NetCDF OPeNDAP Service Extension

ScienceBase can harvest NetCDF data using the OPeNDAP protocol directly from a qualified URL within this extension. NetCDF (network Common Data Form) is a set of interfaces for array-oriented data access and a freely distributed collection of data access libraries for C, Fortran, C++, Java, and other languages. The netCDF libraries support a machine-independent format for representing scientific data. Together, the interfaces, libraries, and format support the creation, access, and sharing of scientific data. OPeNDAP (Open-Source Project for a Network Data Access Protocol) can be read into; for example a THREDDS server to provide positive and readable data output.

Properties

Property	Type	Description	Example
className	String	discriminator used by the system to identity the extension type	"gov.sciencebase.catalog.item.facet.NetCDFOPeNDAPFacet"
url	String	A valid URL that links to a file of the OPeNDAP protocol.	"http://cida.usgs.gov/thredds/dodsC/prism"
title	String	A note about the citation.	"A title embedded in the NetCDF file"
summary	String	A string containing the summary information explaining the NetCDF file.	"The body of the NetCDF file"
boundingBox	Map<String, Double>	Values of the MinX, MinY, MaxX, MaxY variety	minY: 24,minX: -125,maxY: 53,maxX: -67
variables	List<OPeNDAPVariable>	String name, String units, String long_name	long_name: "latitude", name: "lat", units: "degrees_north"
files	List<ItemFile>	A list of the NetCDF files	usually null

Example


```
{
    summary: "NOTE: This version of PRISM, accessed in January of 2012, is no longer available from the official archive. This archived version is being made available for the sake of repeatability of previous modelling runs. This dataset was created using the PRISM (Parameter-elevation Regressions on Independent Slopes Model) climate mapping system, developed by Dr. Christopher Daly, PRISM Climate Group director. PRISM is a unique knowledge-based system that uses point measurements of precipitation, temperature, and other climatic factors to produce continuous, digital grid estimates of monthly, yearly, and event-based climatic parameters. Continuously updated, this unique analytical tool incorporates point data, a digital elevation model, and expert knowledge of complex climatic extremes, including rain shadows, coastal effects, and temperature inversions. PRISM data sets are recognized world-wide as the highest-quality spatial climate data sets currently available. PRISM is the USDA's official climatological data. ",
    boundingBox:
        {
            minY: 24,
        minX: -125,
        maxY: 53,
    maxX: -67
        },
    variables: [
        {
            long_name: null,
            name: "lon",
            units: "degrees_east"
        },
        {
    long_name: null,
        name: "lat",
```

```
            units: "degrees_north"

            }

        ],

        files: [ ],

        title: "Parameter-elevation Regressions on Independent Slopes Model Monthly Climate Data for the Continental United States. January 2012 Shapshot",

        url: "http://cida.usgs.gov/thredds/dodsC/prism",

        className: "gov.sciencebase.catalog.item.facet.NetCDFOPeNDAPFacet"

}
```