Tuesday 02 July 2019
EVENING
Time of Issue: 1715 hrs IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

**Significant Weather Features**

- Southwest monsoon has further advanced into some parts of East Rajasthan, most parts of Madhya Pradesh, remaining parts of Chhattisgarh, some more parts of Uttar Pradesh, most parts of Uttarakhand and some parts of Himachal Pradesh and Jammu & Kashmir. Northern Limit of Monsoon (NLM) passes through Lat. 22°N/Long. 60°E, Lat. 22°N/Long. 65°E, Dwarka, Ahmedabad, Rajgarh, Khajuraho, Lucknow, Jabalpur, Mandi and Lat. 33°N/Long. 79°E.
- The well marked low pressure area over southeast Jharkhand and adjoining areas of Odisha & Gangetic West Bengal now lies over western parts of Jharkhand and adjoining north Chhattisgarh & northwest Odisha. The associated cyclonic circulation extending up to 7.6 km above mean sea level tilting southwards with height persists.
- In association with its likely west-northwestward movement, conditions are very likely to become favourable for further advance of Southwest Monsoon into remaining parts of North Arabian Sea, Gujarat, Madhya Pradesh, some more parts of Rajasthan, Himachal Pradesh & Uttar Pradesh, some parts of Haryana, Chandigarh & Delhi and remaining parts of Uttarakhand during next 2-3 days.
- Due to likely west-northwestward movement of low pressure system, widespread rainfall with heavy to very heavy falls at a few places & extremely heavy falls at isolated places very likely over Konkan & Goa, East Madhya Pradesh and Chhattisgarh on 02nd July, West Madhya Pradesh and Vidarbha on 3rd July, 2019.

**Main Weather Observations**

- **Rain/Thundershowers** observed (from 0830 hours IST of today 0930 hours IST of today): at most places over Arunachal Pradesh, Assam & Meghalaya, West Bengal & Sikkim, Odisha, Jharkhand, Chhattisgarh, Konkan & Goa, Madhya Maharashtra and Coastal Karnatak; at many places over Jammu & Kashmir, Bihar, East Madhya Pradesh, Vidarbha, Telangana, Interior Karnataka and Lakshadweep; at a few places over Himachal Pradesh, Uttarakhand, East Rajasthan, West Madhya Pradesh, Kerala, Coastal Andhra Pradesh, Andaman & Nicobar Islands and Nagaland, Manipur, Mizoram & Tripura and at isolated places over Haryana, Chandigarh & Delhi, Uttar Pradesh, West Rajasthan, Saurashtra & Kutch, Marathwada and Rayalaseema.
- **Rainfall** recorded at 0830 hours IST of today (4 cm or more) are: Mumbai (Santacruz)-37; Mathura and Dahanu-19 each; Mahabaleshwar-18; Mumbai (Colaba)-14; Chandhli-12; North Lakhimpur-11; Itanagar-10; Bhubaneswar, Alibag and Malegaon-7 each; Malanjkhand, Puri, Jamshedpur and Golaghat-6 each; Hirakud, Balasore, Raisen, Nasik and Dibrugarh-5 each; Mangalore (Bajpe) and Kalimpong-4 each.
- **Heavy to very heavy rainfall** observed at a few places with Extremely Heavy falls at isolated places over Konkan & Goa; Heavy to very heavy rainfall observed at isolated places over Madhya Maharashtra and Odisha; Heavy rainfall observed at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- **Yesterday, Heat Wave Conditions** were observed in some parts over Punjab and Rajasthan; in isolated pockets over Delhi and Uttar Pradesh.
- **Thunderstorm** observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Uttarakhand, Madhya Pradesh, East Uttar Pradesh, Jharkhand, Vidarbha, Assam & Meghalaya and East Rajasthan.
- **Maximum temperature departures as on 01-07-2019:** Maximum temperatures were markedly above normal (5.1°C or more) at many places over Arunachal Pradesh; at a few places over Punjab and Assam & Meghalaya; appreciably above normal (3.1°C to 5.0°C) at many places over Haryana, Chandigarh & Delhi; at many places over Rajasthan, East Uttar Pradesh, Bihar and Sub-Himalayan West Bengal & Sikkim; at a few places over Himachal Pradesh,Uttarakhand, East Madhya Pradesh and Nagaland, Manipur, Mizoram & Tripura; at isolated places over West Uttar Pradesh and West Madhya Pradesh; above normal (1.6°C to 3.0°C) at many places over Saurashtra & Kutch, Kerala & Malabar and Tamil Nadu, Puducherry & Karaikal; at a few places over Coastal & South Interior Karnataka, Gujarat Region, Chhattisgarh, Jharkhand and Andaman & Nicobar Islands; at isolated places over Gangetic West Bengal and Lakshadweep. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Most Places over Odisha; at a few places over Konkan & Goa, Telangana and Jammu & Kashmir; at isolated places over Vidarbha and Coastal Andhra Pradesh & Yanam; below normal (-1.6°C to -3.0°C) at a few places over Madhya Maharashtra and near normal over rest of the country. **Yesterday, highest maximum temperature of 44.3°C recorded at Churu (West Rajasthan).**
- **Minimum temperature departures as on 02-07-2019:** Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over East Uttar Pradesh and Kerala; at a few places over Haryana, Chandigarh & Delhi; at isolated places over West Uttar Pradesh; above normal (1.6°C to 3.0°C) at most places over Andaman & Nicobar Islands and Sub-Himalayan West Bengal & Sikkim; at many places over Bihar, West Rajasthan and Tamil Nadu, Puducherry & Karaikal; at a few places over Punjab, Uttarakhand, East Rajasthan, West Madhya Pradesh and Gujarat State; at isolated places over Assam & Meghalaya. They are below normal (-1.6°C to -3.0°C) at most places over Marathwada; at many places over Jammu & Kashmir, Himachal Pradesh and East Madhya Pradesh; at isolated places over Odisha, Madhya Maharashtra, Vidarbha and near normal over rest part of the country.

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Meteorological Analysis (Based on 1430 hours IST)

♦ Southwest monsoon has further advanced into some parts of East Rajasthan, most parts of Madhya Pradesh, remaining parts of Chhattisgarh, some more parts of Uttar Pradesh, most parts of Uttarakhand and some parts of Himachal Pradesh and Jammu & Kashmir. Northern Limit of Monsoon (NLM) passes through Lat. 22°N/Long. 60°E, Lat. 22°N/Long. 65°E, Dwarka, Ahmedabad, Rajgarh, Khajuraho, Lucknow, Najibabad, Mandi and Lat. 33°N/Long. 79°E.

♦ The well marked low pressure area over southeast Jharkhand & adjoining areas of Odisha & Gangetic West Bengal now lies over western parts of Jharkhand and adjoining north Chhattisgarh & northwest Odisha. The associated cyclonic circulation extending upto 7.6 km above mean sea level tilting southwards with height persists.

♦ In association with its likely west-northwestward movement, conditions are very likely to become favourable for further advance of Southwest Monsoon into remaining parts of North Arabian Sea, Gujarat, Madhya Pradesh, some more parts of Rajasthan, Himachal Pradesh & Uttar Pradesh, some parts of Haryana, Chandigarh & Delhi and remaining parts of Uttarakhand during next 2-3 days.

♦ The cyclonic circulation over Central Pakistan & adjoining West Rajasthan extending upto 0.9 km above mean sea level persists.

♦ The trough at mean sea level from south Punjab to northeast Bay of Bengal persists and runs across Haryana, south Uttar Pradesh and centre of the Well Marked Low Pressure Area over western parts of Jharkhand.

♦ The embedded cyclonic circulation in the above trough extending upto 1.5 km above mean sea level over central parts of south Uttar Pradesh & neighbourhood persists.

♦ The cyclonic circulation over south Gujarat & neighbourhood between 2.1 & 5.8 km above mean sea level persists.

♦ The Western Disturbance as a cyclonic circulation at 3.1 km above mean sea level over northern parts of Jammu & Kashmir has moved away northeastwards.

Weather Forecast for next 5 days * up to 0830 hours IST of 07th July 2019

♦ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.

♦ No significant change in maximum temperatures likely over major parts of the country during next 2 days.

Weather Outlook for subsequent 2 days from 07th July, 2019 to 09th July, 2019

♦ Fairly widespread to widespread rainfall with isolated heavy to very heavy falls likely over West coast, east & northeast India, Uttar Pradesh, Himachal Pradesh and Uttarakhand.

♦ Scattered to Fairly widespread rainfall likely over the rest of the country outside Rajasthan, Gujarat and northwest Madhya Pradesh and southeast peninsular India, where rainfall is likely to be at isolated places.
Weather Warning during next 5 days *

02 July (Day 1): ♦ Thunderstorm/lightening accompanied with gusty wind (30-40 kmph) at isolated places very likely over Haryana, Chandigarh & Delhi, West Uttar Pradesh and Rajasthan; Thunderstorm accompanied with lightning at isolated places very likely over Bihar and Jharkhand.

♦ Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Konkan & Goa, Chhattisgarh and East Madhya Pradesh; Heavy To Very heavy rainfall at a few places over West Madhya Pradesh and Vidarbha; Heavy to very heavy rainfall at isolated places over Madhya Pradesh, South Gujarat region and Odisha; heavy rainfall at isolated places over Uttarakhand, Uttar Pradesh, Rajasthan, Jharkhand, Saurashtra & Kutch, Coastal Andhra Pradesh, Coastal & North Interior Karnataka, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Telangana.

♦ Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over Southwest & adjoining west central Arabian Sea, along & off Gujarat coast, north, Southwest & adjoining central Bay of Bengal and adjoining coastal areas of Odisha. Squally weather likely to prevail over north Maharashtra coast. Fishermen are advised not to venture into these areas.

03 July (Day 2): ♦ Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over West Madhya Pradesh and Vidarbha; Heavy To Very heavy rainfall at a few places over East Madhya Pradesh and Konkan & Goa; Heavy to very heavy rainfall at isolated places over Madhya Pradesh, Marathwada and East Rajasthan; heavy rainfall at isolated places over Uttarakhand, Chhattisgarh, South Gujarat region, Coastal Karnataka, Kerala, Arunachal Pradesh, Assam & Meghalaya and Telangana.

♦ Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over Southwest & adjoining west central Arabian Sea.

04 July (Day 3): ♦ Heavy To Very heavy rainfall at a few places very likely over West Madhya Pradesh and Konkan & Goa; Heavy to very heavy rainfall at isolated places over Uttar Pradesh and East Rajasthan; heavy rainfall at isolated places over Vidarbha, West Uttar Pradesh, East Madhya Pradesh, South Gujarat region, Sub-Himalayan West Bengal & Sikkim, Coastal Karnataka, Kerala, Arunachal Pradesh, Assam & Meghalaya, and Nagaland, Manipur, Mizoram & Tripura.

♦ Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over Southwest & adjoining west central Arabian Sea.

05 July (Day 4): ♦ Heavy to very heavy rainfall at isolated places likely over Uttarakhand; heavy rainfall at isolated places over West Madhya Pradesh, Himachal Pradesh, Uttar Pradesh, East Rajasthan, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Coastal Karnataka, Kerala, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over Southwest & adjoining west central Arabian Sea.

06 July (Day 5): ♦ Heavy to very heavy rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim, East Uttar Pradesh and Uttarakhand; heavy rainfall at isolated places over Bihar, Jharkhand, Odisha, Himachal Pradesh, Jammu & Kashmir, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Konkan & Goa, Coastal Karnataka, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over Southwest & adjoining west central Arabian Sea.

Kindly visit State level Meteorological Centre / Regional Meteorological Centre website for district wise forecast & color coded warning.

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### Table-1

#### 5 Day Rainfall Forecast (EVENING)

**02-July-2019**

<table>
<thead>
<tr>
<th>Met-Sub-Division</th>
<th>02-Jul Today</th>
<th>03-Jul Wed</th>
<th>04-Jul Thu</th>
<th>05-Jul Fri</th>
<th>06-Jul Sat</th>
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<tbody>
<tr>
<td>1. Andaman &amp; Nicobar Islands</td>
<td>SCT</td>
<td>FWS</td>
<td>FWS</td>
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<td>2. Arunachal Pradesh</td>
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<td>FWS</td>
<td>FWS</td>
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<td>FWS</td>
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<td>3. Assam &amp; Meghalaya</td>
<td>FWS</td>
<td>FWS</td>
<td>FWS</td>
<td>FWS</td>
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<td>4. N. M. M. &amp; T.</td>
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<td>FWS</td>
<td>FWS</td>
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<td>5. S.H. West Bengal &amp; Sikkim</td>
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<td>FWS</td>
<td>FWS</td>
<td>FWS</td>
<td>FWS</td>
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<td>6. Gangetic West Bengal</td>
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<td>FWS</td>
<td>FWS</td>
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<td>7. Odisha</td>
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<td>FMS</td>
<td>FWS</td>
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<td>9. Bihar</td>
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<td>SCT</td>
<td>FWS</td>
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<td>10. East Uttar Pradesh</td>
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<td>FWS</td>
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<td>11. West Uttar Pradesh</td>
<td>ISOL</td>
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<td>SCT</td>
<td>SCT</td>
<td>FWS</td>
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<td>12. Uttarakhand</td>
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<td>WS</td>
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<td>WS</td>
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<td>13. Haryana, Chd &amp; Delhi</td>
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<td>ISOL</td>
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<td>SCT</td>
<td>FWS</td>
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<td>14. Punjab</td>
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<td>15. Himachal Pradesh</td>
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<td>FWS</td>
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<td>16. Jammu &amp; Kashmir</td>
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<td>17. West Rajasthan</td>
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<td>18. East Rajasthan</td>
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<td>FWS</td>
<td>SCT</td>
<td>ISOL</td>
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<tr>
<td>19. West Madhya Pradesh</td>
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<td>21. Gujarat Region</td>
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<td>22. Saurashtra &amp; Kutch</td>
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<td>SCT</td>
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<td>23. Konkan &amp; Goa</td>
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<td>24. Madhya Maharashtra</td>
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<td>FWS</td>
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<td>25. Marathwada</td>
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<td>26. Vidharbha</td>
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<td>FWS</td>
<td>SCT</td>
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<td>27. Chhattisgarh</td>
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<td>FWS</td>
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<td>SCT</td>
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<tr>
<td>28. Coastal A. P. &amp; Yanam</td>
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<td>31. T.N.,Puducherry &amp; Karaikal</td>
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<td>ISOL</td>
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<td>32. Coastal Karnataka</td>
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<td>33. North Interior Karnataka</td>
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<td>34. South Interior Karnataka</td>
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<td>35. Kerala &amp; Mahe</td>
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<td>36. Lakshadweep</td>
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% Station Reporting Rainfall

<table>
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<tr>
<th>% Stations</th>
<th>Category</th>
<th>% Stations</th>
<th>Category</th>
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<tbody>
<tr>
<td>76-100</td>
<td>Widespread (Widespread Places)</td>
<td>26-50</td>
<td>Scattered (SCT) A Few Places</td>
</tr>
<tr>
<td>51-75</td>
<td>Fairly Widespread (FWS/ Many Places)</td>
<td>1-25</td>
<td>Isolated (ISOL)</td>
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<tr>
<td>No Rain</td>
<td>Dry</td>
<td></td>
<td></td>
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</tbody>
</table>

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Fig. 1: Maximum Temperature during past 24 hours

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Fig. 2: Minimum Temperature during past 24 hours

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Fig. 3: Departure from Normal of Maximum Temperatures

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Fig. 4: Departure from Normal of Minimum Temperatures

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02 July (Day 1): ♦ Thunderstorm/lightening accompanied with gusty wind(30-40 kmph) at isolated places very likely over Haryana, Chandigarh & Delhi, West Uttar Pradesh and Rajasthan; Thunderstorm accompanied with lightning at isolated places very likely over Bihar and Jharkhand.

♦ Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Konkan & Goa, Chhattisgarh and East Madhya Pradesh; Heavy To Very heavy rainfall at a few places over West Madhya Pradesh and Vidarbha; Heavy to very heavy rainfall at isolated places over Madhya Maharashtra, South Gujarat region and Odisha; heavy rainfall at isolated places over Uttarakhand, Uttar Pradesh, Rajasthan, Jharkhand, Saurashtra & Kutch, Coastal Andhra Pradesh, Coastal & North Interior Karnataka, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Telangana.

♦ Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over Southwest & adjoining west central Arabian Sea, along & off Gujarat coast, north, Southwest & adjoining central Bay of Bengal and adjoining coastal areas of Odisha. Squally weather likely to prevail over north Maharashtra coast. Fishermen are advised not to venture into these areas.

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(Service to the Nation since 1875)
03 July (Day 2); ♦ Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over West Madhya Pradesh and Vidarbha; Heavy To Very heavy rainfall at a few places over East Madhya Pradesh and Konkan & Goa; Heavy to very heavy rainfall at isolated places over Madhya Maharashtra, Marathwada and East Rajasthan; heavy rainfall at isolated places over Uttarakhand, Chhattisgarh, South Gujarat region, Coastal Karnataka, Kerala, Arunachal Pradesh, Assam & Meghalaya and Telangana.

♦ Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over Southwest & adjoining west central Arabian Sea.
Thursday 04 July 2019

04 July (Day 3): ♦ Heavy To Very heavy rainfall at a few places very likely over West Madhya Pradesh and Konkan & Goa; Heavy to very heavy rainfall at isolated places over Uttarakhand and East Rajasthan; heavy rainfall at isolated places over Vidarbha, West Uttar Pradesh, East Madhya Pradesh, South Gujarat region, Sub-Himalayan West Bengal & Sikkim, Coastal Karnataka, Kerala, Arunachal Pradesh, Assam & Meghalaya, and Nagaland, Manipur, Mizoram & Tripura.

♦ Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over Southwest & adjoining west central Arabian Sea.

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Friday 05 July 2019

♦ Heavy to very heavy rainfall at isolated places likely over Uttarakhand; heavy rainfall at isolated places over West Madhya Pradesh, Himachal Pradesh, Uttar Pradesh, East Rajasthan, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Coastal Karnataka, Kerala, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over Southwest & adjoining west central Arabian Sea.

05 July (Day 4); ♦ Heavy to very heavy rainfall at isolated places likely over Uttarakhand; heavy rainfall at isolated places over West Madhya Pradesh, Himachal Pradesh, Uttar Pradesh, East Rajasthan, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Coastal Karnataka, Kerala, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over Southwest & adjoining west central Arabian Sea.

* Red color warning does not mean “Red Alert” Red color 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 www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798 (Service to the Nation since 1875)
06 July (Day 5): ♦ **Heavy to very heavy rainfall** at isolated places likely over Sub-Himalayan West Bengal & Sikkim, East Uttar Pradesh and Uttarakhand; **heavy rainfall** at isolated places over Bihar, Jharkhand, Odisha, Himachal Pradesh, Jammu & Kashmir, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Konkan & Goa, Coastal Karnataka, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **Rough to very rough sea conditions** (with wind speed reaching 40-50 kmph) are likely to prevail over Southwest & adjoining west central Arabian Sea.

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(Similar to the Meteor since 1875)
WARNING

WARNING (TAKE ACTION)

ALERT (BE PREPARED)

WATCH (BE UPDATED)

NO WARNING (NO ACTION)

SPATIAL DISTRIBUTION (% of Stations reporting)

<table>
<thead>
<tr>
<th>% Stations</th>
<th>Category</th>
<th>% Stations</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>76-100</td>
<td>Widespread (WS/Most Places)</td>
<td>26-50</td>
<td>Scattered (SCT/A Few Places)</td>
</tr>
<tr>
<td>51-75</td>
<td>Fairly Widespread (FWS/Many Places)</td>
<td>1-25</td>
<td>Isolated (ISOL)</td>
</tr>
</tbody>
</table>

Dry (No station reported Rainfall)

Probabilistic Forecast

<table>
<thead>
<tr>
<th>Terms</th>
<th>Probability of Occurrence (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unlikely</td>
<td>&lt; 25</td>
</tr>
<tr>
<td>Likely</td>
<td>25 - 50</td>
</tr>
<tr>
<td>Very Likely</td>
<td>50 - 75</td>
</tr>
<tr>
<td>Most Likely</td>
<td>&gt; 75</td>
</tr>
</tbody>
</table>

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