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**FOR IMMEDIATE RELEASE**

American Geophysical Union Western Pacific Geophysics Meeting 2004  
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*Note: A press briefing will be held on this subject at 1:00 pm on Monday, August 16<sup>th</sup> in the Honolulu Convention Center Press Room, room 325B.*

### **Earth science on the Earth Simulator: Analyzing ocean and atmospheric currents**

Honolulu – Computer simulations are used to make predictions for both short time periods (e.g., routine daily weather forecasts), and for longer time periods (e.g., forecasts of global warming in response to expected increases in atmospheric greenhouse gases). In 2002, the world's most powerful supercomputer, the Earth Simulator, began operation in Yokohama, Japan. This press conference will present some exciting early results from the Earth Simulator, including simulations of very intense typhoons and simulation of the structure of the Baiu front over East Asia and Japan. In the ocean, the Earth Simulator has produced the first really adequate simulation of flow through the narrow straits between the islands of Indonesia, a feature which is important for understanding and predicting climate effects in a broad region of Asia and the Western Pacific.

#### **For more information, contact**

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**More information about the Earth Science Simulator can be found at <http://www.es.jamstec.go.jp>**

#### **Related presentations:**

##### **Earth Science on the Earth Simulator II**

U22A-03 11:30h Tuesday, HCC 316A

Depth Variability of Indonesian Throughflow Inflow and Outflow Transport From OfES

\*J T Poterma, Y Masumoto, H Sasaki

##### **Earth Science on the Earth Simulator IV**

U24A-03 16:00h Tuesday, HCC 316A

Gravity Waves in Explicit Fine Resolution Global Models

\*K Hamilton, W Ohfuchi