

Geophysical Research Abstracts,
Vol. 10, EGU2008-A-08142, 2008
SRef-ID: 1607-7962/gra/EGU2008-A-08142
EGU General Assembly 2008
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Long-term change of rainfall-runoff response and catchment water budget

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Relations of the rainfall and the river flow quantity concerning a rainfall-runoff event for 40 years from 1962 to 2002 were shown as a change tendency for a long term. The cause of river flow change was connected with the change of evapotranspiration by the temperature rise as well as the precipitation. As a result of rainfall-runoff response analysis was shown the decrease tendency of the river flow quantity at the time of a small rainfall event after 1980s by using MLIT(Ministry of Land, Infrastructure and Transport) observational data. Additionally, a result of evapotranspiration estimation was shown approximately 5 percent increase the amount of evapotranspiration for 40 years.