



NASA's Global Change Master Directory:

Discover and Access Earth Science Data Sets, Related Data Services, and Climate Diagnostics

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(Abstract # IN33D-1488) NASA's Global Change Master Directory provides the scientific community with the ability to discover, access, and use Earth science data, data-related services, and climate diagnostics worldwide. The GCMD offers descriptions of Earth science data sets using the Directory Interchange Format (DIF) metadata standard; Earth science related data services are described using the Service Entry Resource Format (SERF); and climate visualizations are described using the Climate Diagnostic (CD) standard. The DIF, SERF and CD standards each capture data attributes used to determine whether a data set, service, or climate visualization is relevant to a user's needs. Metadata fields include: title, summary, science keywords, service keywords, data center, data set citation, personnel, instrument, platform, quality, related URL, temporal and spatial coverage, data resolution and distribution information. In addition, nine valuable sets of controlled vocabularies have been developed to assist users in normalizing the search for data descriptions. An update to the GCMD's search functionality is planned to further capitalize on the controlled vocabularies during database queries. By implementing a dynamic keyword "tree", users will have the ability to search for data sets by combining keywords in new ways. This will allow users to conduct more relevant and efficient database searches to support the free exchange and re-use of Earth science data. <http://gcmd.nasa.gov/>

Discover Data, Services and Climate Diagnostics

Global Change Master Directory
Discover Earth science data and services

Find Data
Find Services
Find Climate Diagnostics

Web Fire Mapper
Entry ID: 19710
[Get Details] [Update this Record]

Summary
Abstract: The Web Fire Mapper is an internet based mapping tool that delivers locations of active fires in near real time. For selected regions and countries you can view an interactive map showing active fires for a specified time period, combined with your choice of GIS layers and satellite imagery.

Review URL
Link: GET SERVICE - ACCESS MAP VIEWER
Description: Web Fire Mapper Frequently Asked Questions

Link: VISUALIZATION INFORMATION
Description: Web Fire Mapper frequently asked questions have been developed to provide rapid access to MODIS data globally, with Web Mapper on 250m color composite imagery and active fire data.

Service Citation
Originator: NASA/GSFC
Title: Web Fire Mapper
Provider: University Department, University of Maryland
Edition: 1

Legend: ● Required ● Highly Recommended ● Recommended

Direct Links to Data and Services

NASA Scatterometer (NSCAT)-derived sea ice extent images 1996-1997
Entry ID: NSCAT_sgnat_0000
[Get Data] [Update this Record]

Summary
Abstract: This NASA Scatterometer (NSCAT) data set consists of enhanced resolution near backscatter (sigma0) images of the Earth's sea ice regions which have been treated based on the extent of sea ice in the scatterometer images. Images are generated on polar stereographic and Lambert conformal conic grids at a polar resolution of 40 km.

Review URL
Link: GET DATA
Description: Scatterometer Climate Record Pathfinder data FTP site.

Service Citation
Originator: David G. Long
Title: NSCAT-derived sea ice extent images 1996-1997
Provider: Earth Science Data Center for Remote Sensing
Edition: 1

Legend: ● Required ● Highly Recommended ● Recommended

DIF Display

Contribute Data, Services and Climate Diagnostics

Directory Interchange Format (DIF)

Entry ID: 19710
Entry Title: Web Fire Mapper
Science Keywords: Fire, Remote Sensing
ISO Topic Category: Earth Science
Data Center: University of Maryland
Summary: The Web Fire Mapper is an internet based mapping tool that delivers locations of active fires in near real time. For selected regions and countries you can view an interactive map showing active fires for a specified time period, combined with your choice of GIS layers and satellite imagery.

Review URL
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Service Citation
Originator: NASA/GSFC
Title: Web Fire Mapper
Provider: University Department, University of Maryland
Edition: 1

Legend: ● Required ● Highly Recommended ● Recommended

Related URL
URL: [http://www.gcmd.nasa.gov/entry/19710](#)
URL Content Type: HTML
Description: The Web Fire Mapper is an internet based mapping tool that delivers locations of active fires in near real time. For selected regions and countries you can view an interactive map showing active fires for a specified time period, combined with your choice of GIS layers and satellite imagery.

Data Set Citation
Data Set Title: Web Fire Mapper
Data Set Revision: 1.0
Data Set Language: English
Data Set Platform: Web
Data Set Publisher: University of Maryland
Data Set Revision Date: 2003-10-10
Data Set Revision History: 1.0
Data Set Review Date: 2003-10-10
Data Set Review History: 1.0
Data Set Review Status: Final

Services Entry Resources Format (SERF)

Entry ID: 19710
Entry Title: Web Fire Mapper
Science Keywords: Fire, Remote Sensing
Service Keywords: Web Mapping, Remote Sensing
ISO Topic Category: Earth Science
Service Provider: University of Maryland
Summary: The Web Fire Mapper is an internet based mapping tool that delivers locations of active fires in near real time. For selected regions and countries you can view an interactive map showing active fires for a specified time period, combined with your choice of GIS layers and satellite imagery.

Review URL
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Description: Web Fire Mapper Frequently Asked Questions

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Service Citation
Originator: NASA/GSFC
Title: Web Fire Mapper
Provider: University Department, University of Maryland
Edition: 1

Legend: ● Required ● Highly Recommended ● Recommended

Climate Diagnostics Directory

Climate Diagnostics Directory

Full Search

Visualization Information
Visualization URL: [http://gcmd.nasa.gov/entry/19710](#)
Visualization Type: 2-D Visualization - Time Series
3-D Visualization - Trend Surface Analysis
Analysis Type: Statistical Method/Geostatistics - Trend Analysis
Format: MPEG
Viewing Specifications: QuickTime, MS Player
Visualization Duration: 37.0 Seconds
Visualization File Size: 3 Megabytes

Visualization Citation
Visualization Creator: Lori Perkins, Greg Shirah, Cindy Starr and Josefino Cortizo
Visualization Title: Sea Ice Yearly Minimum with Graph Overlay 1979-2010
Visualization Release Date: 2010-11-04
Visualization Release Place: GSFC
Visualization Publisher: SVS

Summary
Related URL
Publications/References
Visualization Description
Visualization Provider
Link to the Full Record

CD Display

Controlled Keywords

Science Keywords
LAND SURFACE > LAND USE/LAND COVER > LAND COVER
LAND SURFACE > TOPOGRAPHY > LANDFORMS
SPECTRAL/ENGINEERING > RADAR > RADAR BACKSCATTER
AGRICULTURE > SOILS > SOIL MOISTURE/WATER CONTENT
BIOSPHERE > VEGETATION
CRYOSPHERE > FROZEN GROUND > PERMAFROST
CRYOSPHERE > GLACIERS/SICE SHEETS > GLACIER MOTION/SICE SHEET MOTION
CRYOSPHERE > GLACIERS/SICE SHEETS > ICE SHEETS
CRYOSPHERE > GLACIERS/SICE SHEETS > ICE SHEETS

Services Keywords
Data Centers
Projects
Instruments
Platforms
Locations
Data Resolution
Chronostratigraphic Units
URL Content Types

Keywords Normalize Search & Help to Accurately Describe Data and Services

Planned Update to Search Functionality

Global Change Master Directory
Discover Earth science data and services

Search [Enter] Learn About GCMD Access to GCMD Contribute

Updated Home Page

Dynamic Keyword Tree

OCEANS > CLIMATE INDICATORS > SEA ICE

Results: 13 records found

Filter: [Science Keywords] [Filter] [Reset]

1. State of the Climate... Global Analysis [gov.noaa.ncep.c00672]
The Global Analysis page is prepared by and available from the National Climatic Data Center (NCDC). The page was first presented in 1998 as part of the State of the Climate Report. It is a framework...

2. Environmental Data Record Map SH DMSIP-14 [gov.noaa.class.EDRMAPSH14]
Microwave surface and precipitation products (EDRs) are produced by Fleet Numerical Meteorology and Oceanography Center (FNMOC) from the Defense Meteorological Satellite Program's (DMSP) Special Sensor...

3. Environmental Data Record Map SH DMSIP-15 [gov.noaa.class.EDRMAPSH15]
Microwave surface and precipitation products (EDRs) are produced by Fleet Numerical Meteorology and Oceanography Center (FNMOC) from the Defense Meteorological Satellite Program's (DMSP) Special Sensor...

4. Environmental Data Record Map SH DMSIP-14 [gov.noaa.class.EDRMAPSH14]
Microwave surface and precipitation products (EDRs) are produced by Fleet Numerical Meteorology and Oceanography Center (FNMOC) from the Defense Meteorological Satellite Program's (DMSP) Special Sensor...

5. Environmental Data Record Map SH DMSIP-15 [gov.noaa.class.EDRMAPSH15]
Microwave surface and precipitation products (EDRs) are produced by Fleet Numerical Meteorology and Oceanography Center (FNMOC) from the Defense Meteorological Satellite Program's (DMSP) Special Sensor...