

Extreme flood event: Case study of Johor flood of December 2006 and January 2007, Malaysia

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Abstract. The State of Johor is located in the southern region of Peninsular Malaysia. In December 2006 and January 2007, Johor had had 2 strikes of unusual flood with more than 100 years return period. The first wave had occurred for 13 days from 19 – 31 December 2006 and the second wave strikes back for another week from 12 – 17 January 2007. The maximum 24-hr rainfall recorded in was 279mm. It gave the state a devastating flood impact with the highest level recorded reached 2.75m pass the danger level. The level was the highest recorded since 1950. The entire town was flooded and the government had to declare emergency curfew. This presentation will discuss the extreme event and Intensity Duration Frequency (IDF) curve based on all available data. It will also discuss on the security management and emergency response for the unexpected flood disaster.