



**Central Water Commission**  
**Upper Ganga Basin Organisation, Lucknow**  
**Daily Flood Situation Report Cum Advisories**  
**Date: 10 SEPTEMBER, 2020**

**FSR No.80**

**Dated 10-09-2020**

**1. Weather forecast by IMD**

**I. SYNOPTIC SITUATION:**

- ♦ The Monsoon Trough at mean sea level now passes through Amritsar, Karnal, Meerut, Bareilly, Varanasi, Daltonganj, Bankura, Digha and thence east-northeastwards to Northeast Bay of Bengal.
- ♦ The trough from northwest Uttar Pradesh to southwest Madhya Pradesh now runs from East Uttar Pradesh to Vidarbha and extends upto 0.9 km above mean sea level.

**II. a) DETERMINISTIC FORECAST (QPF):**

Sr. No.	BASIN NAME	SUBBASIN CODE/NAME	QPF (mm)		
			Day-1	Day-2	Day-3
1	Alaknanda	Alaknanda	0.1-10	0.1-10	0.1-10
2	Bhagirathi	Bhagirathi	0.1-10	0.1-10	0.1-10
3	Ganga	Chhatnag to Mirzapur	0.1-10	0.1-10	0.1-10
		Narora to Phaphamau	0.1-10	0.1-10	0.1-10
		Phaphamau to Ballia	0.1-10	0.1-10	0.1-10
		Gomti	0.1-10	0.1-10	0.1-10
		Sai	0.1-10	0.1-10	0.1-10
		Upper Ganga	0.1-10	0.1-10	0.1-10
4	Ghaghra	Lower Ghaghra	0.1-10	0.1-10	0.1-10
		Middle Ghaghra	0.1-10	0.1-10	0.1-10
		Upper Ghaghra	0.1-10	0.1-10	0.1-10
5	Ramganga	Ramganga	0.1-10	0.1-10	0.1-10
6	Rapti	Rapti	0.1-10	0.1-10	0.1-10
7.	Sharda	Sharda	0.1-10	0.1-10	0.1-10

## II (b) DETERMINISTIC FORECAST (DISTRIBUTION)

	BASIN NAME	SUBBASIN CODE/NAME	INTENSITY (I) & SPATIAL DISTRIBUTION (D)					
			Day-1		Day-2		Day-3	
			I	D	I	D	I	D
1	Alaknanda	Alaknanda	L	ISOL	L	ISOL	L	ISOL
2	Bhagirathi	Bhagirathi	L	ISOL	L	ISOL	L	ISOL
3	Ganga	Chhatnag to Mirzapur	M	SCT	L	ISOL	L	ISOL
		Narora to Phaphamau	L	ISOL	L	ISOL	L	ISOL
		Phaphamau to Ballia	M	SCT	L	ISOL	L	SCT
		Gomti	L	ISOL	L	ISOL	L	ISOL
		Sai	L	ISOL	L	ISOL	L	ISOL
		Upper Ganga	L	ISOL	L	ISOL	L	ISOL
4	Ghaghra	Lower Ghaghra	L	ISOL	L	ISOL	L	ISOL
		Middle Ghaghra	L	ISOL	L	ISOL	L	ISOL
		Upper Ghaghra	L	ISOL	L	ISOL	L	ISOL
5	Ramganga	Ramganga	L	ISOL	L	ISOL	L	ISOL
6	Rapti	Rapti	L	ISOL	L	SCT	L	SCT
7.	Sharda	Sharda	L	ISOL	L	ISOL	L	ISOL

<b>QPF in Ranges (mm)</b>	<b>UNLISTED</b>	<b>0</b>	<b>0.1-10</b>	<b>11-25</b>	<b>26-50</b>	<b>51-100</b>	<b>&gt;100</b>
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### III. HEAVY RAINFALL WARNING:

NAME OF BASIN	NAME OF SUB-BASIN	Day-1		Day-2		Day-3	
		I	D	I	D	I	D
Alaknanda	Alaknanda						
Bhagirathi	Bhagirathi						
Ganga	Chhatnag to Mirzapur						
	Narora to Phaphamau						
	Phaphamau to Ballia						
	Gomti						
	Sai						
	Upper Ganga						
Ghaghra	Lower Ghaghra						
	Middle Ghaghra						
	Upper Ghaghra						
Ramganga	Ramganga						
Rapti	Rapti						
Sharda	Sharda						

Spatial Distribution of Rainfall		
DRY	Dry	No Station reported rainfall
ISOL	One or two Places	25% or less number of stations recorded rainfall 2.5 mm
SCT	At a few Places	26%-50% number of stations recorded rainfall 2.5 mm
FWS	At many Places	51%-75% number of stations recorded rainfall 2.5 mm
WS	At most places	76%-100% number of stations recorded rainfall 2.5 mm

Intensity of Rainfall					
MDry	NIL	0 cm	VL	Very Light Rainfall	Trace
L	Light Rainfall	Upto 1 cm	M	Moderate rainfall	02-06 cm
H	Heavy rainfall	07-11 cm	VH	Very Heavy rainfall	12-20 cm
EH	Extremely Heavy rainfall	21 cm or More			
ExH	Exceptionally Heavy Rainfall	When the amount is a value near about the highest recorded rainfall at or near the station for the month or season. However, this term will be used only when the actual rainfall amount exceeds 12 cm			

#### IV. PROBABILISTIC FORECAST

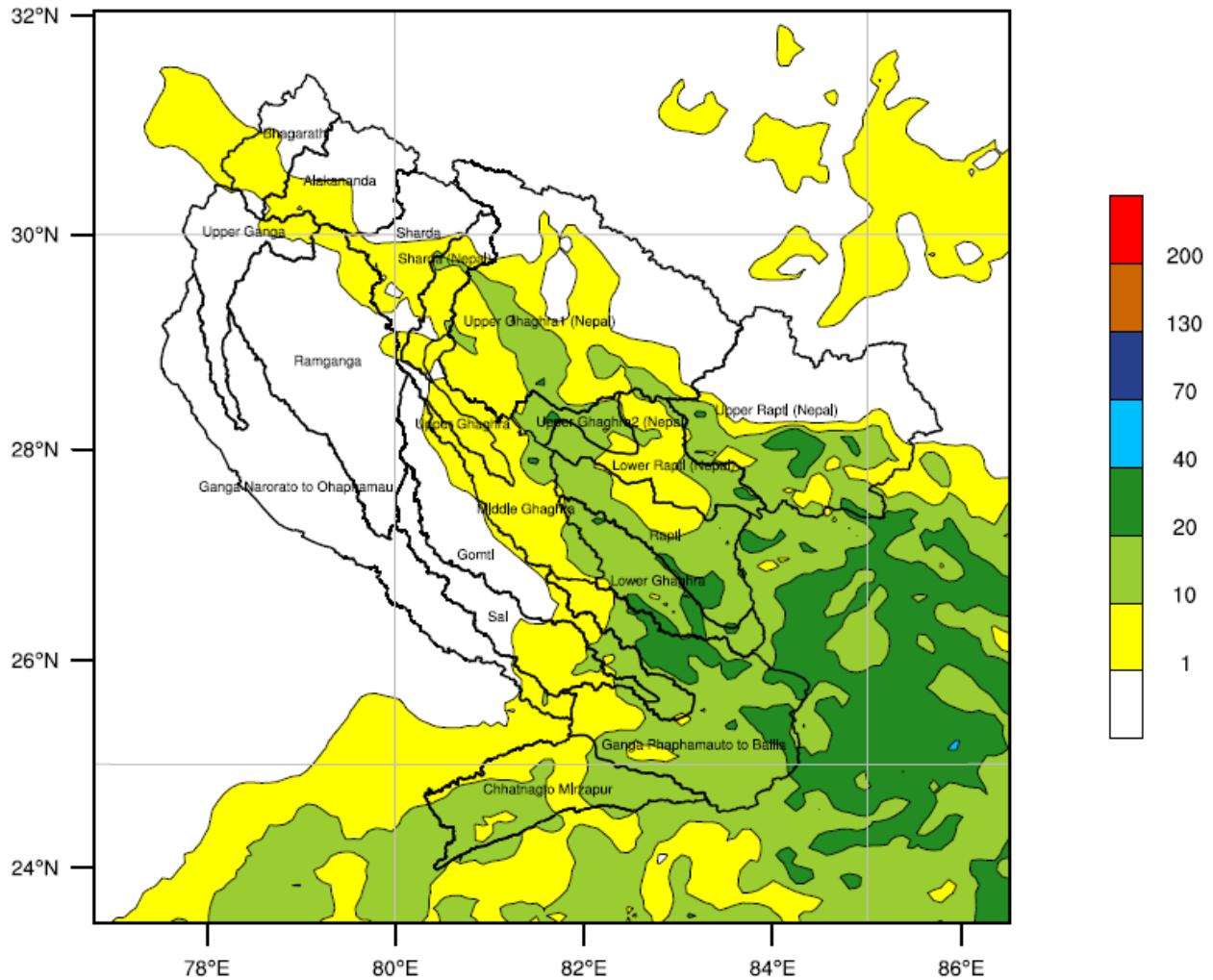
S. No.	BASIN NAME	SUBBASIN CODE/NAME	Day-1						Day-2						Day-3					
			0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm	0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm	0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm
1	Alaknanda	Alaknanda	25-50	50-75					25-50	50-75					25-50	50-75				
2	Bhagirathi	Bhagirathi	25-50	50-75					25-50	50-75					25-50	50-75				
3	Ganga	Chhatnag to Mirzapur		75-100	5-25					75-100	5-25					75-100	5-25			
		Narora to Phaphamau	5-25	75-100					5-25	75-100					5-25	75-100				
		Phaphamau to Ballia		75-100	5-25					75-100	5-25					75-100	5-25			
		Gomti	5-25	75-100					5-25	75-100						75-100	5-25			
		Sai	5-25	75-100					5-25	75-100					5-25	75-100				
		Upper Ganga	25-50	50-75					25-50	50-75					25-50	50-75				
4	Ghaghra	Lower Ghaghra	5-25	75-100						75-100	5-25					75-100	5-25			
		Middle Ghaghra	5-25	75-100						75-100	5-25					75-100	5-25			
		Upper Ghaghra	5-25	75-100					5-25	75-100						75-100	5-25			
5	Ramganga	Ramganga	5-25	75-100					5-25	75-100					5-25	75-100				
6	Rapti	Rapti		75-100	5-25					75-100	5-25					75-100	5-25			
7.	Sharda	Sharda	5-25	75-100					25-50	50-75					25-50	50-75				

Probability of occurrence (%)	0-5	5-25	25-50	50-75	75-100
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Init: 2020-09-10\_00:00:00  
Valid: 2020-09-11\_03:00:00

## FLOOD MET OFFICE LUCKNOW

### IMD WRF Rainfall (mm) Forecast(24hr)



### Sub basin wise Average Rainfall Estimation

Alaknanda =	1 mm	Rapti =	14 mm
Bhagirathi =	1 mm	Sai =	4 mm
Chhatnagto Mirzapur =	11 mm	Sharda =	4 mm
Ganga Narorato Ohaphamau =	0 mm	Sharda (Nepal) =	2 mm
Ganga Phaphamauto Balia =	15 mm	Upper Ganga =	0 mm
Gomti =	3 mm	Upper Ghaghra =	4 mm
Lower Ghaghara =	17 mm	Upper Ghaghra1 (Nepal) =	13 mm
Lower Rapti (Nepal) =	10 mm	Upper Ghaghra2 (Nepal) =	5 mm
Middle Ghaghara =	8 mm	Upper Rapti (Nepal) =	7 mm
Ramganga =	0 mm		

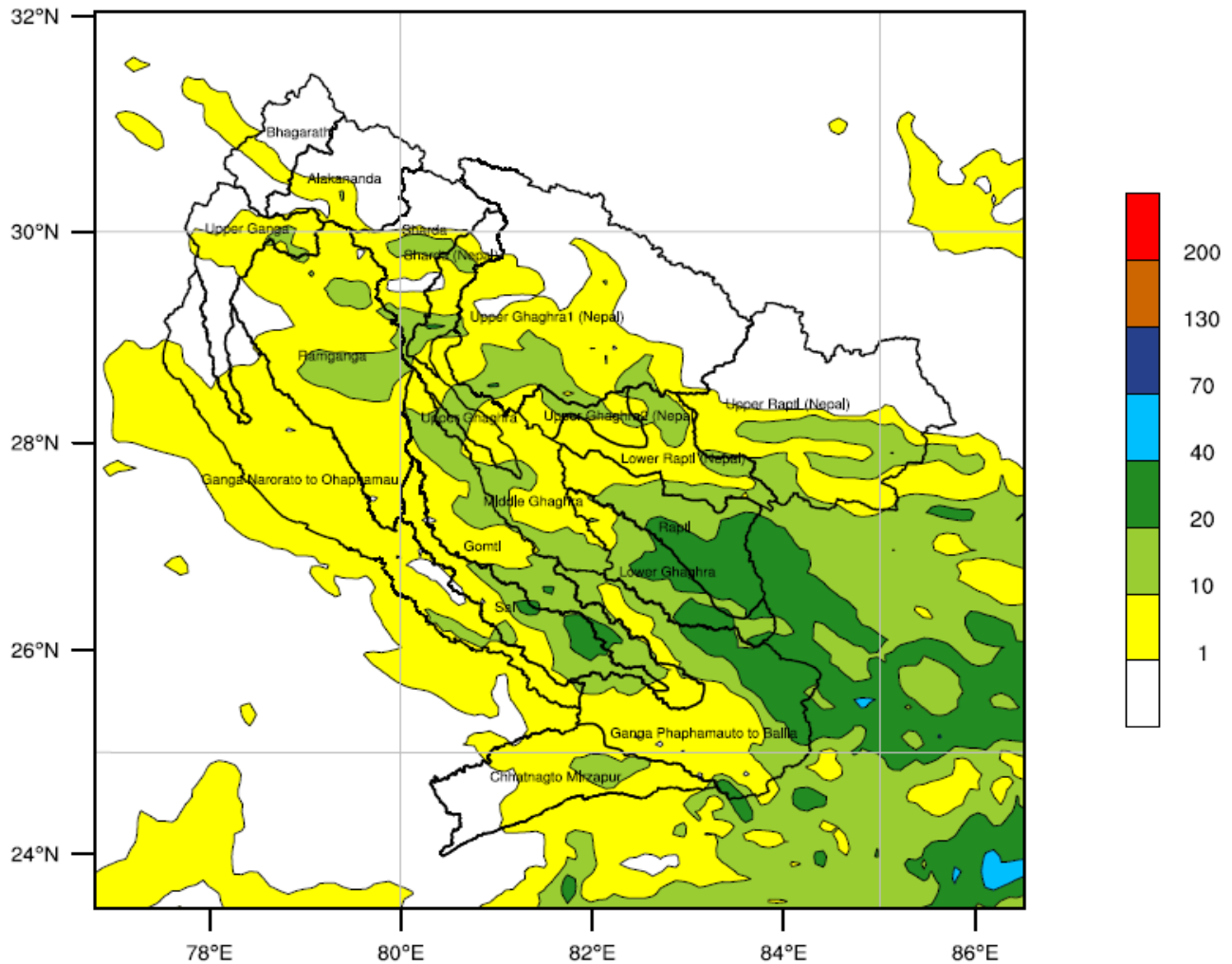
OUTPUT FROM WRF V3.6.1 MODEL

WE = 1001 ; SN = 945 ; Levels = 45 ; Dis = 9km ; Phys Opt = 16 ; PBL Opt = 2 ; Cu Opt = 5

Init: 2020-09-10\_00:00:00  
Vald: 2020-09-12\_03:00:00

## FLOOD MET OFFICE LUCKNOW

### IMD WRF Rainfall (mm) Forecast(48hr)



### Sub basin wise Average Rainfall Estimation

Alaknanda =	1 mm	Rapti =	19 mm
Bhagirathi =	1 mm	Sai =	11 mm
Chhatnagto Mirzapur =	5 mm	Sharda =	7 mm
Ganga Narorato Ohaphamau =	4 mm	Sharda (Nepal) =	5 mm
Ganga Phaphamauto Ballia =	12 mm	Upper Ganga =	2 mm
Gomti =	11 mm	Upper Ghaghra =	4 mm
Lower Ghaghara =	18 mm	Upper Ghaghra1 (Nepal) =	8 mm
Lower Rapti (Nepal) =	9 mm	Upper Ghaghra2 (Nepal) =	8 mm
Middle Ghaghara =	10 mm	Upper Rapti (Nepal) =	5 mm
Ramganga =	7 mm		

OUTPUT FROM WRF V3.6.1 MODEL

WE = 1001 ; SN = 945 ; Levels = 45 ; Dls = 9km ; Phys Opt = 16 ; PBL Opt = 2 ; Cu Opt = 5

## 2. Summary of flood situation as per CWC flood forecasting network

### Flood Situation on 10 SEPTEMBER, 2020



## 2.1 Rainfall Situation

Amount of rainfall recorded at 8:30 hours IST of today ( $\geq$  50 mm or more)

Name of Place (State)	Rainfall (in mm)
NIL	

Note - No Station is in this situation Dated 10.09.2020

## 2.2 LEVEL FORECAST

LEVEL FORECAST		
S.No.	Flood Situations	No. of Forecasting Sites
A.	<b>Extreme Flood Situation:</b>	
	(Site (s) where the previous Highest Flood Level (HFL) is exceeded or equalized)	0
B.	<b>Severe Flood Situation :</b>	
	(Site(s) where water Level touching or exceeding the Danger Level but below Highest Flood Level(HFL)	0
C.	<b>Above Normal Flood Situation:</b>	
	(Site (s) where water level touching or exceeding the warning Level but below Danger Level)	03
Total Numbers of Sites above Warning Level (A+B+C)		03
INFLOW FORECAST		
Number of Sites for which inflow forecasts issued:		0
(Where inflow are equal or exceed the specified Threshold Limit for a particular reservoir/ barrage)		0



### **2.3 Above Normal (Water Level touching or exceeding the warning Level but below Danger Level)**

Name of river	Flood Forecasting Sites	District	State	Danger Level(m)	Warning Level (m)	Previous Highest		Actual Level			Forecast			
						Level (m)	Date	Level (m)	Time	Trend	Level (m)	Date	Time	Trend
Ghaghra	Elgin Bridge	Barabanki	U.P	106.07	105.07	107.616	2014	105.096	0800	F	104.95	11.09.20	0800	F
Ghaghra	Turtipar	Ballia	U.P	64.01	63.01	66.00	1998	63.13	0800	F	63.00	11.09.20	0800	F
Ganga	Kachhla bridge	Budaun	U.P	161.00	162.00	162.79	2010	161.03	0800	F	160.65	11.09.20	0800	F

## 2.4 Severe Flood Situation (Water Level touching or exceeding the Danger Level but below Highest Flood Level (HFL))

[illegible]

### 2.5 Extreme Flood Situation (Water Level exceeded or equalized Highest Flood Level (HFL))

[illegible]

**Note - No Station is in this situation Dated 10.09.2020**

## 2.6 Inflow Forecast

[illegible]

**Advisory on Hydro Meteorological Situation Expected from 11-09-2020 to 12-09-2020**

As per rainfall pattern given in section II, Alaknanda, Bhagirathi & Ganga rivers are expected to receive light rain at isolated areas in next 48 hrs. Ghaghra, Ramganga, Sharda & Rapti river basins are expected to receive light rain at isolated areas in next 48 hours. Water level at most of CWC stations are expected to fall in next 48 hours. Level forecast will be issued if the level of river at stations are likely to touch or cross warning level. From the given QPF, Normal flood like situation is expected in Ganga, Ghaghra, Rapti & Sharda river basins.

अधिशालीअभियंता

मध्य गंगा मण्डल -1 लखनऊ