ICWRER Special Session Proposal

2022 International Conference on Water Resources and Environment Research (ICWRER)

**Special Session Title**

***Climate change impact assessments and adaptations on water resources and water-related disasters (II)***

**Session Organizer**

**Chair**

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**Session Description**

Climate change impact assessments and adaptations on water resources and water-related disasters are urgent issue because of historically understandable extreme hazards are gradually liable to occur and bring quite serious disasters in the world such as brushes with, and direct hits from, severe tropical cyclones and frequent occurrence of strong winds, floods, inundations, storm surges, extreme ocean waves, landslides and severe droughts.

The special session named “Climate change impact assessments and adaptations on water resources and water-related disasters” was organized by us and held in previous ICWRER 2019 in Nanjing. The proposal was successfully done based on the activity under the program “Integrated Research Program for Advancing Climate Models (TOUGOU)” which also includes no-regret adaptations as important research topic. And this program will terminate by end of March 2022. The proposed session in ICWRER 2022 aims to summarize the outcomes from TOUGOU program and discuss the future research direction for the next climate change related program with wider community in the world. Therefore, discussions and suggestions from any countries over the world are welcome to this session for the impact assessments and adaptations on severe rainstorms, floods, inundations, storm surges, extreme ocean waves, landslides and severe droughts and so on.

**Presentations/speakers**

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| Speaker | Affiliation | Presentation Title |
| Toshio Fujimi | Disaster Prevention Research Institute, Kyoto University, Japanfujimi.toshio.7x@kyoto-u.ac.jp | No-regret adaptation strategies with consideration for various changes |
| Toshikazu Kitano | Department of Civil Engineering, Nagoya Institute of Technology, Japankitano@nitech.ac.jp | Development of bias correction methods and extreme values assessment technology |
| Satoshi Watanabe | Disaster Prevention Research Institute, Kyoto University, JapanWatanabe.satoshi.6t@kyoto-u.ac.jp | Consideration of climate scenario development methods in the era of large-scale ensemble experiments |
| Yukari Osakada | Disaster Prevention Research Institute, Kyoto University, Japanosakada.yukari.7f@kyoto-u.ac.jp | Future phenomenal changes of localized line-shaped rainband with Baiu front using pseudo global warming experiment |
| Machi Harada | Graduate School of Engineering, Kyoto University, Japanharada.machi.74c@st.kyoto-u.ac.jp | Time-seamless future projections of extreme rainfall associated with Baiu front using 150-year continuous climate model simulation |