

# JULY- SEPTEMBER 2012

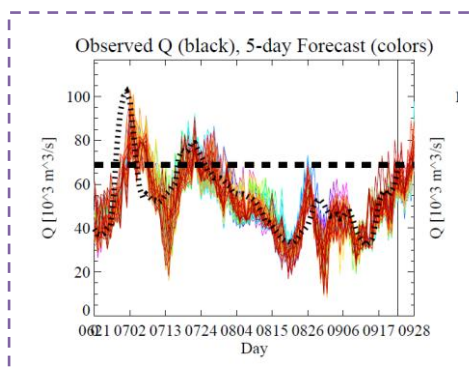
## PROGRAM UPDATE

### ENHANCE EARLY WARNING SYSTEM FOR COMMUNITY BASED RESPONSE IN BANGLADESH

#### A. EXPAND 1-10 DAY FLOOD FORECASTS

##### Operationalize 1-10 days Flood Forecasts for 2012 July-Sep 2012

The operational flood forecasts for the three river basins ( Ganges, Brahmaputra and Megna) is continuing for the monsoon season. FFWC is sending forecasts information through web, SMS and e-mail to partner and pilot communities. The model is providing skillful forecast for 1-10 days. The model will be operational till the end of the monsoon period.



Medium Range (10-day) Water Level Experimental Forecasts on the Major Rivers of Bangladesh:

Summary of 10 day experimental forecast:

During next 10 days:

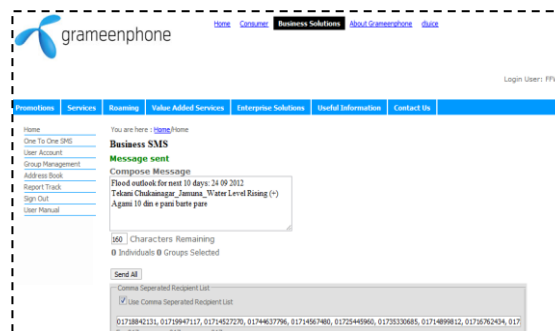
- All the rivers of Bangladesh may follow rising trend

Forecast made on: 28-08-2012

River	Station	Forecast										type		
		28-08	29-08	30-08	31-08	01-09	02-09	03-09	04-09	05-09	06-09			
Ganges	Newajpur	11.38	12.47											
		12.74	12.66	12.53	12.35	12.17	11.92	11.74	11.71	11.93	11.64	Lower Range		
Ganges	Azisha	9.40	9.18	8.42	8.52	8.54	8.59	8.22	8.23	8.20	8.22	8.27	Upper Range	
		8.59	8.67	8.65	8.59	8.50	8.43	8.33	8.20	8.24	8.23	Lower Range		
Tongi Thal	Tongi	6.08	5.20	5.17	5.26	5.24	5.16	5.16	5.16	5.16	5.16	5.16	Upper Range	
		5.20	5.21	5.25	5.24	5.21	5.20	5.16	5.14	5.12	5.12	5.18	Lower Range	
		5.27	5.26	5.25	5.25	5.24	5.23	5.22	5.22	5.22	5.22	Mean		

##### Dissemination 1-10 days Flood Forecasts for 2012 July-September 2012

A MoU is signed between Grameen Phone Bangladesh and FFWC to disseminate the current long lead flood forecast product to the stakeholders at the projected area. FFWC is sending forecasts product to all Union Information Centers at pilot locations and important stakeholders through SMS.



## Site profiling and field data collection

July-September 2012

In this quarter, RIMES has completed 11 pilot sites amongst 15 sites with close collaboration of CARE and FFWC based on biophysical and socioeconomic criteria. An EWS audit was done for assessing the capacity and needs assessment for the community. Meeting was also conducted in all visited Union Disaster Management Committee (UDMC), Sub Assistant Agriculture Officer and local elites for familiarization with local demographic condition, define early warning dissemination process, different sectoral application of forecasts products and installation of local water level gauges and maintenance. Moreover, a reconnaissance was conducted for assessing the socio-economic data collection. The rest of the sites will be completed next quarter.

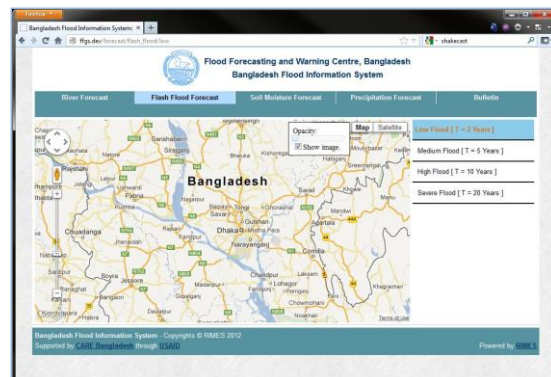


## B. PILOTING FLASH FLOOD FORECASTING AND APPLICATION

### Web Interface for Flash Flood Forecast Guidance

July- Sep 2012

A web interface has been in development process for the flash flood and other riverine flood so that user can easily access the information from FFWC websites. The flash flood guidance is based on ECMWF data as well as QPE and QPF from BMD's radar information. Right the generation of QPE and QPF is continuing through a research.

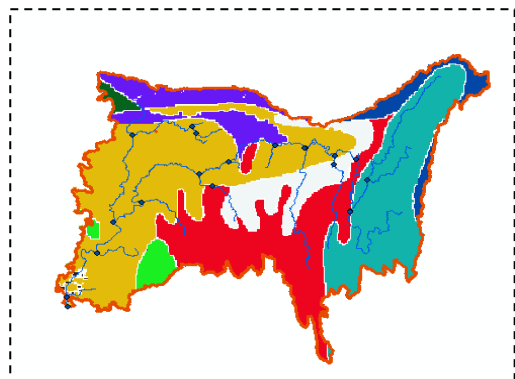


## C. OPERATIONALIZE 20-25 DAY AND SEASONAL FORECASTS

### Seasonal Forecasts

April-June 2012

RIMES is developing flash flood model using Arc SWAT based on ECMWF rainfall forecasts, other Numerical Weather Prediction System, hydrological model data as well as historical rainfall pattern. This interactive tool will be handover to FFWC at the end of the project.



## C. OTHERS

### **Progress Update Meeting with USAID**

*September 9, 2012*

RIMES has provided a project updates for the flood early warning under "SHOUHARDO-II" and cyclone forecasts under "Nobo Jiban" project to USAID. The USAID has express their contentment on the progress of both the projects.

### **Training manual for enhancing early warning to community level**

*September 2012*

A draft training manual is prepared for enhancing early warning to community level. Bangladesh flood pattern; different early warning systems and its use; community level flood forecasting and preparedness are included in this manual. This manual will be translated into Bengali. RIMES will provide training to relevant stakeholders on the manual.

## D. TRAVEL

RIMES staff has been traveled to Bangladesh to visits sites as well as progress meeting with USAID.

## E. UPCOMING ACTIVITIES: October-December 2012

1. Operational flood forecasting for 1-10 days and 20-25 days
2. Site profiling and field data collection
3. Web system development for flash flood warning dissemination system
4. Training on probabilistic flood forecasting
5. Expand forecasts location to 38 stations from 19 stations

## F. SPECIAL NOTES- FINANCE

Image purchase: we didn't procure any images in last and this quarter as field assessment need to complete first. Thus we request to move the item in January to March 2013.