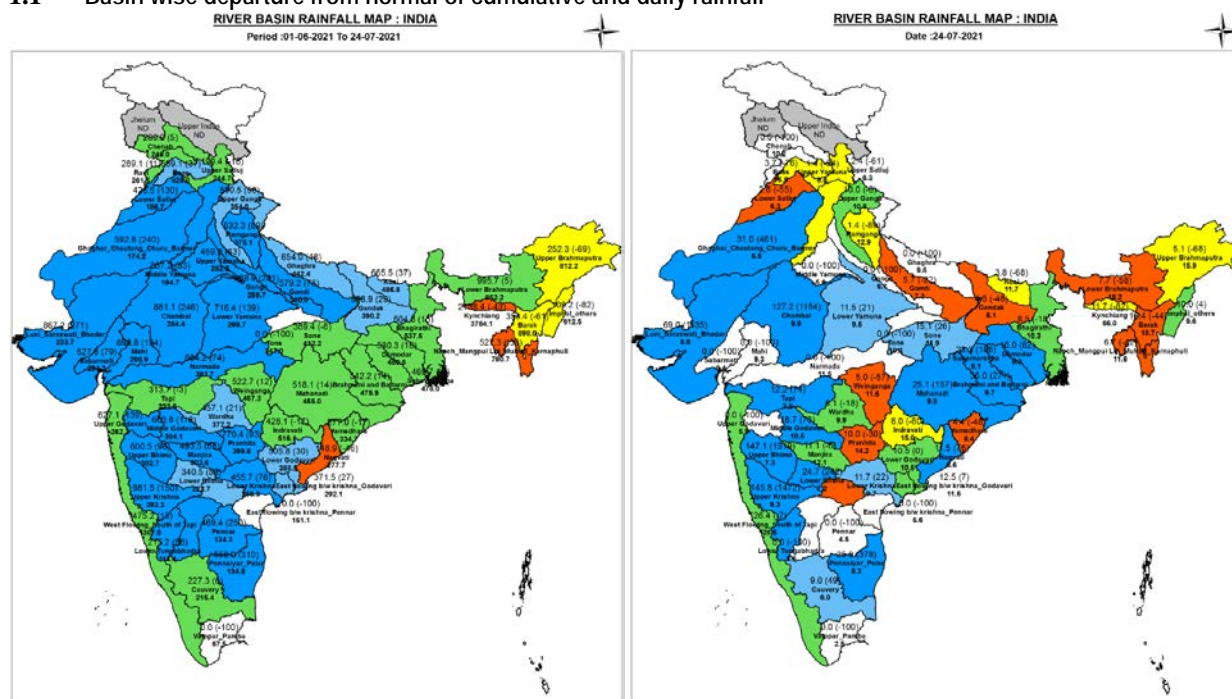




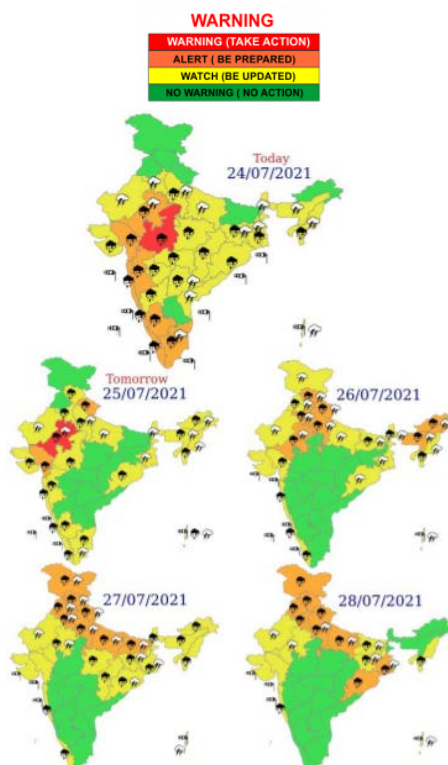
Central Water Commission
Daily Flood Situation Report cum Advisories
24-07-2021

1.0 Rainfall Situation

1.1 Basin wise departure from normal of cumulative and daily rainfall



1.2 Rainfall forecast for next 5 days issued on 24th July 2021 (Midday) by IMD



- Isolated **heavy to very heavy** falls very likely to continue over west coast including Maharashtra on 24th July and isolated heavy falls thereafter.
- Isolated **heavy to very heavy** falls likely to continue over Gujarat state till 25th July and reduction thereafter. Isolated **extremely heavy** falls also likely over West Madhya Pradesh today.
- Isolated **heavy to very heavy** falls likely to continue over East Rajasthan till 26th July and reduction thereafter. Isolated **extremely heavy** falls also likely over East Rajasthan tomorrow.
- Isolated **heavy to very heavy** falls likely over Uttarakhand during 25th-28th July; Himachal Pradesh, Haryana and West Uttar Pradesh during 26th-28th July and Punjab & East Uttar Pradesh on 27th & 28th July. Isolated **extremely heavy** falls also likely over Himachal Pradesh and Uttarakhand on 27th & 28th July, 2021.

2.0 Flood Situation and Advisories

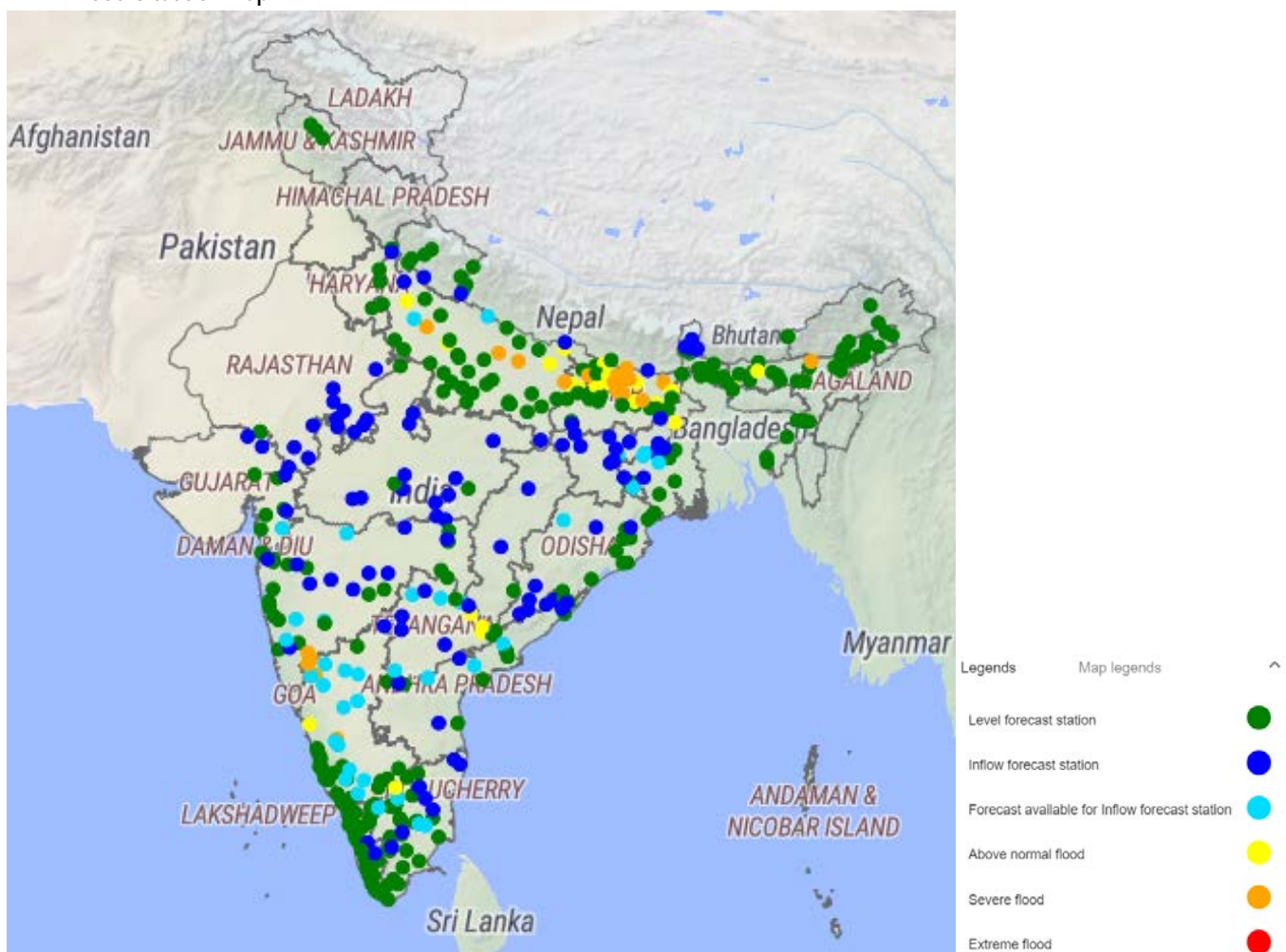
2.1 Summary of Flood Situation as per CWC Flood Forecasting Network

On 24th July, 2021, 23 Stations (11 in Bihar, 4 each in Maharashtra & U.P., 3 in Karnataka and 1 in Assam) are flowing in Severe Flood Situation and 24 stations (10 in Bihar, 4 in Uttar Pradesh, 3 in Telangana, 2 each in Maharashtra & Assam, 1 each in Karnataka, Tamil Nadu & West Bengal) are flowing in Above Normal Flood Situation. Inflow Forecast has been issued for 37 Barrages & Dams (13 in Karnataka, 4 each in Tamil Nadu, Jharkhand, Maharashtra & Telangana, 3 in Andhra Pradesh, 2 in U.P. and 1 each in Gujarat, Odisha & West Bengal).

FLOOD SITUATION SUMMARY		
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))	23
C	Above Normal Flood Situation: (Site (s) where water level is touching or exceeding the Warning Level but below Danger Level)	24
Total number of sites above Warning Level (A+B+C)		47
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)		37

Details are given at link: http://cwc.gov.in/sites/default/files/cfrcwcdfb-24.07.2021_5.pdf

2.1.1 Flood Situation Map



2.2 CWC Advisories

2.2.1 West Flowing Rivers between Tapi and Tadri and to Kanyakumari - Mumbai, Konkan, Goa, Coastal Karnataka & Kerala

IMD has predicted heavy to very heavy rainfall along the west coast districts from Raigad to Dakshin Kannada and also in some of the neighbourhood districts such as Pune, Satara, Kolhapur, Shimoga, Hassan Chikkmangalur & Kodagu. In Kerala heavy to very heavy rainfall has been predicted for Wyanad, Palakkad & Idukki. Heavy rainfall has been predicted for west coast from Navsari to Thane, Belgaum, Dharwad and most districts of Kerala. It is observed that rainfall has reduced over west coast and neighbourhood. At present most of the west flowing rivers from Tapi to Tadri has gone to normal state. Water levels of most of the West flowing rivers from Tadri to Kanyakumari

are also in nearly steady to falling trend. Even though rainfall has decreased over the region, due to forecasted heavy rains for next 2 days by IMD, it is advised to keep watchful the situation in rivers such as Ulhas (**Thane** district); Bhogeshwari, Savitri & Kal (**Raigad** district); Bav (**Ratnagiri** district); Gad (**Sindhudurg** dist.); Madai (**North Goa**); Aghanashini (**Uttar Kannada** District); Haladi, Sita, Swarna and Shambavi (**Udupi** district); Gurpur & Netravathi (**Dakshin Kannada** district). As the soil moisture is high over the region, the surface flows will remain high for any rain event happening.

Watch for urban flooding situation is to be maintained in **Mumbai**.

Since heavy rainfall is likely to continue along Ghats of **Shimoga, Chikmagalur, Hassan & Kodagu** Districts in Karnataka, there is likelihood of inflow into all major reservoirs for next 2 days and close watch is to be maintained.

IMD has predicted heavy to very heavy rainfall over **Wyanad, Palakkad and Idukki**, and heavy rainfall over Coimbatore, Theni and neighbourhood districts. Increased inflows are expected in Kabini, Idukki and Edamalayar Dams. Idukki dam is presently 61.52% filled.

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

Godavari basin: IMD has predicted normal rainfall in Godavari basin. Rainfall has reduced in the basin. In Maharashtra water levels in Main Godavari and its tributaries are following steady to falling trend. At some of the lower reaches of the river such as **Mulugu, Bhadradi, Kothag (Telangana) & East Godavari (Andhra Pradesh)**, it is still in rising trend. It is expected to fall to normalcy gradually.

Sriramsagar (>90%), Karanja (>83%), Yeldari, Kaddam and Sri Pada Yellampally are having storages >70% and above. Hence releases are to be done as per SOP. Sriramsagar releases and combined effect of flow from Indravathi, Sabari, Pranrita and main Godavari will be realised at Polavaram Dam that is under Construction. Hence precaution needs to be taken. Inflow of 17,000 cumec is expected in Polavaram. Godavari river is flowing in above normal flood situation in **Mulugu & Bhadradi** district.

As PVN Rao Kantapally (Sammakka Barrage) is passing (13,90,000 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 Perur to Dowlaiswaram to be watchful. Some of the sites may cross Warning Level by tomorrow morning

Krishna Basin: Heavy rainfall at Mahabaleshwar is still continuing in the region and it is the source regions for Krishna, Koyna as well as West flowing rivers. Closed watch is to be maintained in all reservoirs of Krishna, Bhima and their tributaries in **Maharashtra**. In Krishna basin all the major dams such as Almatti, Narayanpur, Ujjani, P D Jurala, Bhadra, Malaprabha, Ghataprabha & Tungabhadra; inflows are expected to be in steady condition. Releases from these dams may be done as per SOP. Gokak Falls in **Belgaum** district of **Karnataka** is already in severe flooding situation with nearly steady trend. River Tunga in **Shimoga** district of **Karnataka** is now flowing in severe flood situation with falling trend. River Yerala (**Sangli** Dist.) is flowing in severe flood situation with nearly steady trend. Main Krishna in **Sangli and Kolhapur** districts of **Maharashtra** is in severe flooding with falling and rising trend respectively. Tributary of Krishna, Dudhganga, is in severe flooding in **Belgaum** district of **Karnataka** with steady trend.

2.2.3 Cauvery basin – Karnataka, Tamil Nadu

Inflows into Harangi, Hemavathi, Kabini and KRS dams are having steady trend. Close watch is to be maintained as the storages are high in most of the major projects. Necessary precautions may be taken for releases from dam after informing all downstream areas in Karnataka and lower riparian States. Inflow increase is expected in Hemavathi dam. Biligundulu at the border of Karnataka and Tamilnadu is flowing in above normal flood situation with rising trend.

Releases from Kabini dam are being realised at Mettur dam of **Salem and Dharmapuri** district (**Tamil Nadu**).

2.2.4 Ganga – Bihar, Uttar Pradesh

Currently river Ghagra, Rapti, Gandak, Ramganga, Bagmati, Kamla, BurhiGandak, Adhwara, Mahananda, Parman & Kosi are flowing in severe to above normal flood situation in districts **Barabanki, Gorakpur, Ayodhya, Ballia, Kushinagar, Ghaziabad, Moradabad** (of **Uttar Pradesh**), **Siwan, Muzaffarpur, Gopalganj, Darbhanga, Madhubani, Khagaria, Supaul, Samastipur, Araria, Sitamarhi & Katihar** (of **Bihar**). Abatement of water levels in above mentioned rivers of Bihar are expected to be very slow. Alert may also be sounded in the districts of Gonda, Basti, Deoria, Maharajganj.

Main Ganga river is having above normal to severe situation in the districts **Bulandshahar, Badaun, Kanshiram Nagar & Farrukhabad**, hence alert may be kept

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

Jia-Bharali river is flowing in severe flood situation in **Sonitpur** district, while river Sankosh in **Dhubri** district and Beki in **Barpeta** district are flowing in above normal flood situation. Brahmaputra is flowing in above normal situation at district **Jorhat** of Assam. Kushiya river in Barak basin is flowing in about normal situation in District **Karimganj** of Assam.

2.2.6 Narmada, Tapi, Mahi, Sabarmati, Banas& upper Chambal – Gujarat, Rajasthan

In Mahi, Sabarmati increase in flow is expected mainly in Anas river (Mahi basin) due to rainfall in West M.P (only Mahi), East Rajasthan and Gujarat region. As this is the second spell of rain that is occurring in the basis after onset of monsoon, normal situation is expected since there will be much infiltration.

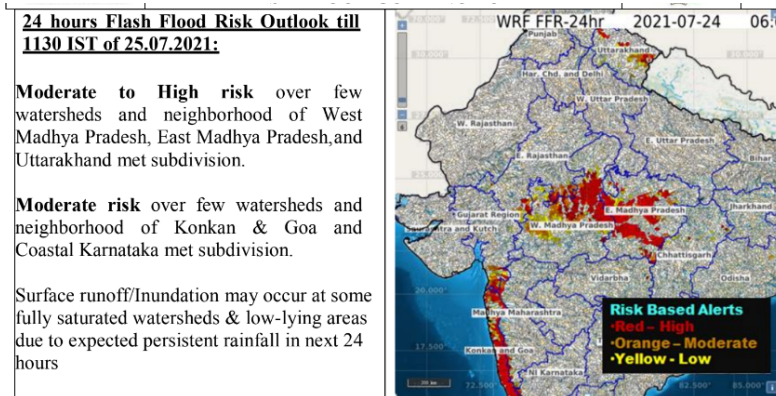
In Tapi Basin, Hathnur dam (Maharashtra) is receiving inflows of 1482 cumecs and recent releases are of the order 1793 cumec. Ukai dam (Gujarat) situated downstream of Hathnur, is receiving inflow of more than 3000 cumec and it is expected to fall, but the inflow will remain above 1000 cumec for next 24 hrs.

Extremely heavy normal has been forecasted in **Hosangabad** district (Narmada Basin) of **Madhya Pradesh** today, hence, increased inflow is expected in reservoirs of this basin.

Extremely heavy to very heavy rainfall has been forecasted in upper Chambal basin viz. **Jhalawar (Rajasthan), Mandsaur (MP)**. Alert needs to be kept for increased inflow in Gahdhi Sagar and other dams. Jhalawar needs to be alerted for heavy inflow in Kalsindh river.

2.3 Flash Flood Guidance

IMD has issued flash flood risk over many watersheds and neighbourhood of West & East Madhya Pradesh and Uttarakhand met sub-divisions.



3. Storage Position in Dams where Inflow forecast is being issued by CWC as on 24th 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 Very Heavy Rainfall (Orange) and Extremely Heavy Rainfall (Red) warning in next 120 hours are given below:

#	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 (Telangana)/ Guntoor, Krishna (AP)					
2	Sri Padav Yellampally	Godavari/Middle Godavari/ Godavari	Telangana	Mancherla/ Jaishankar Bhupalpally					
3	Sriramsagar	Godavari/Middle Godavari/ Godavari	Telangana	Nanded (Mah)/ Nirmal (Telangana)					
4	Kaddam	Kaddam/Middle Godavari/ Godavari	Telangana	Adilabad, (Telangana)/ Mancherla					
5	Panchet	Damodar/Damodar East/ Ganga	Jharkhand	Dhanbad (Jharkhand)/ Durgapur (WB)					
6	Maithon	Barakar/Barakar East/ Ganga	Jharkhand	Dhanbad (Jharkhand)/ Durgapur (WB)					
7	Narayanpur	Krishna/Upper Krishna/ Krishna	Karnataka	Bagalkot, Vijayapura/ Raichur, Yadgir					
8	Kabini	Kabini/Kabini/ Cauvery	Karnataka	Wayanad (Kerala)/ Mysuru (Karnataka)					
9	Harangi	Cauvery/Upper Cauvery/ Cauvery	Karnataka	Kodagu/ Mandya					
10	Almatti	Krishna/ Upper Krishna/ Krishna	Karnataka	Kolhapur(Mah)/ Bagalkote(Kar)					
11	Karanja	Karanja/Manjara/ Godavari	Karnataka	Bidar (Kar), Vikarabad (Telangana)/ Bidar(Kar)					
12	Tungabhadra	Tungabhadra/Middle Tungabhadra/Krishna	Karnataka	Gadag/Bellary, Koppal, Raichur					
13	Hemavathy	Hemavathy/ Hemavathy/ Cauvery	Karnataka	Hassan, Kodagu/ Mandya, Mysore					
14	Bhadra	Bhadra/Upper Tungabhadra/ Krishna	Karnataka	Chikmagalur/ Shimoga					
15	Hidkal	Ghataprabha/Ghataprabha/ Krishna	Karnataka	Kolhapur (Mah)/ Belgaum (Kar)					
16	Warana	Warana/Upper Krishna/ Krishna	Maharashtra	Kolhapur, Sangli					
17	Koyna	Koyna/ Upper Krishna/ Krishna	Maharashtra	Satara/Kolhapur, Sangli					
18	Yeldari	Purna/Purna/Godavari	Maharashtra	Parbhani, Hingoli					
19	Veer	Nira/Upper Bhima/ Krishna	Maharashtra	Pune, Satara					
20	Rana Pratap Sagar	Chambal/Upper Chambal/ Ganga	Rajasthan	Neemuch (MP)/ Dholpur, Kota, Bundi (Raj)					
21	Som Kamla Amba	Som/Mahi B/Mahi	Rajasthan	Udaipur/ Dungarpur					
22	Vaigai	Vaigai/Upper Vaigai/ EF Rivers b/w Cauvery & Kanyakumari	Tamil Nadu	Theni/Madurai					
23	Bhavanisagar	Bhavani/ Middle Cauvery/ Cauvery	Tamil Nadu	Palakkad (Kerala), Nilgiri, Coimbatore (TN)/ Erode (TN)					

QPF categories (mm)	0	0.1-10	11-25	26-37	38-50	51-75	76-100	>100
---------------------	---	--------	-------	-------	-------	-------	--------	------

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.