

Chennai Floods 2015 - Rapid Assessment

Supplementary Material

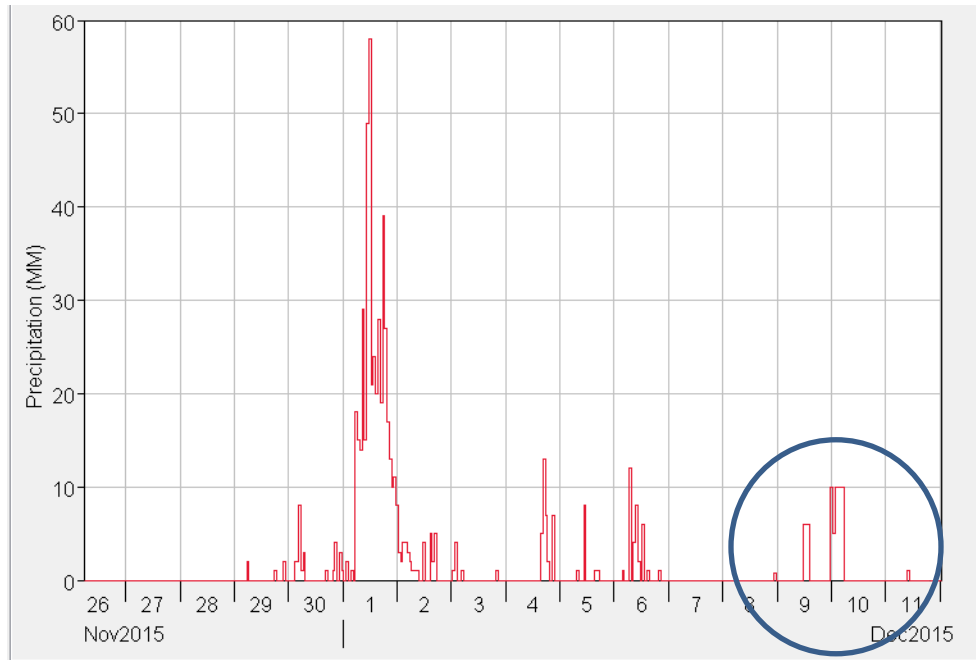


Figure 1: Rainfall Hyetograph and an approximate prediction of rainfall based on oral information from Dr.Ramanan (Chennai IMD).

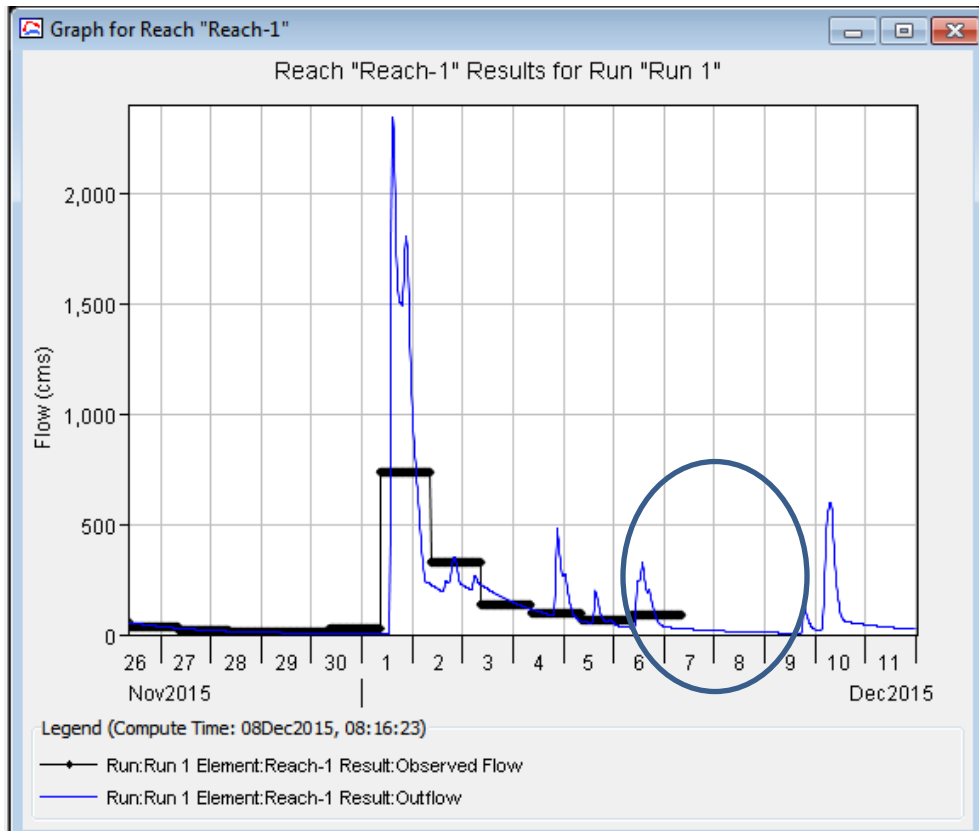


Figure 2: Observed Vs Simulated inflow into Chembarambakkam upto 7th Dec and forecast till 11th Dec

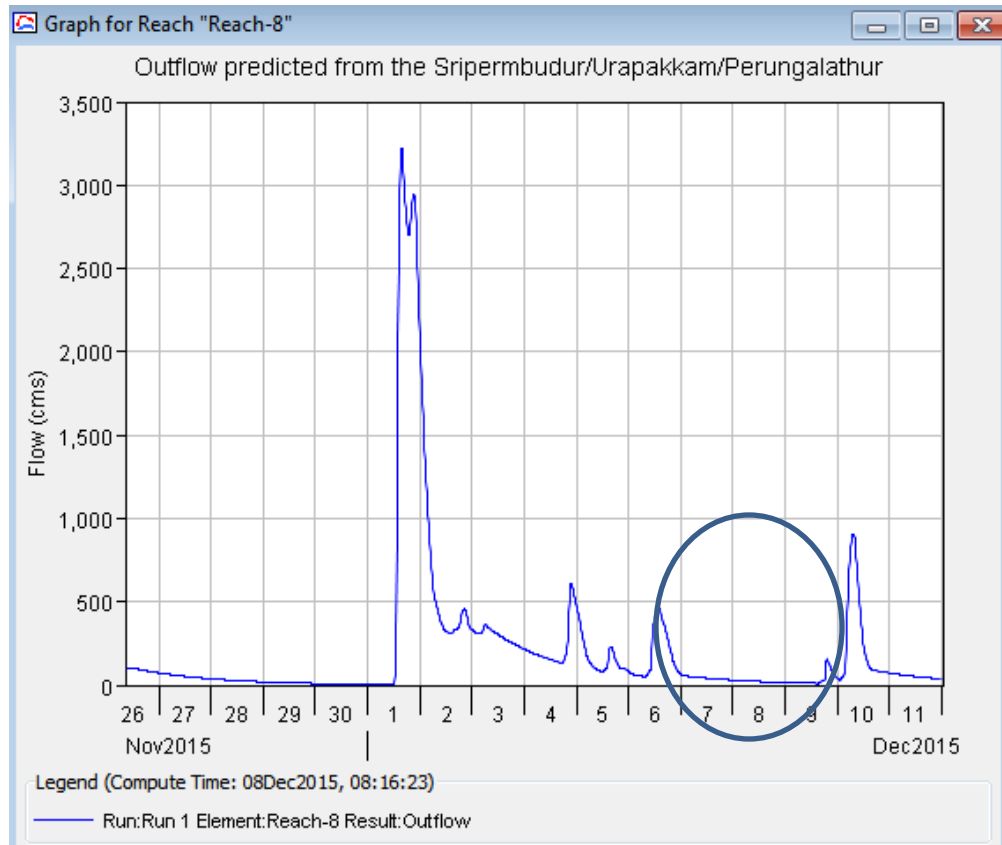


Figure 3: Outflow predicted/forecasted from the Sriperumbudur/Urapakkam/Perungalathur area upto the confluence D/S of Chembarambakkam

Summary:

Based on the assessment made with best available inputs up till now, we can say that the event on 9th and 10th will be relatively small with a maximum of 5.38 cm during a 24 hour period on Dec.10.

In case if this event happens, the inflow into the Chembarambakkam could be about 500 m³/s (17,657 cusec) for a short time. The average 24 hour inflow could be about 160 m³/s (5,650 cusec) on Dec.10.

In the Sriperumbudur/Urapakkam/Perungalathur tributary up to the confluence D/S of Chembarambakkam, the flow could be about 800 m³/s (28,251 cusec) for a short time. The average 24 hour inflow could be about 271 m³/s (9,570 cusec) on Dec.10.

Acknowledgement:

I would like to acknowledge the timely input given by Dr. Ramanan, IMD, Chennai regarding precipitation forecast, and Dr.Amudha, IMD, Chennai for providing the hourly data for Chembarambakkam for past two weeks.

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