

# Flood Forecasting and Warning Center, Bangladesh Water Development Board

Web: [www.ffwc.gov.bd](http://www.ffwc.gov.bd), Email: [ffwcbwdb@gmail.com](mailto:ffwcbwdb@gmail.com)

Medium Range 1-10 days Probabilistic Forecast

**Forecast As of June 19, 2018**

## Outlook for Next 10 Days:

- Water level of the Brahmaputra-Jamuna and Ganges-Padma River may continue rising in next 10 days.

For viewing interactive hydrographs of the Medium Range forecast please visit: <http://ffwc.gov.bd/index.php/hydrograph/medium-range-1-10-days-forecast>

Forecast made on: 19-06-2018 (Page 1/5)

Water Level in [m]			today	1-day fore- cast	2-day fore- cast	3-day fore- cast	4-day fore- cast	5-day fore- cast	6-day fore- cast	7-day fore- cast	8-day fore- cast	9-day fore- cast	10-day fore- cast	Forecast type
River	Station	D.L	19-06	20-06	21-06	22-06	23-06	24-06	25-06	26-06	27-06	28-06	29-06	
Jamuna	Bahadurabad	19.50	17.50	17.54	17.71	17.89	18.08	18.33	18.57	18.83	19.20	19.41	19.57	Upper Range
				17.53	17.65	17.73	17.74	17.76	17.81	17.93	18.15	18.40	18.55	Lower Range
				17.53	17.68	17.82	17.92	18.06	18.23	18.43	18.71	18.95	19.17	Mean
Jamuna	Sariakandi	16.70	14.12	14.40	14.52	14.72	14.93	15.15	15.40	15.68	16.02	16.23	16.39	Upper Range
				14.39	14.48	14.60	14.65	14.67	14.71	14.81	15.00	15.22	15.42	Lower Range
				14.39	14.50	14.67	14.80	14.94	15.10	15.28	15.54	15.83	16.03	Mean
Jamuna	Kazipur	14.85	12.95	13.26	13.37	13.56	13.75	13.96	14.20	14.46	14.78	15.00	15.16	Upper Range
				13.26	13.34	13.46	13.51	13.53	13.57	13.66	13.82	14.04	14.23	Lower Range
				13.26	13.35	13.51	13.64	13.77	13.92	14.10	14.33	14.60	14.80	Mean
Jamuna	Serajganj	13.35	11.19	11.56	11.67	11.85	12.03	12.24	12.48	12.74	13.11	13.45	13.65	Upper Range
				11.56	11.65	11.77	11.82	11.84	11.88	11.96	12.10	12.32	12.52	Lower Range
				11.56	11.66	11.81	11.93	12.05	12.21	12.39	12.61	12.89	13.18	Mean
Jamuna	Aricha	9.40	6.55	6.90	7.11	7.26	7.41	7.58	7.79	8.01	8.20	8.52	8.79	Upper Range
				6.90	7.10	7.22	7.31	7.36	7.39	7.46	7.54	7.70	7.90	Lower Range
				6.90	7.10	7.24	7.36	7.48	7.60	7.77	7.94	8.10	8.31	Mean
Ganges- Padma	Hardinge Bridge	14.25	6.74	6.79	6.96	7.09	7.22	7.37	7.55	7.77	8.02	8.42	8.90	Upper Range
				6.79	6.95	7.07	7.17	7.25	7.33	7.42	7.51	7.65	7.81	Lower Range
				6.79	6.95	7.08	7.20	7.32	7.44	7.60	7.75	7.97	8.27	Mean

Forecast made on: 19-06-2018 (Page 2/5)

Water Level in [m]			today	1-day fore- cast	2-day fore- cast	3-day fore- cast	4-day fore- cast	5-day fore- cast	6-day fore- cast	7-day fore- cast	8-day fore- cast	9-day fore- cast	10-day fore- cast	Forecast type
River	Station	D.L	19-06	20-06	21-06	22-06	23-06	24-06	25-06	26-06	27-06	28-06	29-06	
Padma	Goalondo	8.50	5.93	6.24	6.45	6.61	6.75	6.91	7.09	7.32	7.57	7.94	8.25	Upper Range
				6.24	6.45	6.57	6.66	6.71	6.75	6.82	6.89	7.03	7.21	Lower Range
				6.24	6.45	6.59	6.71	6.82	6.93	7.09	7.24	7.46	7.71	Mean
Padma	Bhagyakul	6.30	3.82	3.64	3.83	3.96	4.07	4.20	4.34	4.53	4.72	5.02	5.30	Upper Range
				3.64	3.83	3.94	4.02	4.07	4.10	4.15	4.21	4.31	4.45	Lower Range
				3.64	3.83	3.95	4.05	4.14	4.23	4.36	4.48	4.65	4.85	Mean
Padma	Mawa	6.10	2.59	2.74	2.88	2.98	3.07	3.17	3.29	3.44	3.60	3.85	4.11	Upper Range
				2.74	2.88	2.97	3.03	3.08	3.11	3.15	3.20	3.29	3.40	Lower Range
				2.74	2.88	2.97	3.05	3.13	3.20	3.31	3.41	3.55	3.72	Mean
Padma	Sureshwar	4.40	2.55	2.65	2.76	2.83	2.90	2.98	3.08	3.20	3.33	3.53	3.75	Upper Range
				2.65	2.75	2.82	2.88	2.92	2.95	2.99	3.03	3.10	3.19	Lower Range
				2.65	2.75	2.83	2.89	2.95	3.01	3.10	3.18	3.30	3.44	Mean
Old Brahmaputra	Jamalpur	17.00	11.56	11.81	12.04	12.20	12.33	12.46	12.58	12.81	13.09	13.47	14.10	Upper Range
				11.81	12.04	12.19	12.30	12.38	12.43	12.50	12.55	12.61	12.72	Lower Range
				11.81	12.04	12.20	12.32	12.42	12.51	12.64	12.80	12.98	13.25	Mean
Old Brahmaputra	Mymensingh	12.50	6.04	6.11	6.28	6.55	6.84	7.07	7.26	7.45	7.66	7.86	8.07	Upper Range
				6.11	6.28	6.55	6.83	7.05	7.21	7.35	7.46	7.54	7.62	Lower Range
				6.11	6.28	6.55	6.83	7.06	7.23	7.40	7.56	7.70	7.85	Mean

Forecast made on: 19-06-2018 (Page 3/5)

Water Level in [m]			today	1-day fore- cast	2-day fore- cast	3-day fore- cast	4-day fore- cast	5-day fore- cast	6-day fore- cast	7-day fore- cast	8-day fore- cast	9-day fore- cast	10-day fore- cast	Forecast type
River	Station	D.L	19-06	20-06	21-06	22-06	23-06	24-06	25-06	26-06	27-06	28-06	29-06	
Dhaleswari	Elashinghat	11.40	8.67	9.13	9.37	9.56	9.73	9.92	10.14	10.42	10.77	11.26	11.53	Upper Range
				9.13	9.36	9.50	9.60	9.65	9.68	9.76	9.85	10.03	10.23	Lower Range
				9.13	9.37	9.53	9.67	9.79	9.93	10.11	10.30	10.58	10.93	Mean
Dhaleswari	Jagir	8.23	5.26	5.34	5.48	5.62	5.74	5.84	5.94	6.07	6.20	6.36	6.55	Upper Range
				5.34	5.47	5.62	5.73	5.81	5.86	5.93	5.97	6.01	6.08	Lower Range
				5.34	5.47	5.62	5.73	5.81	5.86	5.93	5.97	6.01	6.08	Mean

				5.34	5.47	5.62	5.73	5.83	5.90	6.00	6.09	6.19	6.31	Mean
Dhaleswari	Rekabi Bazar (Munshiganj)	5.18	3.02	3.10	3.21	3.31	3.41	3.52	3.63	3.76	3.91	4.08	4.27	Upper Range
				3.10	3.21	3.30	3.39	3.48	3.55	3.64	3.72	3.82	3.93	Lower Range
				3.10	3.21	3.31	3.40	3.50	3.59	3.70	3.82	3.95	4.08	Mean
Tongi Khal	Tongi	6.08	3.93	3.97	4.02	4.08	4.15	4.21	4.25	4.34	4.43	4.53	4.64	Upper Range
				3.97	4.02	4.08	4.15	4.20	4.24	4.31	4.38	4.45	4.51	Lower Range
				3.97	4.02	4.08	4.15	4.20	4.25	4.33	4.40	4.49	4.57	Mean
Turag	Mirpur	5.94	3.25	2.61	2.72	2.83	2.94	3.05	3.17	3.31	3.46	3.62	3.79	Upper Range
				2.61	2.72	2.82	2.92	3.03	3.11	3.21	3.30	3.40	3.50	Lower Range
				2.61	2.72	2.83	2.93	3.04	3.14	3.26	3.38	3.51	3.64	Mean
Buriganga	Dhaka	6.00	3.25	2.54	2.65	2.75	2.86	2.97	3.08	3.22	3.36	3.53	3.72	Upper Range
				2.54	2.65	2.75	2.84	2.93	3.01	3.10	3.19	3.28	3.39	Lower Range
				2.54	2.65	2.75	2.85	2.95	3.05	3.16	3.28	3.41	3.54	Mean

Forecast made on: 19-06-2018 (Page 4/5)

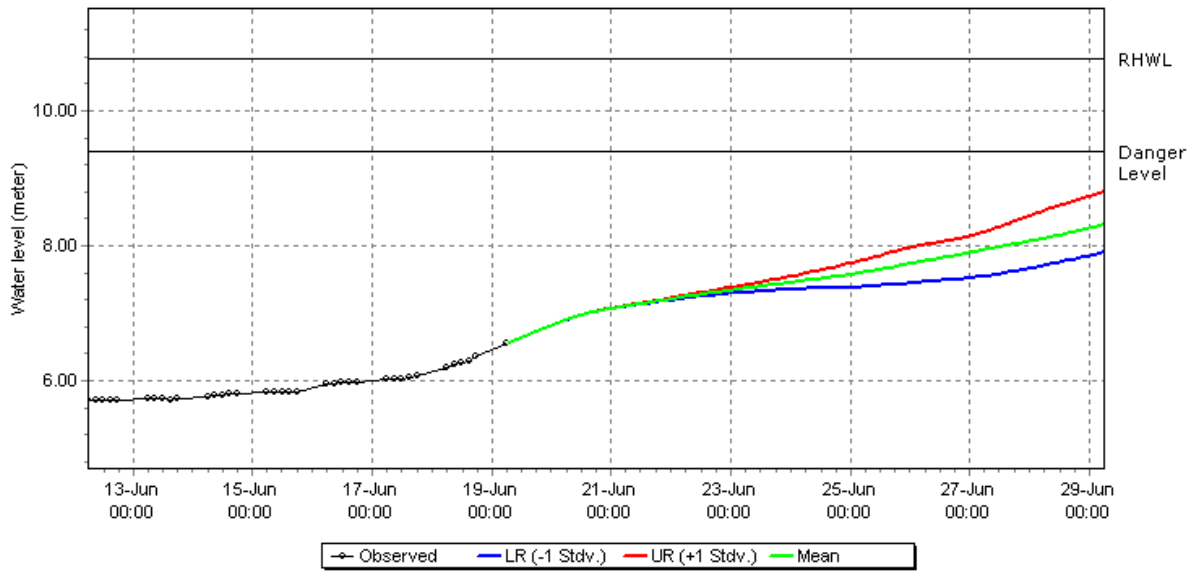
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Water Level in [m]			19-06	20-06	21-06	22-06	23-06	24-06	25-06	26-06	27-06	28-06	29-06	Forecast type
River	Station	D.L	0600	0600	0600	0600	0600	0600	0600	0600	0600	0600	0600	
Balu	Demra	5.75	3.60	3.64	3.70	3.76	3.84	3.90	3.96	4.04	4.12	4.21	4.30	Upper Range
				3.64	3.70	3.76	3.84	3.90	3.95	4.02	4.09	4.16	4.22	Lower Range
				3.64	3.70	3.76	3.84	3.90	3.95	4.03	4.10	4.18	4.26	Mean
Lakhya	Narayanganj	5.50	3.73	3.79	3.88	3.97	4.06	4.15	4.24	4.35	4.46	4.59	4.73	Upper Range
				3.79	3.88	3.97	4.05	4.13	4.20	4.28	4.35	4.43	4.52	Lower Range
				3.79	3.88	3.97	4.06	4.14	4.22	4.31	4.41	4.51	4.62	Mean
Gorai	Gorai Rly Bridge	12.75	5.11	5.27	5.46	5.59	5.73	5.87	6.04	6.26	6.49	6.85	7.24	Upper Range
				5.27	5.46	5.58	5.67	5.74	5.80	5.88	5.96	6.08	6.24	Lower Range
				5.27	5.46	5.58	5.70	5.81	5.93	6.07	6.22	6.43	6.69	Mean
Gorai	Kamarkhali	8.20	2.44	2.56	2.66	2.75	2.81	2.89	2.97	3.07	3.18	3.34	3.57	Upper Range
				2.55	2.66	2.74	2.80	2.86	2.89	2.94	2.97	3.02	3.09	Lower Range
				2.55	2.66	2.75	2.81	2.88	2.94	3.01	3.08	3.17	3.30	Mean
Arial Khan	Madaripur	4.17	1.92	2.01	2.13	2.23	2.29	2.37	2.45	2.55	2.67	2.83	3.03	Upper Range
				2.01	2.13	2.22	2.27	2.32	2.34	2.38	2.41	2.46	2.53	Lower Range
				2.01	2.13	2.22	2.28	2.35	2.40	2.48	2.54	2.63	2.76	Mean
Atrai	Baghabari	10.40	7.22	7.58	7.79	7.94	8.09	8.25	8.45	8.68	8.91	9.23	9.50	Upper Range

				7.58	7.78	7.90	7.99	8.04	8.08	8.15	8.24	8.40	8.58	Lower Range
				7.58	7.79	7.92	8.04	8.15	8.27	8.43	8.60	8.79	9.04	Mean

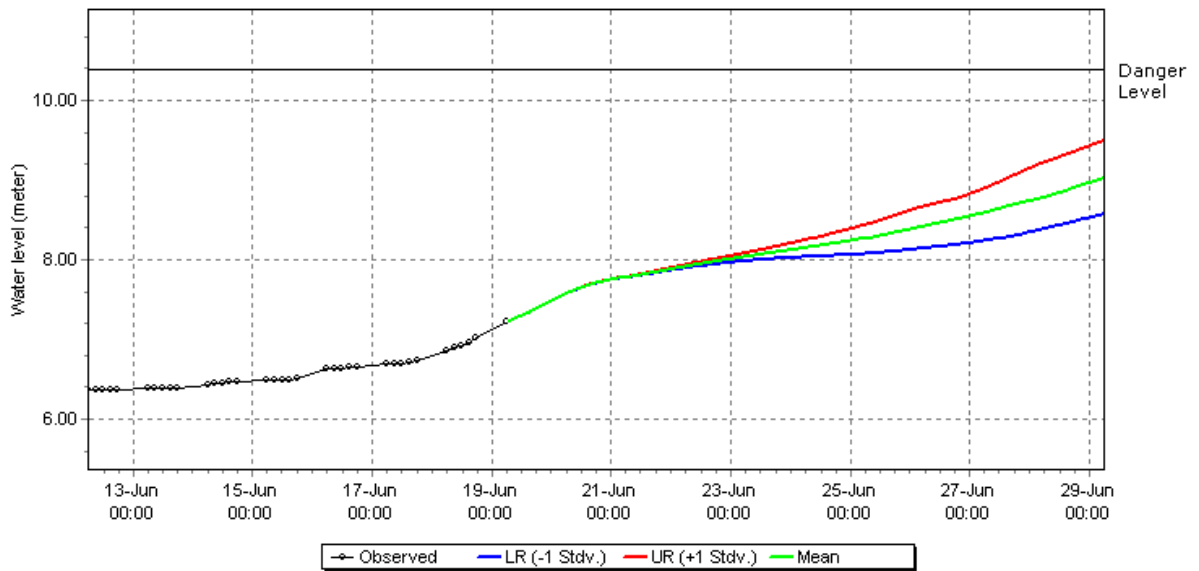
Forecast made on: 19-06-2018 (Page 5/5)

			today	1-day	2-day	3-day	4-day	5-day	6-day	7-day	8-day	9-day	10-day	
				fore-	fore-	fore-	fore-	fore-	fore-	fore-	fore-	fore-	fore-	
				cast	cast	cast	cast	cast	cast	cast	cast	cast	cast	
Water Level in [m]			19-06	20-06	21-06	22-06	23-06	24-06	25-06	26-06	27-06	28-06	29-06	Forecast type
River	Station	D.L	0600	0600	0600	0600	0600	0600	0600	0600	0600	0600	0600	
Atrai	Mohadevpur	18.59	13.68	13.91	14.15	14.31	14.37	14.39	14.46	14.64	14.95	15.30	15.58	Mean
Khusiyara	Sheola	13.50	13.43	11.00	10.06	9.85	10.23	11.77	13.04	13.22	13.23	13.21	13.13	Mean
Khusiyara	Sherpur	9.00	8.40	8.45	8.43	8.44	8.48	8.55	8.62	8.65	8.67	8.69	8.71	Mean
Manu	Moulvi Bazar	11.75	11.15	10.85	11.29	12.10	12.27	12.35	12.39	12.35	12.31	12.31	12.45	Mean
Surma	Sylhet	11.25	10.56	9.40	8.88	8.72	9.04	10.06	10.36	10.37	10.35	10.31	10.23	Mean
Surma	Sunamganj	8.25	7.06	7.12	7.09	7.02	7.03	7.08	7.15	7.21	7.28	7.33	7.36	Mean
Surma	Kanaighat	13.20	13.49	11.03	10.19	10.10	11.19	13.48	13.56	13.54	13.47	13.36	13.18	Mean
Kalni	Dirai	-	5.49	5.59	5.69	5.77	5.89	5.97	6.01	6.05	6.09	6.12	6.14	Mean
Upper Meghna	Bhairab Bazar	6.25	2.95	3.09	3.22	3.36	3.51	3.64	3.76	3.89	4.01	4.13	4.25	Mean
Upper Meghna	Narsingdi	5.20	2.58	2.66	2.77	2.88	3.00	3.11	3.21	3.33	3.45	3.57	3.70	Mean
Jamuna	Naogaon	15.24	10.60	10.61	10.65	10.74	10.84	10.93	11.28	11.80	12.33	12.74	13.03	Mean
Lower Meghna	Chandpur	4.00	1.60	1.68	1.77	1.83	1.88	1.94	1.99	2.06	2.14	2.24	2.37	Mean
Kumar	Faridpur	7.50	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	Mean

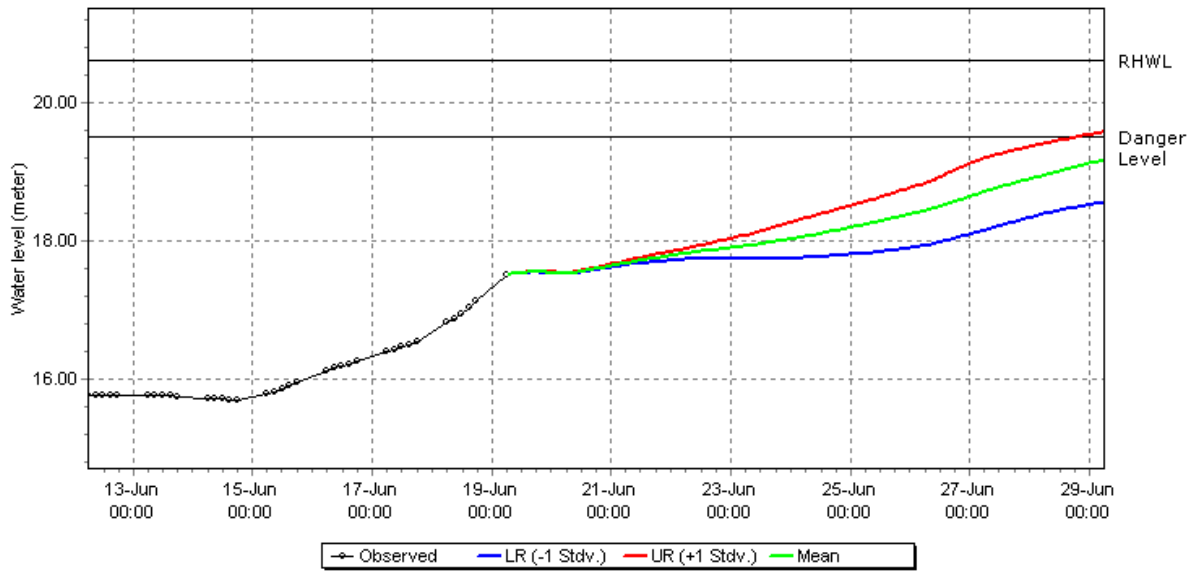
Jamuna River at Aricha (Year 2018)



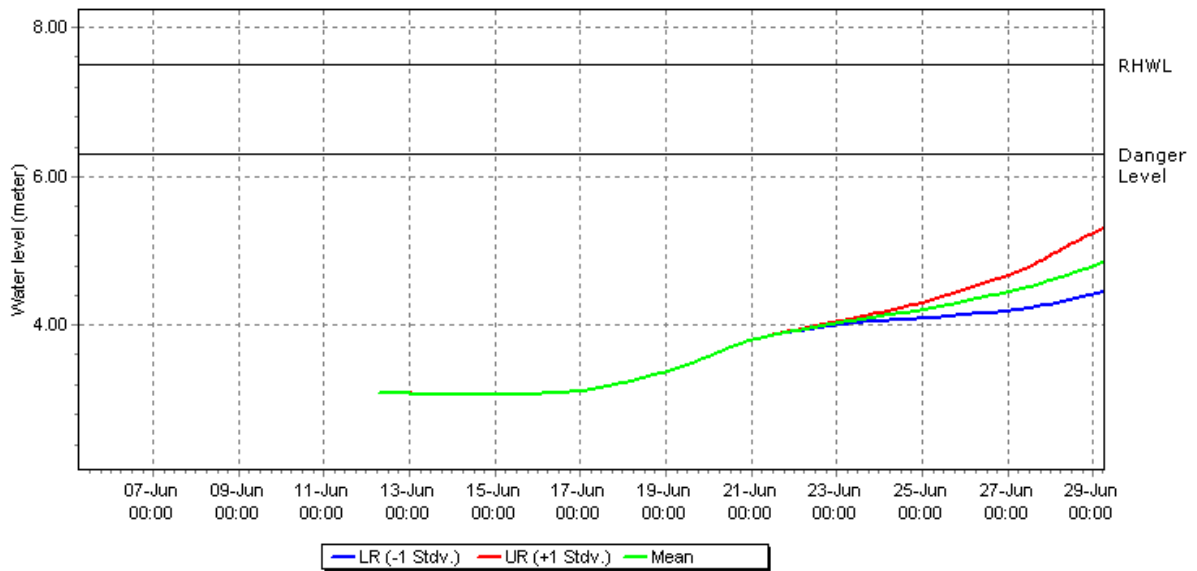
Atrai River at Baghabari (Year 2018)



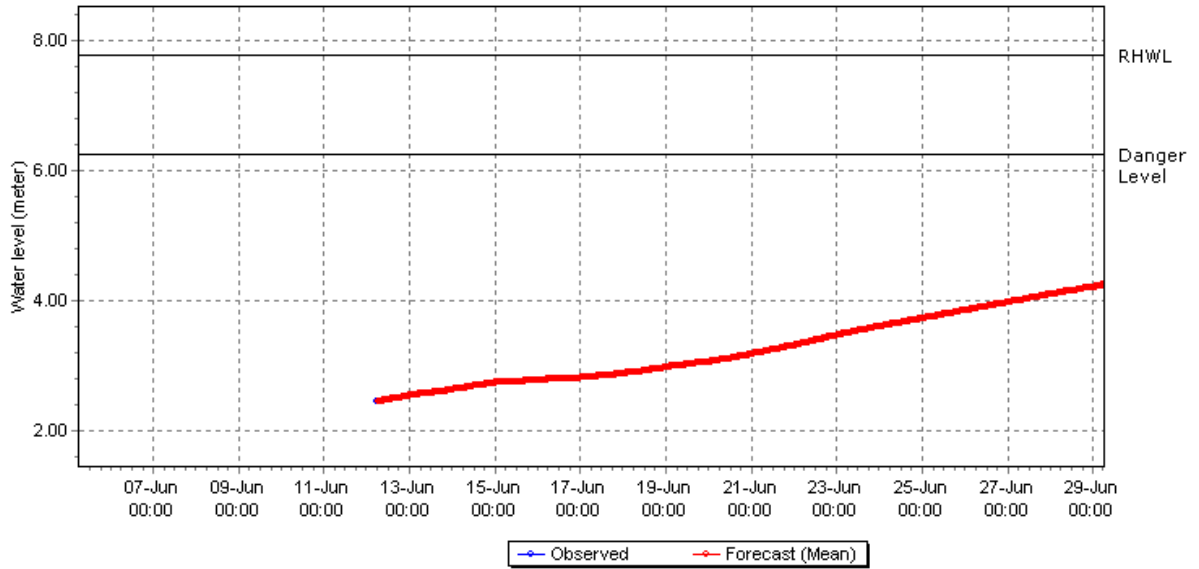
Jamuna River at Bahadurabad (Year 2018)



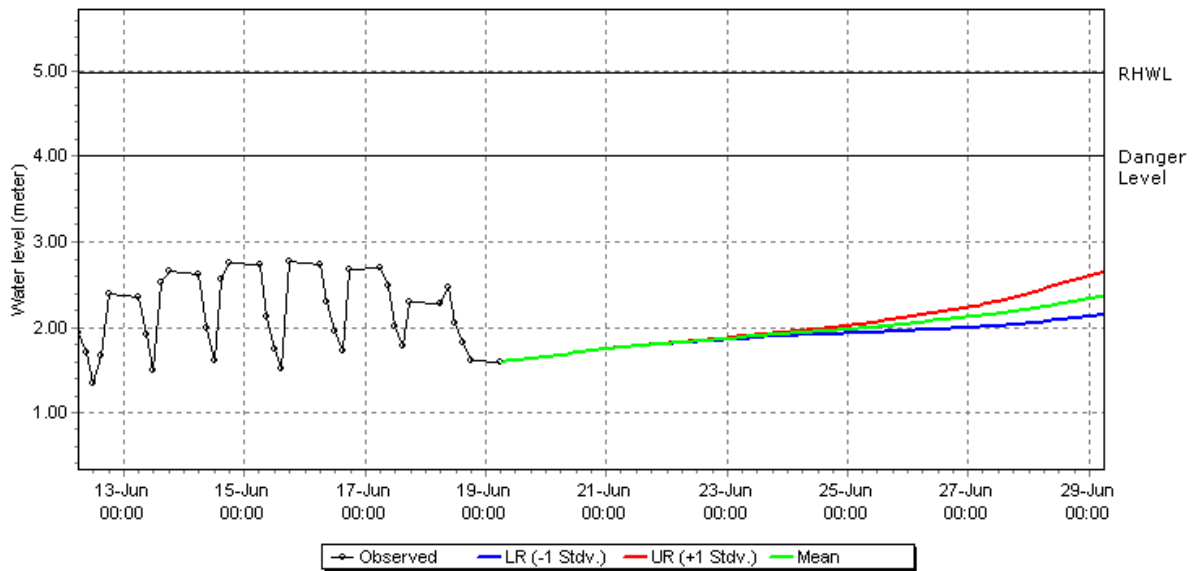
Padma River at Bhagyakul (Year 2018)



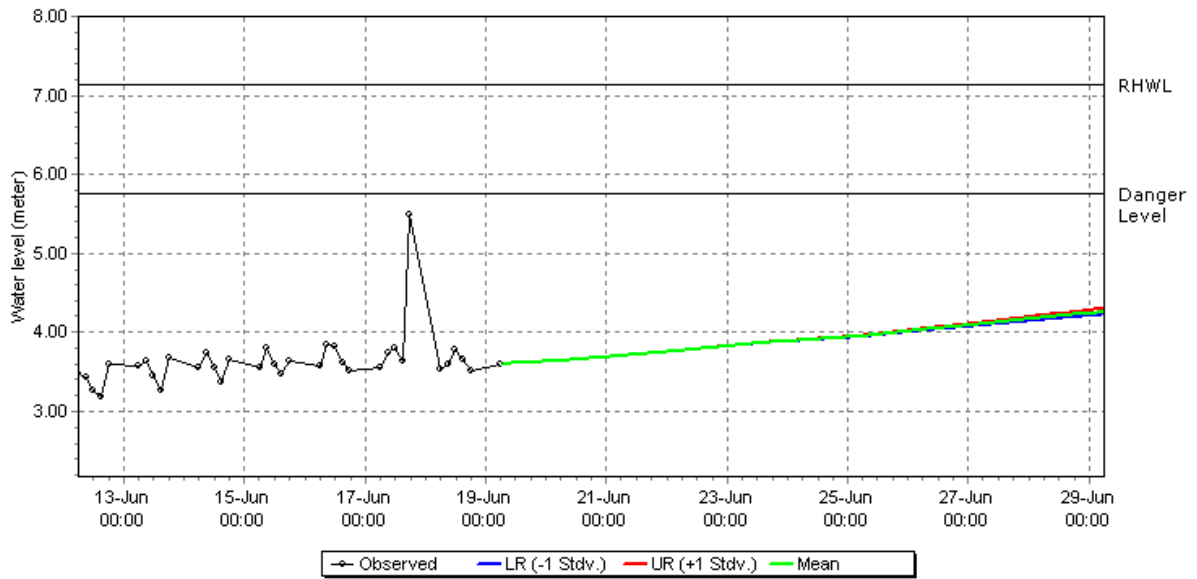
Meghna River at Bhairab Bazar (Year 2018)



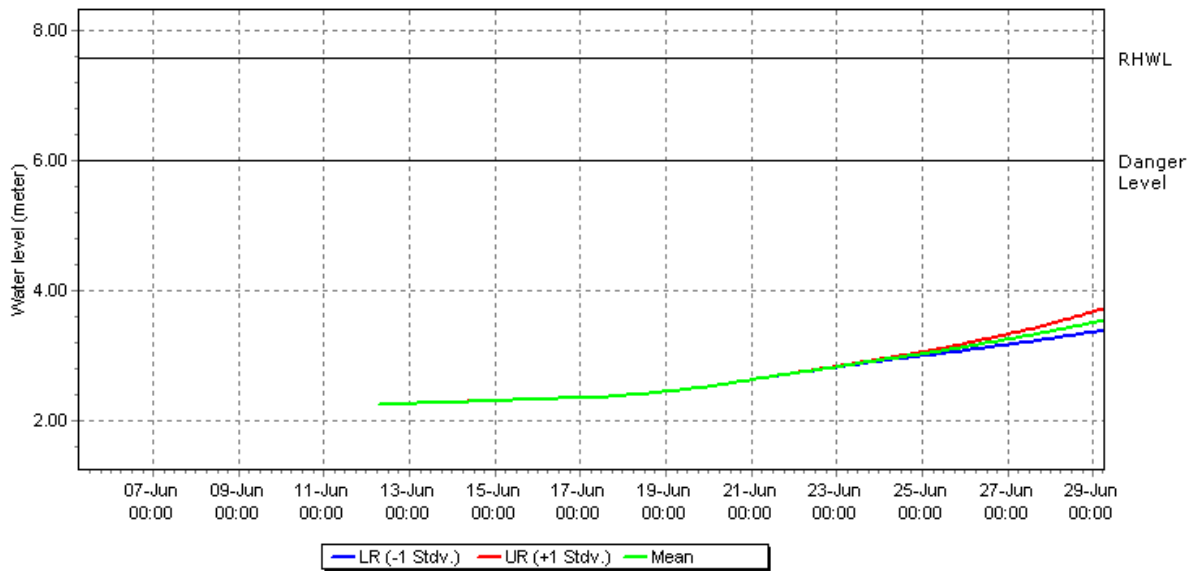
Meghna River at Chandpur (Year 2018)



**Balu River at Demra (Year 2018)**

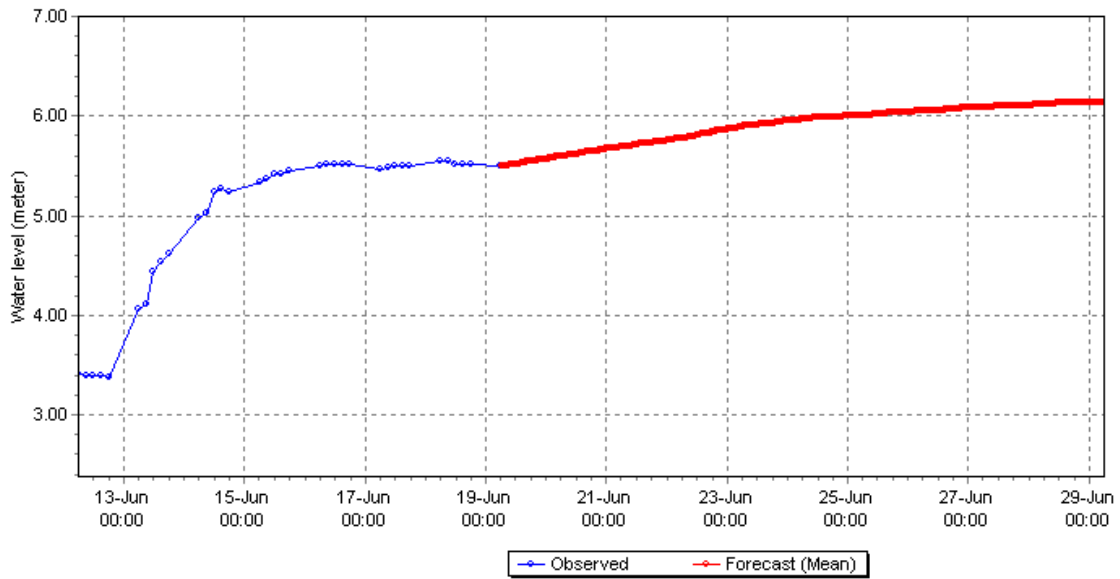


**Buriganga River at Dhaka (Year 2018)**

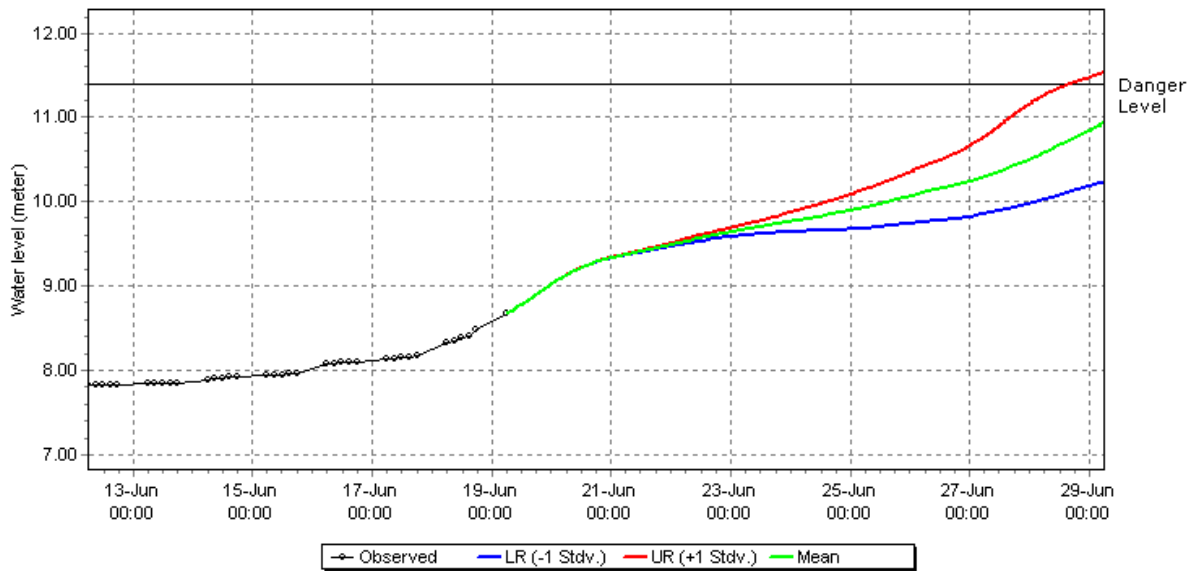




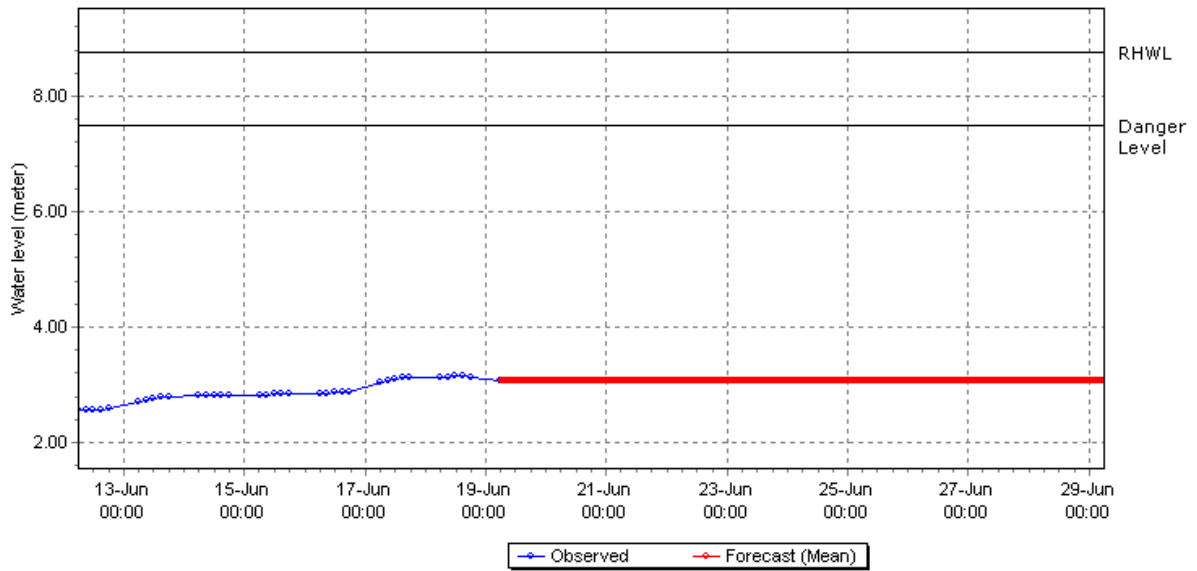
**Kalni (Old Surma) River at Dirai (Year 2018)**



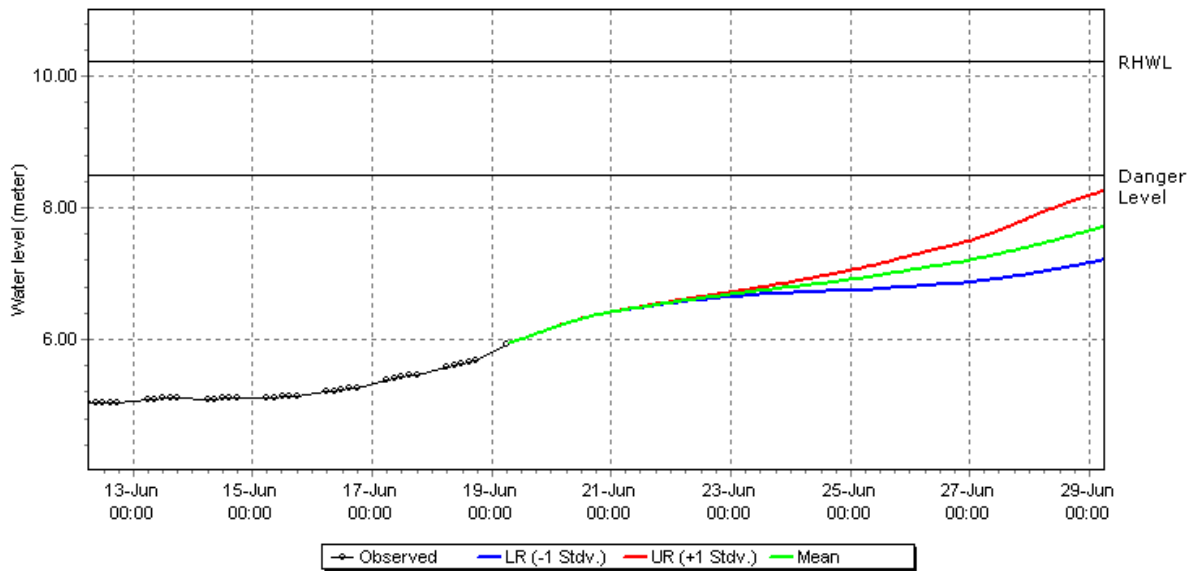
**Dhaleswari River at Elashinghat (Year 2018)**



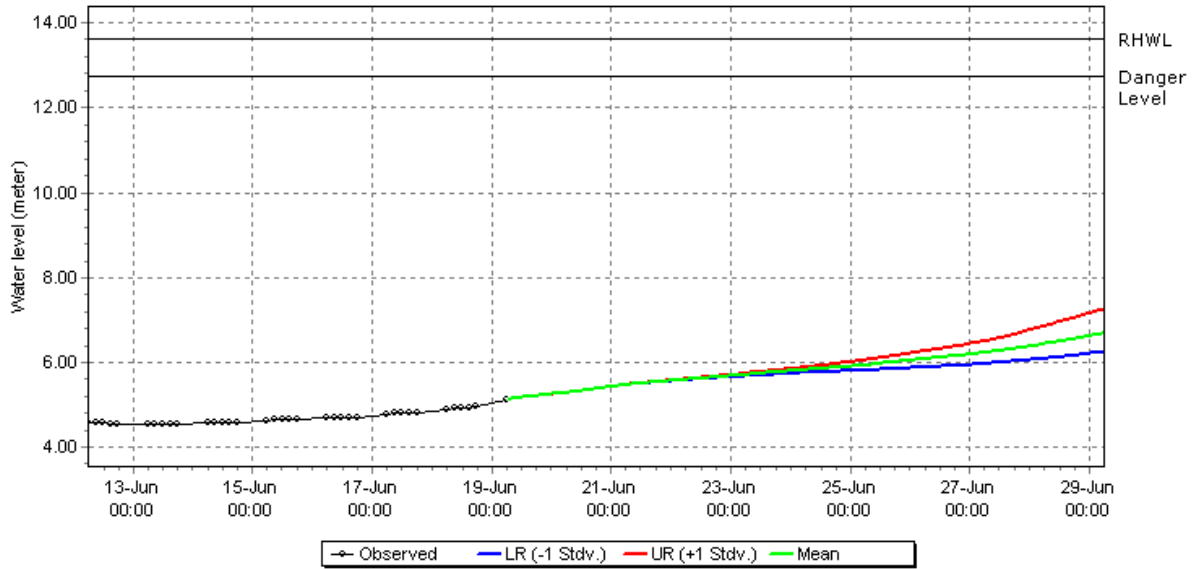
**Kumar River at Faridpur (Year 2018)**



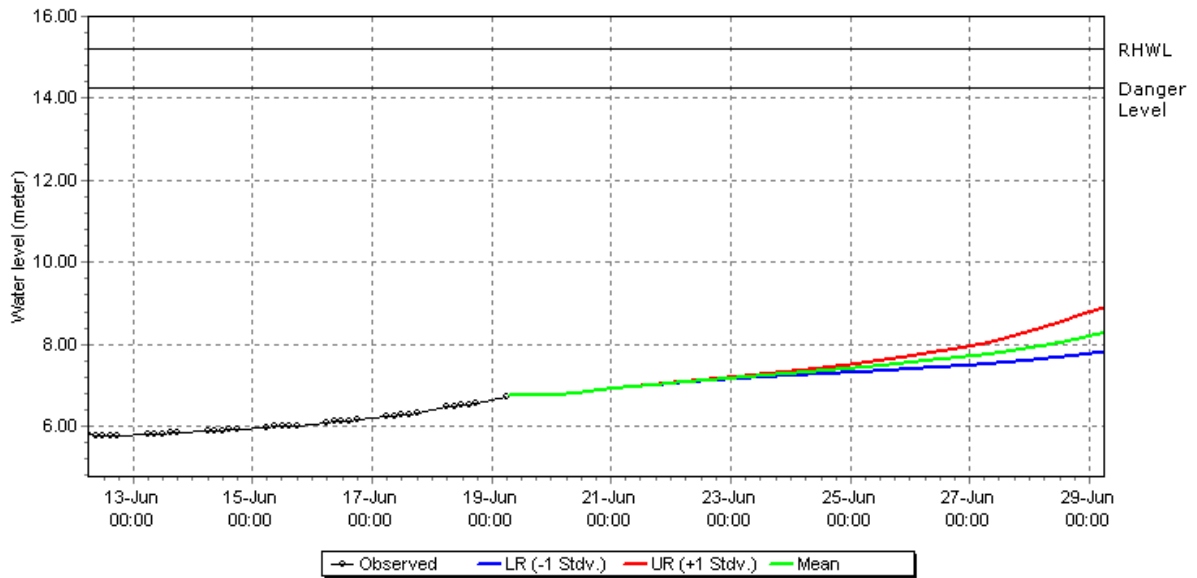
**Padma River at Goalondo (Year 2018)**



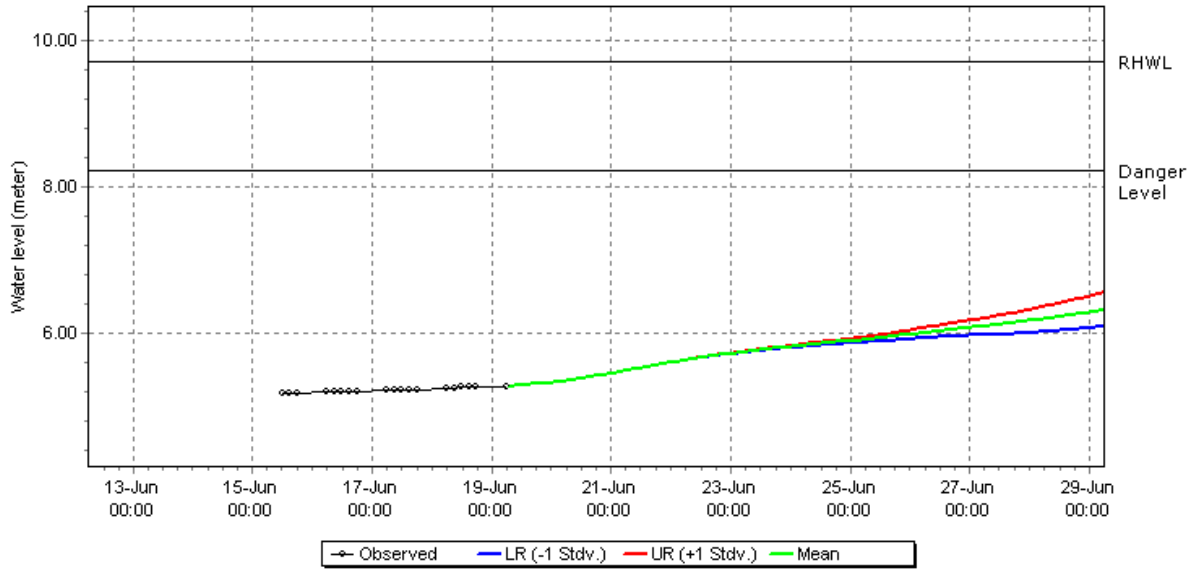
Gorai River at Gorai Rly Bridge (Year 2018)



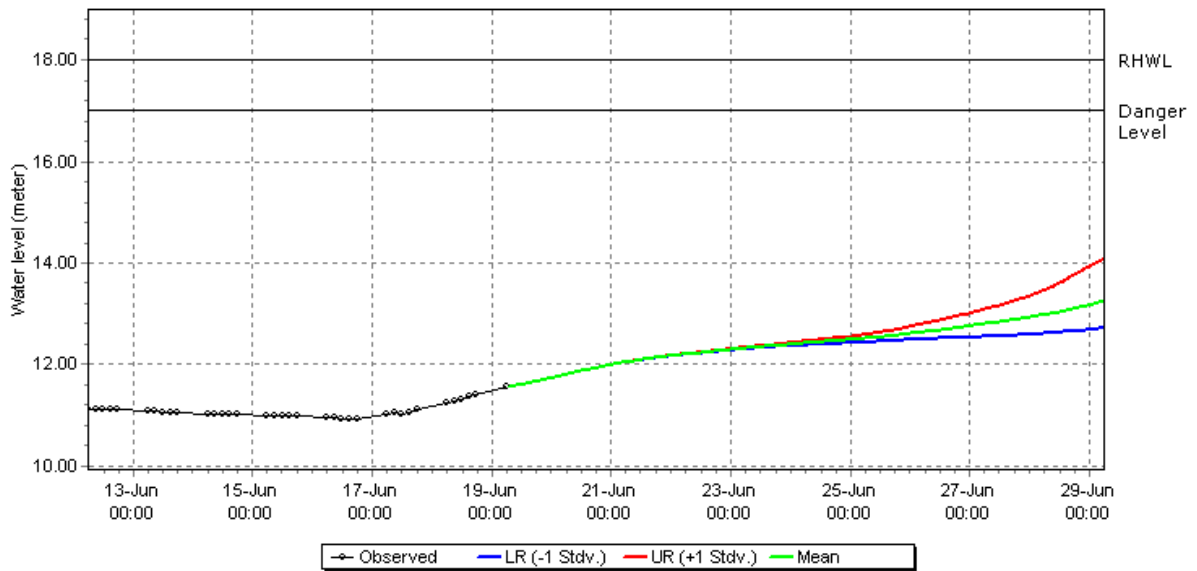
Padma River at Hardinge-Bridge (Year 2018)



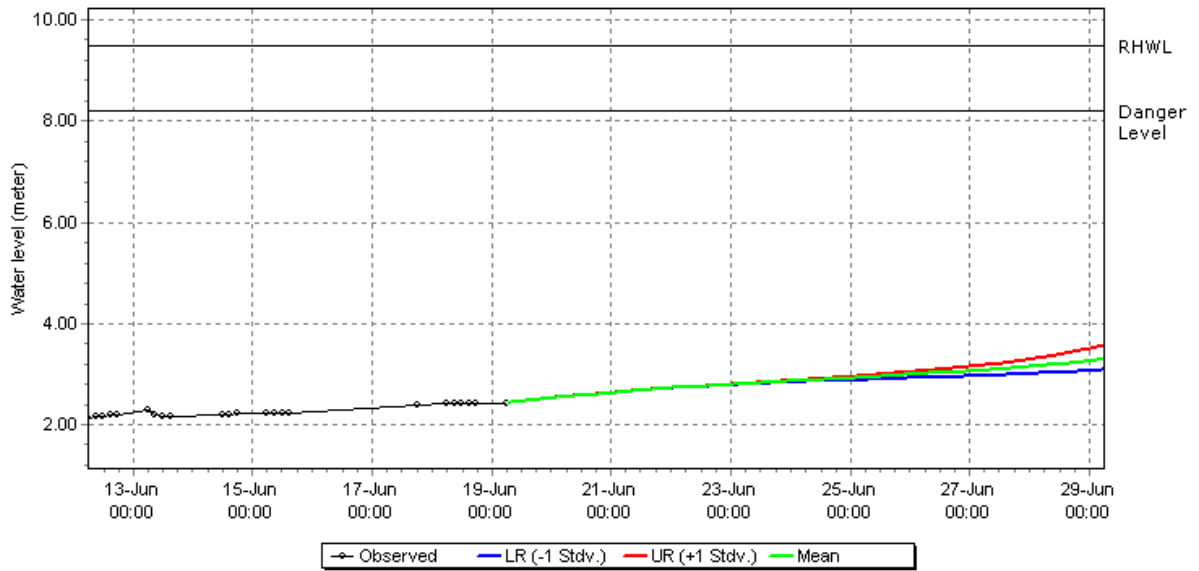
Dhaleswari River at Jagir (Year 2018)



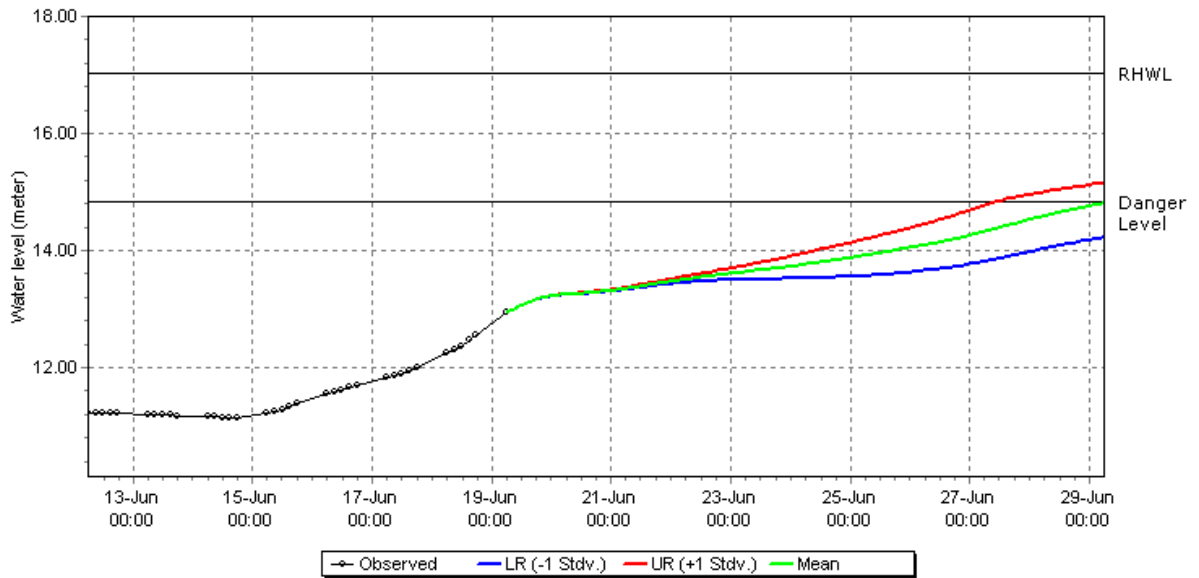
Old Brahmaputra River at Jamalpur (Year 2018)



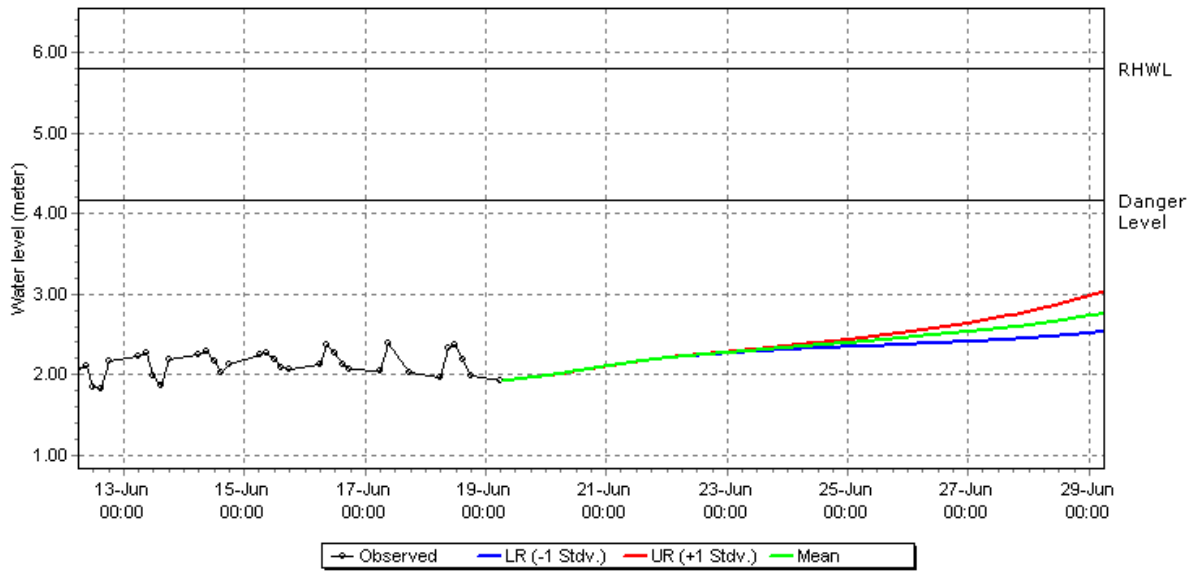
Gorai River at Kamarkhali (Year 2018)



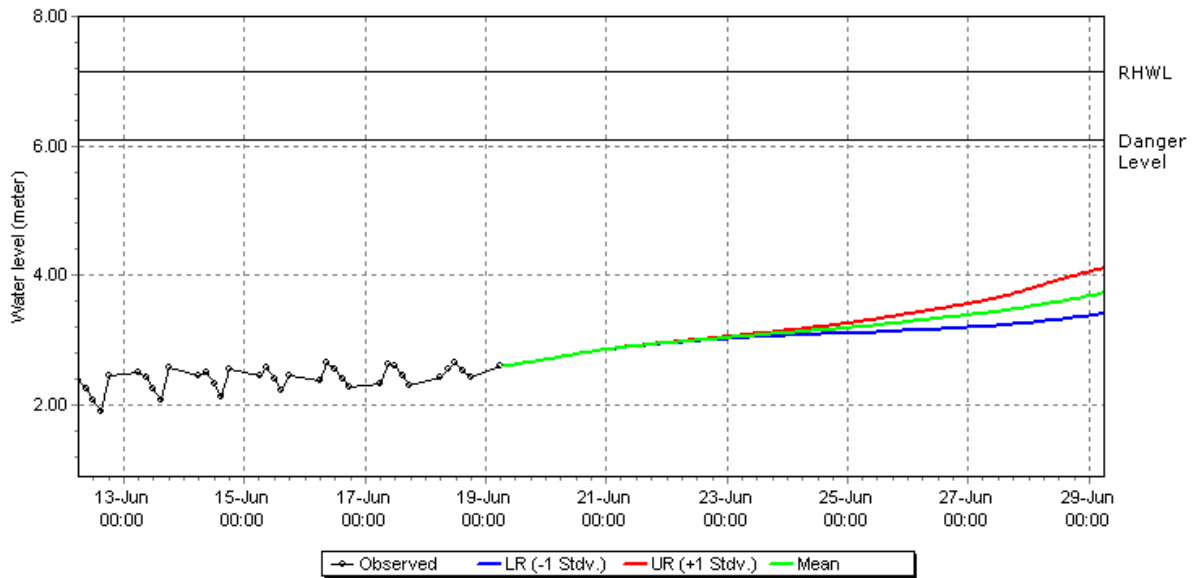
Jamuna River at Kazipur (Year 2018)



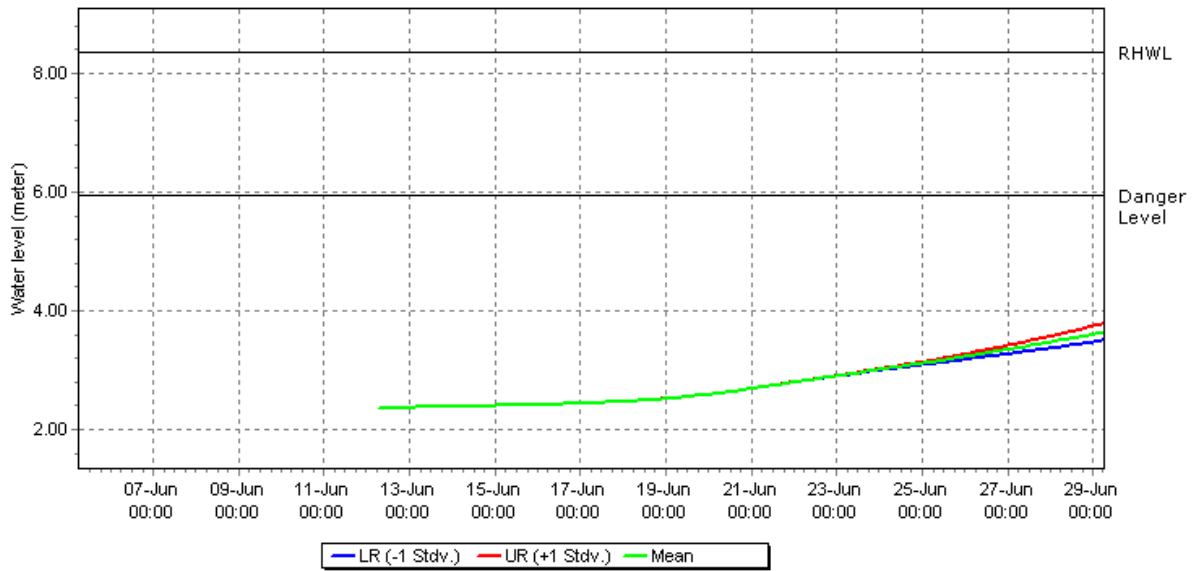
**Arialkhan River at Madaripur (Year 2018)**



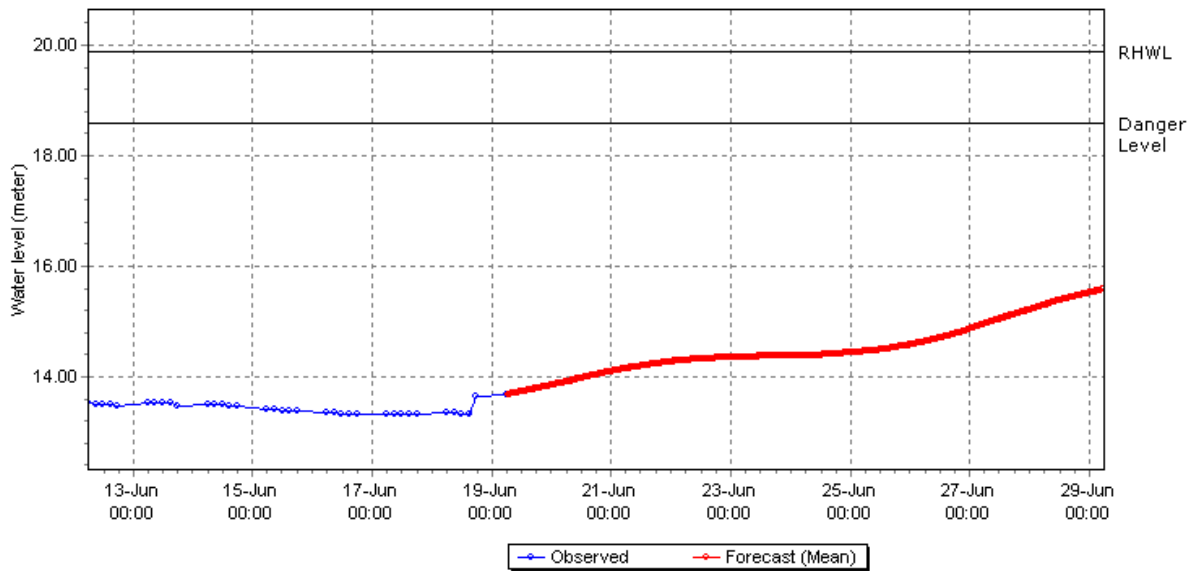
**Padma River at Mawa (Year 2018)**



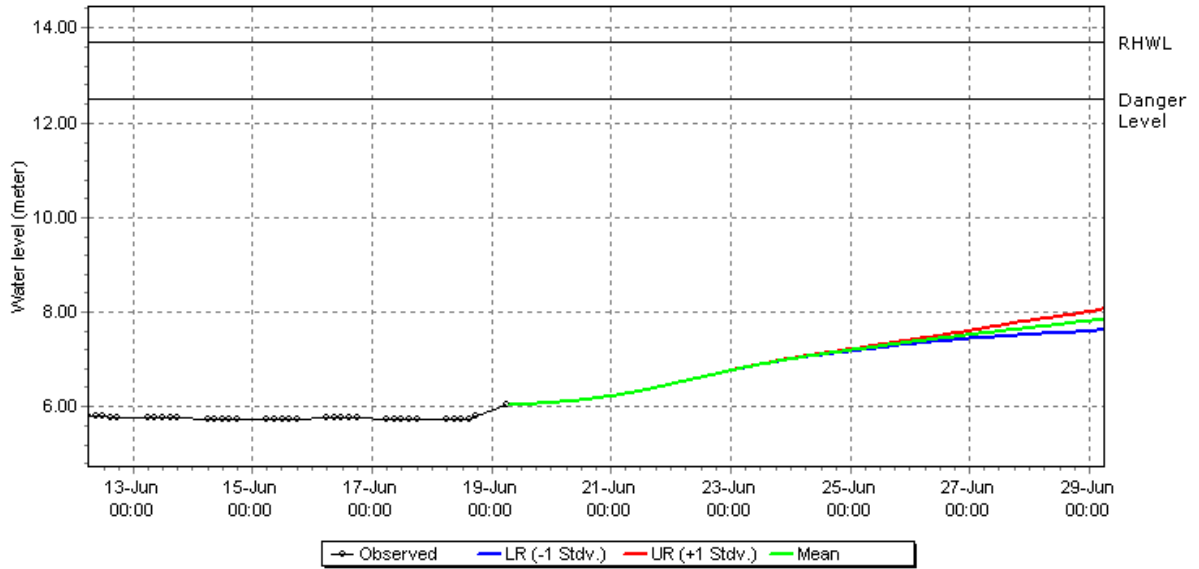
Turag River at Mirpur (Year 2018)



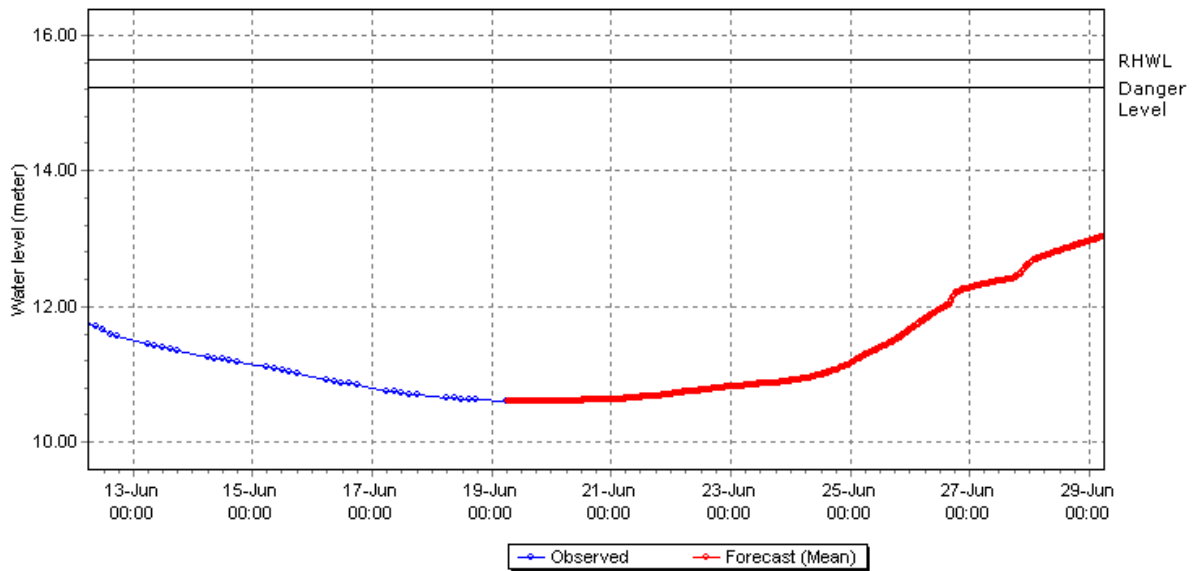
Atrai River at Mohadevpur (Year 2018)



Old Brahmaputra River at Mymensingh (Year 2018)

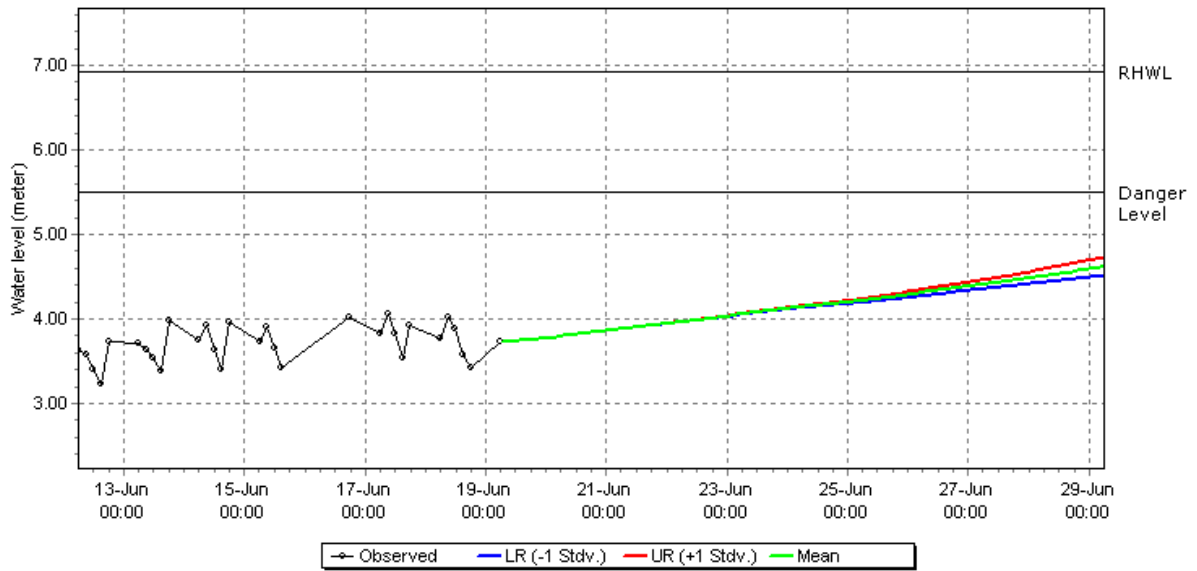


Little Jamuna River at Naogaon (Year 2018)

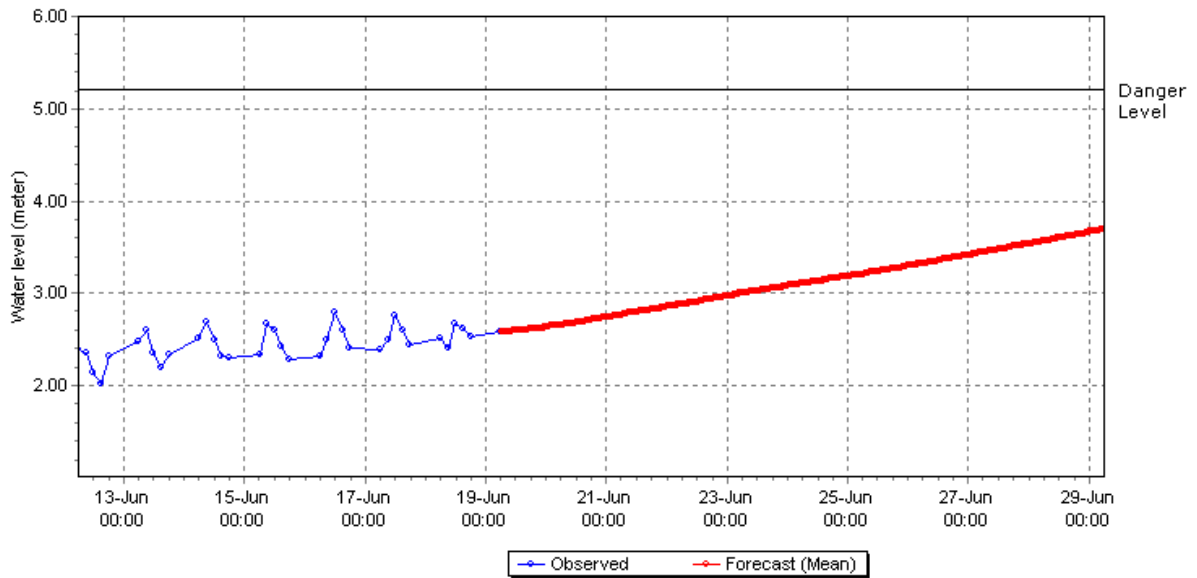




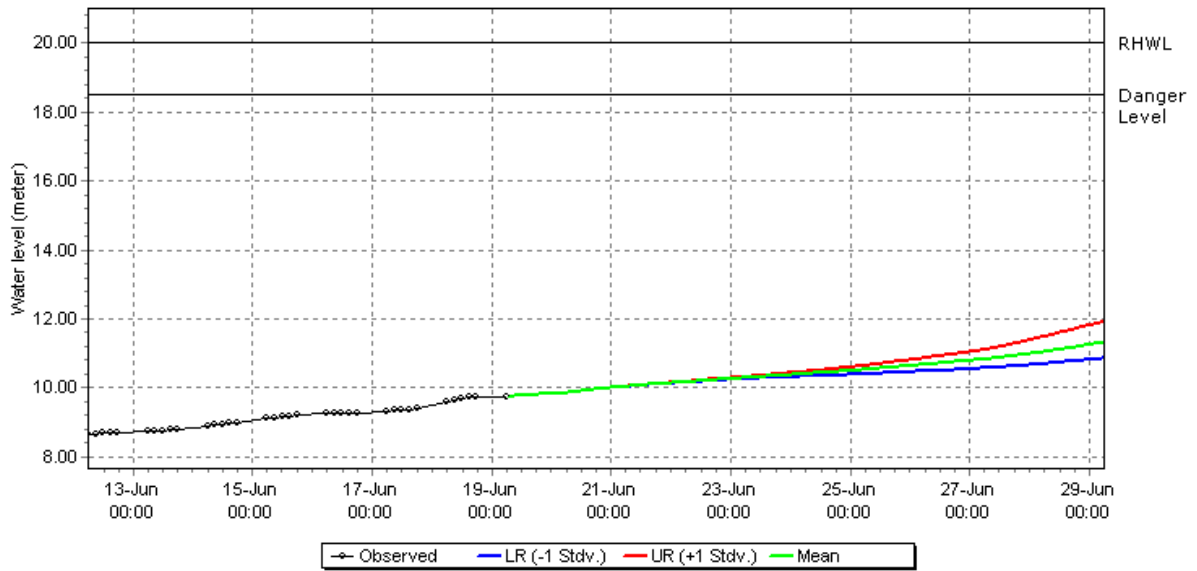
Lakhya River at Narayanganj (Year 2018)



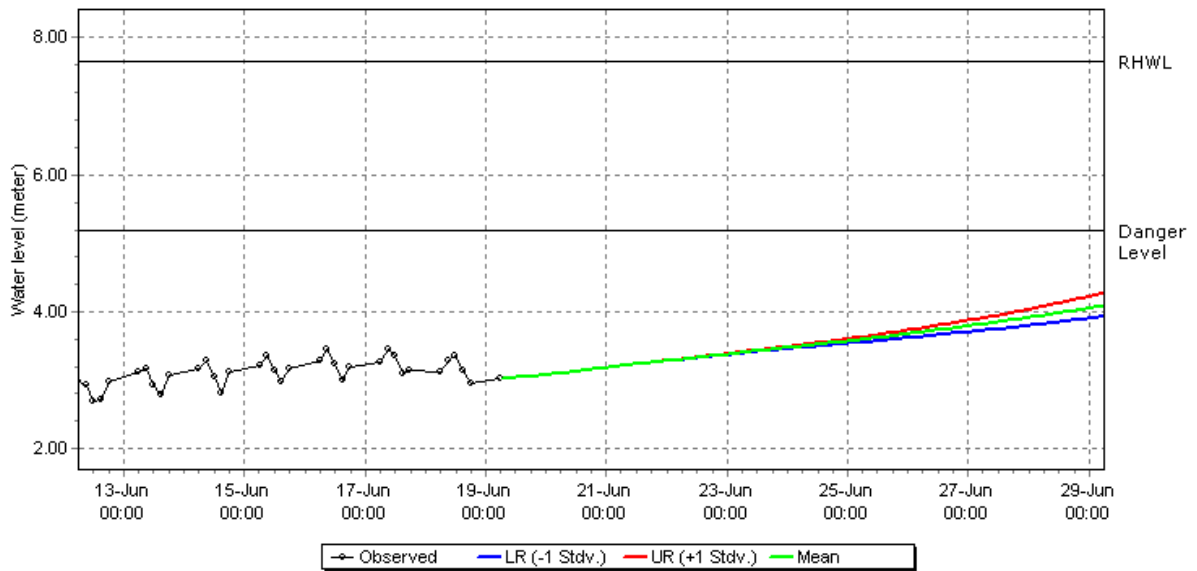
Arialkhan-NC River at Narsingdi (Year 2018)



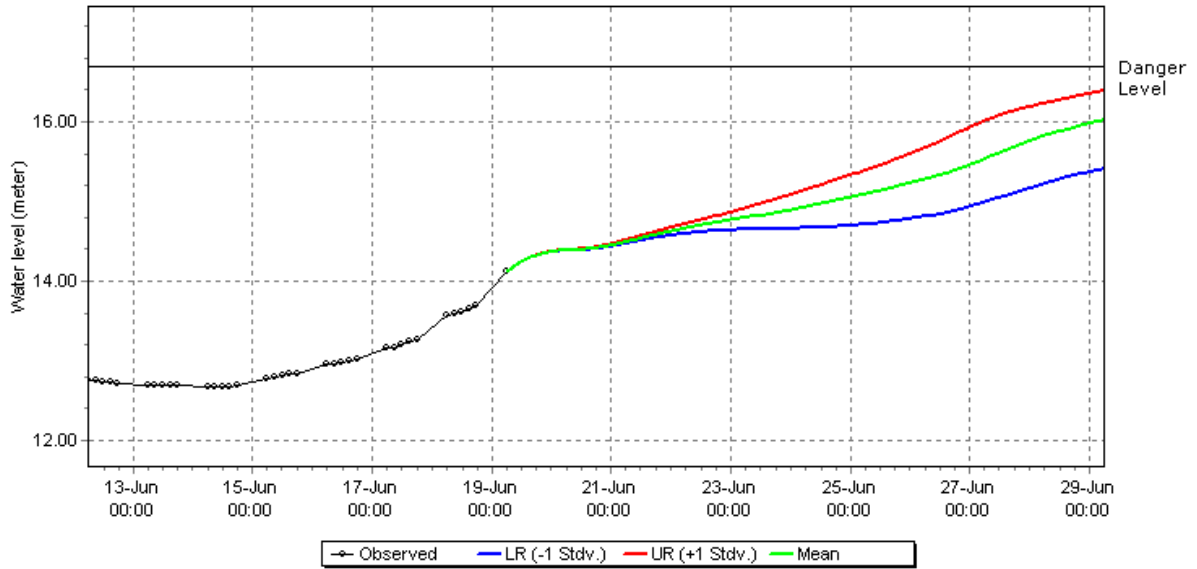
**Padma River at Rajshahi (Year 2018)**



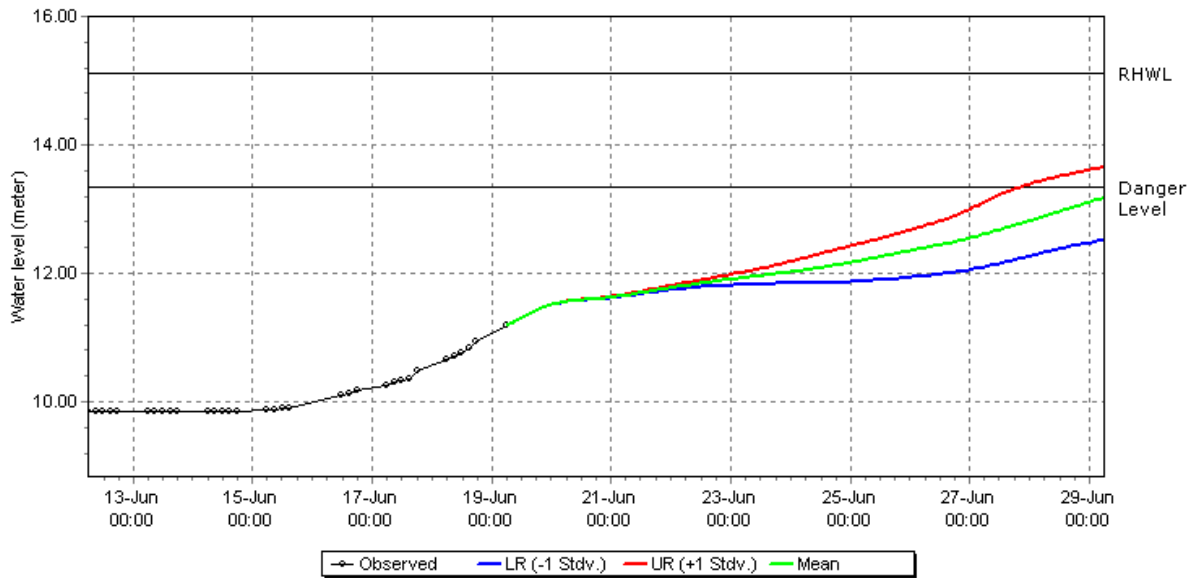
**Dhaleswari River at Rekabi-Bazar (Year 2018)**



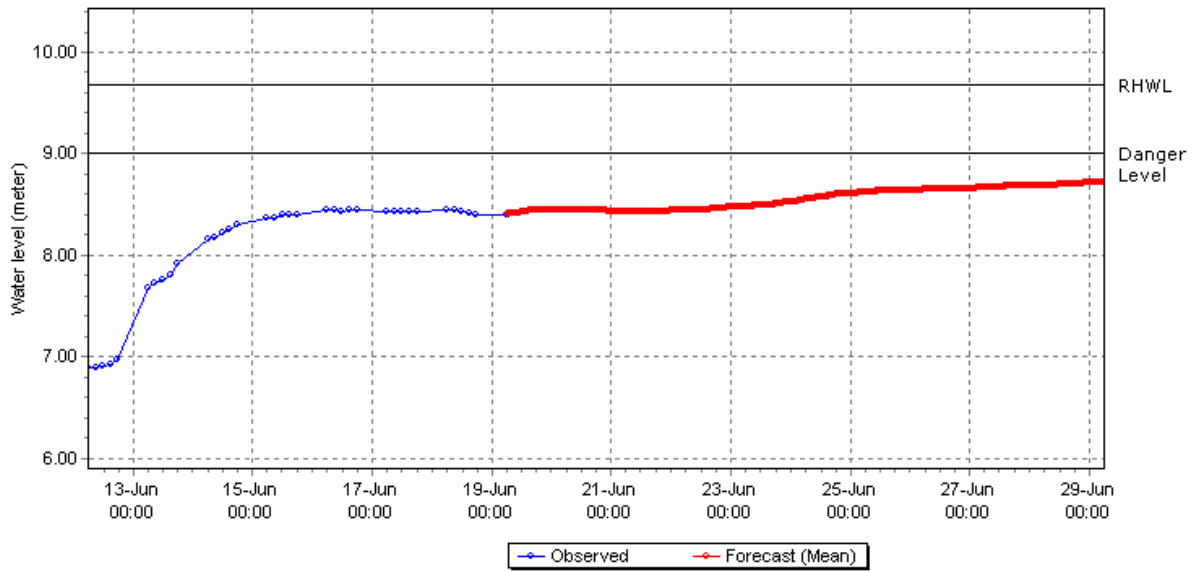
Jamuna River at Sariakandi (Year 2018)



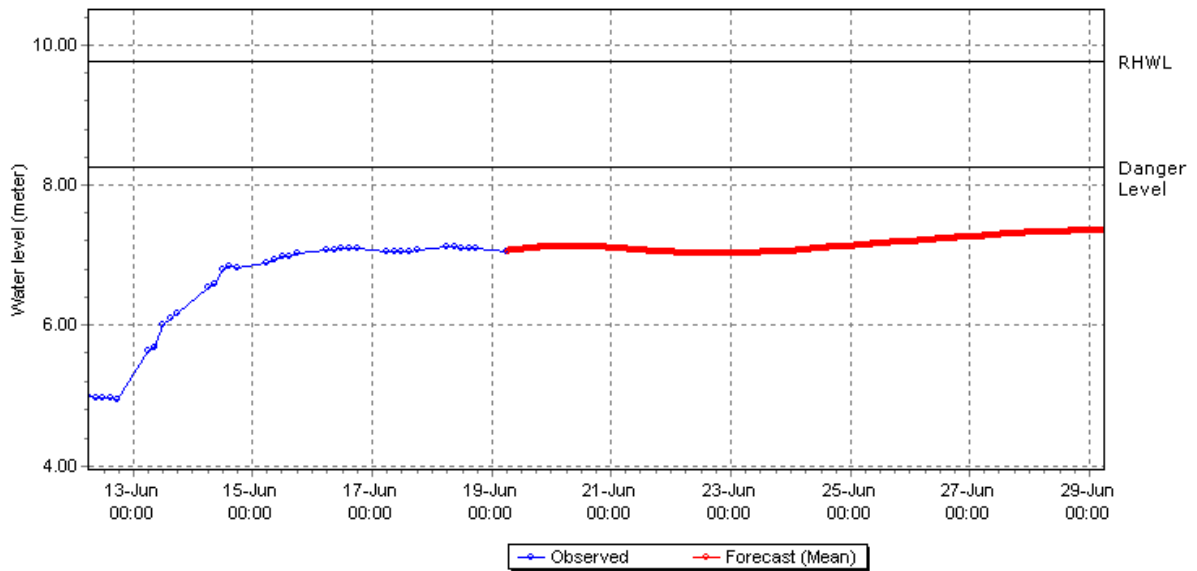
Jamuna River at Serajganj (Year 2018)



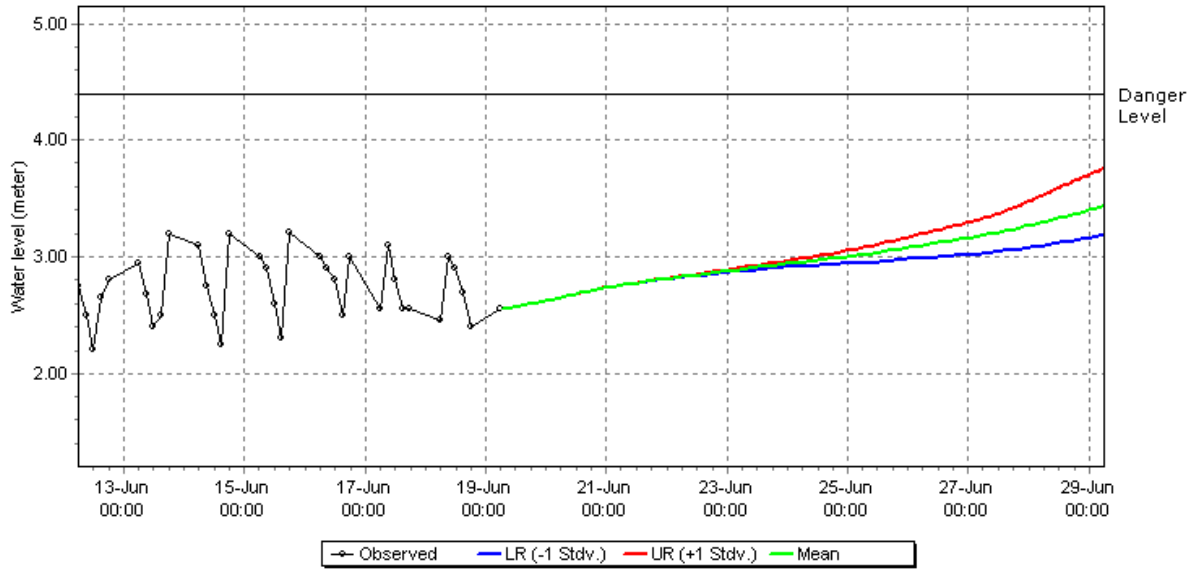
**Kushiyara River at Sherpur (Year 2018)**



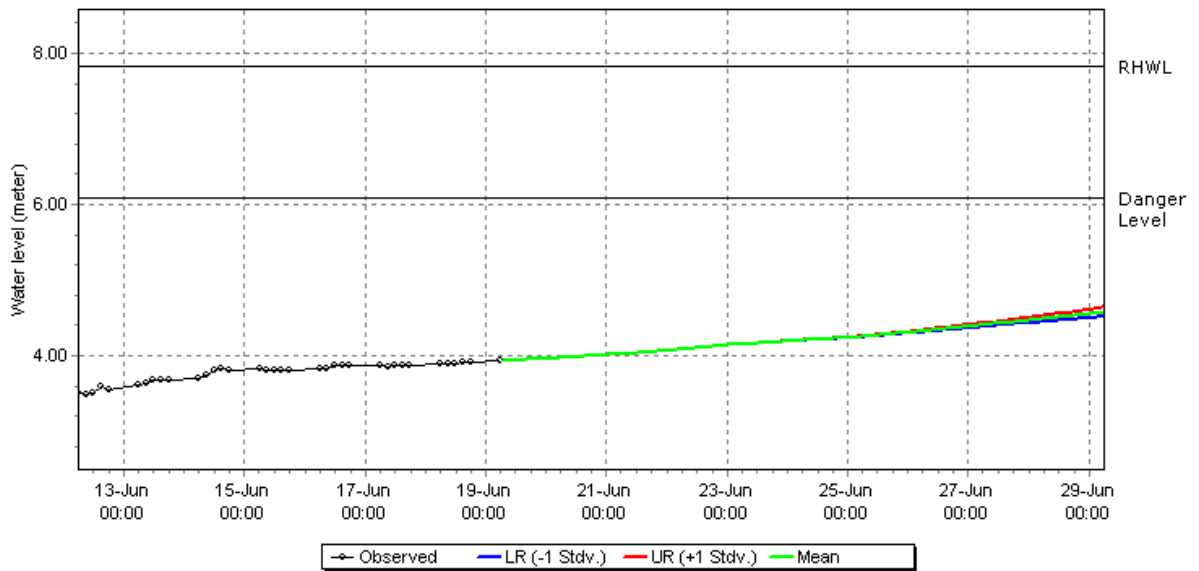
**Surma River at Sunamganj (Year 2018)**



**Padma River at Sureshwar (Year 2018)**



**Tongi Khal at Tongi (Year 2018)**



## **Elaboration**

The above forecast is carried out using the ECMWF 0.5X0.5 deg. ensemble precipitation forecasts (51 set of ensembles) across Brahmaputra and Ganges basin and generating 15 days flow forecast for Brahmaputra River (at Bahadurabad point) and on Ganges River (at Hardinge Bridge point).

Upper Range and Lower Range corresponds respectively to the +1 and -1 standard deviation.

Mean indicate the water level forecast generated from the median discharge used in the boundary.

The flood-forecasting model of FFWC, Bangladesh Water Development Board (BWDB) is acting as a background model for Long Range FFS Model and necessary customization has been brought out in FFWC model for this 10-day flood forecasting activities.

## **Disclaimer:**

The flow forecasting system for this model (Hydrological) has been newly developed. Though the model has been calibrated, validated and evaluated, it is still under development. So, the product should be used with extreme care.

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