



Operational Flood Forecasting for Bangladesh:

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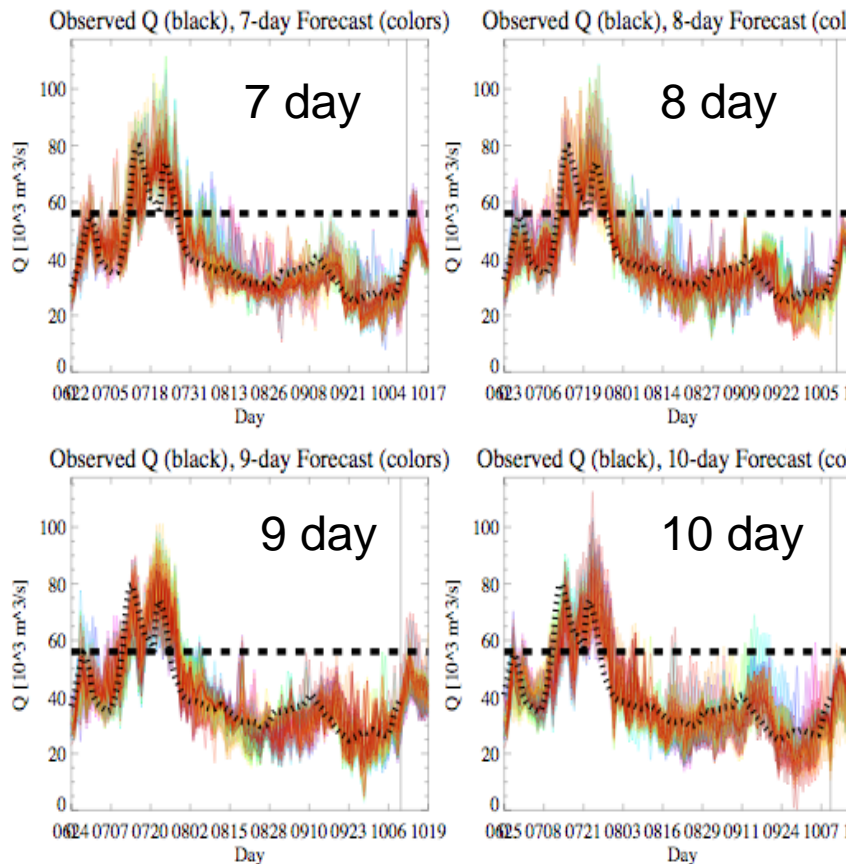
**Climate Forecast Applications for Bangladesh
(CFAB):**

NCAR/USAID-OFDA/GT/ADPC/ECMWF

2004 Discharge Forecast Results

Brahmaputra Discharge Ensemble

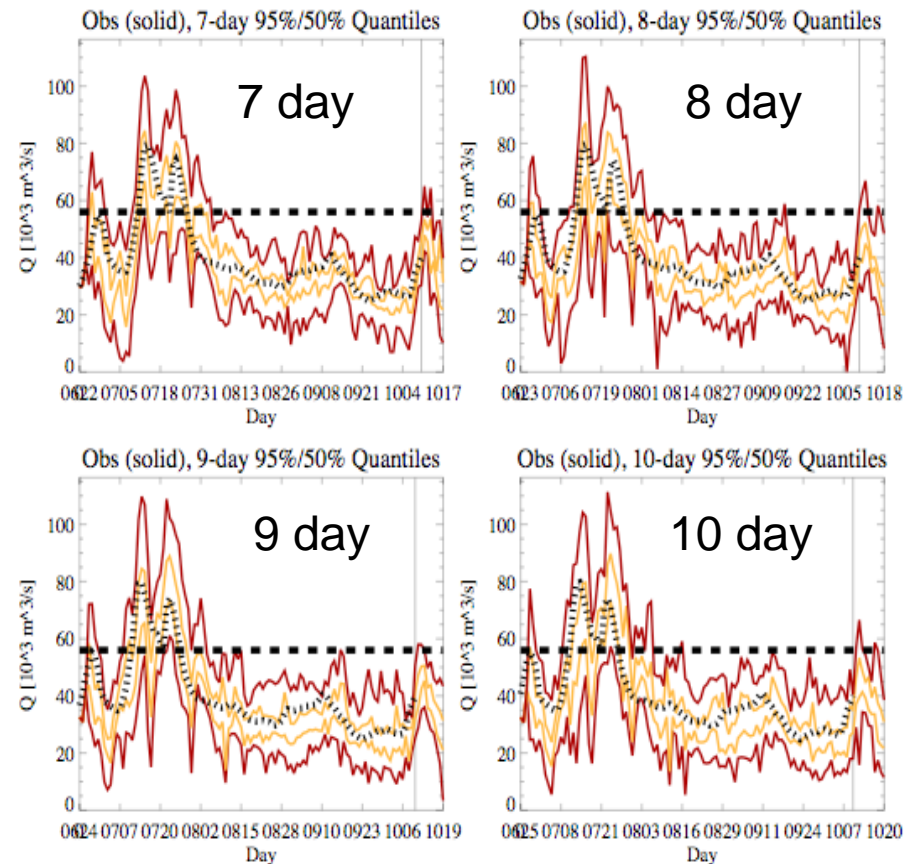
Observed Q black dot
Ensemble Members in color



Confidence Intervals

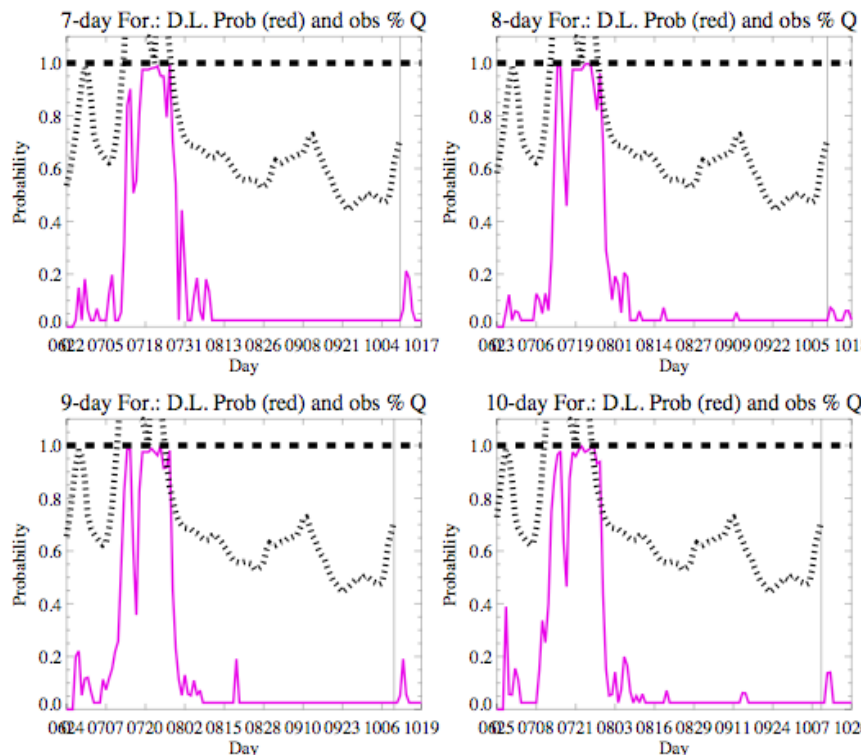
Critical Q black dash

50% 95%

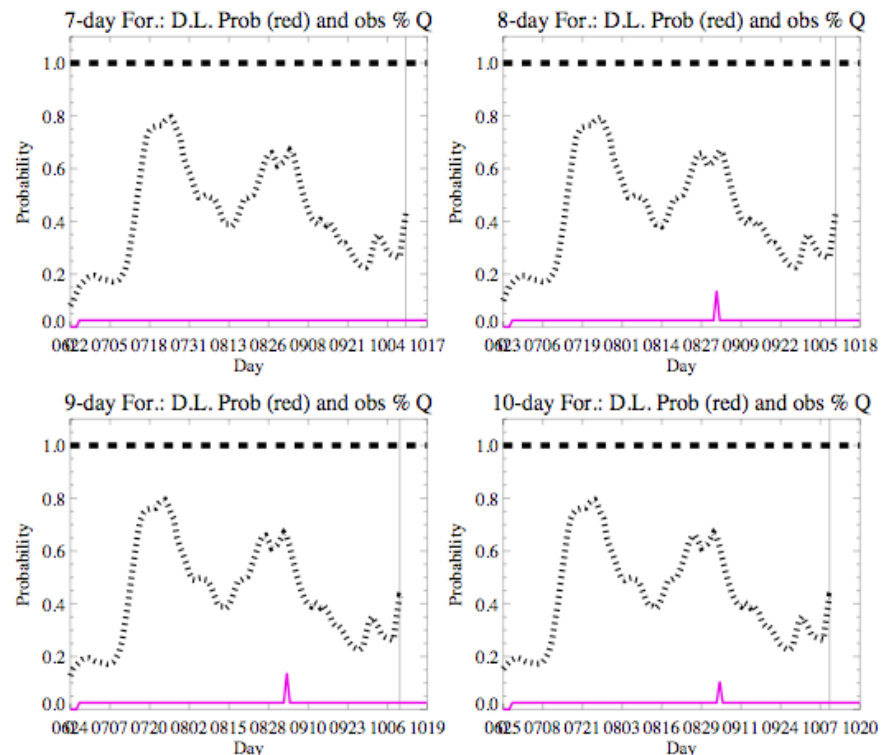


2004 Danger Level Probabilities

rahmaputra 7-10 day Forecasts



Ganges 7-10 day Forecasts

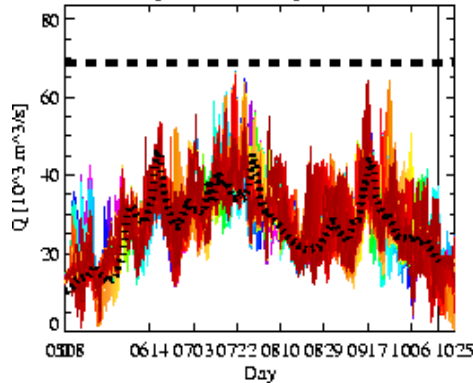


2006 Ensemble Forecasts

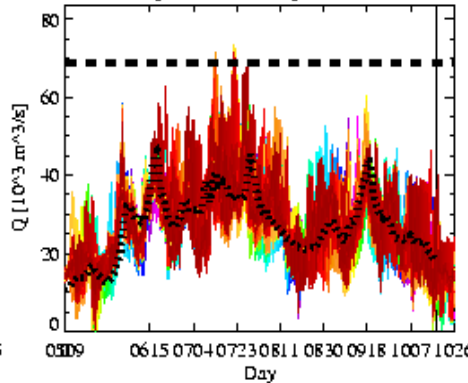
rahmaputra 7-10 day Forecasts

Ganges 7-10 day Forecasts

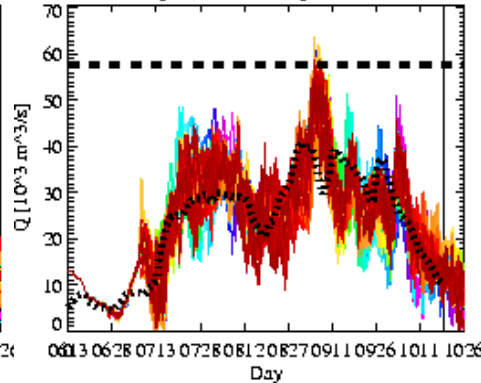
Observed Q (black), 7-day Forecast (colors)



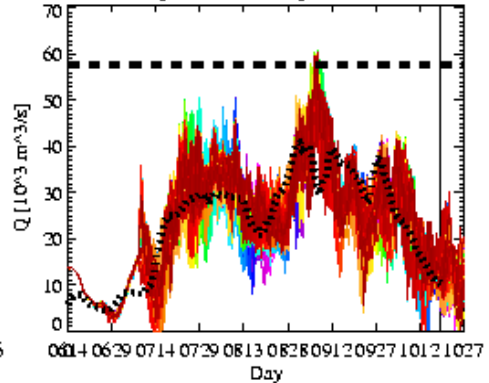
Observed Q (black), 8-day Forecast (colors)



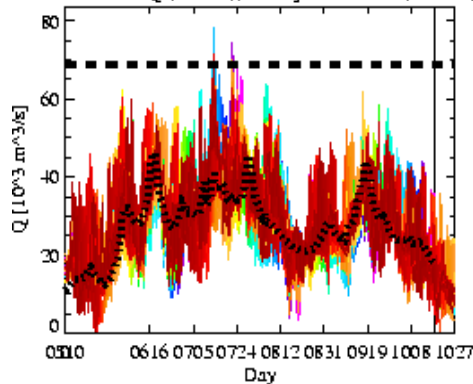
Observed Q (black), 7-day Forecast (colors)



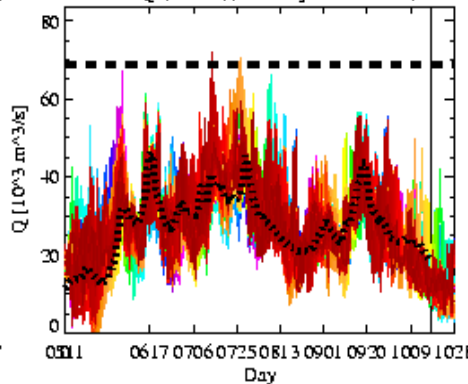
Observed Q (black), 8-day Forecast (colors)



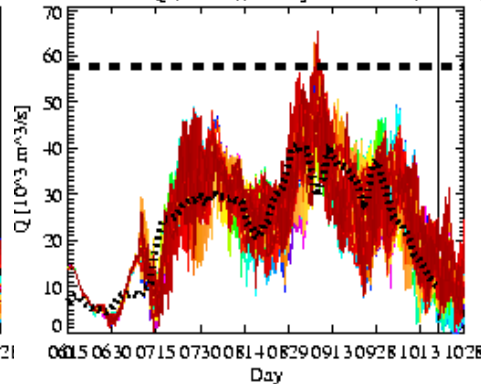
Observed Q (black), 9-day Forecast (colors)



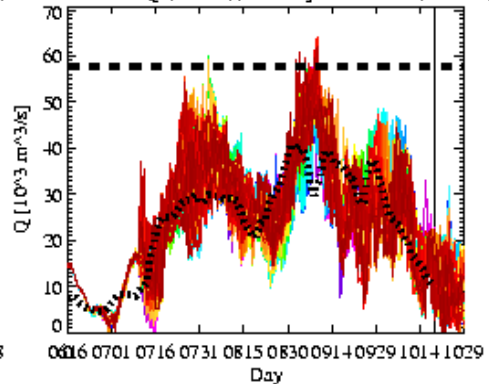
Observed Q (black), 10-day Forecast (color)



Observed Q (black), 9-day Forecast (colors)

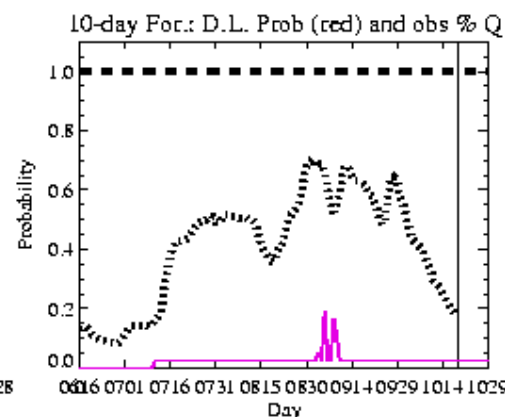
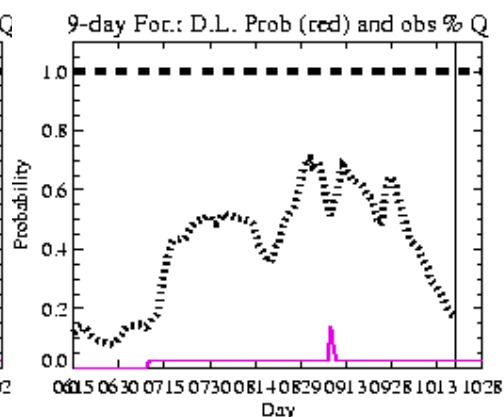
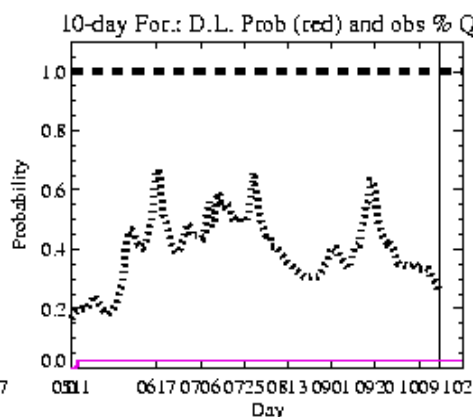
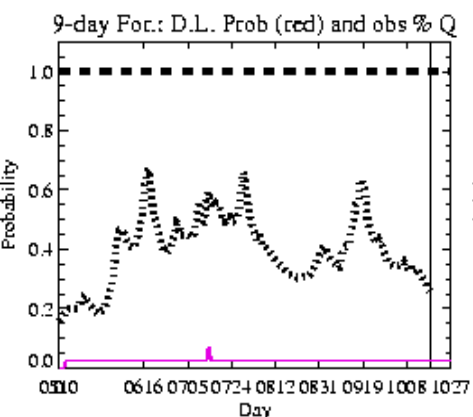
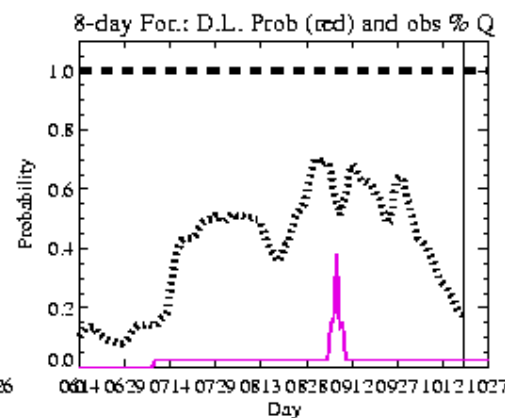
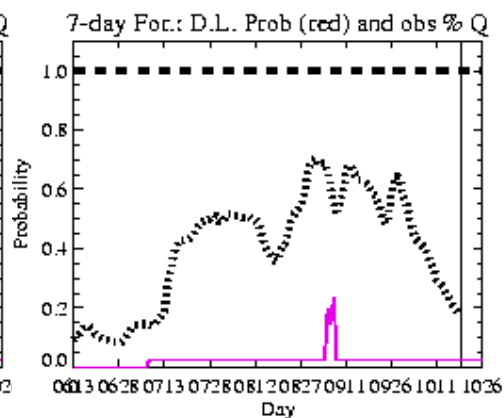
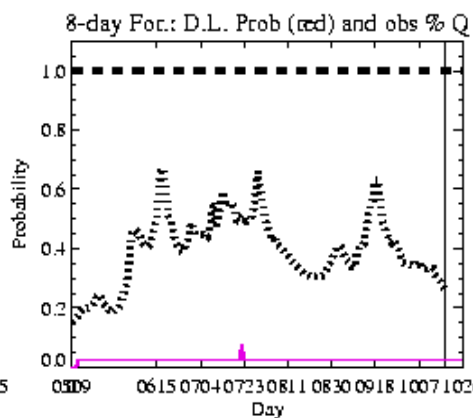
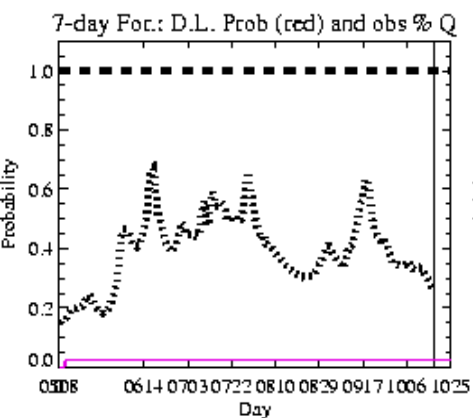


Observed Q (black), 10-day Forecast (colors)



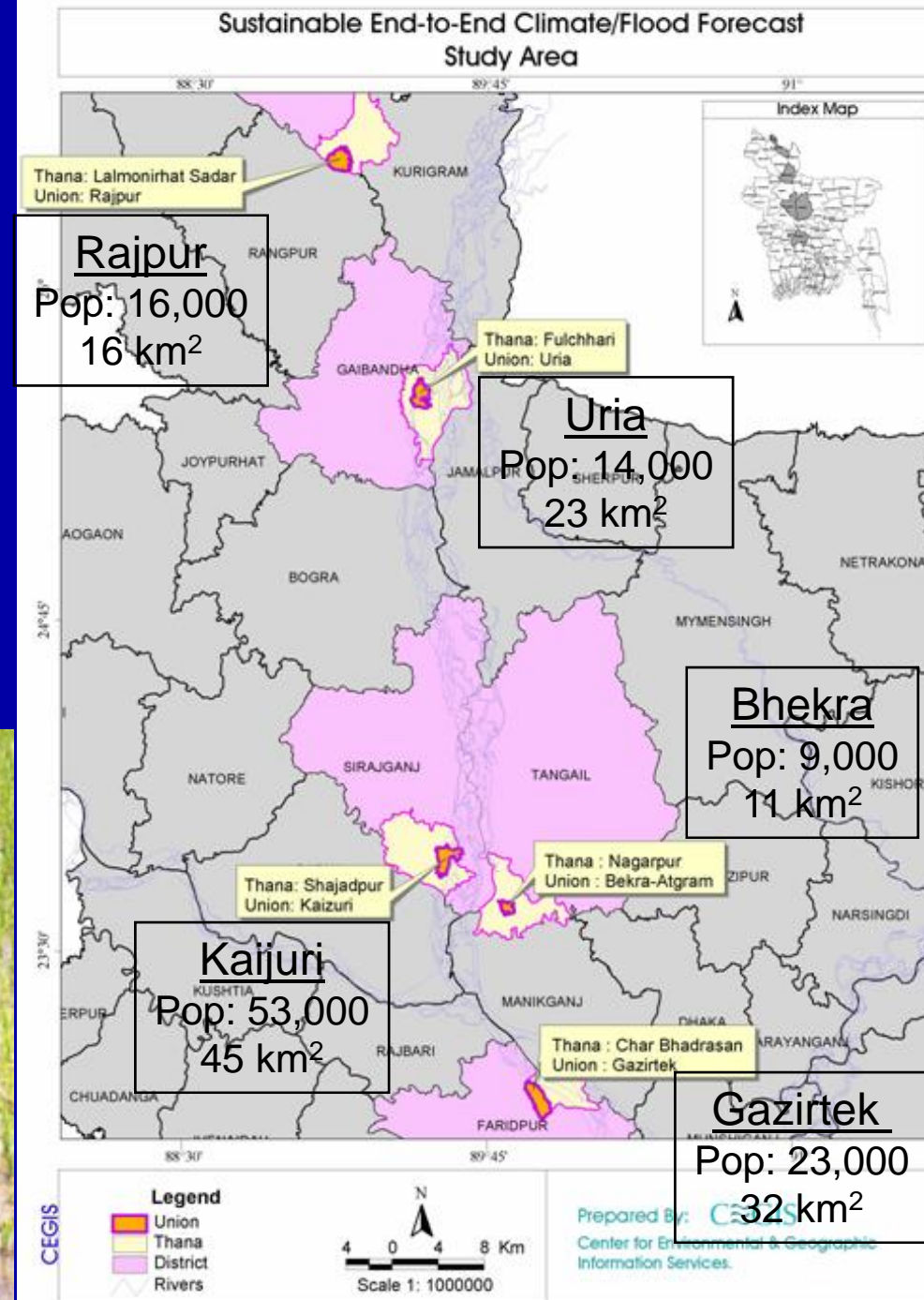
2006 Danger Level Probabilities

rahmaputra 7-10 day Forecasts



Ganges 7-10 day Forecasts

Five Pilot Sites chosen in 2006 consultation workshops based on biophysical, social criteria:



Conclusions

- 2003: Daily operational probabilistic discharge forecasts “experimentally” disseminated
- 2004:
 - Multi-model approach operational
 - Forecasts fully-automated
 - CFAB became an institutionalized entity of the Bangladesh federal government
- 2006:
 - USAID-OFDA/CARE 4-year funding commitment
 - Forecasts incorporated into Bangladesh flood warning program
- 2007: 5 pilot studies implemented for 1-10day forecasts along the Brahmaputra



Thank You!