Access ORNL DAAC OGC WMS Service in Virtual Globe Tools

**Overview:**
Access ORNL DAAC Open Geospatial Consortium (OGC) Web Map Service (WMS) service using popular virtual globe tools such as Google Earth, NASA World Wind, and ESRI ArcGIS Explorer.

ORNL DAAC:
http://daac.ornl.gov
uso@daac.ornl.gov
Access ORNL DAAC OGC WMS service using:

- **Google Earth**
  - [http://earth.google.com](http://earth.google.com)

- **NASA World Wind (Open Source)**
  - [http://worldwind.arc.nasa.gov/java/](http://worldwind.arc.nasa.gov/java/)

- **ESRI ArcGIS Explorer (formerly ArcExplorer)**
Access ORNL DAAC WMS in Google Earth: Step 1/4

Zoom in on an area you'd like to see a WMS overlay, then add an image overlay …
Access ORNL DAAC WMS in Google Earth: Step 2/4

The “Google Earth – Web Mapping Service Parameters” window should pop up. Add the ORNL DAAC WMS server ([http://webmap.ornl.gov/ogcbroker/wms](http://webmap.ornl.gov/ogcbroker/wms)) and all the available layers will show on the left panel. Select the WMS layers you want to see and add them to the right panel. Then Click “OK”.

![Google Earth - Web Mapping Service Parameters](image)
Access ORNL DAAC WMS in Google Earth: Step 3/4

The added layer(s) will automatically show up in Google Earth. You can modify the WMS overlay properties in the “Google Earth – New Image Overlay” window.
Access ORNL DAAC WMS in Google Earth: Step 4/4

The added layer(s) will show up in Google Earth’s “Places” list. You can Pan, Zoom in, or Zoom out in Google Earth as you usually do, the WMS overlay map will be refreshed automatically.
Access ORNL DAAC WMS in NASA World Wind: Step 1/3

Modify <WORLD_WIND_INSTALLATION_DIRECTORY>\Config\Earth\Tools\wms_server_list.xml to update WMS server list in NASA World Wind Installation directory.
Access ORNL DAAC WMS in NASA World Wind: Step 2/3

Use “WMS Browser” tool to view available WMS layers and select layers to display in World Wind.

1. Click "WMS Browser"

2. "Web Mapping Server Browser" window will pop up. Available layers in the WMS servers will be listed.

3. Select a layer

4. Select a time step if a layer contains a time series.
Access ORNL DAAC WMS in NASA World Wind: Step 3/3

You may choose to display selected WMS layer as still image or time series animation (only available for layers with multiple time steps)
Access ORNL DAAC WMS in ESRI ArcGIS Explorer: Step 1/3

Bring up the “Add GIS Service” window:
Access ORNL DAAC WMS in ESRI ArcGIS Explorer: Step 2/3

Add ORNL DAAC WMS service (http://webmap.ornl.gov/ogcbroker/wms?) into ArcGIS Explorer following the steps below:

1. Select server type “WMS”, version 1.1.1, and type URL or ORNL DAAC
2. Click “Next”
3. Available WMS layers will be listed here
The selected WMS layer will be listed and displayed in ArcGIS Explorer.