## **Regionally detail climate modelling** applied to adaptation studies - by H. Kondo (Japan) Super-high resolution (20 km) global atmospheric modelling **IPCC** <br /> <b Fourth Assessment Report (2007) Synthesis Rep. Earth Woking Group III Simulator (Mitigation) Sound ADDR. NJ-7912 Vorking Group II **Scientific** (IAV\*) **Basis for** Some of major outcomes Adaptation Working Group Measures

Projection of increased strength of Typhoons & Hurricanes (new finding)

Projection of regionally detail extreme events (heat waves, droughts, etc.) under sufficient regional geographic effects

Projection of temporally detail behaviour such as diurnal precipitation change

**Adaptation** 

**Studies** 

(\* IAV = Impact, Adaptation and Vulnerability)

(Physical Science Basis)

## **Cooperation activities of the MRI group**

(by **Earth Simulator** computed model outputs for adaptation studies)

## **Cooperation under the World Bank funds**

- Adaptation study in Coastal Zones of Caribbean countries: Barbados(one researcher, 2005) Belize (one researcher, 2005)
- Adaptation studies in Colombian coastal areas, high mountain ecosystems: Colombia (two, 2005)
- Adaptation to Climate Impacts in the Coastal Wetlands of the Gulf of Mexico: Mexico (two, 2006)
- Adaptation to Rapid Glacier Retreat in the Tropical Andes: Peru (one, 2006), Ecuador (one, 2006), Bolivia (one, 2006)

Cooperation under the JICA (Japan International Cooperation Agency) funds

- Adaptation studies in agriculture in Argentina: Argentina (two being confirmed, 2008)
- > Adaptation studies in monsoon Asia: being planned