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Overview

Concept

◆ CEOS Water Portal is:
  ➢ A distributed data system component of DIAS (Data Integrated Analysis System)-Program
  ➢ To provide “Easy to Access” service to users
  ➢ To provide access to a whole variety of hydrological data and water relevant data scattered over the world
  ➢ To connect the existing components like data centers, scientists and wide users.

◆ Multiple types of data are available such as:
  ➢ In-situ data
  ➢ Satellite data
  ➢ Model output data
Services

◆ Dataset Search
  ➢ Category Search/Map Search
  ➢ Connecting to 11 data centers + 2 catalog service

◆ Dataset Access
  ➢ Data Subset (time, variables)
  ➢ Data Download

◆ Sharing Use Case
  ➢ Use Case registration/browsing

Data Partners
<table>
<thead>
<tr>
<th>Data Partners</th>
<th>Data Types</th>
<th>Variables</th>
<th>Server Locations</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEOP</td>
<td>Satellite</td>
<td>PR, TMI, AMSR, AMSR-E, MODIS, GLI, SSMI, VISSR</td>
<td>University of Tokyo (Japan)</td>
</tr>
<tr>
<td></td>
<td>Model (MOLTS)</td>
<td>surface pressure, skin temperature, precipitation amount in hour, brightness temperature surface, specific humidity, u-component of wind, v-component of wind, etc</td>
<td>MPI (Germany)</td>
</tr>
<tr>
<td></td>
<td>Model (Gridded)</td>
<td>Air pressure, surface air pressure, air temperature, precipitation rate, snowfall amount, etc</td>
<td>MPI (Germany)</td>
</tr>
<tr>
<td></td>
<td>In-situ</td>
<td>Surface Meteorological and Radiation Data Set</td>
<td>NCAR (USA)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Flux Data Set</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Soil Temperature and Soil Moisture Data Set</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Meteorological Tower Data Set</td>
<td></td>
</tr>
<tr>
<td>AWCI</td>
<td>Model (MOLTS)</td>
<td>surface pressure, skin temperature, precipitation amount in hour, brightness temperature surface, specific humidity, u-component of wind, v-component of wind, etc</td>
<td>MPI (Germany)</td>
</tr>
<tr>
<td></td>
<td>In-situ</td>
<td>Precipitation amount, River discharge, River water level, etc</td>
<td>University of Tokyo (Japan)</td>
</tr>
<tr>
<td>NASA</td>
<td>Satellite</td>
<td>Airs level 3 data</td>
<td>NASA (GSFC)</td>
</tr>
<tr>
<td>NOAA (GPCC)</td>
<td>In-situ</td>
<td>Precipitation data</td>
<td>NOAA (USA)</td>
</tr>
<tr>
<td>NASA</td>
<td>Satellite</td>
<td>GRACE Level 3 data</td>
<td>NASA/JPL (PO.DACC)</td>
</tr>
<tr>
<td>FLUXNET</td>
<td>In-situ</td>
<td>FLUX data</td>
<td>NASA (ORNL DAAC)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fluxes of carbon dioxide, water vapor, and energy exchange, etc</td>
<td></td>
</tr>
<tr>
<td>GEMS/Water</td>
<td>In-situ</td>
<td>Instantaneous Discharge, Dissolved Oxygen, Temperature, etc</td>
<td>GEMS/Water (CANADA)</td>
</tr>
<tr>
<td>Organization</td>
<td>Type</td>
<td>Data Types</td>
<td>Provider</td>
</tr>
<tr>
<td>---------------</td>
<td>-----------------------</td>
<td>------------------------------------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>GLOWASIS</td>
<td>Satellite Model (Gridded)</td>
<td>Precipitation, Air temperature</td>
<td>Deltares (Netherlands)</td>
</tr>
<tr>
<td>NASA CMR</td>
<td>In-situ Satellite Model</td>
<td>Various types of data via ECHO broker</td>
<td>NASA (GSFC)</td>
</tr>
<tr>
<td>CUAHSI</td>
<td>In-situ</td>
<td>precipitation, humidity, discharge, oxygen, etc</td>
<td>CUAHSI (USA)</td>
</tr>
<tr>
<td>GEO DAB</td>
<td>In-situ</td>
<td>River Discharge via GEO DAB</td>
<td>GEO</td>
</tr>
<tr>
<td>NOAA/NCEI</td>
<td>In-situ Satellite</td>
<td>Air temperature, Precipitation, Air Pressure</td>
<td>NOAA/NCEI</td>
</tr>
</tbody>
</table>
Account Management

You can freely use the search function. However, you should register your account on DIAS account service if you want to download the data via the CEOS water portal.

DIAS account service at:
http://dias-dss.tkl.iis.u-tokyo.ac.jp/account/public/guest/

You should fill out the account form and send it.

You need an authentication when you download any data via CEOS water portal. You should enter your username and password into above form.
Dataset Discovery

http://waterportal.diasjp.net/

CEOS Water portal provides two features of dataset search. One is the category search, and the other is the Map Search.
Category Search

User can choose the search criteria according to ECV category or GCMD keyword. Or use can enter the any keyword.
Spatial Search (Option)

User can enter the rectangle boundary on the map as a spatial search condition.

(a) Click the map button
(b) Click the map to set a rectangle boundary
Temporal Search (Option)

Date and Time ranges can be entered to refine your search. Dates can be entered into the text field manually in yyyy/mm/dd format or by selecting from the calendar provided.
After all search conditions are entered, click the search button to start the category search.
View Data set information

The data set search results are displayed on the Dataset tag.

(a) User can confirm the explanation of selected data by clicking the "detail".
(b) Granule search will be started by clicking the "Search".
AWCI In-situ Pampanga Matulid 20040101-20051231

Summary
San Jose, Matulid Pampanga is densely populated. It has an elevation of 16 m above sea level. It is an earthquake zone with occurrences of earthquakes at >7 Richter. There is a low occurrence of periods with extreme drought. Flood risk is extremely high. There is a extremely high chance of cyclones hitting the area. Source: http://www.chinod.com/travel/parser/20090810/San+Jose+%28%29+Ph%29?ref=Philippines&i=2 (Accessed 2011).

For the datasets on this station, the stations Iba and #324 was included for the meteorological parameters.

Keywords
Hydrography
CEOS Water Portal / CEOS Water Portal
Earth Science
Precipitation / Precipitation Amount
Surface Water / Floods
Precipitation
In-situ data
ISO Topic Category
Inland Waters

Geographic Extent

Temporal Extent
Start Date: 2004-01-01 End date: 2005-12-31

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Detail data info
Granule Discovery
Granule Search results are displayed.
If you want to get the data, click the [GET DATA] and save the file in your computer.

It will be link to the download site at the data center.
User can do a subset and download the data.
Map Search

All data points are displayed on the map. User can figure out the data type (Satellite data and In-situ data, Model output Data) by seeing the legend at the right side of window.
Data points are not displayed by unchecking the checkbox at the legend.
User will find out the detail location by Zooming in.
If user find the preferable location, click the point on the map.
Dataset search will be started.
View Data set information
The data set search results are displayed on the Dataset tag.

(a) User can confirm the explanation of selected data by clicking the “detail”.

(b) Granule search will be started by clicking the “Search”.

[Diagram of dataset search results with highlighted “Detail data info” and “Click” annotations]
In the granule search, temporal condition window will be displayed for reducing the search results.
Enter the time range and click the “Search” button.
Granule Discovery

Granule Search results are displayed.

If you want to get the data, click the [GET DATA] and save the file in your computer.
CEOS water portal connects to the GEOSS Data Access Broker (GEO-DAB) system. GEO-DAB provides the River Discharge data. It is a long time observation in-situ data. User can easily refine the temporal search by graphical method. Select the "Terrestrial" -> "River Discharge". Then, click the “Search” button, dataset search will be started.
Dataset search results are displayed at the last paragraph, “GEO-DAB”. Click the “Timeline view” button.
User can find out the existing dataset during the overall observation time range.

Move the time range bar
User clicks any element of bar graph, contents of dataset list is displayed at the search result table and child window.

Next process of dataset search is same way of another dataset.
View/Shared your use case
CEOS water portal provides a communication tool between scientists and decision makers. Scientists can register their research results in this site. And decision makers can see it.

View use cases
Click the “Use Cases” tab at the right top side.
Each titles of all use case are displayed. It was registered by scientists. Click the "detail", you can see the detail information of research content.
For example, user can see the detail information of research content as below.
Shared your use case

If you want to register about your research, click the “Share my user case”.

![CEOS Water Portal](image-url)
Fill out the registration form and click "Post" button.
After passing the check process, your content is registered.