



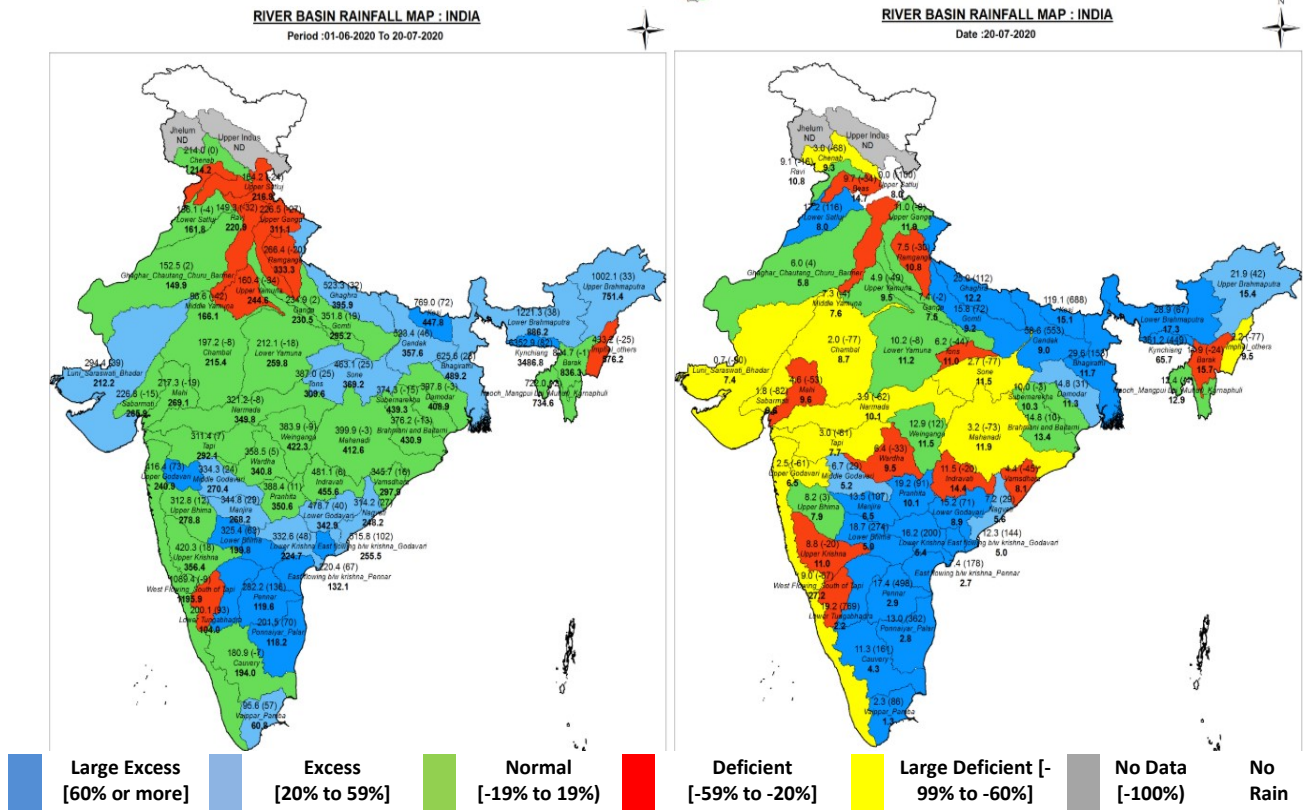
Central Water Commission

Daily Flood Situation Report cum Advisories

20-07-2020

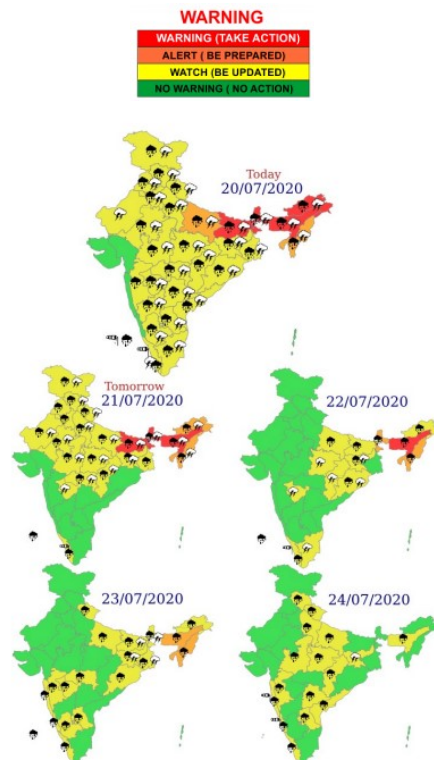
1.0 IMD information

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 20th July 2020 (Midday) by IMD



2.0 CWC inferences

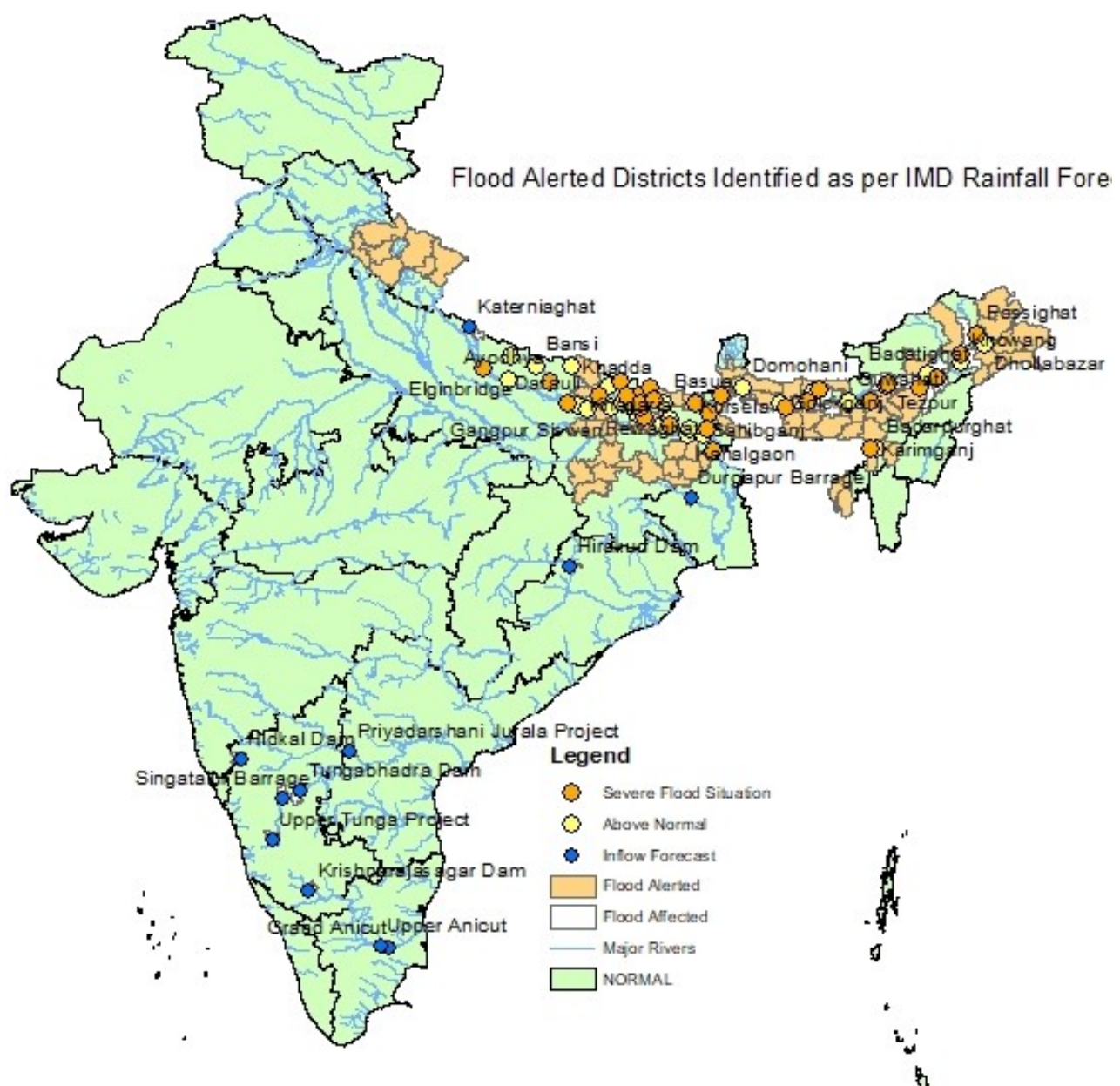
2.1 Flood Situation on 20th July 2020

On 20th July 2020, 30 stations (15 in Bihar, 10 in Assam, 3 in Uttar Pradesh, 1 in Arunachal Pradesh and 1 in West Bengal) are flowing in Severe Flood Situation and 25 stations (11 in Bihar, 8 in Assam, 4 in Uttar Pradesh, 1 in Jharkhand and 1 in West Bengal) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 11 Barrages and Dams (5 in Karnataka, 2 in Tamil Nadu, 1 each in Uttar Pradesh, Telangana, West Bengal 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))	30
C	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	25
Total number of sites above Warning Level (A+B+C)		55
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-cwcdfb20072020_5.pdf

2.1.1 Summary of Flood Situation as per CWC Flood Forecasting Network



2.2 CWC Advisories

- The western part of monsoon trough lies north of its normal position and eastern part is along the foothills of the Himalayas. In addition, the convergence of moist southerly/southwesterly winds from Bay of Bengal over Northeast & adjoining East India and from Arabian Sea over northwest India at lower tropospheric levels very likely to continue during next 2-3 days.
- Under the influence of the above meteorological conditions: i) Widespread rainfall activity with isolated heavy to very heavy falls very likely over Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 4-5 days and rainfall intensity very likely to decrease thereafter. Isolated extremely heavy falls also very likely over Bihar and Arunachal Pradesh on 20th July; over Assam & Meghalaya and Sub- Himalayan West Bengal & Sikkim on 20th & 21st July. ii) Fairly widespread to widespread rainfall with isolated heavy to very heavy falls very likely over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and Uttar Pradesh during next 2 days and rainfall intensity & distribution very likely to decrease significantly thereafter.
- Intense thunderstorm & lightning potential zone: Moderate to severe thunderstorm & lightning at isolated places very likely over East Uttar Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, north & East Madhya Pradesh, Vidarbha and Marathwada 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 and Bihar

It is seen from the Map showing Departure from Normal rainfall both Cumulative and Daily, that North Eastern States, West Bengal and Bihar have received Excess rainfall cumulatively from 1st June to 20th 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 continues to flow in Severe Flood Situation with heavy rainfall 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 Flood Situation all along its course from Dibrugarh to Dhubri except in Guwahati where it is flowing in Above Normal Flood situation with rising trend. It is flowing in Severe Flood Situation in Goalpara, Dibrugarh, Jorhat and Sonitpur with rising trend with steady trend in Dhubri District. Due to forecasted rainfall, there is likelihood of Severe to Extreme Flood Situation in main Brahmaputra from Dibrugarh to Dhubri Districts.

Tributaries of Brahmaputra

Rivers Jia-Bharali in Sonitpur District, Kopili in Nagaon District, Beki in Barpeta District, Dhansiri (South) in Golaghat District in Brahmaputra Basin and river Kushiyara in Karimganj District in Barak Basin 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 as well as in catchment of trans-boundary rivers coming from Bhutan, rivers Teesta, Jaldhaka, Torsa, Raidak are expected to rise rapidly during the next 2 to 3 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, Jharkhand and Gangetic West Bengal

Rivers Parman at Araria District, Mahananda in Kishanganj, Purnia & Katihar District, Kosi in Khagaria District, Adhwara in Madhubani and Darbhanga Districts, River Bagmati in Darbhanga, Sitamarhi and Muzaffarpur Districts, River Kamla and River Kamlabalan in Madhubani District, River Burhi Gandak in Samastipur and Gandak at Gopalganj District are flowing in Severe Flood Situation. Above rivers are flowing in Above Normal flood situation in many of the downstream location with rising trend. Besides this, River Ganga is in Above Normal Flood Situation from Patna to Bhagalpur District with slow rising trend or steady trend.

Due to forecasted rainfall in Bihar & in catchment areas of Mahananda in Sub-Himalayan West Bengal as well as in catchment of trans-boundary rivers coming from Nepal, rivers Mahananda, Kosi, Kamlabalan, Adhwara Group, Bagmati, Buri Gandak, Gandak and Ghaghra are likely to rise further and is expected to flow in Severe to Extreme Flood Situation in most of the Northern Districts of Bihar. Due to combined effect of all North Bank Tributaries, river Ganga is expected to

flow in Above Normal to Severe Flooding from Patna to Bhagalpur in Bihar and Sahebganj District in Jharkhand and Murshidabad District in West Bengal.

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

Due to forecasted rainfall between 20th to 21st 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. River Ghaghra in the Districts of Barabanki, Ayodhya and Ballia and River Rapti in Gorakhpur District may again flow in Severe Flood Situation.

Impact Based Actions

Strict vigil is to be maintained in all the above States & 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 Covid19 situation in relief camps being set up in these districts.

3. Flood Affected Districts

Arunachal Pradesh: East Siang

Assam: Jorhat, Golaghat, Sonitpur, Morigaon, Barpeta, Goalpara, Dhubri, Karimganj

Bihar: Purnia, Katihar, Araria, Madhubani, Darbhanga, Muzaffarpur, Kishanganj, Khagaria, Sitamarhi, Gopalganj

Uttar Pradesh: Gorakhpur, Barabanki, Ballia

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 river Yamuna, Alaknanda, Bhagirathi and Ramganga. Flash Floods in association with cloud burst in Hilly regions and in Glaciers

Himachal Pradesh: Districts along Sutlej, Yamuna and its tributaries. Flash Floods in association with cloud burst in Hilly regions and in Glaciers