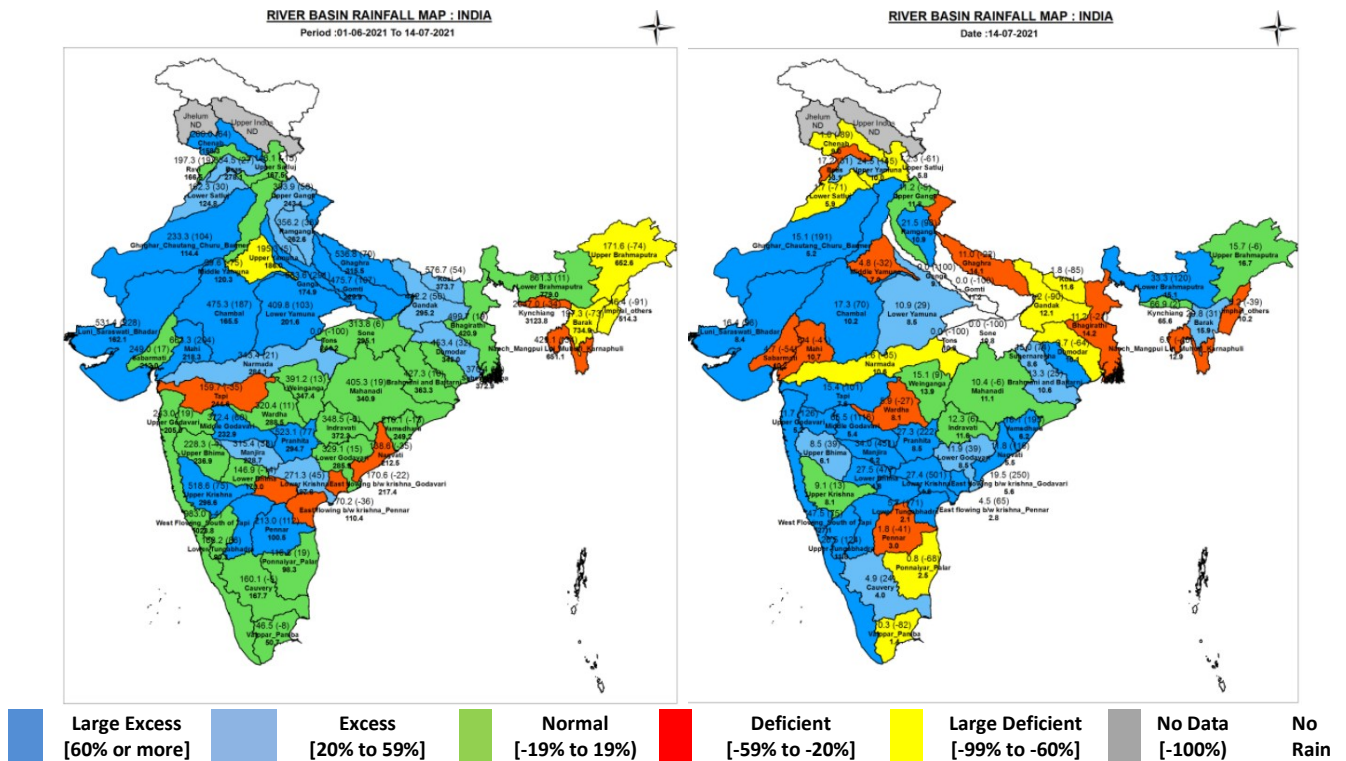




Central Water Commission
Daily Flood Situation Report cum Advisories
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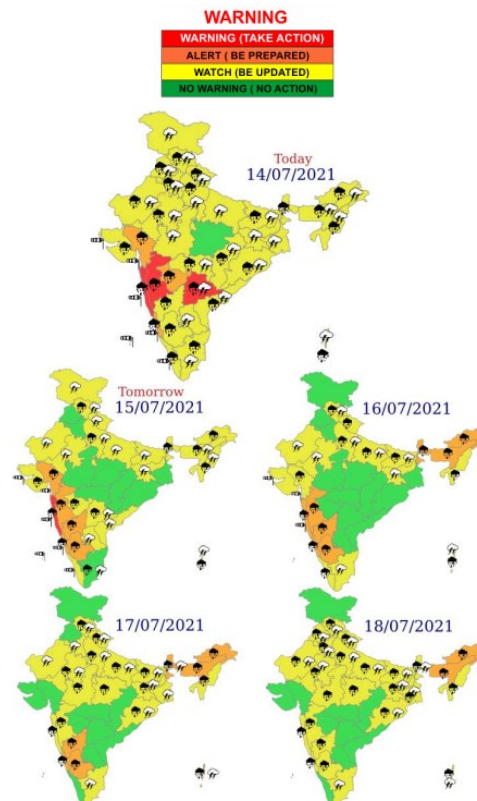
1.0 Rainfall Situation

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 14th July, 2021 (Midday) by IMD



- Extremely Heavy Falls over Konkan & Goa during 14th - 16th July, over ghat areas of Madhya Maharashtra and Telangana on 14th; Heavy to very heavy rainfall over Himachal Pradesh, Uttarakhand, Gujarat and Coastal Karnataka on 14th July 2021.

2.0 Flood Situation and Advisories

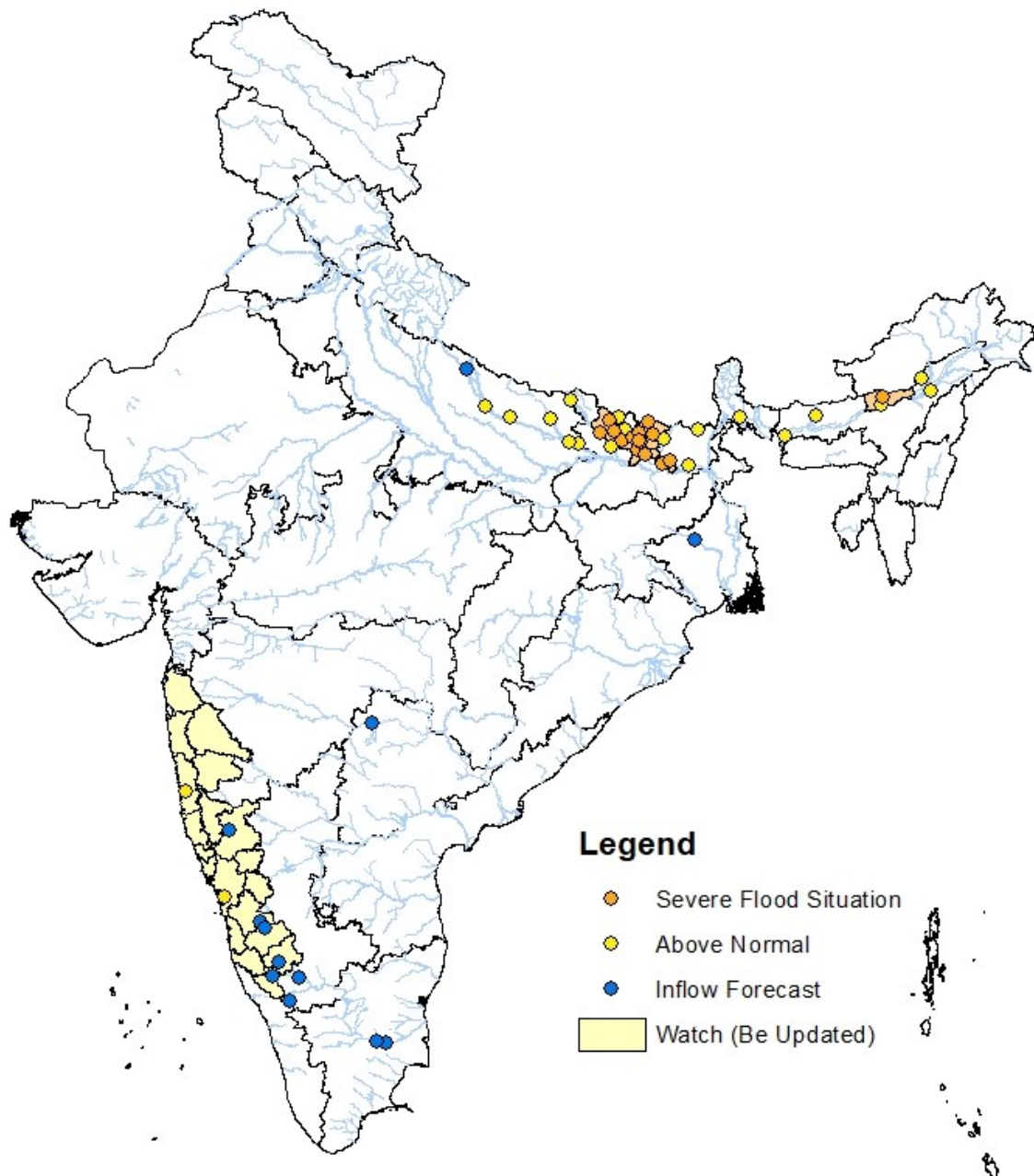
2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 14th July, 2021, 15 Stations (14 in Bihar and 1 in Assam) are flowing in Severe Flood Situation and 20 stations (7 in Bihar, 5 each in Assam & Uttar Pradesh and 1 each in Karnataka, Maharashtra & West Bengal) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 12 Barrages & Dams (7 in Karnataka, 2 in Tamilnadu and 1 each in Telangana, Uttar Pradesh & 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))	15
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)		35
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 are given at link: <http://cwc.gov.in/sites/default/files/cfrcwcdfb-14.07.2021-2.pdf>

2.1.1 Flood Situation Map



2.2 CWC Advisories

2.2.1 West Flowing Rivers Of Ghat Areas – Gujarat, Mumbai, Konkan and Goa, Coastal Karnataka, Kerala

Due to strengthening of monsoon current and formation of low pressure area over Saurashtra, IMD has predicted increased rainfall activity over west coast and neighbourhood of peninsular India. A brief glimpse of future scenario of flooding situation has been given below:

Cauvery basin– Water levels may rise in districts Kodagu, Hassan and Chikmagalur i.e. the catchments upstream of Harangi, Hemavathi and KRS dams.

Kabini River- IMD has predicted heavy rains over Wayanad district of Kerala. So this is likely to increase inflow into Kabini dam. Kabini dam is presently 77% full and having river level 693.82 m compared to rule level of 694.25m. Releases, if any, should be done following SOP & after informing all downstream districts /lower riparian state.

Tungabhadra Basin– 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.

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

West Flowing between Tapi and Tadri– Due to forecast of heavy to very heavy rainfall in Konkan and South Gujarat, rivers between Tapi and Tadri in the Districts of Valsad in Gujarat, Daman in UT of Daman & Diu, Silvassa District in Dadra & Nagarhaveli as well as in Thane, Palghar, Raigad, Ratnagiri and Sindhudurg District are likely to rise. Watch is to be maintained for flashy rise in small river catchments in western Ghats in these rivers. River Bav in Ratnagiri district of Maharashtra is already flowing in above normal flood situation, however with falling trend. River Aghanashini in Uttara Kannada district of Karnataka is also flowing in above normal flood situation with rising trend.

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

Water levels may rise slowly due to rainfall in sub catchments of Godavari Basin. As Laxmi Barrage is passing (61,310 Cusecs) due to increased inflows, the same will reach downstream and water levels will rise. Hence, it is advised that for the sites from Kaleswaram to Dowlaiswaram to be watchful.

Manjira, upper & middle Godavari, Purna, Penganga & Musi sub basins has received moderate to heavy rains in last 24 hrs, hence increased inflow is expected in Singur dam (Medak district) & Nizamsagar (Nizamabad) of Andhra Pradesh.

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, Ballia, Gorakhpur, Kushinagar (of Uttar Pradesh), Siwan, Purba Champaran, Muzaffarpur, Gopalganj, Darbhanga, Sitamarhi, Madhubani, Khagaria, Supaul, Samastipur, Araria & Katihar (of Bihar)**. There is a chance of increase of water levels in Ghagara, Kosi & Bagmati due to last 24 hour rain in upper reaches of these rivers.

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 and river Ranganadi is flowing in above normal flood situation at Lakimpur, while river Brahmaputra in Jorhat & Dhubri districts and Beki at Barpeta are flowing in above normal flood situation. Teesta river is flowing in above normal flood situation at Jalpaiguri (West Bengal).

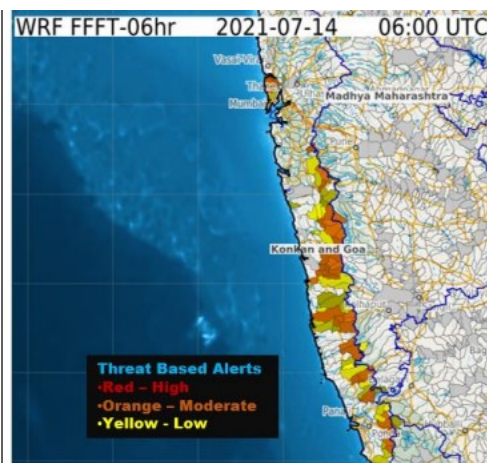
3. Flash Flood Guidance

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

Forecast Flash Flood Threat (FFFT) based on WRF model till 1730 IST of 14.07.2021:

As per WRF model rainfall forecast, there is **moderate to high threat** of flash flood over few watersheds and neighborhood of Suburban Mumbai, Mumbai city, Thane, Raigarh, Ratnagiri, Sindhudurg, North Goa and South Goa districts of Konkan & Goa met subdivision.

Surface runoff/Inundation may occur at some fully saturated watersheds & low-lying areas due to expected persistent rainfall in next 06 hours.



36 hours Flash Flood Risk Outlook till 2330 IST of 15.07.2021:

Moderate to High risk over many watersheds and neighborhood of Konkan & Goa and Coastal Karnataka met subdivision.

Surface runoff/Inundation may occur at some fully saturated watersheds & low-lying areas due to expected persistent rainfall in next 24 hours.



3. Storage Position in Dams where Inflow forecast is being issued by CWC as on 14th 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
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#	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/ Mancherial					
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	Rana Pratap Sagar	Chambal/Upper Chambal/Ganga	Rajasthan	Neemuch(MP)/ Dholpur, Kota, Bundi (Raj)					
11	Som Kamla Amba	Som/Mahi B/ Mahi	Rajasthan	Udaipur/ Dungarpur					
12	Sri Pada Yellampally	Godavari/Middle Godavari/Godavari	Telangana	Mancherial/ Jaishankar Bhupalpally					
13	Musi	Musi/Lower Krishna/ Krishna	Telangana	Nalgonda					
14	Vaigai	Vaigai/Upper Vaigai/ EF Rivers b/w Cauvery & Kanyakumari	Tamil Nadu	Theni/ Madurai					
15	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.