

Global Hydrological Prediction Center

[Water cycle prediction from global to municipality scales]

Kei YOSHIMURA (Director), Dai YAMAZAKI (Deputy Director), Taikan OKI, Daisuke KITAZAWA, Wataru TAKEUCHI, Yoshihide SEKIMOTO, Takashi KIYOTA, Toshihiro NEMOTO, Muneyoshi NUMADA, Kazuo OKI, Masashi KIGUCHI, Hyungjun KIM, Takao YOSHIKANE, Eiji IKOMA, Tomoko NITTA, Kenshi HIBINO

<https://ghpc.iis.u-tokyo.ac.jp/>

One of the global challenges that humanity is currently facing is the issue related to water. Water is closely related to not only floods and droughts, but also climate change, food, energy, and environmental issues, and is also extremely important from the perspective of geopolitics and security. The Global Hydrological Prediction Center (GHPC) will establish a strong and systematic team in Komaba, Hongo, and Kashiwa to promote cutting-edge research on observation, process elucidation, modeling, and prediction of hydrological phenomena from river basins in municipal to the global scales, and to contribute to society using the research achievements.

plus
 Assis.Prof. 1
 Res.Assoc. 5
 PD fellows 9

Members in Global Hydrological Prediction Center



Prof K. Yoshimura
(Hydrometeorology)



A.Prof. D. Yamazaki
(Hydrogeography)



Prof. W. Takeuchi
(Remote Sensing)



Prof. D. Kitazawa
(Marine Engineering)



Prof. Y. Sekimoto
(GIS)



Prof. K. Oki
(Ecological Monitoring)



Prof. E. Ikoma
(Data Engineering)



Prof. T. Kiyota
(Geodisaster Mitigation)



A.Prof. M. Numada
(Disaster Prevention)



A.Prof. T. Nemoto
(Data Engineering)



A.Prof. H. Kim
(RS&Hydrology)



A.Prof. T. Yoshikane
(Meteorology&AI)



Prof. T. Oki
(Sociohydrology)



Prof. M. Kiguchi
(Hydroclimatology)

Origin: Asian Monsoon Study Observation, Modeling, and Prediction

Prof. Katsumi Musiaka
 1977~IIS Assoc. Prof.
 1985~2003 IIS Professor

UNESCO-IHP IV Tropical Humid Region 1995-2001
 World Climate Research Program / Global Energy and Water Cycle Experiment (WCRP GEWEX) Asian Monsoon Experiment (GAME) 2001-2005
 Hydrological Modeling and water Resources System 2005-2008
 Japan GIS Promotion Program (JEPP) 2009-2014
 Science and Technology Research Partnership for Sustainable Development 2016-2020

Future Direction of GHPC

HydroSOS seeks to improve water information

In order to realize flood prediction with better accuracy and longer lead time, we seamlessly downscale from the global scale to the municipality scale to predict the flooding from large rivers to municipal-sized rivers in the world.

Comparison with Insurance Cases

Developed Underway TE-Peru TE-SouthAfrica TE-Japan TE-Indochina TE-Indonesia