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## Data distribution system for global warming projection under Kakushin Program

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The Kakushin Program is performing model calculations in prospect of finishing most of the experiments in the CMIP5 protocol within FY2010 (ending this March). Preliminary analysis on the model results so far shows some interesting implications regarding, among others, predictability of Pacific Decadal Oscillation (PDO), the impact of future land use change on global carbon cycle, future changes in Quasi-Biennial Oscillation (QBO) due to global warming, and ocean acidification in the Arctic Ocean. On the other hand, collaborations are underway with scientists from information technology and impact assessment fields, so that the simulation data can be utilized in even more meaningful ways than before. In particular, collaboration with Data Information and Analysis System (DIAS) and activities of Task Group on Climate Scenario are noteworthy. It is expected that one can freely download Kakushin's simulation data early in FY2011 from the DIAS server, acting also as a gateway of the Earth System Grid, the official data distribution system of CMIP5.

Keywords: global warming, earth system grid, impact assessment, numerical simulation, DIAS