Yoshimura Laboratory

[Climate System and Water Cycle]

Institute of Industrial Science

Department of Human and Social Systems / Large-scale experiment and advanced-analysis platform

Eng/Department of Civil Engineering
Front/Department of Natural Environmental Studies

Isotope Meteorology

http://isotope.iis.u-tokyo.ac.jp/

Y-Lab contribute to the society by understanding of climate and water cycle.

We study the earth from viewpoints of climate, water, and isotopes to make a contribution to understanding of climate system and prevention of water-related disasters.

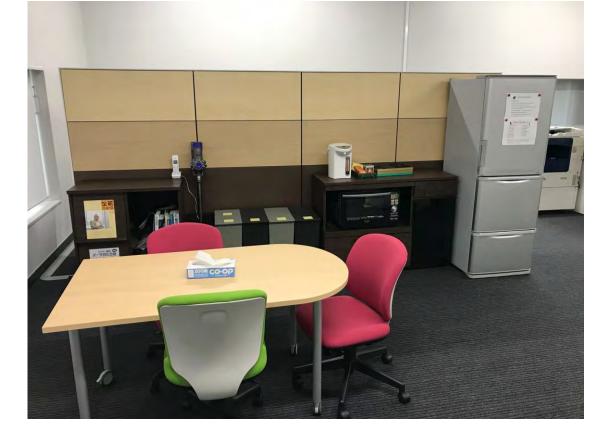
Where we are

Y-Lab is located in the LEAP of Institute of Industrial Science in Kashiwa campus.



Office

There are some opportunities which Y-lab members can gather and discuss intensively.



Reception Space

Lab members often take a rest and chat with others here.



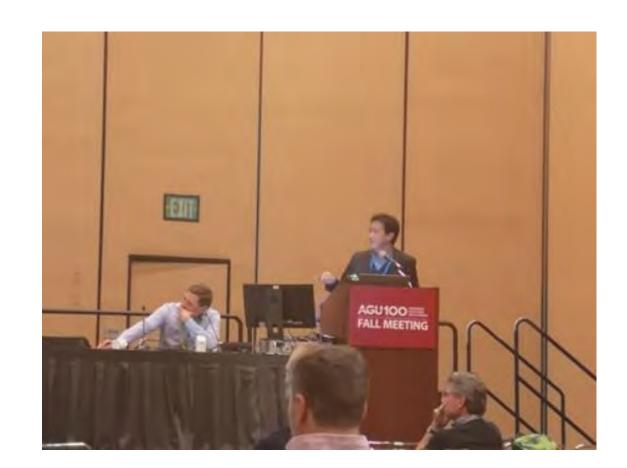
Open Campus

Visualization of water cycle with spherical display helps visitors understand research topics.



Isotope Experiment Room

Y-lab is fully equipped with experimental instruments including mass and laser spectrometers.



Academic Conferences

Y-Lab members actively make presentations at academic conferences and share our results.

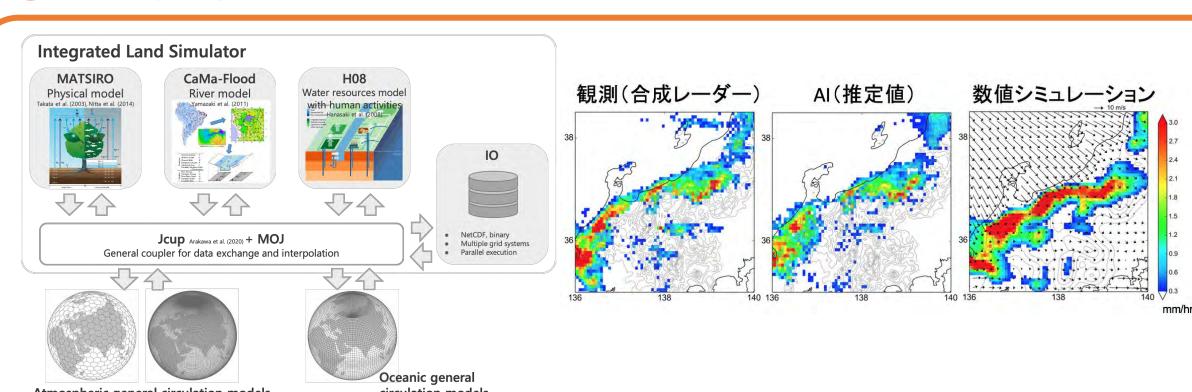


International Members

Members from various countries have lively discussions on their research topics.

What we do

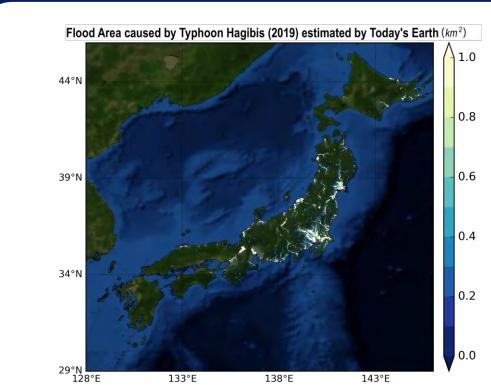
Climate



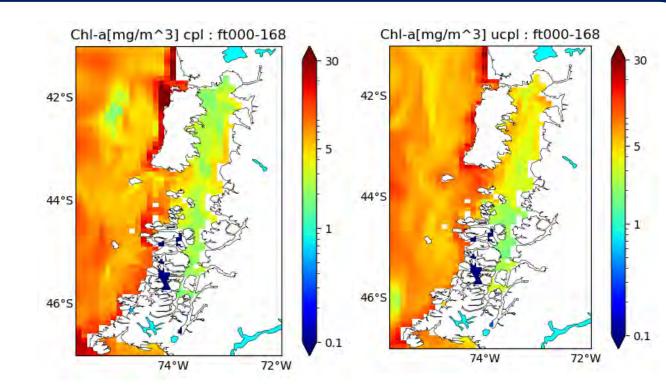
Integrated Land Simulator(ILS) Estimation of local precipitation based is under development on numerical simulation with Al

Provision of useful information for climate change through understanding climate system using model development and its application

Water Cycle



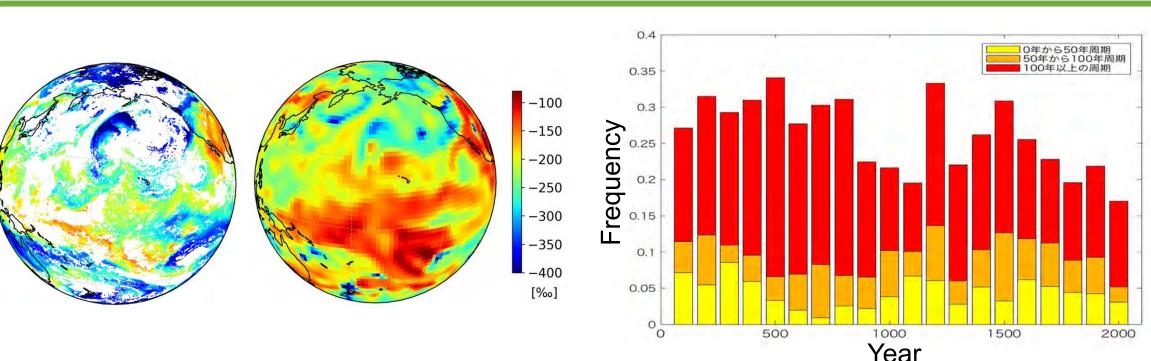
Real-time numerical flood prediction by "Today's Earth" system



Calculating phytoplankton reproduction using atmosphere-ocean coupled model

Contribution to world water resource management and disaster mitigation through representation and prediction of water cycle based on model development and its application

Isotope



Model simulation of isotopic ratios in water vapor

Reconstructed global climatic frequency using proxy isotope

Development of methods for climate reconstruction and improvement of model accuracy with isotope and seeking better understanding of climate system

