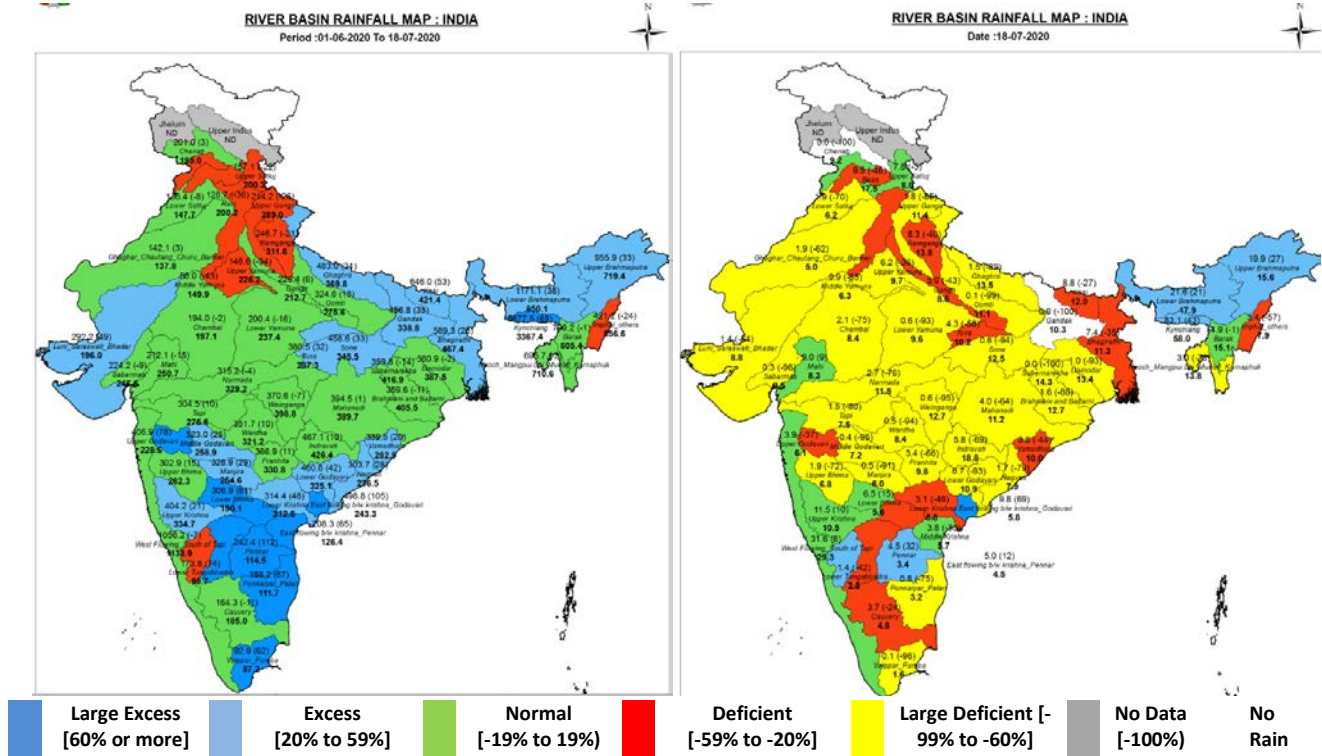




Central Water Commission
Daily Flood Situation Report cum Advisories
18-07-2020

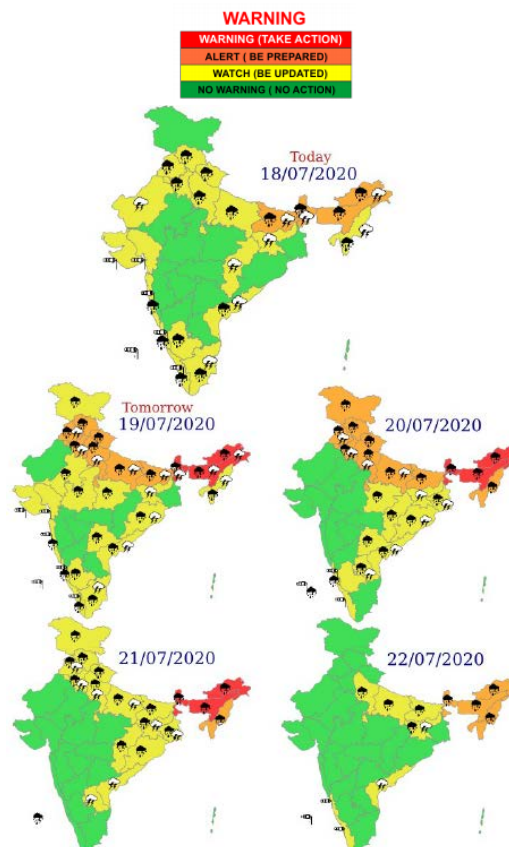
1.0 IMD information

1.1 Basin wise departure from normal of cumulative rainfall 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 18th July 2020 (Midday) by IMD



2.0 CWC inferences

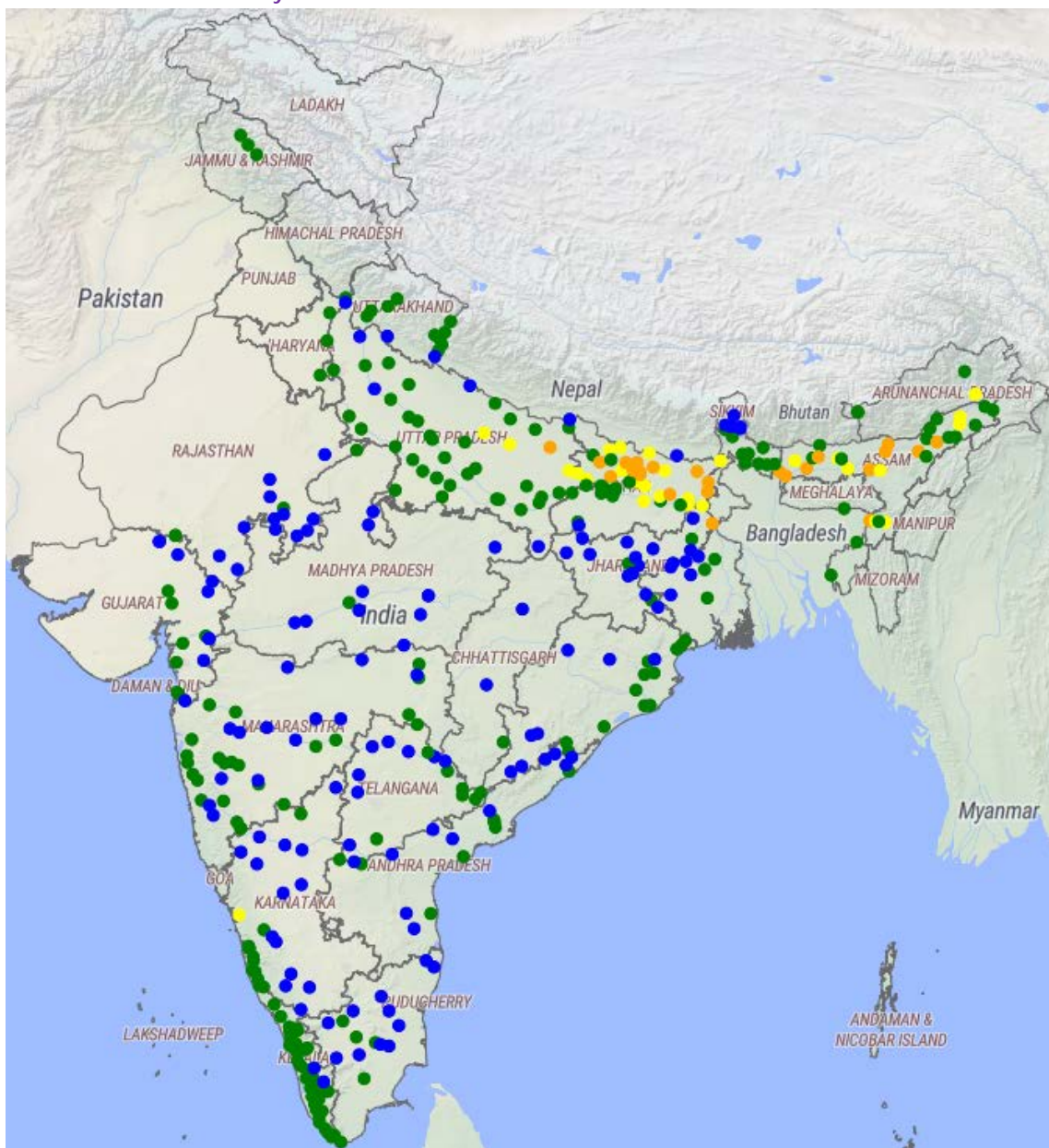
2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 18th July 2020, 25 stations (13 in Bihar, 10 in Assam, 1 in Uttar Pradesh and 1 in West Bengal) are flowing in Severe Flood Situation and 27 stations (13 in Bihar, 8 in Assam, 3 in Uttar Pradesh, 1 in Karnataka, 1 in Jharkhand, and 1 in Arunachal Pradesh) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 12 Barrages and Dams (6 in Karnataka, 2 in Tamilnadu, 1 in Andhra Pradesh, 1 in Telangana, 1 in Odisha and 1 in West Bengal)

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))	25
C	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	27
Total number of sites above Warning Level (A+B+C)		52
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)		12

Details can be seen in link http://cwc.gov.in/sites/default/files/dfb202018-07-2020revised_5.pdf

2.1.1 Flood Situation on 18th July 2020



2.2 CWC Advisories

- Meteorological Conditions: Western part of monsoon trough lies south of its normal position and a cyclonic circulation lies over coastal Saurashtra & neighbourhood. This cyclonic circulation is likely to become less marked during next 24 hours. At the same time, the entire Monsoon Trough is also most likely to shift northwards closer to the foothills of the Himalayas during 19th – 21st July.
- In addition: i) Interaction between mid-level westerlies and lower level easterlies from the Arabian Sea over northwest India very likely from today onwards. ii) Convergence of moist southerly/southwesterly winds from Bay of Bengal over Northeast & adjoining East India very likely from today onwards.
- Weather Forecast: Under the influence of the above favourable meteorological conditions, rainfall distribution & intensity is very likely to increase over the northern and northeastern parts of the country.
- Fairly widespread to widespread rainfall with: i) Isolated heavy to very heavy falls is very likely over Western Himalayan Region during 18-20 July; Punjab, Haryana & Chandigarh and Uttar Pradesh during 19-21 July, 2020. ii) Isolated Extremely heavy falls also very likely over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya during 19th - 21st July, over Arunachal Pradesh during 19th - 20th July and over Nagaland on 21st July.
- Intense thunderstorm & lightning potential zone: Moderate to severe thunderstorm & lightning very likely over northwest Uttar Pradesh during next 12 hours.

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

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

It is seen from the Map showing Departure from Normal rainfall both Cumulative and Daily that North Eastern States and West Bengal have received Excess rainfall cumulatively from 1st June to 18th July as well as for today. This is likely to continue in view of the forecasted rainfall. Since the catchment is already wet, the excess rainfall is likely to generate quick runoff. Accordingly, a Statewise advisories regarding likely flood situation is given under:

Arunachal Pradesh

River Siang at Passighat in East Siang District has started rising again and started flowing in Above Normal Flood Situation and heavy rainfall has already started in its catchment. Due to forecasted rainfall during next 3 days there is likelihood of rapid rise in Water Levels in Rivers Siang, Lohit, Dibang, Subansiri, Kameng and Noa-Dehing in the districts of East and West Siang, Lohit, Anjaw, Changlang, Lower Dibang, Kameng and Subansiri Districts. There are chances of flash floods also in association with cloud burst in Hilly regions.

Assam

Brahmaputra

River Brahmaputra is in Severe to Above Normal Flood Situation all along its course from Dibrugarh to Dhubri. Station wise situation based on 0800 hrs level of today is as under:

Dibrugarh (Dibrugarh District): River is rising and is in Above Normal Flood Situation. Since extreme rainfall is likely to continue for 3-4 more day, there is likelihood of river crossing Danger Level by tomorrow and remain in Severe to Extreme flood situation during the next 2-3 days. Since there is high probability of extreme rain in catchment areas of River Siang, Lohit, Dibang, there is a 10-15% probability of River touching or crossing HFL at Dibrugarh.

Neamatighat (Jorhat District): River is rising and is flowing 1.12 m above its Danger Level of 85.04 m; with forecast of 2-3 days extreme rainfall in its upstream reaches, there is 25-50% probability of river touching HFL between 21st and 22nd July.

Tezpur (Sonitpur District): River is rising and is flowing 0.14 m above its Danger Level of 65.23 m. River is already showing rising trend and with rainfall forecast extending upto 3 days in Tezpur and adjoining catchments of Jia-Bharali, there is 25-50% probability of river touching HFL during this wave of flood.

Downstream of Tezpur river is falling from Guwahati to Dhubri in association with previous wave of flood. However, the river levels are likely to rise from tomorrow onwards in Guwahati in association with present rising trend witnessed upto Tezpur. There is forecast of heavy to very heavy rainfall in Kopili sub-basin and Dhansiri (N) sub-basin also during the period 20th to 22nd July, this may further aggravate the flooding at Guwahati and its downstream upto Dhubri.

Tributaries of Brahmaputra

Rivers Jia-Bharali in Sonitpur District, Kopili in Nagaon & Morigaon District, Beki in Districts of Chirang, Barpeta District are flowing in Severe Flood Situation. In view of the forecasted rainfall most of the North & South bank tributaries are expected to rise rapidly during the next 3 to 4 days affecting most of the districts in Brahmaputra Basin in Assam.

West Bengal & Sikkim

Due to forecasted rainfall in Sub Himalayan West Bengal & Sikkim, rivers Teesta, Jaldhaka, Torsa, Raidak are expected to rise rapidly during the next 3 to 4 days. There is possibility of Severe to Extreme flooding in these rivers in the Districts of Jalpaiguri, Coochbehar & Alipurduar of West Bengal and in all the Districts of Sikkim during the same period. Further due to forecasted rainfall, there is likelihood of rise in levels of Mahananda and its tributaries in Malda District.

2.2.2 Bihar

Due to forecasted rainfall in Bihar & catchment areas of Mahananda in Sub-Himalayan West Bengal, rivers Mahananda, Kosi, Kamlabalan, Adhwara Group, Bagmati, Buri Gandak, Gandak and Ghaghra are likely to rise again and is expected to flow in Severe Flood Situation in most of the Northern Districts of Bihar.

2.2.3 Uttar Pradesh, Uttarakhand, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi

Due to forecasted rainfall between 18th to 20th July, there is likelihood of sudden rise in water levels in Sutlej, Yamuna, Alaknanda, Bhagirathi, Ramganga, Ghaghra, Sharda and Rapti rivers. Since this is the first spell of heavy rainfall, the likelihood of Severe Flooding is less probable and depends on the intensity of rainfall and its spread. However, there is likelihood of flash floods in Himalayan regions of HP and Uttarakhand. However river Ghaghra may again flow in Severe Flood Situation in the Districts of Barabanki, Ayodhya and Ballia.

2.2.4 Karnataka, Telangana & Andhra Pradesh

Heavy rainfall is continuing in Karnataka in the Coastal Districts and in Western Ghat areas, many of the rivers have started rising. Since heavy rainfall is likely to continue along Ghats of Shivamogga, Chikmagalur, Hassan & Kodagu Districts, there is likelihood of inflow into all major reservoirs in Karnataka for next 2 days and close watch is to be maintained.

River Cauvery is rising in its upper reaches upstream of Krishna Raja Sagar due to which the inflows into the dam have started picking up. The other dams namely Harangi, Hemavathi and Kabini Dam is also getting inflows. However all the reservoirs are having storage around 50% of their full capacities.

River Krishna is getting inflow of around 1000 cumec in Alamatti Dam. As on date Almatti Dam is having storage of 70% and Narayanpur Dam is having storage of 89%. The excess inflows likely to be received due to forecasted rainfall should accordingly be regulated and released as per rule curves of both the dams. Reservoir Operation as per latest rule curves may have to be continued as is being done presently to avoid any downstream flooding and upstream submergence.

P D Jurala Project in Jogulamba Gadwal District of Telangana is almost 90% filled up and it is releasing excess water to Srisaillam Dam in Kurnool District of Andhra Pradesh. Since rainfall is expected to reduce, this flow is likely to continue for one more day before reducing.

Impact Based Actions

Strict vigil is to be maintained in all the above Districts for next 3-4 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 Covid 19 situation in relief camps being set up in these districts.

3. Flood Affected Districts

Assam: Cachar, Golaghat, Sonitpur, Goalpara, Karimganj, Dhubri, Jorhat, Morigaon, Barpeta
Bihar: Madhubani, Araria, Darbhanga, Muzaffarpur, Purnia, Katihar, Khagaria, Sitamarhi, Gopalganj
Uttar Pradesh: Gorakhpur

4. Flood Alerted Districts

Arunachal Pradesh: Districts along river reaches of Siang, Lohit, Kameng, Manas
Assam: Districts along river reaches of 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 river Yamuna, Alaknanda, Bhagirathi and Ramganga. Flash Floods in association with cloud burst in Hilly regions
Himachal Pradesh: Districts along Sutlej, Yamuna and its tributaries. Flash Floods in association with cloud burst in Hilly regions
Karnataka: Districts along West Flowing Rivers and along Krishna upto Almatti Dam