



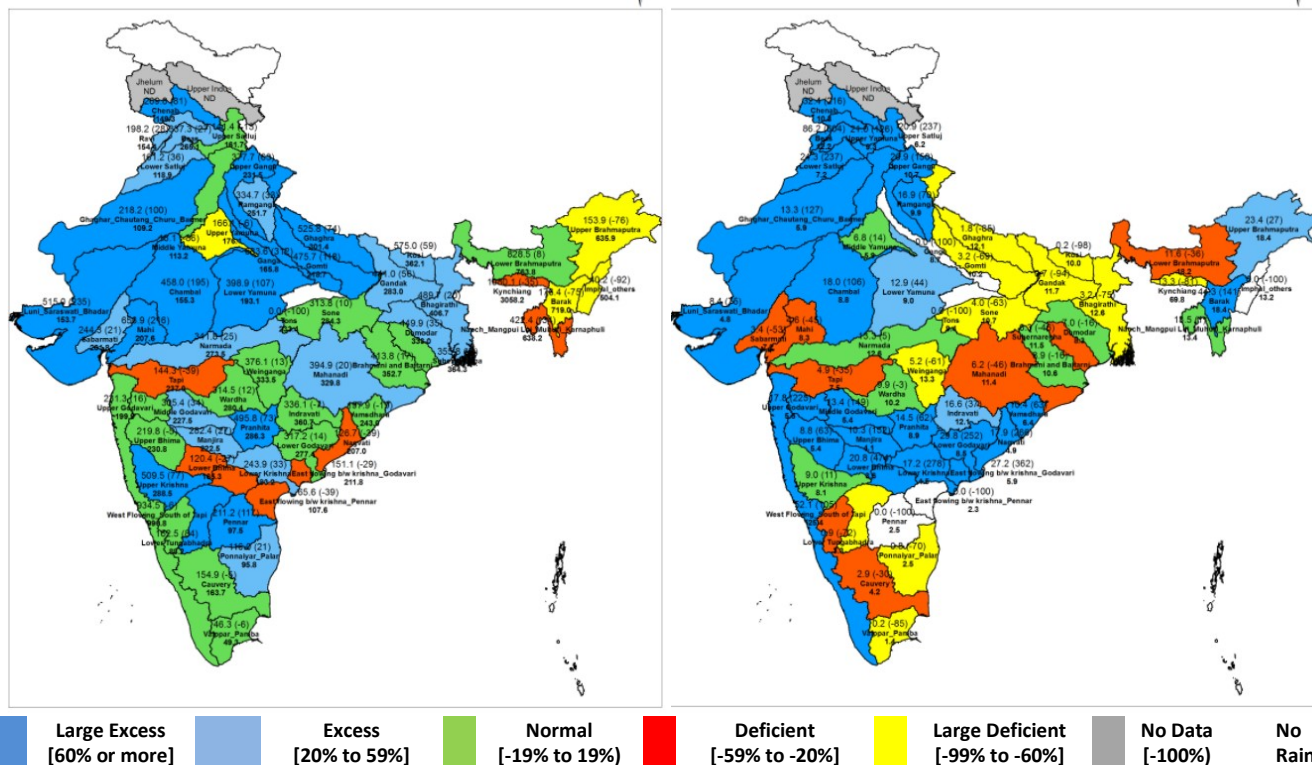
Central Water Commission
Daily Flood Situation Report cum Advisories
13-07-2021

1.0 Rainfall Situation

1.1 Basin wise departure from normal of cumulative and daily rainfall

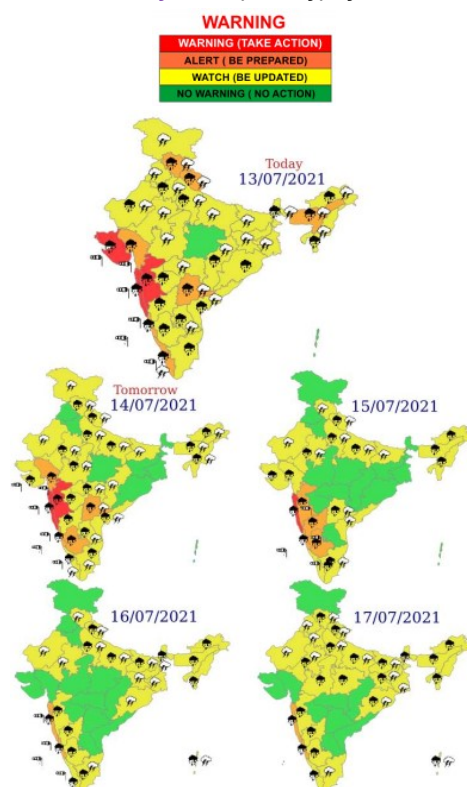
RIVER BASIN RAINFALL MAP : INDIA
 Period : 01-06-2021 To 13-07-2021

RIVER BASIN RAINFALL MAP : INDIA
 Date : 13-07-2021



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 13th July, 2021 (Midday) by IMD



- Extremely Heavy Falls over Konkan & Goa during 13th-15th; over Ghat areas of Madhya Maharashtra on 13th & 14th; over south Saurashtra & Kutch on 13th. Very heavy rainfall over Himachal Pradesh and Uttarakhand on 13th & 14th July, 2021.

2.0 Flood Situation and Advisories

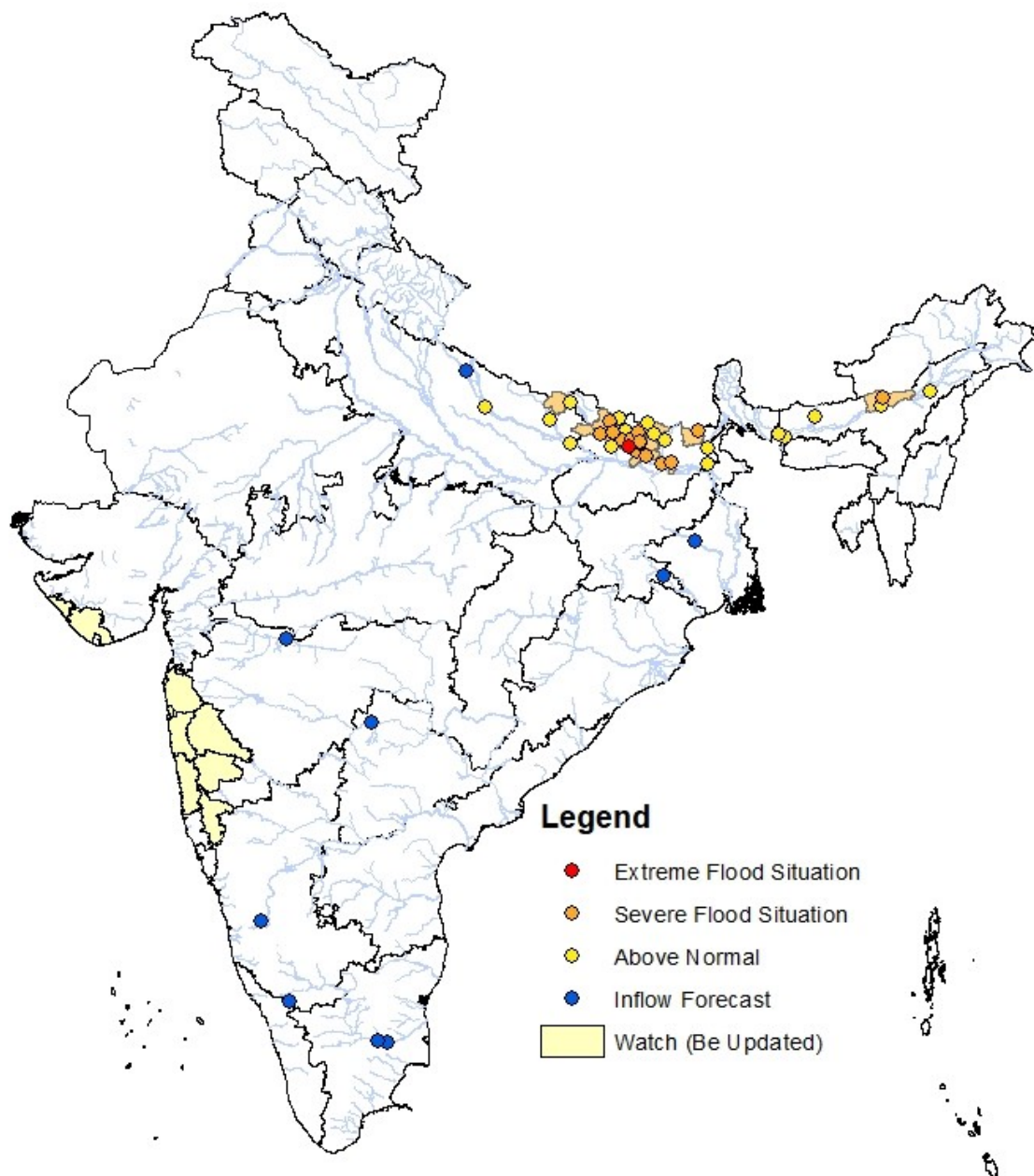
2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 13th July, 2021, 14 Stations (13 in Bihar and 1 in Assam) are flowing in Severe Flood Situation and 17 stations (8 in Bihar, 5 in Assam and 4 in Uttar Pradesh) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 9 Barrages & Dams (2 each in Karnataka & Tamilnadu and 1 each in Jharkhand, Maharashtra, 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))	14
C	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	17
Total number of sites above Warning Level (A+B+C)		31
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)		9

Details are given at link: http://www.cwc.gov.in/sites/default/files/cfrcrcwdfb-13.07.2021-2_5.pdf

2.1.1 Flood Situation Map



2.2 CWC Advisories

2.2.1 Ganga, Yamuna, Indus and its Tributaries – Himachal Pradesh & Uttarakhand

There is a chance of water level rise in **Alaknanda, Mandakini, Bhagirathi, Ramganga, Yamuna & Ganga** in **Uttarakhand** as well as in rivers **Beas, Satluj, Chenab** and **tributaries of Yamuna** in **Himachal Pradesh**.

2.2.2 West Flowing Rivers Of Ghat Areas - Mumbai, Konkan and Goa, Coastal Karnataka, Kerala, Tamilnadu

Due to strengthening of monsoon current and formation of low pressure area in off Saurashtra Coast, 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 rivers of Tadri to Kanyakumari– As the IMD has predicted very heavy rainfall in **Idukki**, so increased inflow is expected into **Idukki dam**.

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.

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

Water level may rise slowly due to rainfall in sub catchments of Godavari Basin. As Laxmi Barrage is releasing (96,770 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. Rainfall in the source regions of Krishna and Bhima and their tributaries has been forecasted which may lead to rise in water levels of these basins.

2.2.4 Ganga Basin – Bihar, Uttar Pradesh

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 (of Uttar Pradesh), Purba Champaran, Muzaffarpur, Gopalganj, Darbhanga, Sitamarhi, Madhubani, Khagaria, Supaul, Samastipur, Araria, Purnia & Katihar (of Bihar)**.

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, Goalpara & Dhubri** districts and **Beki** at **Barpeta** are flowing in above normal flood situation.

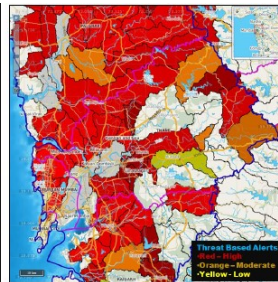
3. Flash Flood Guidance

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

Persistent Flash Flood Threat (PFFT) Till 1730 IST of 13.07.2021:

Moderate to High Threat over many watersheds and neighborhood in the Palghar, Mumbai City, Sub Urban Mumbai, Thane, Raigad districts of Konkan & Goa met sub division.

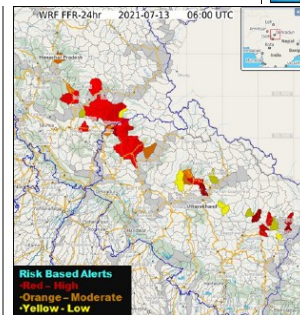
Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as depicted in maps due to expected persistent rainfall in next 6 hours.



24 hours Flash Flood Risk Outlook Till 1130 IST of 14.07.2021:

Moderate Risk over few watersheds and neighborhood of Himachal Pradesh, Uttarakhand met sub division.

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



24 hours Flash Flood Risk Outlook Till 1130 IST of 14.07.2021:

Moderate to High Risk over few watersheds and neighborhood of Konkan & Goa and adjoining North Coastal Karnataka met sub division.

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



4. Storage Position in Dams where Inflow forecast is being issued by CWC as on 13th 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)/ Gunttoor, 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	Rana Pratap Sagar	Chambal/Upper Chambal/Ganga	Rajasthan	Neemuch (MP)/ Dholpur, Kota, Bundi (Raj)					
10	Som Kamla Amba	Som/Mahi B/ Mahi	Rajasthan	Udaipur/ Dungarpur					
11	Sri Pada Yellampally	Godavari/Middle Godavari/Godavari	Telangana	Mancherial/ Jaishankar Bhupalpally					
12	PD Jurala	Krishna/Middle Krishna/Krishna	Telangana	Raichur (Kar)/ Jogalamba Gadwal (Telangana)					
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)					
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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.