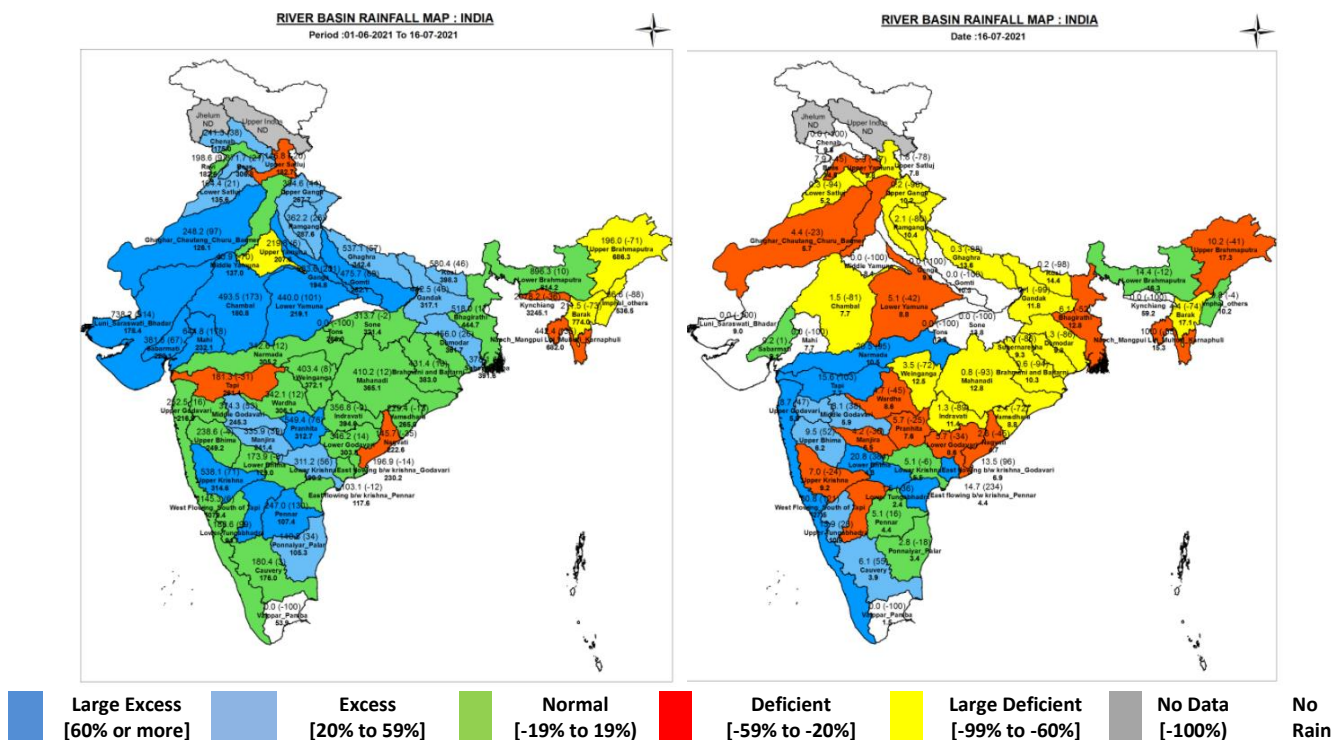




Central Water Commission
Daily Flood Situation Report cum Advisories
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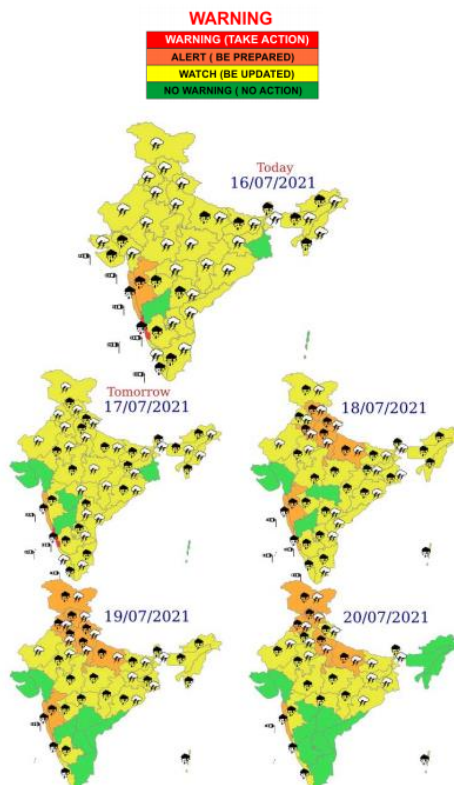
1.0 Rainfall Situation

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 16th July, 2021 (Midday) by IMD



- i) Extremely heavy falls over Coastal Karnataka on 16th & 17th; Konkan & Goa and ghat areas of Madhya Maharashtra on 18th - 19th; Uttar Pradesh on 18th; Jammu division on 19th; Uttarakhand on 18th & 19th July, 2021. (ii) Heavy to very heavy rainfall over Himachal Pradesh & East Uttar Pradesh during 18th - 20th; Punjab on 19th & 20th; Haryana, East Rajasthan & West Uttar Pradesh on 18th & 19th; Sub-Himalayan West Bengal & Sikkim & Coastal Karnataka during 16th - 19th; Konkan & Goa & ghat areas of Madhya Maharashtra during 16th - 20th; South Interior Karnataka & Kerala & Mahe during 16th - 18th and Arunachal Pradesh and Assam & Meghalaya on 18th July, 2021.

2.0 Flood Situation and Advisories

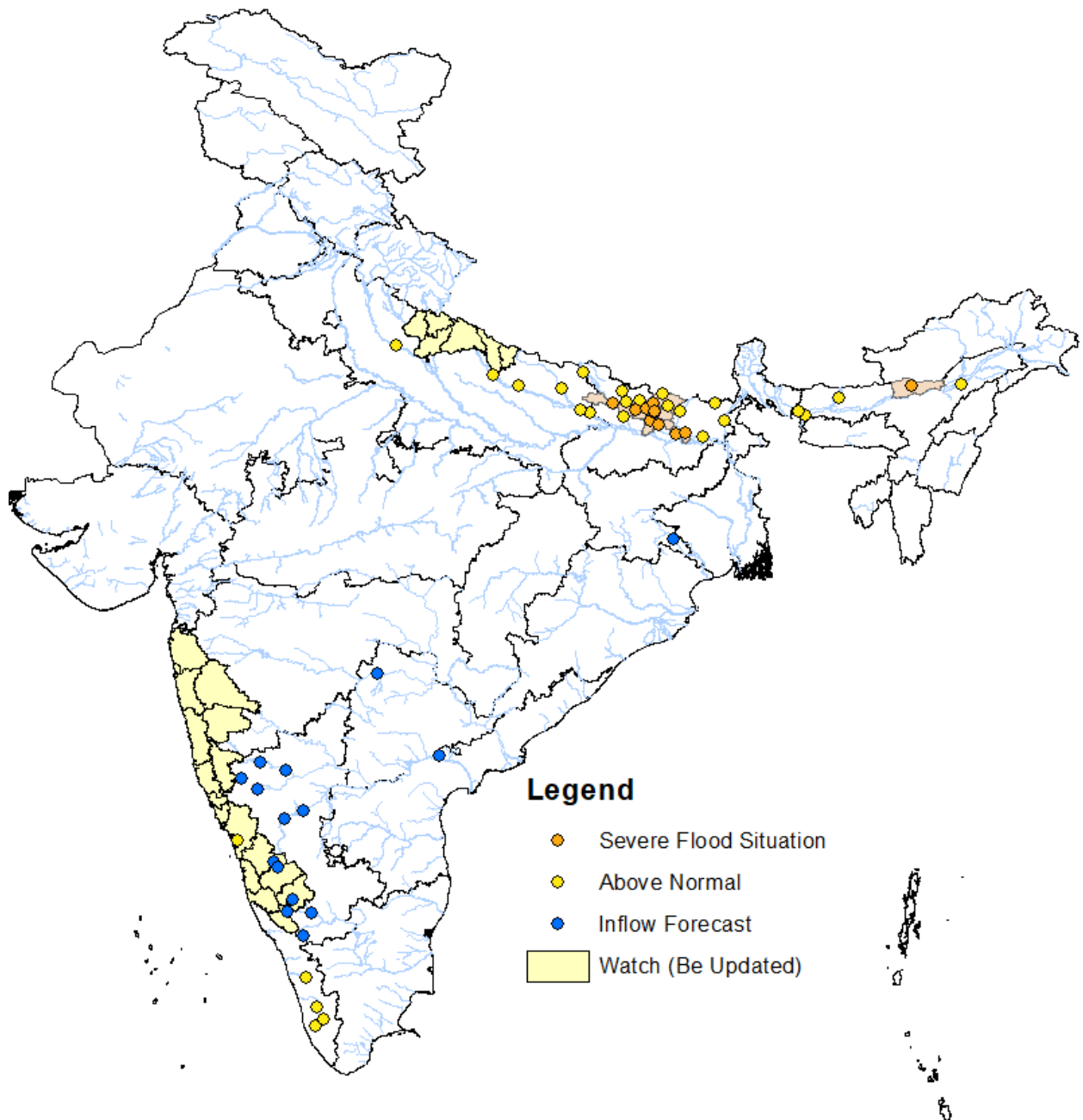
2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 16th July, 2021, 11 Stations (10 in Bihar and 1 in Assam) are flowing in Severe Flood Situation and 26 stations (11 in Bihar, 6 in Uttar Pradesh, 4 each in Assam & Kerala and 1 in Karnataka) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 15 Barrages & Dams (12 in Karnataka and 1 each in Andhra Pradesh, Jharkand & Telangana)

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))	11
C	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	26
Total number of sites above Warning Level (A+B+C)		37
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)		15

Details are given at link: http://cwc.gov.in/sites/default/files/dfbcwc16072021_5.pdf

2.1.1 Flood Situation Map



2.2 CWC Advisories

2.2.1 West Flowing Rivers between Tapi and Tadri - Mumbai, Konkan and Goa, Coastal Karnataka

IMD has predicted Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls at isolated places very likely over Coastal Karnataka; Heavy to Very Heavy Rainfall at isolated places over Konkan & Goa. Many of the rivers in the region have already started rising. River Aghanashini in Uttara Kannada District and River Swarna in Udupi District are flowing in above normal flood situation with falling trend. 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. However, most of the dams in this reach such as Linganamakki, Supa and Varahi are having only 15-41% of their full capacity, this rain may help in increasing the storage of these reservoirs and no major spillage is expected.

In **Mumbai**, watch for urban flooding situation has to be kept.

Cauvery basin

Due to forecasted heavy to very heavy rainfall in the next 2-3 days, heavy inflows can be expected in Harangi, Hemavathi, Kabini and KRS dams and close watch is to be maintained as they are in rising trend. Kabini Dam is 83.5% full with water level at 695.01 m compared to rule level of 694.25m and Harangi dam is 79% filled. Necessary precautions may be taken for releases from dam after informing all downstream areas in Karnataka and lower riparian States.

2.2.2 Godavari and Krishna basin– Andhra Pradesh, Telangana, Karnataka & Maharashtra

Almatti Dam is having storage of 73% and Narayanpur Dam is having storage of 85%. 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 to avoid any downstream flooding and upstream submergence.

Upper Tunga/ Gajanur dam is at FRL. Due to predicted rainfall, there is likelihood of increased inflow into dam. Releases, if any, should be done following SOP & after informing all downstream districts/lower riparian state. As per current hydrological situation inflow into Thungabhadra dam (Bellary Dist.) and Singatalur Barrage (Gadag dist.) are expected to rise.

Water levels may rise slowly from due to rainfall in sub catchments of Godavari Basin. As Laxmi Barrage, is passing (1,36,320 Cusecs) water due to inflows into the barrage, the same will reach downstream and water levels of downstream sites will rise, hence it is advised that the sites from Kaleswaram to Dowlaiswaram to be watchful. Inflow into Sriramsagar is in falling trend.

2.2.3 Ganga Basin – Bihar, Uttar Pradesh

In Nepal Kosi, Bagmati and Kankai river basins have received light to moderate rains with isolated very heavy rains. Currently river Ghagra, Rapti, Gandak, Bagmati, Kamla, Burhi Gandak, Adhwara, Mahananda, Parman & Kosi are flowing in severe to above normal flood situation in districts Barabanki, Ayodhya, Gorakhpur, Kushinagar (of Uttar Pradesh), Siwan, Purba Champaran, Muzaffarpur, Gopalganj, Darbhanga, Sitamarhi, Madhubani, Khagaria, Supaul, Samastipur, Araria & Katihar (of Bihar). Ganga is flowing in above normal flood situation in district Budaun of Uttar Pradesh.

Abatement of water levels in above mentioned rivers of Bihar are expected to be very slow.

2.2.5 Brahmaputra and its tributaries – Assam, Arunachal Pradesh & Sub Himalayan Bengal

Jia-Bharali river is flowing in severe flood situation in Sonitpur district, while river Brahmaputra in Jorhat & Dhubri districts and Beki at Barpeta are flowing in above normal flood situation.

3. Flash Flood Guidance

IMD has issued flash flood risk over many watersheds and neighbourhood for Mumbai, Coastal Karnataka, Konkan & Goa and met sub-divisions.

24 hours Flash Flood Risk Outlook **Till 1130 IST of 17.07.2021:**

Moderate to High Risk over many watersheds and neighborhood of **Konkan & Goa and Coastal Karnataka met sub division** in next 24 hours.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as depicted in map **due to expected persistent rainfall occurrence in next 24 hours.**



3. Storage Position in Dams where Inflow forecast is being issued by CWC as on 16th July 2021

Reservoirs shown in red are having gross storage capacity more than 80% and those in orange are having gross storage greater than 60%. Close watch is to be maintained at these reservoirs whenever high QPF has been indicated in next 120 hours.

						QPF categories (mm)				
						0	0.1-10	11-25	26-37	38-50
						51-75	76-100	>100		
#	Reservoir/ Dams	River/ Sub-Basin / Basin	State	US/ DS District	Rainfall situation					
					Day 1	Day 2	Day 3	Day 4	Day 5	
1	Pulichinthala	Krishna/Lower Krishna/ Krishna	Andhra Pradesh	Nalgonda(Tel)/ Guntoor, Krishna(AP)						
2	Kaddam	Kaddam/Middle Godavari/Godavari	Telangana	Adilabad,Nirmal/ Mancheria						
3	Panchet	Damodar/ Damodar East/ Ganga	Jharkhand	Dhanbad						
4	Maithon	Barakar/Barakar East/Ganga	Jharkhand	Dhanbad						
5	Almatti	Krishna/ Upper Krishna/ Krishna	Karnataka	Kolhapur (Maharashtra)/ Bagalkote (Karnataka)						
6	Narayanpur	Krishna/Upper Krishna/Krishna	Karnataka	Bagalkot, Vijayapura/ Raichur,Yadgir						
7	Kabini	Kabini/Kabini/ Cauvery	Karnataka	Wayanad (Kerala)/ Mysuru (Karnataka)						
8	Karanja	Karanja/Manjera/ Godavari	Karnataka	Bidar (Kar), Vikarabad (Telangana)/ Bidar (Kar)						
9	Harangi	Cauvery/Cauvery/ Cauvery	Karnataka	Kodagu/ Mandya						
10	Warana	Warana/Warana/ Warana	Maharashtra	Kolhapur, Sangli						
11	Yeldari	Purna/Purna/ Godavari	Maharashtra	Parbhani, Hingoli						
12	Rana PratapSagar	Chambal/Upper Chambal/Ganga	Rajasthan	Neemuch(MP)/ Dholpur, Kota, Bundi (Raj)						
13	SomKamlaAmba	Som/Mahi B/ Mahi	Rajasthan	Udaipur/ Dungarpur						
14	Sri PadaYellampally	Godavari/Middle Godavari/Godavari	Telangana	Mancheria/ Jaishankar Bhupalpally						
15	Musi	Musi/ Lower Krishna/ Krishna	Telangana	Nalgonda						
16	Vaigai	Vaigai/Upper Vaigai/EF Rivers b/w Cauvery & Kanyakumari	Tamil Nadu	Theni/Madurai						
17	Bhavanisagar	Bhavani/ Middle Cauvery/ Cauvery	Tamil Nadu	Palakad (Kerala), Nilgiri (TN), Coimbatore (TN)/ Erode (TN)						

Note- Based on above information, Project Authority may regulate the reservoirs as per standard operating manuals/ rule levels to avoid downstream flooding and upstream submergence.