Radar at Delhi (Max_Z)



Doppler Weather Radar at Lucknow (Max_Z)



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OBSERVED AND FORECAST TRACK OF DEPRESSION OVER SOUTHWEST UTTAR PRADESH AND NEIGHBOURHOOD BASED ON 0300 UTC (0830 IST) OF 12TH SEPTEMBER, 2024.

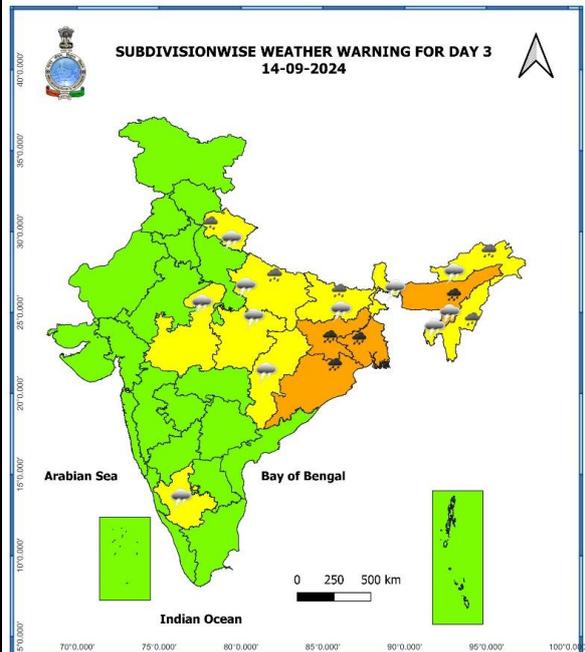
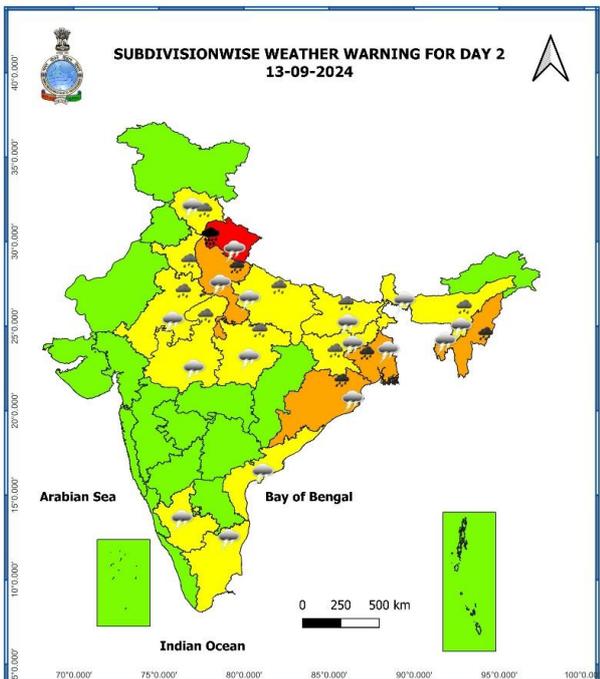
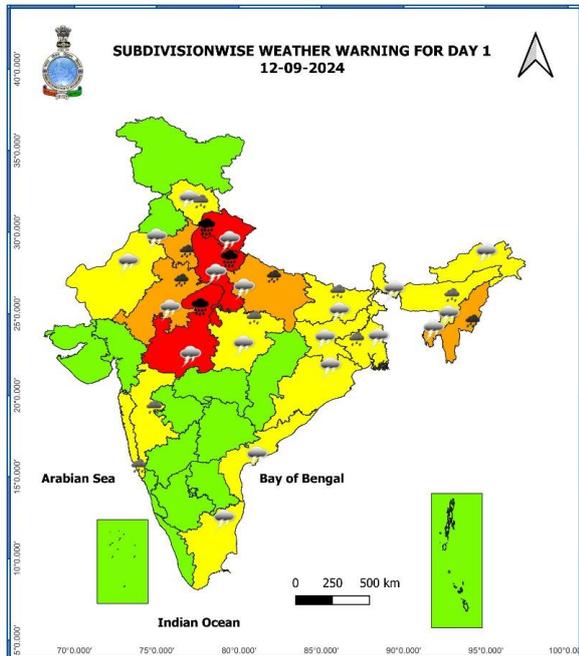


DATE/TIME IN UTC
IST=UTC + 0530
L: LOW PRESSURE AREA
WML: WELL MARKED LOW PRESSURE AREA
D: DEPRESSION (17-27 KT)
DD: DEEP DEPRESSION (28-33 KT)
CS: CYCLONIC STORM (34-47 KT)
SCS: SEVERE CYCLONIC STORM (48-63KT)
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)
SuCS: SUPER CYCLONIC STORM (≥ 120 KT)

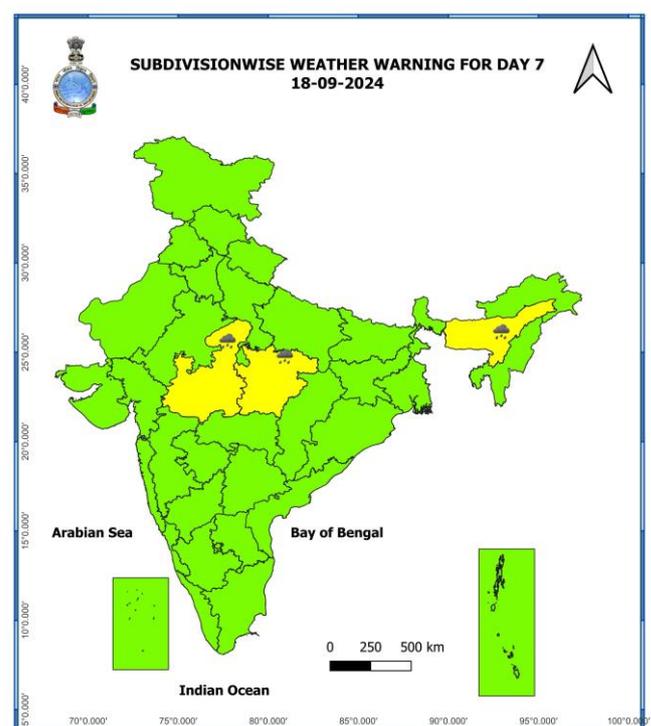
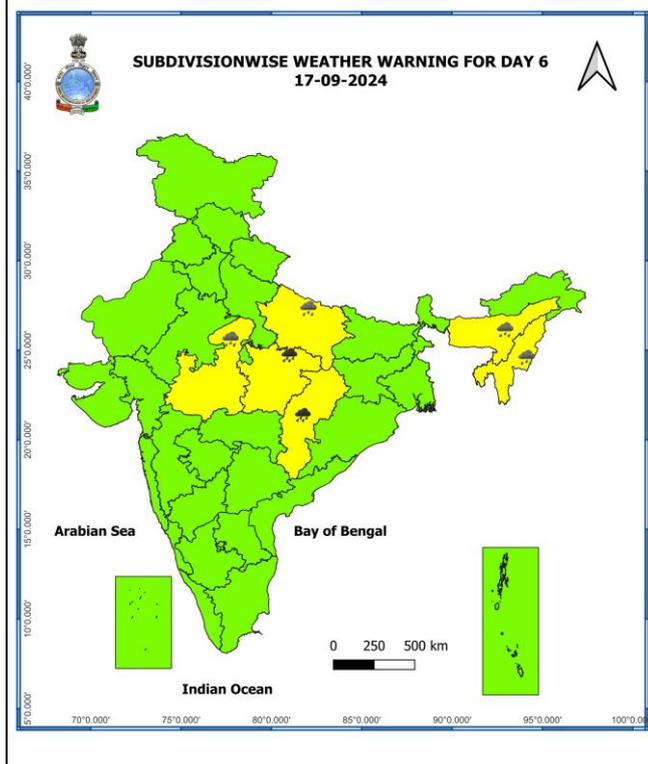
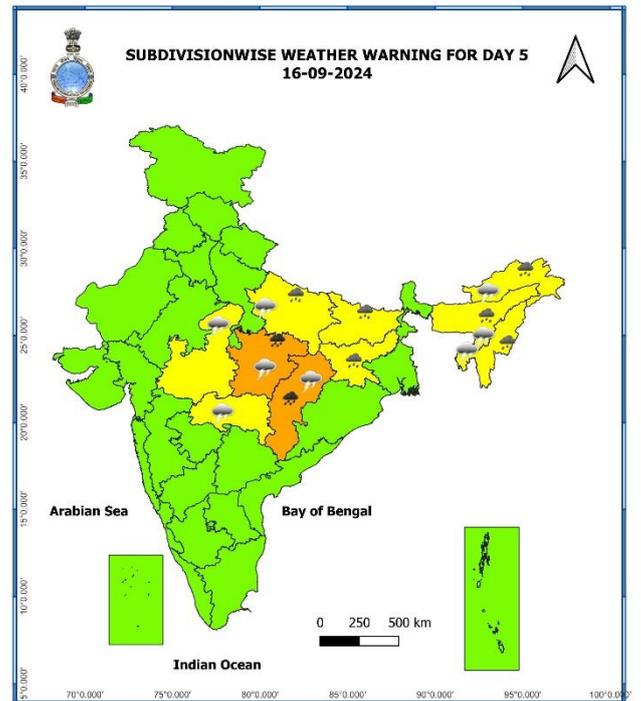
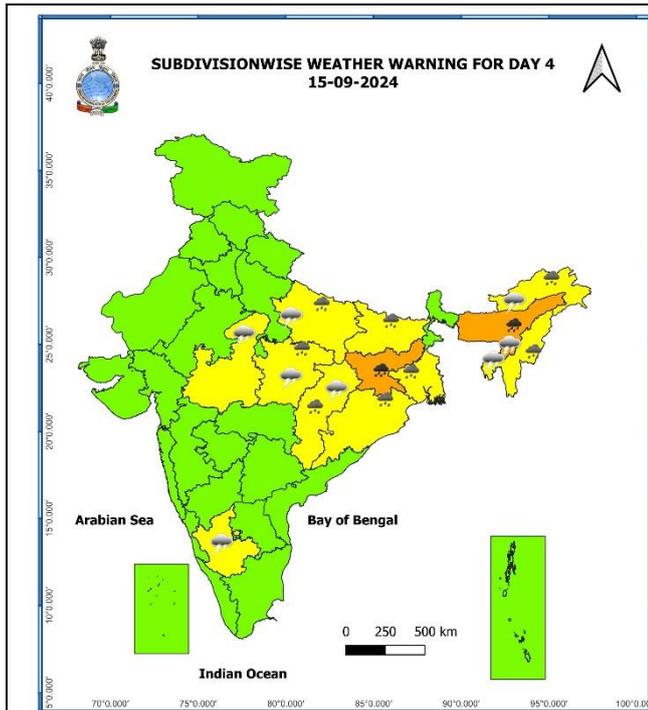
● LESS THAN 34 KT
○ 34-47 KT
○ ≥ 48 KT
— OBSERVED TRACK
— FORECAST TRACK
● CONE OF UNCERTAINTY

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Warning Graphics



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- 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

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Flash Flood Guidance

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Himachal Pradesh – Simla, Sirmour, Kullu and Kinnaur districts

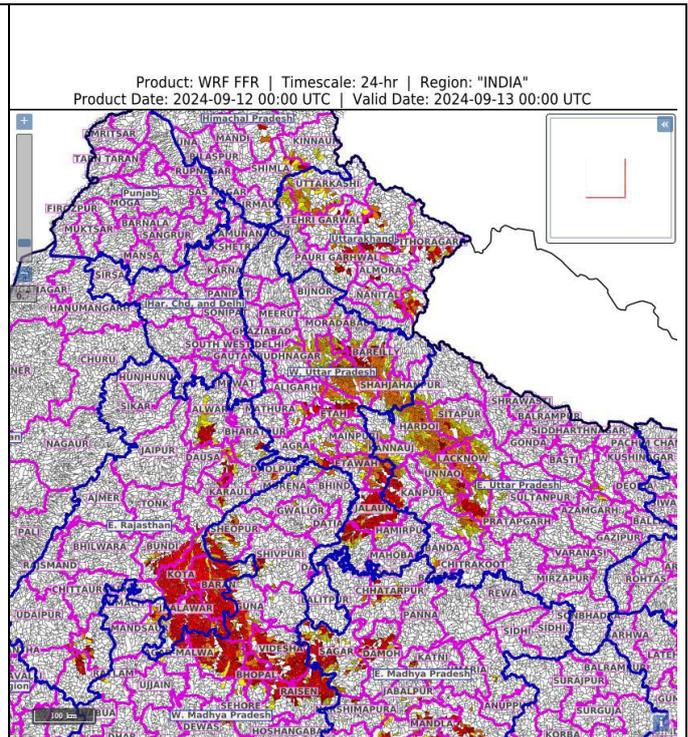
Uttar Pradesh – Moradabad, Rampur, Bareilly, Philiphit, Jyotibaphule Nagar, Sambhal, Badaun, Bulandsahar, Aligarh, Kanshiram Nagar, Mahamayanagar, Etah, Auraiya, Etah, Shahjahanpur, Firozabad, Mainpuri, Etawah, Auraiya, Hamirpur, Jalaun, Jhansi, Kannauj, Kanpur Dehat, Hardoi, Keeri, Sitapur, Lacknow, Unnao, Raibareli, and Barabanki districts.

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East Rajasthan – Kota, Baraj, Jhalawar, Pratapgarh, Alwar, Dausa, Bundi, Karauli and Bharatpur 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.



Flash Flood Risk

High Risk (Take Action)

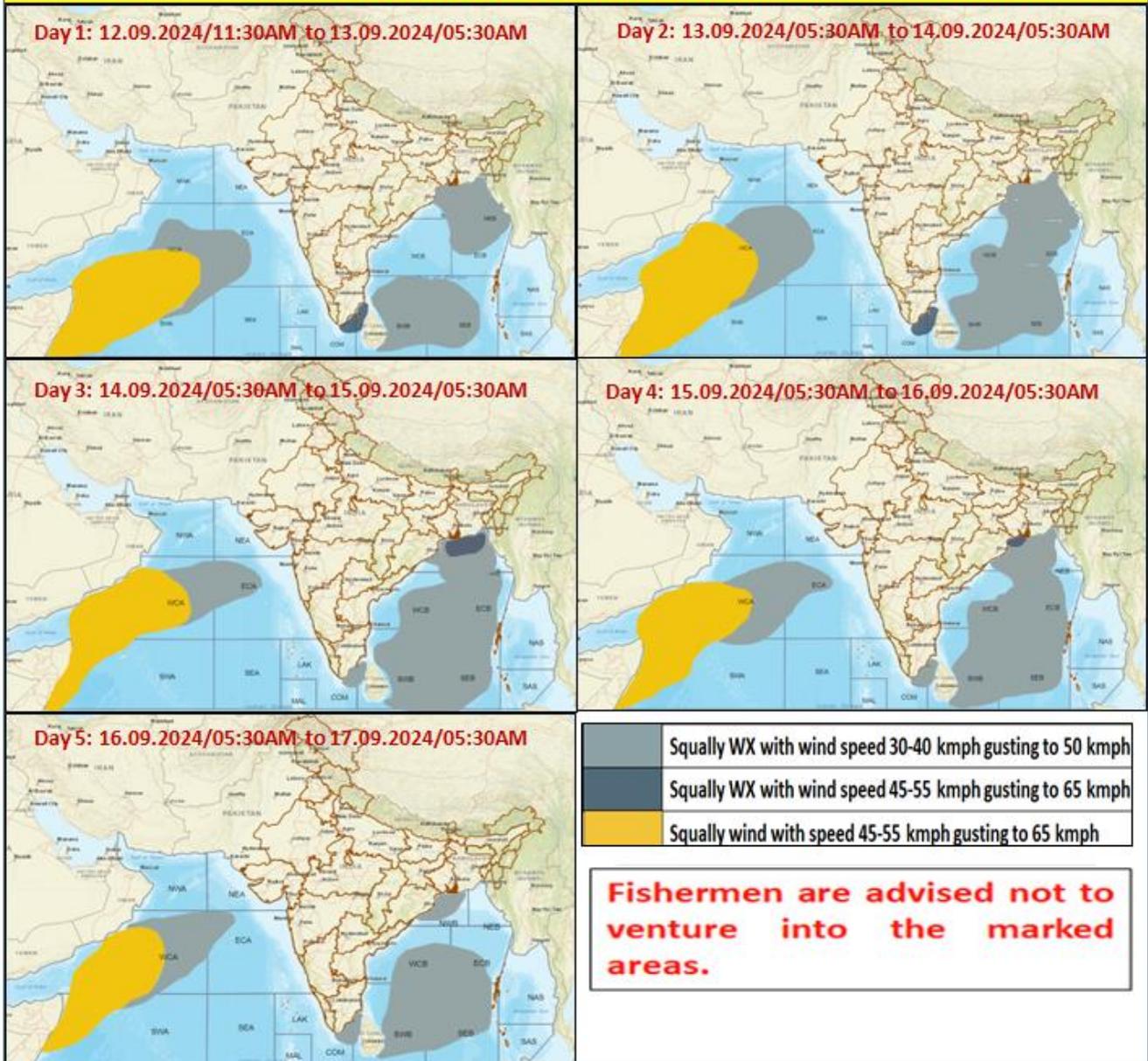
Moderate Risk (Be Prepared)

Low Risk (Be Updated)

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Fishermen Warning Graphics



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Significant rainfall recorded from 0830 hrs IST of yesterday, the 11th September to 0830 hrs IST of today, the 12th September, 2024 (cm):

- ❖ **West Madhya Pradesh:** Biaora (Rajgarh) 36, Gohad (Bhind) 22, Karera (Shivpuri) 22, Narwar (Shivpuri) 21, Rajgarh (Rajgarh) 21, Gwalior (Gwalior) 20, Mau (Bhind) 20, Bhandar (Datia) 19, Sabalgarh (Morena) 19, Datia-aws (Datia) 19, Dabra (Gwalior) 18, Ater (Bhind) 17, Ambah (Morena) 17, Porsa (Morena) 17, Ghatigaon (Gwalior) 17, Bhitwarwar (Gwalior) 17, Mihona (Bhind) 16, Mehgaon (Bhind) 16, Lahar (Bhind) 16, Chinor (Gwalior) 15, Gormi (Bhind) 15, Bhind-aws (Bhind) 15, Badoda (Sheopur) 15, Alipur(jaura) (Morena) 14, Morena-aws (Morena) 12, Narsingarh (Rajgarh) 12, Pachmarhi (Narmadapuram) 12, Roan (Bhind) 12, Badarwas (Shivpuri) 11, Shivpuri (Shivpuri) 11, Vijaypur (adp) (Sheopur) 10, Pichhore (Shivpuri) 10, Seodha(seondha) (Datia) 9, Shamsabad (Vidisha) 9, Khaniyadana (Shivpuri) 9, Indergarh (Datia) 9, Bamori (Guna) 9, Kailaras (Morena) 9, Navibagh Aet (Bhopal) 8, Kolaras (Shivpuri) 8, Ashoknagar-aws (Ashoknagar) 8, Bairad (Shivpuri) 7, Sheopur-aws (Sheopur) 7,
- ❖ **West Uttar Pradesh:** Agra (cwc) (Agra) 29, Jalesar (Etah) 23, Sadabad (Hathras) 23, Sikandra Rao (Hathras) 20, Hathras (Hathras) 19, Tundla (Firozabad) 17, Khairagarh (Agra) 17, Kasganj (Kasganj) 17, Sahawar (Kasganj) 17, Tahrauli (Jhansi) 15, Jhansi (Jhansi) 14, Fatehabad (Agra) 13, Etawah (cwc) (Etawah) 12, Sasani (Hathras) 12, Sahaswan (Badaun) 12, Vrindavan (Mathura) 12, Talbehat (Lalitpur) 11, Moth (Jhansi) 11, Narora (Bulandshahar) 11, Etah (Etah) 11, Jasrana (Firozabad) 11, Aligarh (Aligarh) 11, Karhal (Mainpuri) 10, Etmadpur (Agra) 10, Bah (Agra) 9, Auraiya (cwc) (Auraiya) 9, Gunnaur (Sambhal) 9, Madawara (Lalitpur) 9, Mainpuri (Mainpuri) 9, Shikohabad (Firozabad) 8, Kurawali (Mainpuri) 8, Mauranipur (Jhansi) 8, Kalpi Tehsil (Jalaun) 8, Kalpi Cwc (Jalaun) 8, Moradabad Cwc (Moradabad) 8, Moradabad Obsy (Moradabad) 8, Bareilly Pbo (Bareilly) 8, Pali (Lalitpur) 7, Moradabad (Moradabad) 7, Kasba Tanda (Rampur) 7, Aliganj (Etah) 7, Etawah Obsy (Etawah) 7, Ghiror (Mainpuri) 7,
- ❖ **East Rajasthan:** Rajakhera (Dholpur) 24, Dholpur Tehsil Sr (Dholpur) 19, Sawaimadhopur Tesil Sr (Sawai Madhopur) 16, Aklera (Jhalawar) 13, Sapau Sr (Dholpur) 11, Bari (Dholpur) 11, Shahabad (Baran) 11, Manohar Thana (Jhalawar) 10, Baseri Sr (Dholpur) 10, Bharatpur Tehsil Sr (Bharatpur) 10, Rupbas (Bharatpur) 9, Pipalda Sr (Kota) 9, Kathumer (Alwar) 8, Sarmathura Sr (Dholpur) 8, Kumher Sr (Bharatpur) 8, Khandar Sr (Sawai Madhopur) 8, Beir Sr (Bharatpur) 8, Deeg Sr (Bharatpur) 8, Lalsot (Dausa) 7, Nagar Sr (Bharatpur) 7, Nadbai (Bharatpur) 7, Bayana (Bharatpur) 7, Karauli (Karauli) 7, Baran (Baran) 7, Atru Sr (Baran) 7, Dhariabad (Pratapgarh) 7,
- ❖ **East Madhya Pradesh:** Prithvipur (Niwari) 23, Orchha (Niwari) 15, Niwari (distNiwari) 12, Chahatpur-aws (Chhatarpur) 12, Nowgong (Chhatarpur) 11, Mohangarh (Tikamgarh) 10, Lidhora (Tikamgarh) 9, Rajnagar (Chhatarpur) 8, Patera (Damoh) 7, Banda (Sagar) 7, Lavkushnagar (Chhatarpur) 7,
- ❖ **Uttarakhand:** Banbasa (CHAMPAWAT): 12, Champawat (CHAMPAWAT):9, Pantnagar (UDHAMSINGH NAGAR): 8, Lohaghat (CHAMPAWAT) : 8, Haldwani (NAINITAL) : 7,
- ❖ **East Uttar Pradesh:** Itwa (Siddharth Nagar) 11, Bhanpur (Basti) 7,