



Final report of UHH-KU fund for ECR program

Section 1

Applicant (at the time of application, i.e. supervisor of the visiting researcher or the visiting researcher themselves)	
Name	Takahiro Sayama
Job title	Professor
University	Kyoto University
Affiliation	Innovative Disaster Prevention Technology and Policy Research, Disaster Prevention Research Institute, Kyoto University

Section 2

Visiting researcher (if different from the above)	
Name	Eilif Kurnia Deda Djamres
Job title	Doctoral Student
University	Kyoto University
Affiliation	Innovative Disaster Prevention Technology and Policy Research, Disaster Prevention Research Institute, Kyoto University

Section 3

Host researcher	
Name	Jürgen Böhner
Job title	Professor
University	University of Hamburg
Affiliation	Institute of Geography, CEN

Section 4

Summary of the project (approx. 200 words)
<p>The Disaster Prevention Research Institute at Kyoto University (DPRI-KU) successfully to assess the flood extend due to land use change in Batanghari River Basin, Indonesia by using Rainfall-Runoff-Inundation (RRI) model. On the other hand, the University of Hamburg had rich experience in downscaling global climate models to finer resolutions, for climate change analysis in Jhelum River Basin. Collaboration between DPRI-KU and UHH allows for downscaling the global climate model forecast and climate projections in the Batanghari River Basin and simulation of flash flooding in the Jhelum River Basin by using the RRI model. This mutual exchange of expertise enhances the capabilities of both research groups. This initiative aims to enhance socio-economic stability for all stakeholders in flood-prone monsoon margin regions, including Jhelum River Basin and the Batanghari River Basin. In the ongoing call, a researcher from Kyoto University has visited the University of Hamburg, followed by a visit from a UHH researcher to DPRI. The Kyoto University researcher's visit is crucial for concluding the ongoing scientific inquiry and formulating plans to secure external funding during the UHH researcher's visit to DPRI in 2024. The initiative sets the framework for a sustained and long-term research collaboration.</p>