

Central Water Commission Upper Ganga Basin Organisation, Lucknow Daily Flood Situation Report Cum Advisories Date: 12 SEPTEMBER, 2020

FSR No.82 Dated 12-09-2020

1. Weather forecast by IMD

I. SYNOPTIC SITUATION:

- ♦ The Monsoon Trough at mean sea level now passes through Phalodi, Sikar, Hardoi, Patna, Burdwan and thence eastwards to Manipur across Bangladesh and Assam.
- ♦ The trough from Bihar to south Chhattisgarh across Jharkhand has become less marked.

II. a) DETERMINISTIC FORECAST (QPF):

			QPF (mm)		
Sr. No.	BASIN NAME	SUBBASIN CODE/NAME	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	
		Chhatnag to Mirzapur	0.1-10	0.1-10	0.1-10	
		Narora to Phaphamau	0.1-10	0.1-10	0.1-10	
3	Conne	Phaphamau to Ballia	0.1-10	0.1-10	0.1-10	
3	Ganga	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	
		Lower Ghaghra	0.1-10	0.1-10	0.1-10	
4	Ghaghra	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) <u>DETERMINISTIC FORECAST (DISTRIBUTION)</u>

		SUBBASIN		NSITY TIAL DI		UTION	(D)	
	BASIN NAME	CODE/NAME	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
		Chhatnag to Mirzapur	М	ISOL	L	ISOL	L	ISOL
		Narora to Phaphamau	L	ISOL	L	ISOL	L	ISOL
3	Ganga	Phaphamau to Ballia	L	ISOL	L	ISOL	L	ISOL
3		Gomti	L	ISOL	L	ISOL	L	ISOL
		Sai	L	ISOL	L	ISOL	L	ISOL
		Upper Ganga	L	ISOL	L	ISOL	L	ISOL
		Lower Ghaghra	L	ISOL	L	ISOL	L	ISOL
4	Ghaghra	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	ISOL	M	SCT
7.	Sharda	Sharda	L	ISOL	L	ISOL	M	ISOL

QPF in Ranges (mm)	UNLISTED	0	0.1-10	11-25	26-50	51-100	>100

III. HEAVY RAINFALL WARNING:

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

	372 6	Intensity	of Rainfa	II	(9)
M.Dry	NIL	0 cm	VL	Very Light Rainfall	Trace
L	Light Rainfall	Upto 1 cm	M	Moderate rainfall	02-06 cm
Н	Heavy rainfall	07-11 cm	VH	Very Heavy rainfall	12-20 cm
EH	Extremely Heavy rainfall	21 cm or More	11/10	N 7000	- 1
ExH	Exceptionally Heavy Rainfall		he month or	e near about the highest reco season. However, this term xceeds 12 cm	

IV. PROBABILISTIC FORECAST

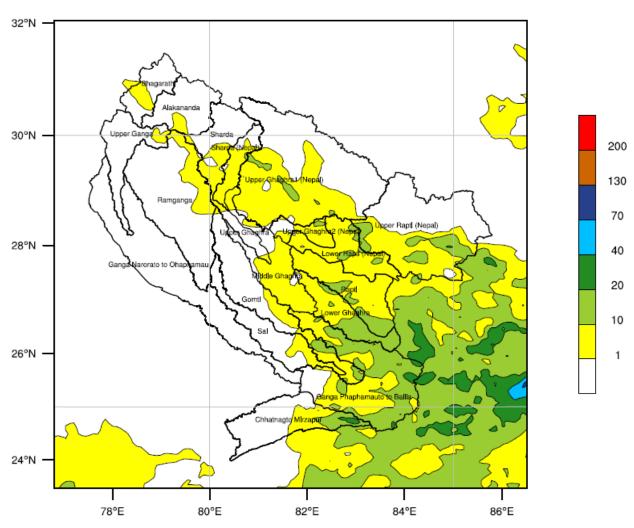
			Day-	1					Day	-2					Day-3					
S. No.	BASIN NAME	SUBBASIN CODE/NAME	0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm	0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm	0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm
1	Alaknanda	Alaknanda	25-50	50-75					25-50	50-75					25-50	50-75				
2	Bhagirathi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

Probability of occurrence (%)	0-5	5-25	25-50	50-75	75-100
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Init; 2020-09-12_00:00:00 Valld: 2020-09-13_03:00:00

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IMD WRF Rainfall (mm) Forecast(24hr)



Sub basin wise Average Rainfall Estimation

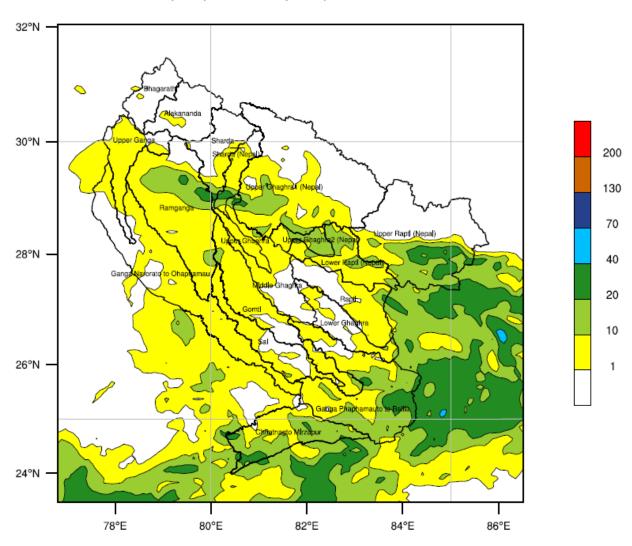
Alaknanda =	0 mm	Raptl =	7 mm
Bhaglrath =	1 mm	Sai =	1 mm
Chhatnagto M rzapur =	3 mm	Sharda =	3 mm
Ganga Narorato Ohaphamau =	0 mm	Sharda (Nepal) =	1 mm
Ganga Phaphamauto Balia =	10 mm	Upper Ganga =	0 mm
Gomtl =	2 mm	Upper Ghaghra =	2 mm
Lower Ghaghara =	10 mm	Upper Ghaghra1 (Nepal) =	4 mm
Lower Raptl (Nepal) =	7 mm	Upper Ghaghra2 (Nepal) =	1 mm
Mlddle Ghaghara =	4 mm	Upper Raptl (Nepal) =	4 mm
Ramganga =	1 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

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IMD WRF Rainfall (mm) Forecast(48hr)



Sub basin wise Average Rainfall Estimation

Alaknanda =	0 mm	Raptl =	4 mm
Bhaglrathl =	0 mm	Sai =	2 mm
Chhatnagto Mirzapur =	12 mm	Sharda =	6 mm
Ganga Narorato Ohaphamau =	2 mm	Sharda (Nepal) =	3 mm
Ganga Phaphamauto Balia =	10 mm	Upper Ganga =	3 mm
Gomtl =	4 mm	Upper Ghaghra =	4 mm
Lower Ghaghara =	2 mm	Upper Ghaghra1 (Nepal) =	12 mm
Lower Raptl (Nepal) =	8 mm	Upper Ghaghra2 (Nepal) =	7 mm
Mlddle Ghaghara =	2 mm	Upper Raptl (Nepal) =	7 mm
Ramganga =	7 mm		

Flood Situation on 12 SEPTEMBER, 2020



2.1 Rainfall Situation

Amount of rainfall recorded at 8:30 hours IST of today ($(\ge 50 \text{ mm or more})$

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

Note - No Station is in this situation Dated 12.09.2020

2.2 LEVEL FORECAST

	LEVEL FORECAST	
S.No.	Flood Situations	No. of Forecasting Sites
	Extreme Flood Situation:	
A .	(Site (s) where the previous Highest Flood Level (HFL) is exceeded or equalized)	0
	Severe Flood Situation :	
3.	(Site(s) where water Level touching or exceeding the Danger Level but below Highest Flood Level(HFL)	0
	Above Normal Flood Situation:	
.	(Site (s) where water level touching or exceeding the warning Level but below Danger Level)	02
	Total Numbers of Sites above Warning Level (A+B+C)	02
	INFLOW FORECAST	
Numbe	r of Sites for which inflow forecasts issued:	0
	inflow are equal or exceed the specified Threshold Limit for a particular ir/ barrage)	0

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

Name of river	Flood	District	State	Danger	Warning	Previous Highest		Actual Level			Forecast			
	Forecastin g Sites			Level(m)	Level (m)	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	105.106	0800	S	105.00	13.09.20	0800	F
Ghaghra	Turtipar	Ballia	U.P	64.01	63.01	66.00	1998	63.03	0800	S	62.95	13.09.20	0800	F

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

Name of river	Flood Forecasting Sites	District	State	Danger	Warning	Previous Highest					Forecast			
				Level(m)	Level (m)	Level(m)	Date	Level(m)	Time	Trend	Level (m)	Date	Time	Trend

Note - No Station is in this situation Dated 12.09.2020

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

Name of	Flood Forecasting Sites	District	State	Danger Level(m)	Warning Level (m)	Previous Highest		Actual Level			Forecast			
river						Level(m)	Date	Level(m)	Time	Trend	Level (m)	Date	Time	Trend

Note - No Station is in this situation Dated 12.09.2020

2.6 Inflow Forecast

	Flood Forecasting Sites	District		HFL(m)	FRL(m)	Previous Highest		Actu	ial Level		Forecast			
Name of river			State			Discharge (Q)	Date	Discharge (Q)	Time	Trend	D (Q)	Date	Time	Trend

Note - No Station is in this situation Dated 12.09.2020

Advisory on Hydro Meteorological Situation Expected from 13-09-2020 to 14-09-2020

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.

अधिशासीअभियंता

मध्य गंगा मण्डल -1 लखनऊ