Data Integration and Analysis System as a platform for Asian Water Cycle Initiative (AWCI)

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- **1. Overview of DIAS**
- **1. AWCI Data Archive System**
- 1. Benefit of the use of DIAS as a platform for AWCI



To archive hydro-meteorological dataset, including data loading, QC and metadata registration

Mongolia

Myanmar .



Nepal









Malaysia



Bhutan

20-year Long-term precipitation data from 18 countries

18 River Basin, 280stations















Tool for in-situ data input and management DIAS



(1) Data Uploading





(2) Quality Controlling









User



1000

(4) Data Downloading



A AWCI2 Visualiza	tion and x									x
← → C ☆ dias-ist.tkl.iis.u-tokyo.ac.jp/AWCI2/download/									Q	≡
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Effect of the System !





1. Overview of DIAS

1. AWCI Data Archive System

1. Benefit of the use of DIAS as a platform for AWCI

DIAS: Structure





35 Applications and tools

< http://www.diasjp.net/en>



Himawari 8 (GMS) Real-time

Visualization Tool



Radar Rain Real-time Visualization Tool



Simulation Model for RIce-Weather relations



3D Visualization Tool



Earth Observation data Analysis Tool



Quality Control Tool 13



CMIP5 Data Analysis System

250

200

E 150

100

50

D.

50

250 200 150 100



This system is comprised of a set of tools that provide the Intercomparison Project Phase 5 (CMIP5), which has widereanalysis data as reference data for comparison with CMI reproducibility of climate models.

HOW TO USE

A common web application account is necessary. Place contact the DIAS Office for details:

CMIP5 (10 models / 66 ensemble members): Open in New Ta



Future: Extreme rainfall

-+ APHRO

-+ APHRO GFDL.CM3.r1i1p1

MIROC5.rti1p1 MIROC5.r2i1p1

MIROC5.r3i1p1 MRI.CGCM3.r1i1p1

Fu



Rank ACCESS1.0 (r2i1p1) ; Scorr=0.788675, RMSE=0.460589 PR [mm/day] surface Jan (1979-2005)

10





Water Cycle Integrator (model)



DIAS Data Integration & Analysis Syste

On-going projects and practices



Water-Climate-Agriculture Workbench in Cambodia



Integration of River-Sewage-Public Health in Hue, Viet Nam



DIAS Official website <http://www.diasjp.net/en>



Research Area

