

2007 ICMCS-VI Abstract Submission Form – DUE SEP. 10, 2007!!

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Select Topic (Double Click to Check Box)	<input type="checkbox"/> Mesoscale convective systems associated with Asian monsoon systems	
	<input type="checkbox"/> Tropical cyclogenesis and track prediction	
	<input type="checkbox"/> Landfalling typhoons and heavy rains	
	<input checked="" type="checkbox"/> Mesoscale processes related to heavy rains, especially terrain-influenced precipitation systems	
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	<input type="checkbox"/> Quantitative precipitation estimation and forecasting	
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Abstract Title	Towards a flood forecast system for the Indochina Peninsula -- a coupling system between MM5 and TRIP	

Abstract Body	<p>Many regions of the world have been suffering from flood disaster for centuries because of their geographical location and topographical feature. A hydro-meteorological early warning system can help to minimize flood damages. Such early warning system consists of several components: data acquisition in semi-real time, water balance estimation using a land surface model, and flood risk evaluation by comparing the estimates of river discharge and soil moisture against historical values.</p> <p>In this paper, we introduce the hydro-meteorological early warning system that we have been developing for the Indochina Peninsula. The system consists of the mesoscale model MM5 that is coupled to the NOAA land surface model for runoff generation; the Total Runoff Integrating Pathways (TRIP) model is then used for flow routing to obtain hydrographs at selected basin points. A new variable streamflow velocity approach for routing water in the river channels is developed for TRIP. This new method shows advantages in simulating the floods comparing to the previous constant velocity approach of TRIP.</p> <p>The system is run four times per day on a parallel system of 8 CPUs. Some preliminary forecast results are online available at: http://hydro.iis.u-tokyo.ac.jp/LIVE/</p>
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Presentation Selection	Oral <input checked="" type="checkbox"/> Poster <input type="checkbox"/>
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