A series of land surface state (e.g., soil moisture and surface temperature) and flux (e.g., evaporation and sensible heat flux) products simulated by land surface models (CLM, Mosaic, Noah, SAC and VIC) from the North America and Global Global Land Data Assimilation System (NLDAS and GLDAS) are now accessible at the Hydrology Data and Information Services Center (HDISC), a component of NASA Goddard Earth Sciences Data and Information Services Center (GES DISC).

Access HDISC Data
- Anonymous http and ftp data downloading
- GDR - Direct evaporation from bare soil
- Plant canopy surface water
- Ground heat flux
- SW radiation flux downwards (surface)
- Net longwave radiation
- Snowmelt
- Canopy conductance
- unitless
- Transpiration
- NLDAS and GLDAS systems integrate data from multiple space

Online Visualization and Analysis (Giovanni)
Giovanni is a simple and intuitive way to visualize, analyze, and access Earth science remote sensing data online.

Hydrology Data and Information Services Center (HDISC)
The Hydrology DISC currently supports the North America and Global Land Data Assimilation System (NLDAS and GLDAS) data products generated by GSFC’s Hydrological Sciences Branch. HDISC has the capability to support more hydrology data products and provide more advanced data access and visualization tools. The goal is to develop HDISC as a data and services portal that supports weather and climate forecast, and water and energy cycle research.

North America (NLDAS) and Global Land Data Assimilation System (GLDAS)
NLDAS and GLDAS systems integrate data from multiple space-based Earth observing systems using advanced land surface modeling and assimilation techniques. These products support weather and climate forecast experiments, water resources applications, and water and energy cycle research.

<table>
<thead>
<tr>
<th>NLDAS</th>
<th>GLDAS</th>
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</thead>
<tbody>
<tr>
<td>Content</td>
<td>Water and energy budget data, forcing data</td>
</tr>
<tr>
<td>Spatial extent</td>
<td>Continental US, parts of southern Canada and northern Mexico</td>
</tr>
<tr>
<td>Spatial resolution</td>
<td>1/8 degree</td>
</tr>
<tr>
<td>Time period</td>
<td>Jan 1, 1979 to present for NLDAS-2 Oct 1, 1996 to Dec 31, 2007 for NLDAS-1</td>
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<tr>
<td>Temporal resolution</td>
<td>Hourly and monthly</td>
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<tr>
<td>Forcing</td>
<td>Multiple data sets derived from satellite measurements, radar estimation, precipitation measurements, and atmospheric analyses</td>
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<tr>
<td>Land surface models</td>
<td>Mosaic, Noah, SAC and VIC</td>
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<tr>
<td>Elevation definition</td>
<td>GTOP2 30</td>
</tr>
<tr>
<td>Vegetation definition</td>
<td>University of Maryland, 1 km</td>
</tr>
</tbody>
</table>

Access to NLDAS and GLDAS data products is provided through the Hydrology DISC website, which offers a variety of services including anonymous http and ftp data downloading, Giovanni visualization and analysis, and GDS data server.

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