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GEOSS/AWCI におけるデータアーカイブ
Data archive to the GEOSS/Asian Water Cycle Initiative (AWCI)

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Under the framework of GEOSS, representatives of hydrological and meteorological organizations and science communities in Asia gathered together, and began to discuss about how to address the water-related issues in Asia in cooperative ways by making maximum use of GEOSS. This is the Global Earth Observation System of Systems / Asian Water Cycle Initiative (GEOSS/AWCI).

Observation convergence is essential for making possible advanced research into the water cycle phenomena and for transformation of the scientific findings into the information usable for policy- and decision-makers to develop effective policies and make sound decisions in an Integrated Water Resources Management (IWRM) manner. GEOSS/AWCI approach for converging earth observation satellites, in-situ reference site networks, and operational observation systems, for integration of the observed data, numerical weather prediction model outputs, geographical information, and socio-economic data, and for dissemination of usable information is adopted from and designed in cooperation with the GHP (former Coordinated Energy and Water Cycle Observations Project (CEOP)) of the Global Energy and Water Cycle Experiment (GEWEX), World Climate Research Programme (WCRP).

As originally produced by the various sources, the data is in a wide variety of formats and structures. GEWEX/GHP had developed a prototype data integration, analysis, and dissemination system that has been further elaborated and expanded into the Data Integration & Analysis System (DIAS), which was launched in 2006 as part of the Earth Observation and ocean Exploration System, which is one of five National Key Technologies defined by the 3rd Basic Program for Science and Technology of Japan. DIAS provides cooperative opportunities for constructing GEOSS/AWCI data archives, and developing data integration and analysis functions. A Standardized Metadata Model has been developed in cooperation with the international standardization communities in order to assure full interoperability of the DIAS system.

The basis for the GEOSS/AWCI collaborative framework is the mutual consensus among participating countries and international organizations that defines data sharing and exchanging policy and responsibilities for data processing, management and archiving.

The purpose of this poster is the introduction of the GEOSS/AWCI and its data archiving activity.

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