



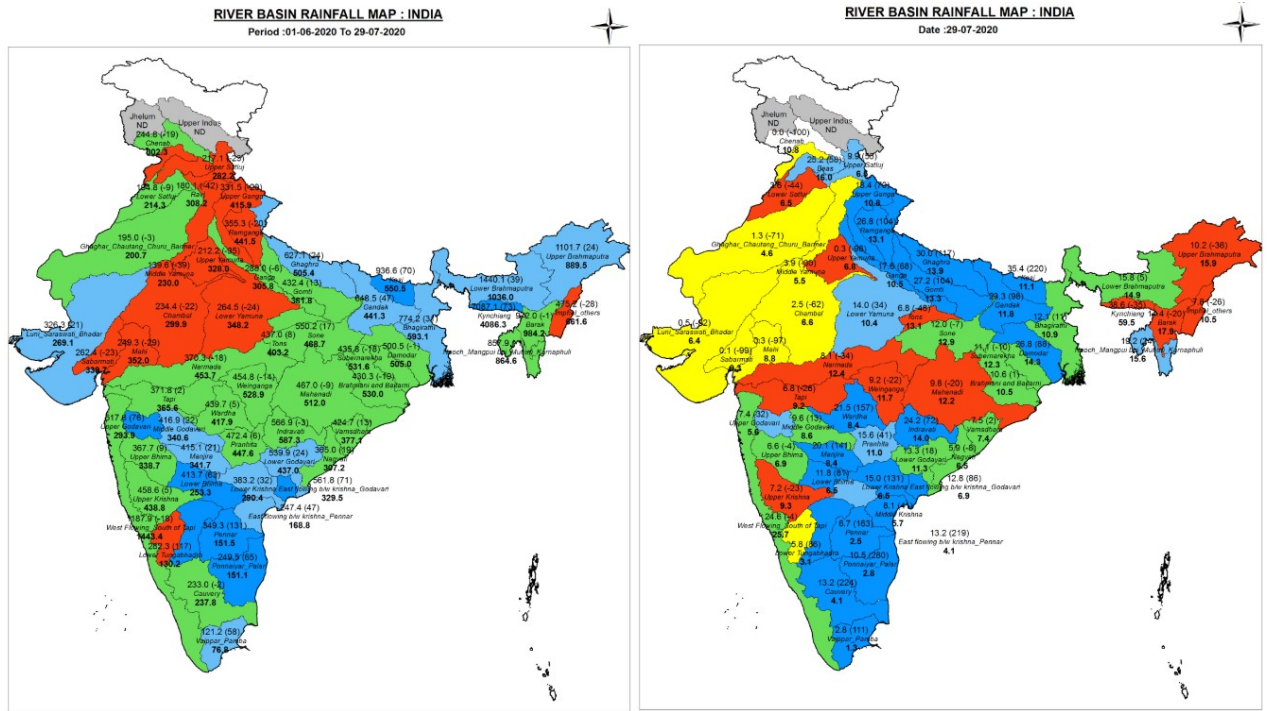
Central Water Commission

Daily Flood Situation Report cum Advisories

29-07-2020

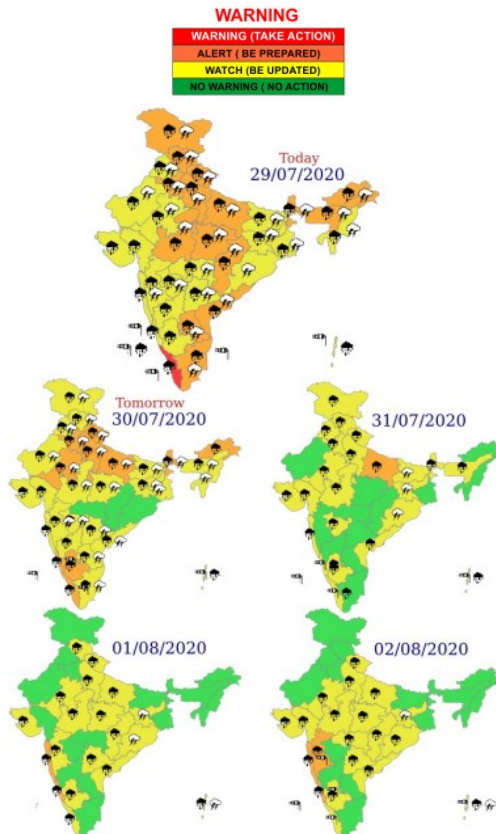
1.0 IMD information

1.1 Basin wise departure from normal of cumulative and daily rainfall



Notes: a) Small figures indicate actual rainfall (mm), while bold figures indicate Normal rainfall (mm)
b) Percentage departures of rainfall are shown in brackets.

1.2 Rainfall forecast for next 5 days issued on 29th July 2020 (Midday) by IMD



2.0 CWC inferences

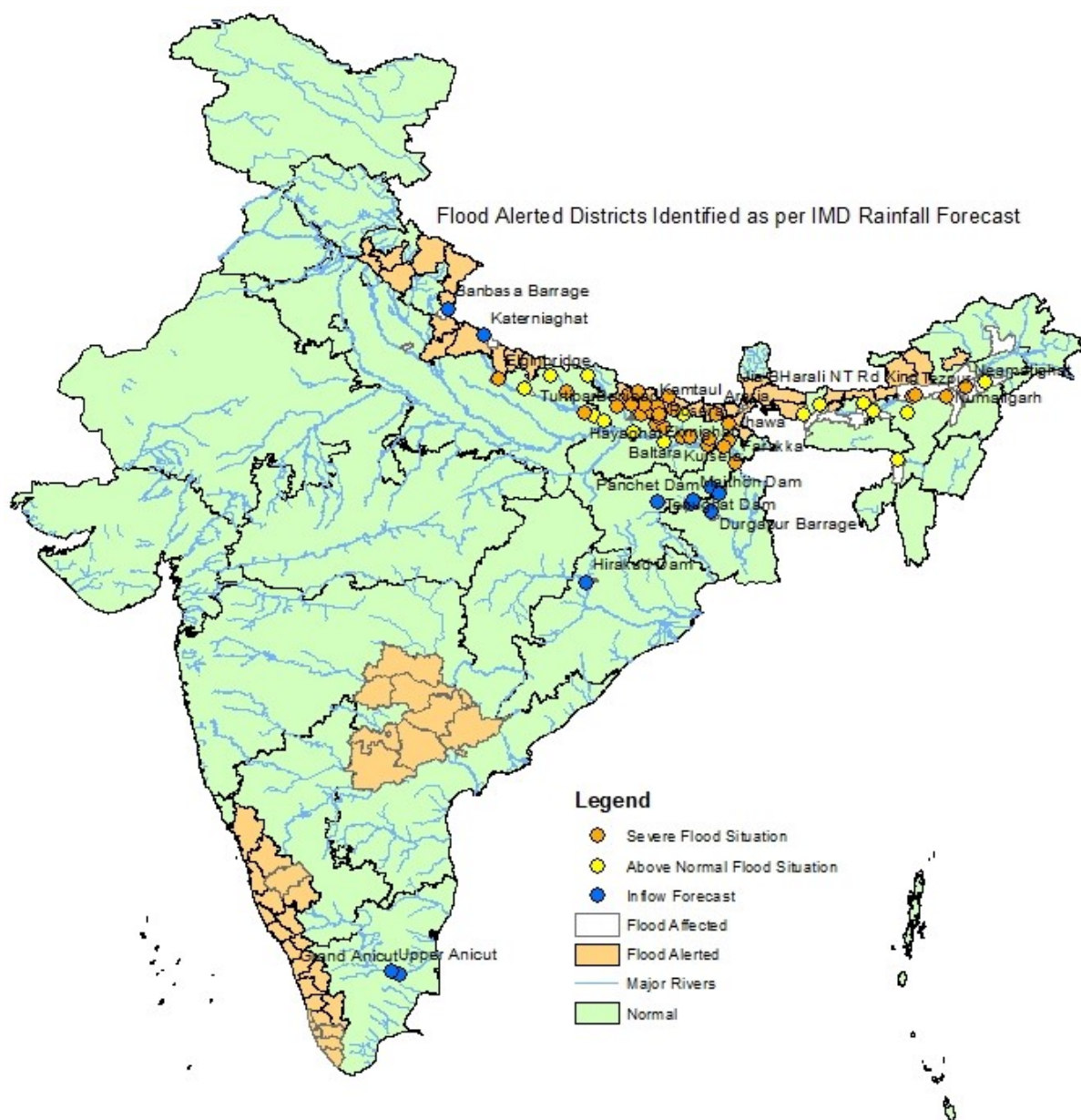
2.1 Flood Situation on 29th July 2020

On 29th July 2020, 33 Stations (21 in Bihar, 7 in Assam, 3 in Uttar Pradesh and 1 each in Jharkhand & West Bengal) are flowing in Severe Flood Situation and 20 stations (8 in Assam, 7 in Bihar, 3 in Uttar Pradesh and 1 each in Kerala and Arunachal Pradesh) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 11 Barrages and Dams (4 in Jharkhand, 2 in Tamilnadu, 2 in West Bengal and 1 each in Uttarakhand, Uttar Pradesh and Odisha).

| PART - I: LEVEL FORECAST | | |
|--|---|------------------------------|
| S.No. | Flood Situations | Numbers of Forecasting Sites |
| A | Extreme Flood Situation: (Site (s) where the previous Highest Flood Level (HFL) is exceeded or equalled) | 0 |
| B | Severe Flood Situation: (Site (s) where water level is touching or exceeding the Danger Level but below Highest Flood Level (HFL)) | 33 |
| C | Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level) | 20 |
| Total number of sites above Warning Level (A+B+C) | | 53 |
| PART - II: INFLOW FORECAST | | |
| Number of sites for which inflow forecasts issued: (Where Inflows are equal or exceed the specified Threshold Limit for a particular reservoir / barrage) | | 11 |

Details can be seen in link :- http://cwc.gov.in/sites/default/files/cfcr-cwcdfb29072020_5.pdf

2.1.1 Summary of Flood Situation as per CWC Flood Forecasting Network



2.2 CWC Advisories

- The western end of the monsoon trough now shifted southwards and lies near to its normal position, however its eastern end is north to its normal position.
- The cyclonic circulation over Southwest & adjoining Westcentral Bay of Bengal off South Andhra Pradesh & North Tamilnadu coasts upto middle tropospheric levels and a trough runs from this cyclonic circulation to west Vidarbha at lower tropospheric levels. Another cyclonic circulation lies over northeast Madhya Pradesh & neighbourhood and a trough runs from this cyclonic circulation to Sikkim at lower tropospheric levels.
- Under the influence of above meteorological conditions, widespread rainfall with isolated heavy to very heavy falls very likely over Uttarakhand, Jammu Division, Uttar Pradesh, Punjab, Haryana, Chandigarh & Delhi and Rajasthan, Sub-Himalayan West Bengal & Sikkim, northeastern states (mainly over Arunachal Pradesh and Assam & Meghalaya), Madhya Pradesh, Chhattisgarh, South Gujarat, Coastal Andhra Pradesh, Tamilnadu and Kerala & Mahe during 29th-30th July. Isolated extremely heavy falls are also likely over Kerala & Mahe on today, the 29th July.

Based on the above rainfall forecast the following advisories are issued by CWC for various States:

2.2.1 Bihar, Jharkhand and Gangetic West Bengal

Heavy rainfall is likely to occur over Bihar today, the 29th July, 2020 in the Districts of Purb Champaran, Sitamarhi, Madhubani, Supaul, Araria and Kishanganj and over Sub-Himalayan West Bengal & Sikkim during 29th - 30th July. River levels in most of the north bank tributaries of Ganga are likely to continue in Severe Flood Situation with slow falling trend for next 3-4 days.

River Parman in Araria District, Mahananda in Katihar & Purnia Districts, River Kosi in Khagaria & Katihar Districts, River Adhwara in Darbhanga District, River Bagmati in Darbhanga, Sitamarhi and Muzaffarpur Districts, Rivers Kamla & Kamalabalan in Madhubani District, River Burhi Gandak in Purbi Champaran, Muzaffarpur & Samastipur Districts, River Ganga in Bhagalpur District and River Gandak in Gopalganj District are flowing in Severe Flood Situation. Above rivers are flowing in Above Normal flood situation in many of the downstream location.

2.2.2 North Eastern States, Sub-Himalayan West Bengal & Sikkim

Widespread rainfall with isolated heavy to very heavy rainfall is likely to occur over North Eastern states, Sub-Himalayan West Bengal & Sikkim during 29th - 30th July. Due to this, the river levels are likely to continue in Above Normal to Severe Flood Situation for another 1-2 days.

River Brahmaputra is flowing in Above Normal to Severe Flood Situation with falling trend all along the course from Dibrugarh to Dhubri the levels are expected to fall slowly.

Rivers Jia-Bharali in Sonitpur District, Beki in Barpeta District, Kopili in Morigaon District and Dhansiri (South) in Golaghat District in Brahmaputra Basin are flowing in Severe Flood Situation. The levels are expected to rise further from 29th July.

2.2.3 Himachal Pradesh, Uttarakhand & Uttar Pradesh

Due to ongoing heavy to very heavy rain in parts of Uttarakhand and Uttar Pradesh and the forecasted rainfall on 29th and 30th July, there is chance of rise in water levels in Alaknanda, Mandakini, Bhagirathi, Ramganga, Ganga, Sharda, Sarju, Ghaghra, Rapti rivers. River Ghaghra in Barabanki & Ballia Districts and River Rapti in Gorakhpur District are flowing in Severe Flood Situation. **There is moderate to high risk of flash floods in Himalayan regions of Himachal Pradesh and Hilly regions of Uttarakhand during next 24 to 48 hours.**

2.2.4 Kerala and Karnataka

Heavy to very heavy rainfall has been forecasted in almost all Districts of Kerala during the next 2 days with isolated extremely heavy rainfall in Idukki District. Due to ongoing rainfall, the river levels have started rising in many of the rivers. River Karuvannur at Vellaikadavu in Thiruvananthapuram district and River Manimala at Kalloopara in Pathanamthitta District of Kerala are flowing in above normal flood situation with rising trend. Some increase in inflows is likely in many of the reservoirs. However, most of the reservoirs in Kerala are having storage around 30 to 60% of their full capacity, the present spell of rainfall will aid in increasing the storage of various dams and no spillage is expected.

Due to forecasted heavy to very heavy rain in Coastal Districts and in Western Ghat areas of Karnataka for next 2 days, there is likely rise in levels of Rivers in Shivamogga, Chikmagalur, Hassan & Kodagu Districts and close watch is to be maintained.

Harangi Dam in Cauvery Basin of Kodagu District is filled upto 94% of its full capacity. Similarly, Upper Tunga Project (Gajanur Dam) is at 100% of its capacity and Kabini Dam is filled upto 79% of its full capacity.

Present level the level at Harangi Dam is at 870.99 m today compared to its FRL of 871.42 m. Since there is forecast of heavy to very heavy rainfall in Kodagu District for the next 3 days, there is likelihood of rise in inflows which will take it to FRL. As per Operation and Maintenance manual of Harangi Dam, the rule level in the month of August is 2835 feet (864.1m) which has been exceeded by about 6.89 m as on today morning. Hence it is advised

that releases should be increased to accommodate the incoming floods during the next 3-4 days.

Presently, the reservoir level at Upper Tunga Project (Gajanur Dam) in Shivamogga District of Karnataka is at 588.24 m which is its FRL. Due to rainfall forecast in its upper catchment for next 3-4 days, releases should be accordingly increased.

Presently, the river level at Kabini Dam in Mysuru District of Karnataka is 694.03 m compared to its FRL of 696.16 m. Since there is forecast of heavy to very heavy rain in Wynad District of Kerala, the inflows into Kabini Dam are likely to rise. Necessary precautions may be taken for releases from dam after informing all downstream areas in Karnataka and lower riparian States.

Impact Based Actions

Strict vigil is to be maintained in all the above States & Districts for next 2-3 days. Breaches in Embankment if any may aggravate further flood like situation which should be monitored and all efforts to fill any such breaches should be done at the earliest. Maximum vigil has to be maintained along the rail and road tracks and bridges on these rivers and regulate traffic suitably to avoid any incident. All district administrations can take effective measures taking into account the prevailing Covid19 situation in relief camps being set up in these districts.

3. Flood Affected Districts

Assam: Jorhat, Golaghat, Sonitpur, Morigaon, Dhubri, Barpeta
Bihar: Araria, Purnia, Katihar, Madhubani, Darbhanga, Muzaffarpur, Purba Champaran, Khagaria, Sitamarhi, Gopalganj, Samastipur, Bhagalpur
Uttar Pradesh: Gorakhpur, Ballia, Barabanki

4. Flood Alerted Districts

Arunachal Pradesh: Districts along river reaches of Siang, Lohit, Kameng, Manas
Assam: Districts along river reaches of Brahmaputra, Manas, Beki, Gaurang, Aie, Sankosh
West Bengal: Districts along river reaches of Teesta, Torsa, Raidak, Jaldhaka
Sikkim: Districts along river reaches of Teesta
Bihar: Districts along North Bank Tributaries of river Ganga
Uttar Pradesh: Districts along North Bank Tributaries of River Ganga
Uttarakhand: Districts along rivers Alaknanda, Bhagirathi, Ramganga, Sharda, Sarju.
Karnataka: Districts along West Flowing Rivers in Uttara Kannada, Dakshina Kannada, Udupi and Shivamogga.
Kerala: Districts of Pathanamthitta, Idukki, Kottayam and Ernakulam Districts.