

Central Water Commission Upper Ganga Basin Organisation, Lucknow Daily Flood Situation Report Cum Advisories Date: 20 SEPTEMBER, 2020

FSR No.90 Dated 20-09-2020

1. Weather forecast by IMD

I. SYNOPTIC SITUATION:

- ♦ The Low Pressure Area over Northeast Bay of Bengal and neighborhood with the associated cyclonic circulation extending upto 7.6 km above mean sea level tilting southwestwards with height persists. It is likely to move west-northwestwards during next 2-3 days and become more marked over Northwest Bay of Bengal & neighbourhood during next 24 hours.
- ♦ The western end of the monsoon trough continues to run close to the foothills of the Himalayas. Its Eastern end now passes through Bareilly, Allahabad, Daltonganj, Puri and thence east-southeastwards to the center of low pressure area over northeast Bay of Bengal.

II. a) <u>DETERMINISTIC FORECAST (QPF):</u>

			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	11-25	11-25		
		Narora to Phaphamau	0.1-10	0.1-10	0.1-10		
3	Ganga	Phaphamau to Ballia	0.1-10	0.1-10	11-25		
3		Gomti	0.1-10	0.1-10	0.1-10		
		Sai	0.1-10	0.1-10	11-25		
		Upper Ganga	0.1-10	0.1-10	0.1-10		
		Lower Ghaghra	0.1-10	0.1-10	11-25		
4	Ghaghra	Middle Ghaghra	0.1-10	0.1-10	11-25		
		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	11-25		
7.	Sharda	Sharda	0.1-10	0.1-10	0.1-10		

II (b) <u>DETERMINISTIC FORECAST (DISTRIBUTION)</u>

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

QPF in Ranges (mm)	UNLISTED	0	0.1-10	11-25	26-50	51-100	>100	
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III. HEAVY RAINFALL WARNING:

NAME OF	NAME OF SUB-	Day-1		Day-2		Day-3	Day-3		
BASIN	BASIN	Ι	D	I	D	I	D		
Alaknanda	Alaknanda								
Bhagirathi	Bhagirathi								
	Chhatnag to Mirzapur								
	Narora to Phaphamau					Н	ISOL		
Ganga	Phaphamau to Ballia					Н	ISOL		
	Gomti								
	Sai					Н	ISOL		
	Upper Ganga								
	Lower Ghaghra								
Ghaghra	Middle Ghaghra								
	Upper Ghaghra								
Ramganga	Ramganga								
Rapti	Rapti					Н	ISOL		
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									
M.Dry.	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	7-11 cm VH Very Heavy rainfall		12-20 cm					
EH	Extremely Heavy rainfall	21 cm or More	19/10							
ExH	Exceptionally Heavy Rainfall		he month or	e near about the highest reco season. However, this term exceeds 12 cm						

IV. PROBABILISTIC FORECAST

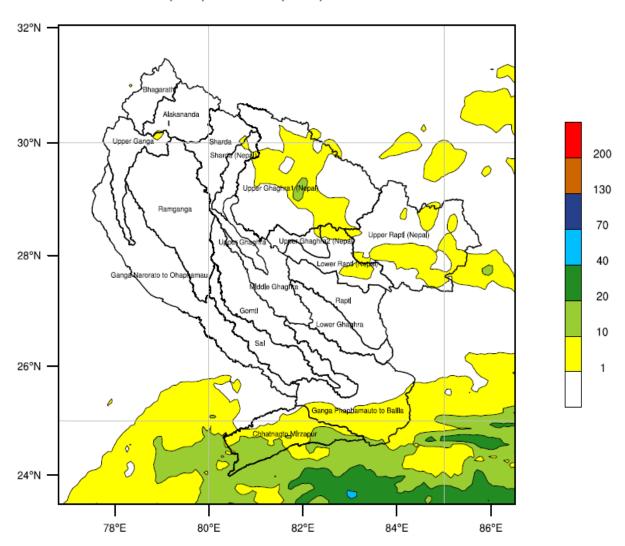
			Day-	1					Day-	-2					Day-3					
S. No.	BASIN NAME	SUBBASIN CODE/NAME	0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm	0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm	0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm
1	Alaknanda	Alaknanda		75-100						75-100			-			75-100			_	
2	Bhagirathi	Bhagirathi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

Probability of occurrence (%)	0-5	5-25	25-50	50-75	75-100

Init; 2020-09-20_00:00:00 Valid: 2020-09-21_03:00:00

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IMD WRF Rainfall (mm) Forecast(24hr)



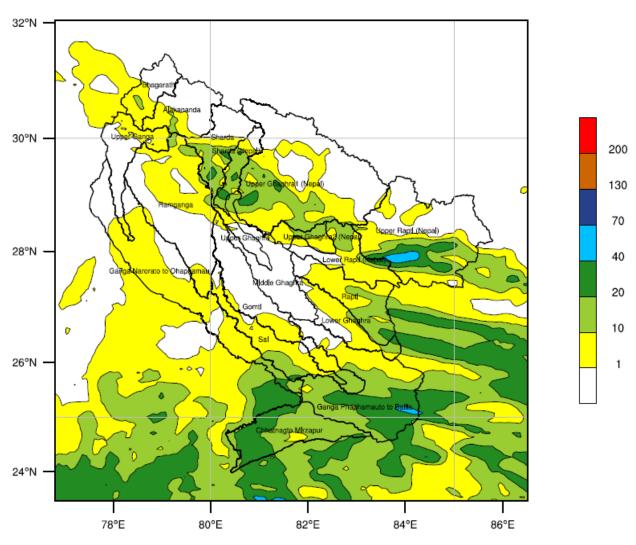
Sub basin wise Average Rainfall Estimation

Alaknanda =	0 mm	Raptl =	0 mm
Bhaglrathl =	0 mm	Sai =	0 mm
Chhatnagto Mirzapur =	8 mm	Sharda =	0 mm
Ganga Narorato Ohaphamau =	0 mm	Sharda (Nepal) =	0 mm
Ganga Phaphamauto Balia =	1 mm	Upper Ganga =	0 mm
Gomtl =	0 mm	Upper Ghaghra =	1 mm
Lower Ghaghara =	0 mm	Upper Ghaghra1 (Nepal) =	0 mm
Lower Raptl (Nepal) =	1 mm	Upper Ghaghra2 (Nepal) =	0 mm
Mlddle Ghaghara =	0 mm	Upper Raptl (Nepal) =	1 mm
Ramganga =	0 mm		

Init: 2020-09-20_00:00:00 Valld: 2020-09-22_03:00:00

FLOOD MET OFFICE LUCKNOW

IMD WRF Rainfall (mm) Forecast(48hr)



Sub basin wise Average Rainfall Estimation

Alaknanda =	2 mm	Raptl =	9 mm
Bhaglrath =	3 mm	Sai =	6 mm
Chhatnagto Mirzapur =	19 mm	Sharda =	11 mm
Ganga Narorato Ohaphamau =	3 mm	Sharda (Nepal) =	6 mm
Ganga Phaphamauto Balia =	16 mm	Upper Ganga =	1 mm
Gomtl =	2 mm	Upper Ghaghra =	5 mm
Lower Ghaghara =	5 mm	Upper Ghaghra1 (Nepal) =	7 mm
Lower Raptl (Nepal) =	8 mm	Upper Ghaghra2 (Nepal) =	1 mm
Mlddle Ghaghara =	0 mm	Upper Raptl (Nepal) =	8 mm
Ramganga =	2 mm		

Flood Situation on 20 SEPTEMBER, 2020



2.1 Rainfall Situation

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

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

Note - No Station is in this situation Dated 20.09.2020

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 :	
В.	(Site(s) where water Level touching or exceeding the Danger Level but below Highest Flood Level(HFL)	0
	Above Normal Flood Situation:	
C.	(Site (s) where water level touching or exceeding the warning Level but below Danger Level)	0
	Total Numbers of Sites above Warning Level (A+B+C)	0
	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 Forecastin g Sites		District	State	Danger	Warning		rious nest	Actı	ıal Leve	[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 20.09.2020

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			
livei				Level(m)	Level (m)	Level(m)	Date	Level(m)	Time	Trend	Level (m)	Date	Time	Trend

Note - No Station is in this situation Dated 20.09.2020

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

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

Note - No Station is in this situation Dated 20.09.2020

2.6 Inflow Forecast

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

Note - No Station is in this situation Dated 20.09.2020

Advisory on Hydro Meteorological Situation Expected from 21-09-2020 to 22-09-2020

As per rainfall pattern given in section II, Alaknanda, Bhagirathi & Ganga rivers are expected to receive very light rain at isolated areas in next 48 hrs. Ghaghra, Ramganga, Sharda & Rapti river basins are expected to receive very light to light rain at isolated areas in next 48 hours. Water level at most of CWC stations are expected to steady/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 situation is expected in Ganga, Ghaghra, Rapti & Sharda river basins.

अधिशासीअभियंता

मध्य गंगा मण्डल -1 लखनऊ