Της Γλοβαλ Εαρτη Οβσερωατιον Σψστεμ οφ Σψστεμσ (ΓΕΟΣΣ)
Σψμποσιυμ ον Ιντεγρατεδ Οβσερωατιον φορ Συσταιναβλε Δεωελοπμεντ ιν της Ασια–Παχιφιχ

Country Report

Myanmar

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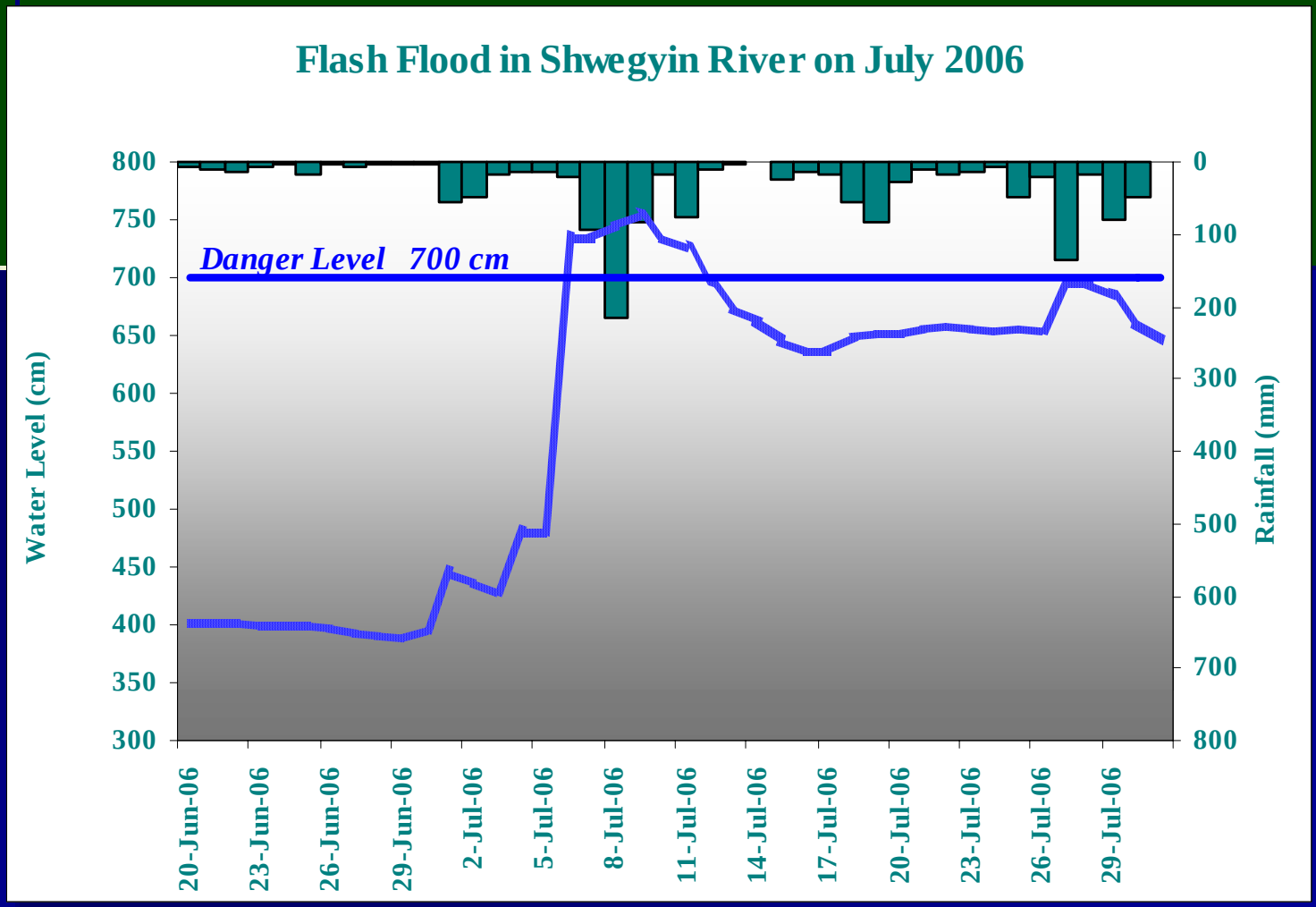
River Basin Description

- Location : 17º 30’ to 18º 30’ (North latitude)
  96º 45’ to 97º 10’ (East Longitude)
- Catchment outlet: 17º 48’ (N. Lat) , 96º 48’(E. Long)
- Catchment Area : 1747 km^2
- MOLTS Point 1 : 17º 52’, 96º 52’
- MOLTS Pt. 1 el^{n} : 12 m (above mean sea level)

Available Data at Shwegyin Basin

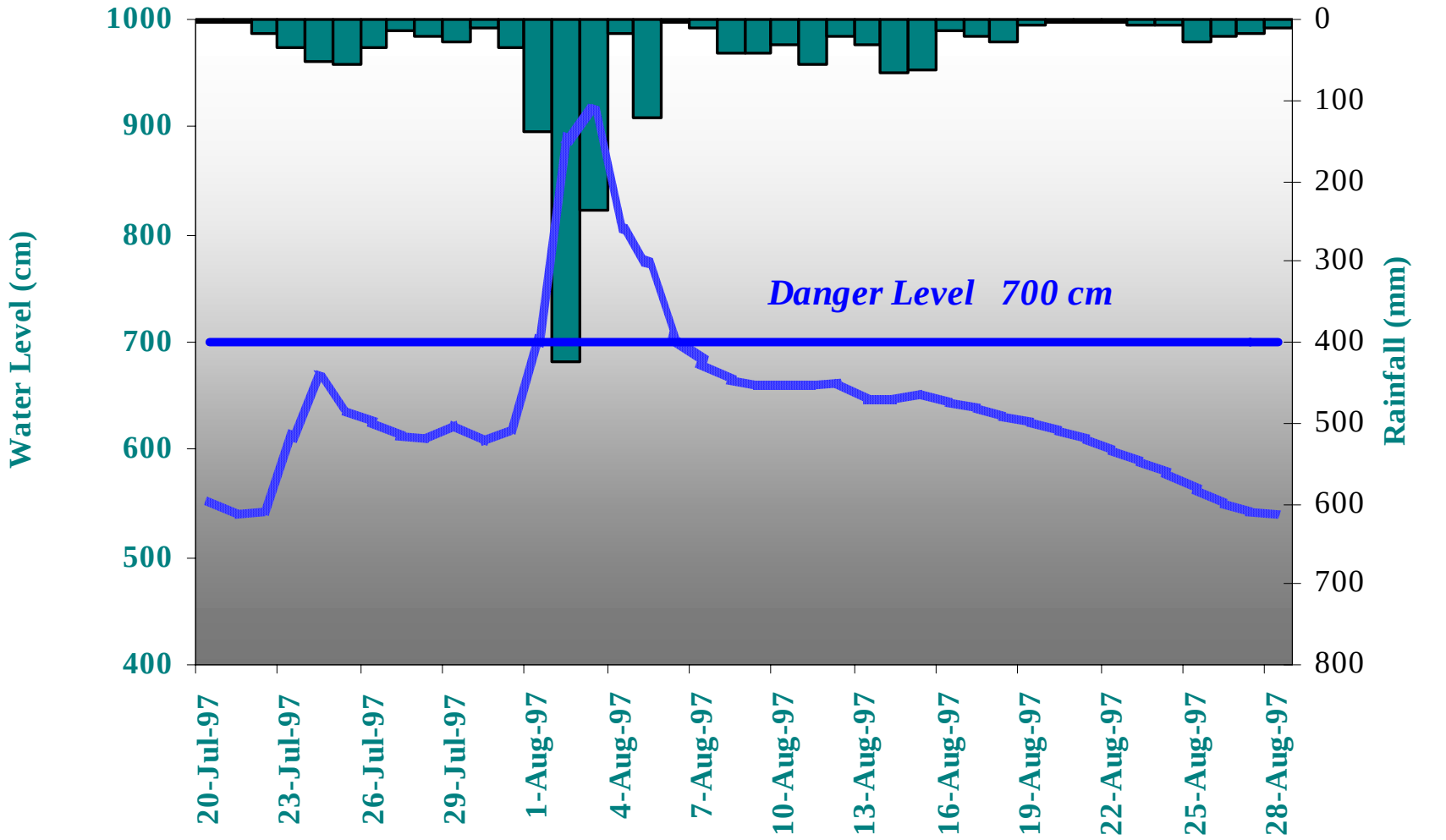
- Rainfall
- water level
- water temperature
- discharge
- sediment discharge
- evaporation
- wind direction
- wind speed
- humidity

Since 1967



Water Level Change within 12 hours : 239 cm

Flash Flood in Shwegyin River on Aug 1997



Water Level Change within 24 hours : 174 cm

Flash Flood Forecasting

- Hydrology plays a large role in flash flood problem
- A given amount of rainfall in a given time may or may not result in a flash flood due to such factor antecedent precipitation, soil permeability, terrain gradients , etc
- Flash floods are result of high precipitation rates persisting for a relatively long time (order of few hours)

Needs related to water resources management

- To install two telemetering stations and one receiving station in Shwegyin river basin, in order to get early warning system
- To develop forecasting technique for flash flood

Requirements: _

- **Advance technology for satellite rainfall estimation**
- **Advance technology transfer for flash flood forecasting**
  - **Real time data for flood forecasting and warning**

Needs related to water resources management

- To display the hydrological behavior of watersheds after estimation the geomorphologic parameters from digital elevation model (DEM)

  Requirment: _

  - **High spatial resolution of satellite remote sensing data/ satellite images**

- To develop accurate flood inundation maps based on flows the hydrologic model using all available data including GIS data sources

THANKS FOR YOUR ATTENTION