Instituto de Capacitación en Clima y Salud - Mercosur

Presentación de la Data Library

Rémi COUSIN, DL
IRI

Objetivos

- Familiarizarse con la organización de la Data Library
- Aprender como localizar bases de datos y seleccionar dominios espaciales y temporales
- Aprender como efectuar análisis aritméticos simples
- Aprender como construir mapas y gráficos
- Aprender como bajar datos e imágenes
- Entender como la Data Library está relacionada con los Map Room

Plan de la Presentación

- Presentación de la organización y herramientas básicas de la Data Library
- Ejercicios

La Data Library del IRI es…

- Base de datos
  - >400 bases de datos relacionadas con todos aspectos del clima
- Análisis de datos
  - Operaciones aritméticas

  → análisis de EOF

Visualización de datos

- Series temporales, mapas, gráficos

Bajar datos

- Acceso a archivos de datos en formato texto, binario, compatible con SIG, etc.

http://iridl.ldeo.columbia.edu

Página Home de la Data Library

IRI/LDEO Climate Data Library

The IRI/LDEO Climate Data Library contains over 300 datasets from a variety of earth science disciplines and climate-related topics. It is a powerful tool that offers the following capabilities at no cost to the user:

- access any number of datasets;
- create analyses of data ranging from simple averaging to more advanced EOF analyses;
- monitor present climate conditions with maps and analyses in the Maproom;
- create visual representations of data, including animations;
- download data in a variety of commonly-used formats, including GIS-compatible formats.

Are you new to the world of climate data? Check out our Introduction to Climate Data page.

What's New

Mar 08 - Shapes for climate zones in Sri Lanka have been added as a new Features data set

Mar 08 - A new "International Federation" Map Room has been added to the IRI Map Rooms and is accessible from the Map Room front page. It contains a forecast precipitation map tool developed in collaboration with the International Federation of Red Cross and Red Crescent Societies that features analyses to provide context for global precipitation forecasts.

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Feb 08 - A k-means cluster analysis named k-means136 has been added to the Data Library as a new function

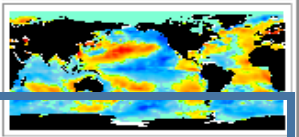
Finding Data

Datasets by Category
Datasets by Source
Dataset Search
Browse/Search Datasets
Browse/Search Maproom

Help Resources

Introductory Tutorial
Statistical Analysis Tutorial
Ingrid Function Documentation
Questions and Answers

Monitoring Global Climate



Map Room
A collection of maps and analyses used to monitor climate conditions. Click on any of the maps to modify the figures or access the source data.

Climate Information Digest
A monthly publication covering global climate events, their impacts and the seasonal forecast.

ENSO Web
Information about El Niño-Southern Oscillation.

Climate Highlights

Localizar Bases de Datos

Organización de las Bases de Datos

-Organización Primaria
  -Base de Datos
  -Base de Datos
    -Variables
  -Base de Datos
    -Variables
  -Base Datos
  -Variables

-Organización Primaria
  .
  .
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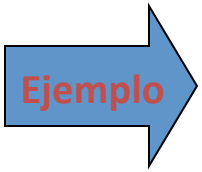
  .



-NASA
  -ERBE (Earth Radiation Budget Experiment)
    -Datasets by instrument
      -Variables
  -GES-DAAC (Distributed Active Archive Center)
    -
  -GISS
    -LeGrande_Schmidt2006 (authors)
  -GPCP (Global Precip Climatology Project)
    -Datasets by version
      -Datasets by instrument
        -Variables

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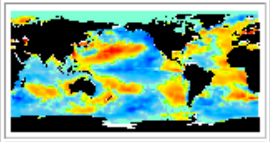

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Climate Highlights

MODELRUNS
Models
Morliere
MPI
NASA
NCAR
NMC
NMC9195
NOAA
OBERHUBER
OORT
OSUSFC
PALEO
PELTIER
RC
REVERDIN
River
Sandwell
SERVAIN
ShipDrift
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NASA options | Help | Expert Mode

SOURCES | NASA

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NASA

NASA: National Aeronautics and Space Administration.

Documents

overview an outline showing sub-datasets of this dataset

Datasets and variables

ERBE	Earth Radiation Budget Experiment.
GES-DAAC	GSFC Earth Sciences Distributed Active Archive Center.
GISS	NASA GISS[**LeGrande_Schmidt2006**]
GPCP	Combined satellite-gauge precipitation estimates and error estimates from the Global Precipitation Climatology Project.
GSFC	Goddard Space Flight Center.
ISCCP	International Satellite Cloud Climatology Project.
ISLSCP	International Satellite Land Surface Climatology Project.
Microwave Sounding Unit	Gridded oceanic rainfall data from the Microwave Sounding Unit.
JPL	Not Found

Other Info

iridl:hasSemantics

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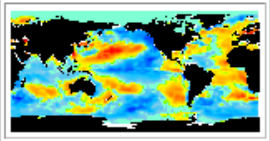

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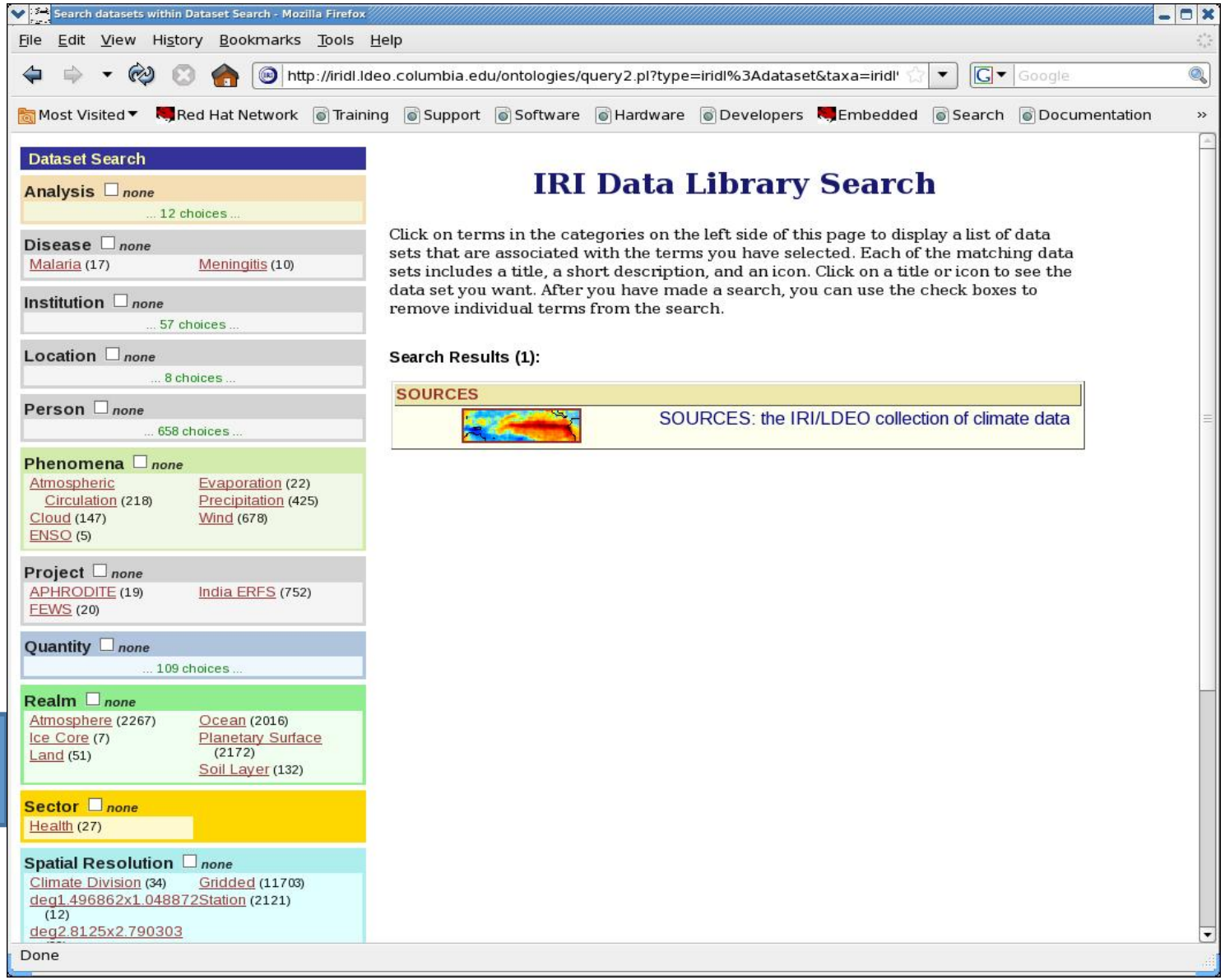
Climate Highlights

Done

Data Browse/Search



Map Room Search

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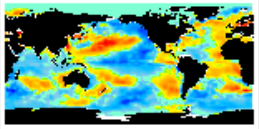

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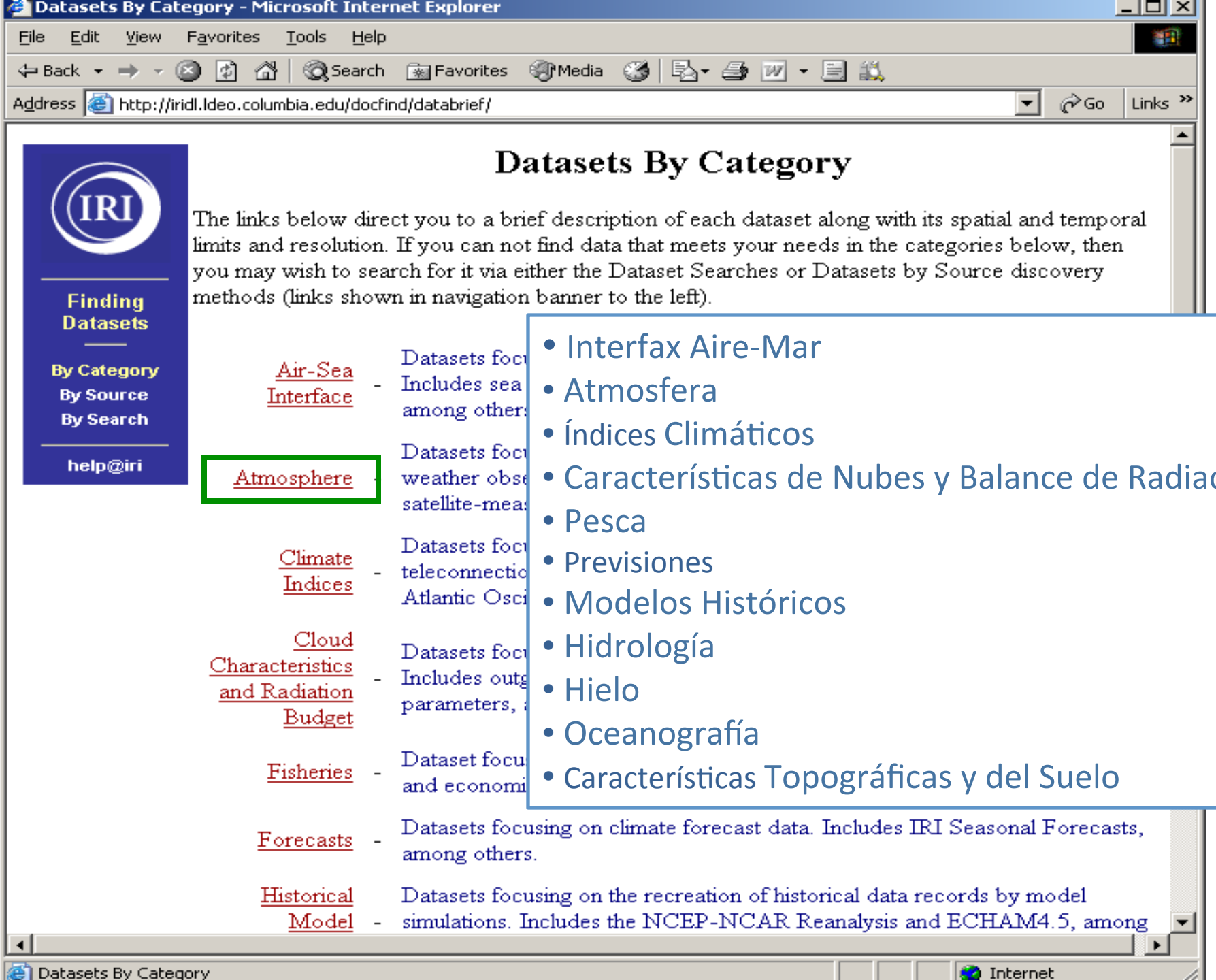
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By Source
By Search
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Datasets By Category
The links below direct you to a brief description of each dataset along with its spatial and temporal limits and resolution. If you can not find data that meets your needs in the categories below, then you may wish to search for it via either the Dataset Searches or Datasets by Source discovery methods (links shown in navigation banner to the left).
Air-Sea Interface - Datasets focu Includes sea among other
Atmosphere - Datasets focu weather obse satellite-mea
Climate Indices - Datasets focu teleconnectio Atlantic Osci
Cloud Characteristics and Radiation Budget - Datasets focu Includes outg parameters,
Fisheries - Dataset focu and economi
Forecasts - Datasets focusing on climate forecast data. Includes IRI Seasonal Forecasts, among others.
Historical Model - Datasets focusing on the recreation of historical data records by model simulations. Includes the NCEP-NCAR Reanalysis and ECHAM4.5, among
• Interfax Aire-Mar
• Atmosfera
• Índices Climáticos
• Características de Nubes y Balance de Radiación
• Pesca
• Previsiones
• Modelos Históricos
• Hidrología
• Hielo
• Oceanografía
• Características Topográficas y del Suelo
Datasets By Category
Internet

Atmospheric Data in the IRI Data Library

Dataset Name	Spatial Resolution (Lon/Lat) / Number of Stations	Spatial Extent	Time Period	Temporal Resolution
ANEEL prcp_sta	13179 STATIONS	[90W,30W], [60S,15N]	1 Jan 1897,31 Dec 2004	DAILY
	Description: Precipitation station data for South America, primarily Brazil .			
CDIAC msu	2.5x2.5	GLOBAL, [58.75S,58.75N]	1 Jan 1979,31 May 1994	DAILY
	Description: MSU-measured precipitation from CDIAC .			
CDIAC tr051	5x4	GLOBAL, [62S,86N]	Dec 1850 - Feb 1851,Sep-Nov 1989	SEASONAL
	Description: Comprehensive preciptation anomaly data set for global land areas .			
DEKLIM VASClimO PrcpClim	0.5x0.5; 1.0x1.0; 2.5x2.5	GLOBAL [59.75S,84.75N]	Jan 1951,Dec 2000	MONTHLY
	Description: Precipitation climatology from the Variability Analysis of Surface Climate Observations (VASClimO) project - a joint project of the German Weather Service (DWD/GPCC)and the Johann Wolfgang Goethe-University Frankfurt.			
IITM	7 REGIONS, 29 SUBDIVISIONS	[65E,98E], [5N,35N]	Jan 1871,Dec 2002; Jan 1901,Dec 1990	MONTHLY
	Description: Subdivision-, region-, and country-level precipitation and temperature data for India.			
INIA	5 stations	[65W,45W], [45S,25S]	1 Jul 1965, Present	DAILY, MONTHLY
	Description: Daily and monthly meteorological observations in Uruguay from the INIA.			
IRI Analyses ENSO-RP	0.5x0.5, 2.5x2.5	GLOBAL	Dec - Feb,Nov - Jan	SEASONAL
	Description: Probabilistic precipitation anomalies associated with ENSO.			

Datasets By Category - Atmospheric Data - Microsoft Internet Explorer

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	Description: Daily and monthly meteorological observations in Uruguay from the INIA.			
IRI Analyses ENSO-RP	0.5x0.5, 2.5x2.5	GLOBAL	Dec - Feb,Nov - Jan	SEASONAL
	Description: Probabilistic precipitation anomalies associated with ENSO.			
IRI Analyses SPI	2.5x2.5; 0.5x0.5	GLOBAL	Various: 1901-Present	MONTHLY
	Description: Standardized Precipitation Index analyses of multiple global precipitation datasets.			
Indices india	NA	NA	Jun-Sep 1813,Jun-Sep 1998	MONTHLY
	Description: Summer monsoon rainfall data from India.			
NASA GPCP V1DD	1x1	GLOBAL	1 Oct 1996,31 Dec 2005	DAILY
	Description: 1-degree daily combination precipitation estimates .			
NASA GPCP V2	2.5x2.5	GLOBAL	Jan 1979,Feb 2006	MONTHLY
	Description:Combined satellite-gauge precipitation estimates and error estimates from the Global Precipitation Climatology Project.			
NASA GSFC TOMS EPTOMS	1.25x1	GLOBAL	Aug 1996 to Present	DAILY, MONTHLY
	Description: Aerosol index and erythemal UV irradiance data from the Earth Probe TOMS instrument.			
NASA GSFC TOMS NIMBUS7	1.25x1	GLOBAL	1 Nov 1978,6 May 1993; Jan 1980,Apr 1993	DAILY, MONTHLY
	Description: Aerosol index and erythemal UV irradiance data from the Nimbus-7 TOMS instrument.			
NASA msu	2.5x2.5	GLOBAL, [58.75S,58.75N]	1 Jan 1979,31 May 1994	DAILY
	Description: Gridded oceanic rainfall data from the Microwave Sounding Unit .			
NOAA NCDC CIRS ClimateDivision	344 STATIONS	[125W,65W], [15N,55N]	Jan 1895,May 2006	MONTHLY
	Description: Time bias corrected temperature, precipitation, and drought index data for United States climate divisions from the National Climatic Data Center .			

Internet

Contenidos y Estructura de las Páginas de Bases de Datos

Bases de Datos en Retículas

dataset: NASA GPCP V1DD - Microsoft Internet Explorer

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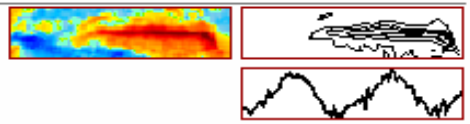

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DD*

V1DD

NASA GPCP V1DD documentation

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NASA GPCP V1DD: 1-degree daily combination precipitation estimates.

Documents

outline an outline showing all sub-datasets and variables contained in this dataset

dataset documentation

Datasets and variables

precipitation NASA GPCP V1DD prcp[X Y | T]

Grids

Time	grid: /T (days since 1996-10-01 12:00:00) ordered (1 Oct 1996) to (31 Dec 2005) by 1. N= 3379 pts :grid
Longitude	grid: /X (degree_east) periodic (0.5E) to (0.5W) by 1. N= 360 pts :grid
Latitude	grid: /Y (degree_north) ordered (89.5N) to (89.5S) by 1. N= 180 pts :grid

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Bar de Funciones

-Acceso a la manipulación de datos, visualización, bajar

dataset: NASA GPCP V1DD - Microsoft Internet Explorer

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ta Library

SOURCES NASA GPCP V1DD*

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Bar de Fuente

-Información de navegación

-¿Dónde estoy? ¿Cuales operaciones he realizado?

-Acceso a la documentación

Puntos de Acceso a la Documentación

dataset: NASA GPCP V1DD - Microsoft Internet Explorer

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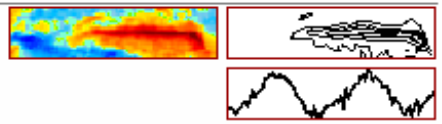

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Bases de Datos y Variables
-Acceso a las variables o sub-bases de datos

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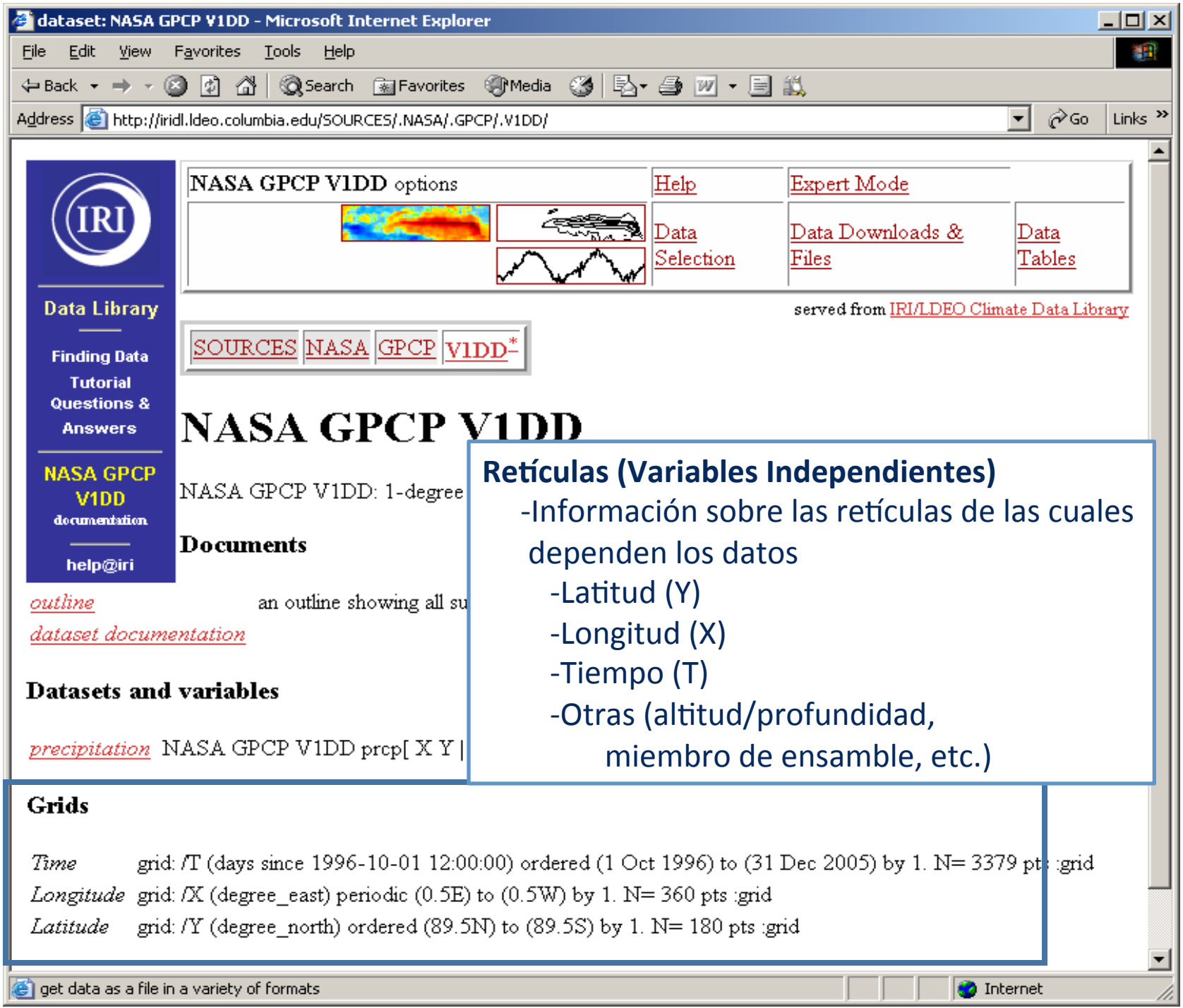

Retículas (Variables Independientes)

-Información sobre las retículas de las cuales dependen los datos

-Latitud (Y)

-Longitud (X)

-Tiempo (T)

-Otras (altitud/profundidad, miembro de ensamble, etc.)

dataset: NASA GPCP V1DD - Microsoft Internet Explorer

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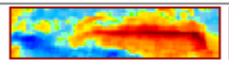

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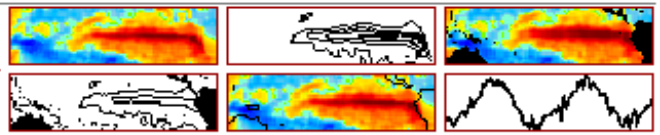
NEW Views



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SOURCES NASA GPCP V1DD* precipitation

NASA GPCP V1DD prcp: precipitation data

precipitation from NASA GPCP V1DD: 1-degree daily combination precipitation estimates.

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Longitude
grid: /X (degree_east) periodic (0.5E) to (0.5W) by 1. N= 360 pts :grid
Latitude
grid: /Y (degree_north) ordered (89.5N) to (89.5S) by 1. N= 180 pts :grid

Other Info

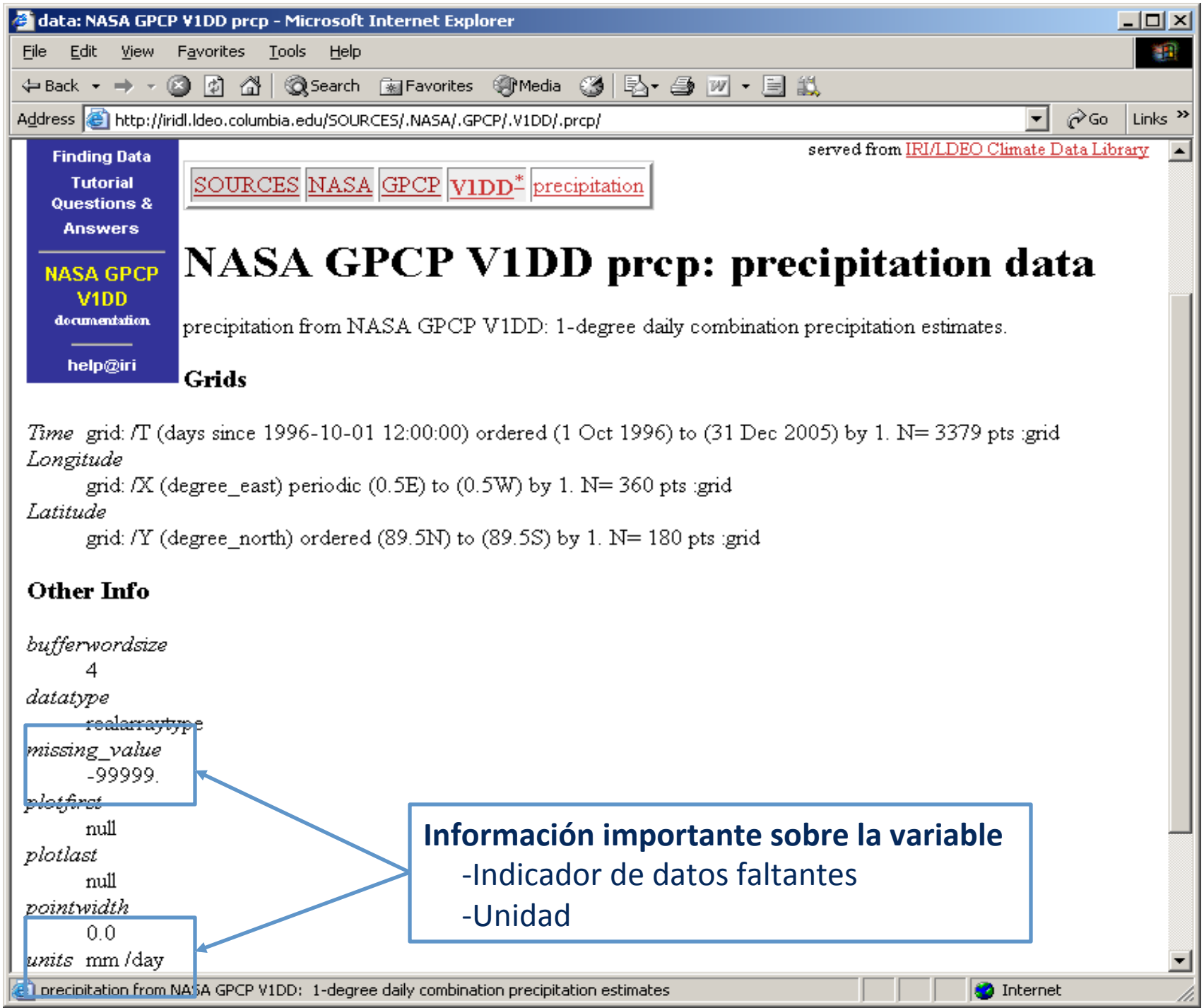
bufferwordsize
4
datatype
realarraytype
missing_value

Note nueva información

-La variable seleccionada está en la Bar de Fuente
-Títulos de las bases de datos y variables ya no están
-Mas información sobre la variable a bajo

precipitation from NASA GPCP V1DD: 1-degree daily combination precipitation estimates

Internet


data: NASA GPCP V1DD prcp - Microsoft Internet Explorer
File Edit View Favorites Tools Help
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Address http://iridl.ldeo.columbia.edu/SOURCES/.NASA/.GPCP/.V1DD/.prcp/
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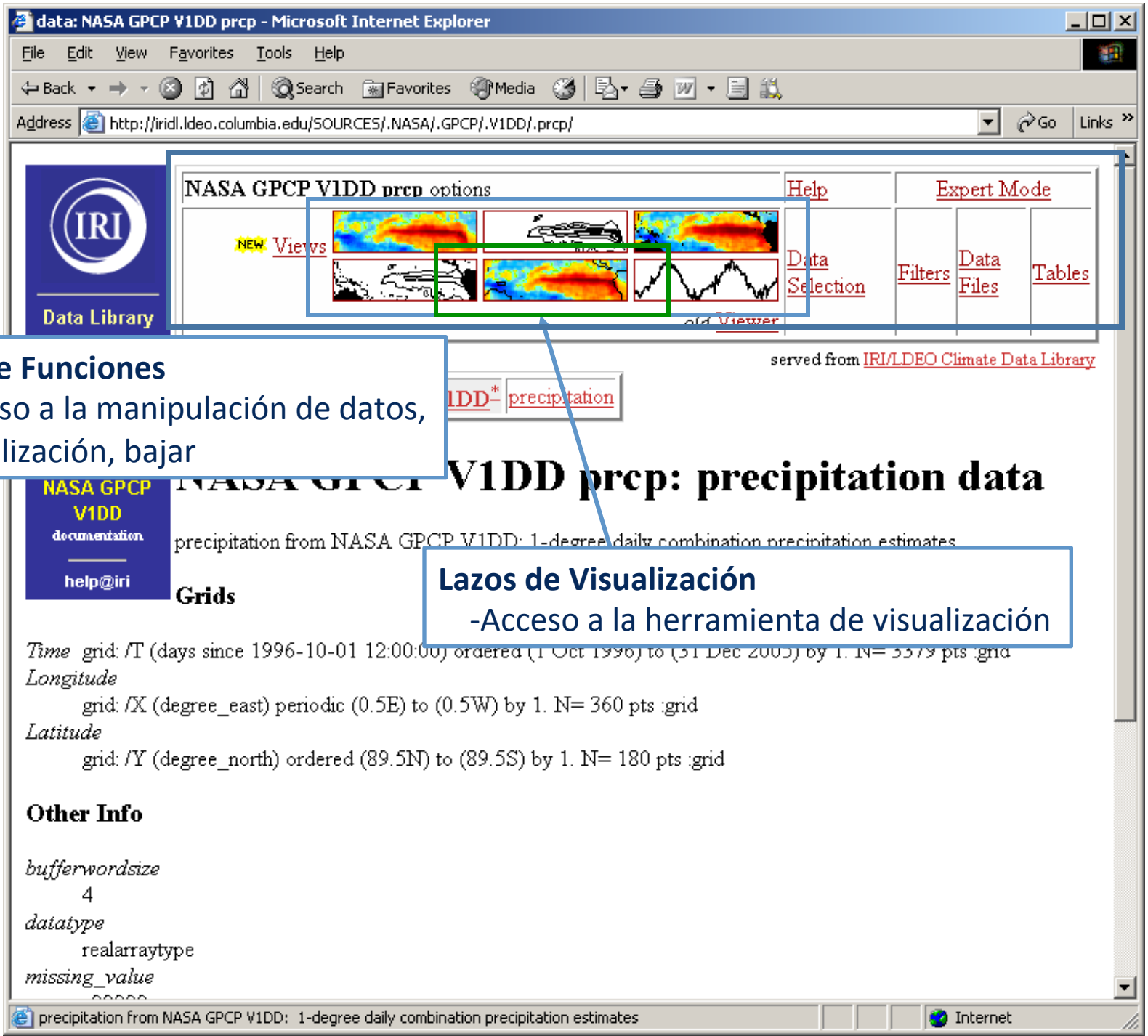
NASA GPCP V1DD documentation
help@iri
served from IRI/LDEO Climate Data Library
SOURCES NASA GPCP V1DD* precipitation
NASA GPCP V1DD prcp: precipitation data
precipitation from NASA GPCP V1DD: 1-degree daily combination precipitation estimates.
Grids
Time grid: /T (days since 1996-10-01 12:00:00) ordered (1 Oct 1996) to (31 Dec 2005) by 1. N= 3379 pts :grid
Longitude
grid: /X (degree_east) periodic (0.5E) to (0.5W) by 1. N= 360 pts :grid
Latitude
grid: /Y (degree_north) ordered (89.5N) to (89.5S) by 1. N= 180 pts :grid
Other Info
bufferwordsize
4
datatype
realarraytype
missing_value
-99999.
plotfirst
null
plotlast
null
pointwidth
0.0
units mm /day
precipitation from NASA GPCP V1DD: 1-degree daily combination precipitation estimates
Internet
Información importante sobre la variable
-Indicador de datos faltantes
-Unidad



Barra de Funciones

-Acceso a la manipulación de datos, visualización, bajar

Lazos de Visualización

-Acceso a la herramienta de visualización

views: NASA GPCP V1DD prcp 1 Oct 1996 - Microsoft Internet Explorer

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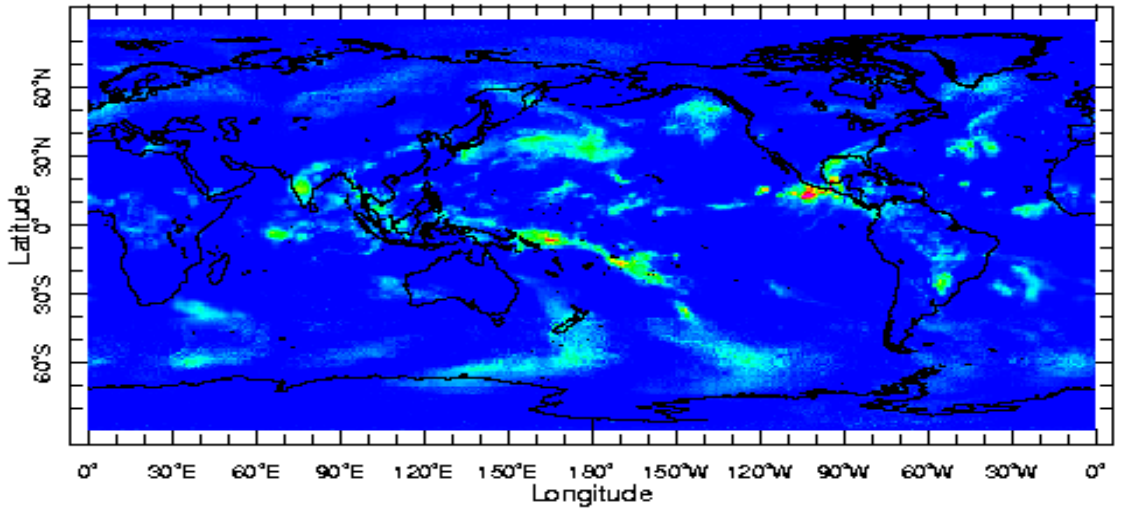
Address http://iridl.ldeo.columbia.edu/SOURCES/.NASA/.GPCP/.V1DD/.prcp/figviewer.html?map.url=X+Y+fig-+colors+

Go Links

IRI	Data Library	NASA GPCP V1DD precipitation	0 - 0	90S - 90N	Oct 1996 - Dec 2005	Longitude/Latitude

Time: 1 Oct 1996 2 Oct 1996

89.5N



89.5S 1 Oct 1996

0 0

0.0 97.62288

Longitude Latitude draw coasts colors

Get Data Entire Dataset data in view Edit plot

Done Internet

data: NASA GPCP V1DD prcp - Microsoft Internet Explorer

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SOURCES NASA GPCP V1DD* precipitation

NASA GPCP V1DD prcp: precipitation data

precipitation from NASA GPCP V1DD: 1-degree daily combination precipitation estimates.

Data Selection
-Selección del dominio de los datos

Grids

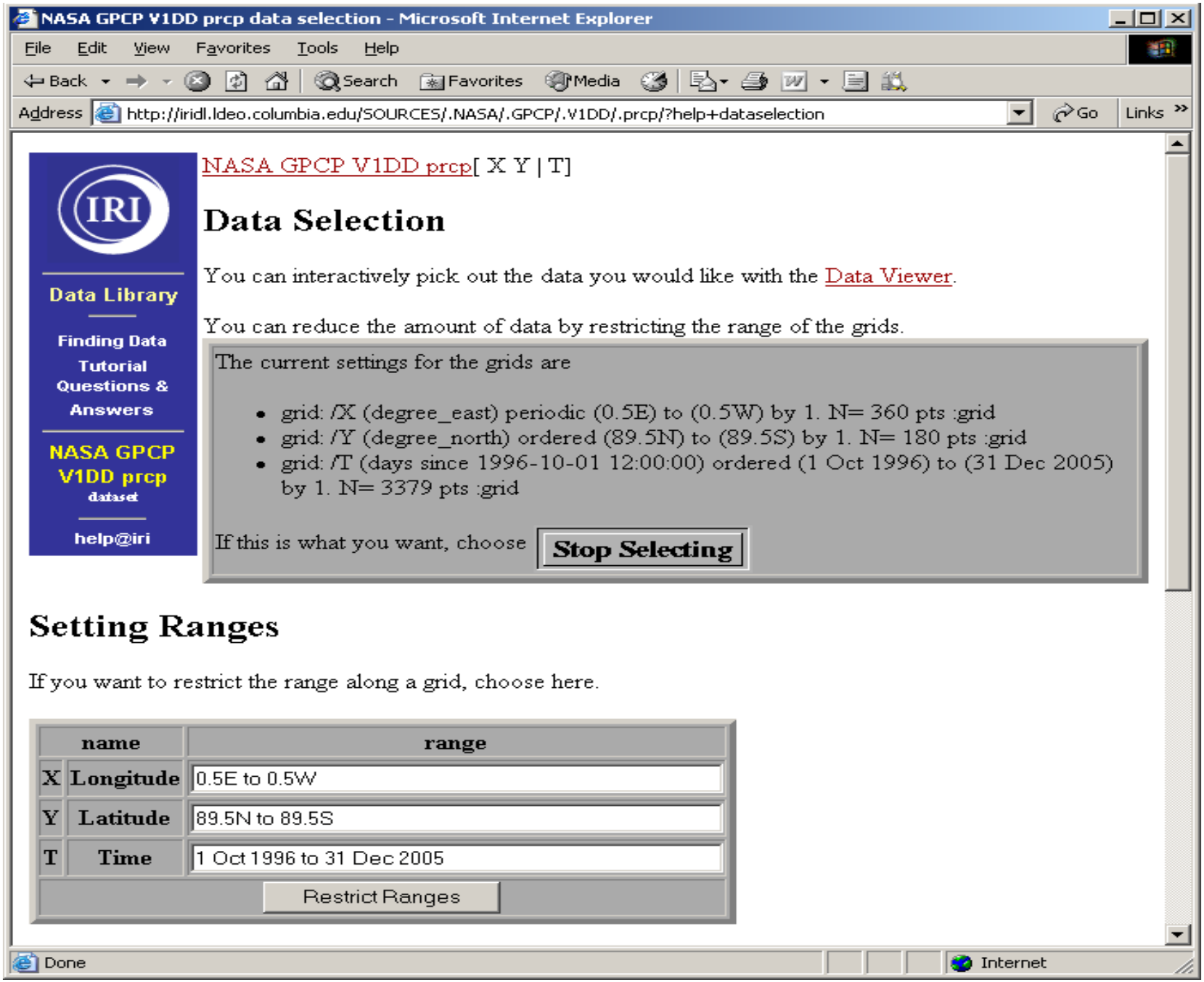
Time grid: /T (days since 1996-10-01 12:00:00) ordered (1 Oct 1996) to (31 Dec 2005) by 1. N= 3379 pts :grid
Longitude
grid: /X (degree_east) periodic (0.5E) to (0.5W) by 1. N= 360 pts :grid
Latitude
grid: /Y (degree_north) ordered (89.5N) to (89.5S) by 1. N= 180 pts :grid

Other Info

bufferwordsize
4
datatype
realarraytype
missing_value

precipitation from NASA GPCP V1DD: 1-degree daily combination precipitation estimates

Internet


NASA GPCP V1DD prcp data selection - Microsoft Internet Explorer
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Address http://iridl.ldeo.columbia.edu/SOURCES/.NASA/.GPCP/.V1DD/.prcp/?help+dataselection
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dataset
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NASA GPCP V1DD prcp[X Y | T]
Data Selection
You can interactively pick out the data you would like with the Data Viewer.
You can reduce the amount of data by restricting the range of the grids.
The current settings for the grids are
grid: /X (degree_east) periodic (0.5E) to (0.5W) by 1. N= 360 pts :grid
grid: /Y (degree_north) ordered (89.5N) to (89.5S) by 1. N= 180 pts :grid
grid: /T (days since 1996-10-01 12:00:00) ordered (1 Oct 1996) to (31 Dec 2005) by 1. N= 3379 pts :grid
If this is what you want, choose
Stop Selecting
Setting Ranges
If you want to restrict the range along a grid, choose here.
name
range
X
Longitude
0.5E to 0.5W
Y
Latitude
89.5N to 89.5S
T
Time
1 Oct 1996 to 31 Dec 2005
Restrict Ranges
Done
Internet

data: NASA GPCP V1DD prcp - Microsoft Internet Explorer

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SOURCES NASA GPCP V1DD* precipitation

NASA GPCP V1DD prcp: precipitation data

precipitation from NASA GPCP V1DD: 1-degree daily combination precipitation estimates

Filtros

-Herramientas de manipulación usuales de datos

Grids

Time grid: /T (days since 1996-10-01 12:00:00) ordered (1 Oct 1996) to (31 Dec 2005) by 1. N= 3379 pts :grid

Longitude

grid: /X (degree_east) periodic (0.5E) to (0.5W) by 1. N= 360 pts :grid

Latitude

grid: /Y (degree_north) ordered (89.5N) to (89.5S) by 1. N= 180 pts :grid

Other Info

bufferwordsize

4

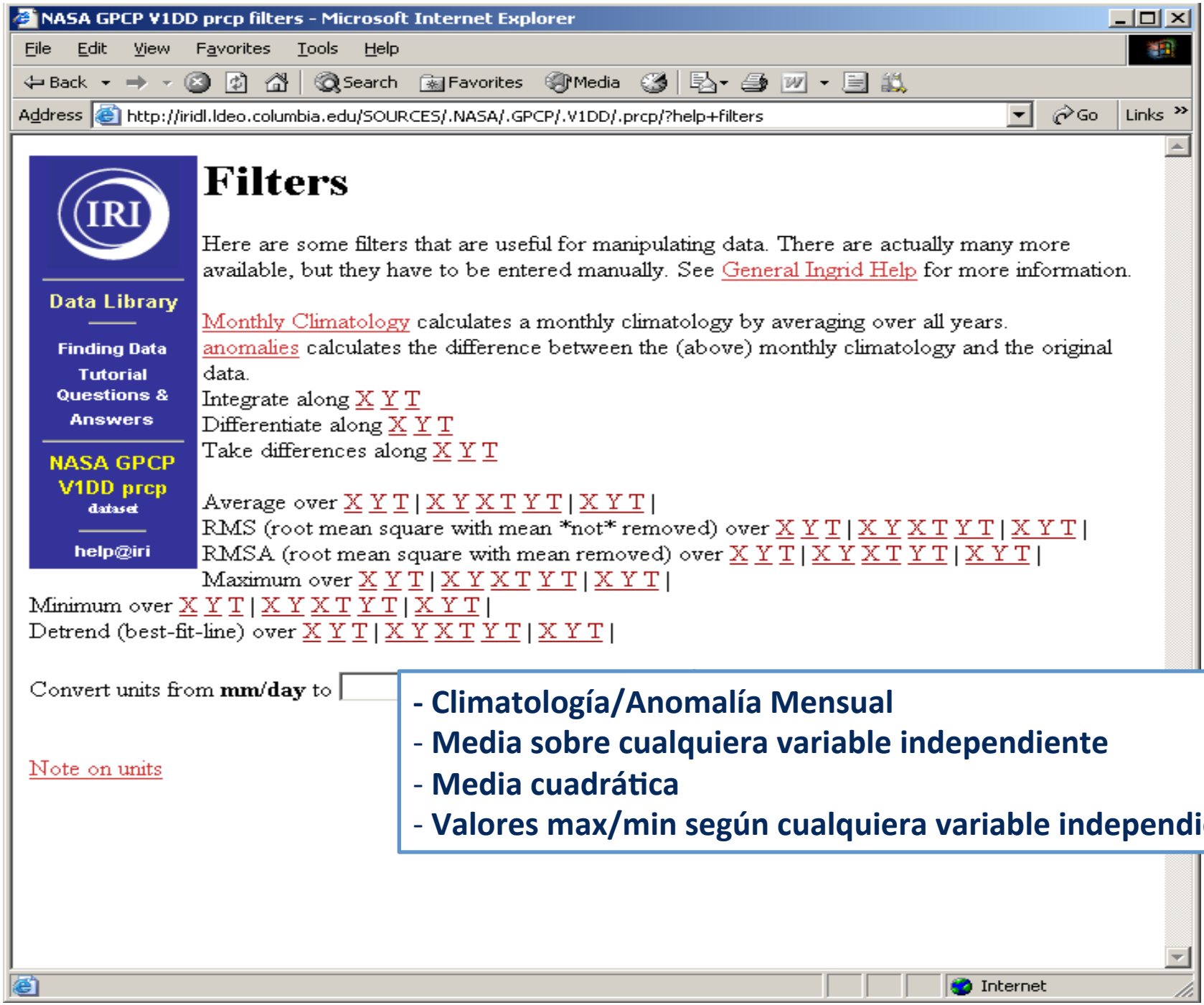
datatype

realarraytype

missing_value

precipitation from NASA GPCP V1DD: 1-degree daily combination precipitation estimates

Internet



- **Climatología/Anomalía Mensual**
- **Media sobre cualquiera variable independiente**
- **Media cuadrática**
- **Valores max/min según cualquiera variable independiente**

data: NASA GPCP V1DD prcp - Microsoft Internet Explorer

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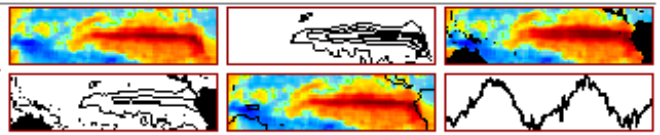

Data Selection

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SOURCES | NASA | GPCP | V1DD* | precipitation

NASA GPCP V1DD prcp: precipitation data

precipitation from NASA GPCP V1DD: 1-degree daily combination precipitation estimates.

Data Files
-Acceso al bajar de los datos

Grids

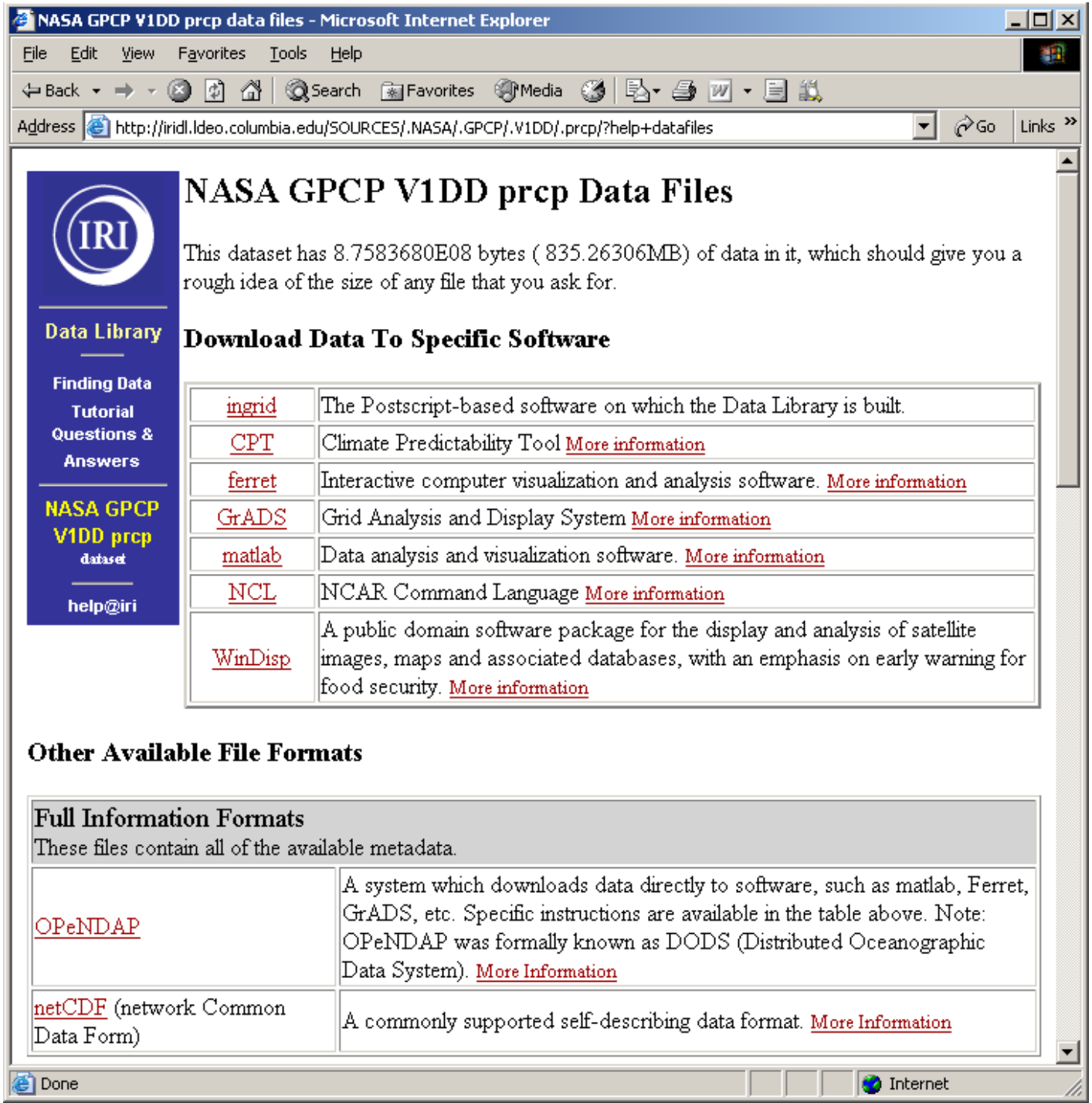
Time grid: /T (days since 1996-10-01 12:00:00) ordered (1 Oct 1996) to (31 Dec 2005) by 1. N= 3379 pts :grid
Longitude
grid: /X (degree_east) periodic (0.5E) to (0.5W) by 1. N= 360 pts :grid
Latitude
grid: /Y (degree_north) ordered (89.5N) to (89.5S) by 1. N= 180 pts :grid

Other Info

bufferwordsize
4
datatype
realarraytype
missing_value

precipitation from NASA GPCP V1DD: 1-degree daily combination precipitation estimates

Internet


NASA GPCP V1DD prcp data files - Microsoft Internet Explorer
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Address http://iridl.ldeo.columbia.edu/SOURCES/.NASA/.GPCP/.V1DD/.prcp/?help+datafiles
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NASA GPCP V1DD prcp Data Files
This dataset has 8.7583680E08 bytes (835.26306MB) of data in it, which should give you a rough idea of the size of any file that you ask for.
Download Data To Specific Software
ingrid The Postscript-based software on which the Data Library is built.
CPT Climate Predictability Tool More information
ferret Interactive computer visualization and analysis software. More information
GrADS Grid Analysis and Display System More information
matlab Data analysis and visualization software. More information
NCL NCAR Command Language More information
WinDisp A public domain software package for the display and analysis of satellite images, maps and associated databases, with an emphasis on early warning for food security. More information
Other Available File Formats
Full Information Formats
These files contain all of the available metadata.
OPeNDAP A system which downloads data directly to software, such as matlab, Ferret, GrADS, etc. Specific instructions are available in the table above. Note: OPeNDAP was formally known as DODS (Distributed Oceanographic Data System). More Information
netCDF (network Common Data Form) A commonly supported self-describing data format. More Information
Done
Internet

data: NASA GPCP V1DD prcp - Microsoft Internet Explorer

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Address http://iridl.ldeo.columbia.edu/SOURCES/.NASA/.GPCP/.V1DD/.prcp/ Go Links

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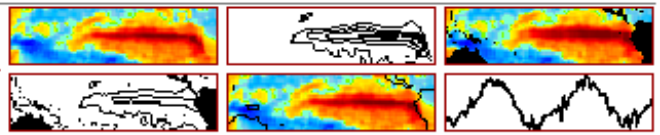

old Viewer

Data Selection | Filters | Data Files | Tables

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SOURCES | NASA | GPCP | V1DD* | precipitation

NASA GPCP V1DD prcp: precipitation data

precipitation from NASA GPCP V1DD: 1-degree daily combination precipitation estimates

Tables
-Acceso a tablas de datos para Excel, etc.

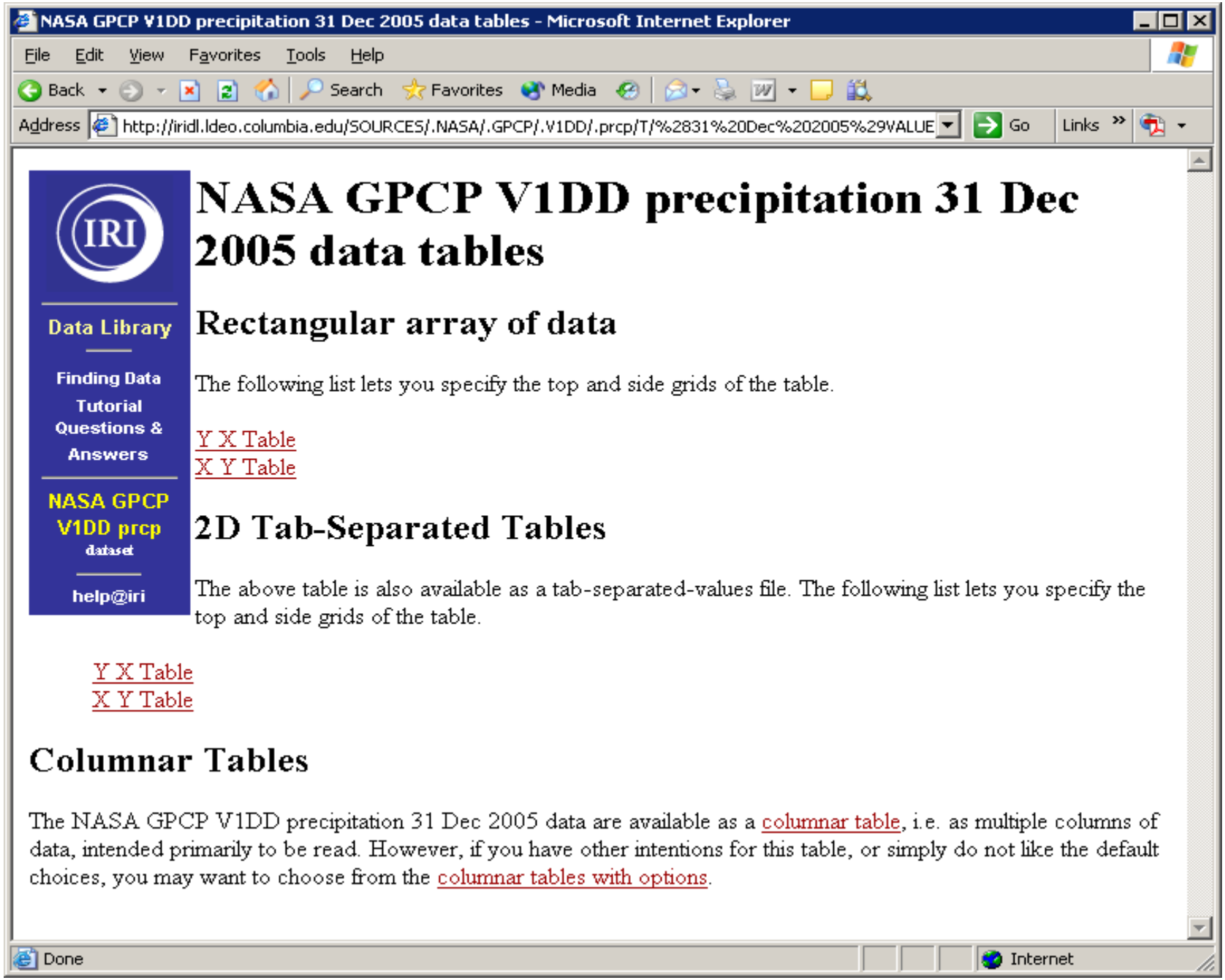
Grids

Time grid: /T (days since 1996-10-01 12:00:00) ordered (1 Oct 1996) to (31 Dec 2005) by 1. N= 3379 pts :grid
Longitude
grid: /X (degree_east) periodic (0.5E) to (0.5W) by 1. N= 360 pts :grid
Latitude
grid: /Y (degree_north) ordered (89.5N) to (89.5S) by 1. N= 180 pts :grid

Other Info

bufferwordsize
4
datatype
realarraytype
missing_value

precipitation from NASA GPCP V1DD: 1-degree daily combination precipitation estimates | Internet


NASA GPCP V1DD precipitation 31 Dec 2005 data tables - Microsoft Internet Explorer
File Edit View Favorites Tools Help
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Address http://iridl.ldeo.columbia.edu/SOURCES/.NASA/.GPCP/.V1DD/.prcp/T/%2831%20Dec%202005%29VALUE
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NASA GPCP V1DD precipitation 31 Dec 2005 data tables
Rectangular array of data
The following list lets you specify the top and side grids of the table.
Y X Table
X Y Table
2D Tab-Separated Tables
The above table is also available as a tab-separated-values file. The following list lets you specify the top and side grids of the table.
Y X Table
X Y Table
Columnar Tables
The NASA GPCP V1DD precipitation 31 Dec 2005 data are available as a columnar table, i.e. as multiple columns of data, intended primarily to be read. However, if you have other intentions for this table, or simply do not like the default choices, you may want to choose from the columnar tables with options.
Done
Internet

data: NASA GPCP V1DD prcp - Microsoft Internet Explorer

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Address http://iridl.ldeo.columbia.edu/SOURCES/.NASA/.GPCP/.V1DD/.prcp/ Go Links

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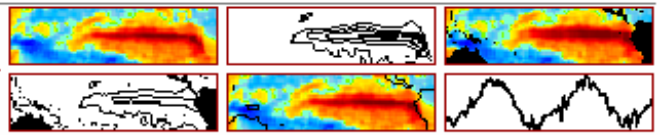
NEW Views 

old Viewer

Data Selection | Filters | Data Files | Tables

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SOURCES NASA GPCP V1DD* precipitation

NASA GPCP V1DD prcp: precipitation data

precipitation from NASA GPCP V1DD: 1-degree daily combination precipitation estimates.

Expert mode
-Programar en Ingrid directamente

Grids

Time grid: /T (days since 1996-10-01 12:00:00) ordered (1 Oct 1996) to (31 Dec 2005) by 1. N= 3379 pts :grid
Longitude
grid: /X (degree_east) periodic (0.5E) to (0.5W) by 1. N= 360 pts :grid
Latitude
grid: /Y (degree_north) ordered (89.5N) to (89.5S) by 1. N= 180 pts :grid

Other Info

bufferwordsize
4
datatype
realarraytype
missing_value

precipitation from NASA GPCP V1DD: 1-degree daily combination precipitation estimates

Internet

T X Y

NASA GPCP V1DD prcp[X Y | T] M M M

```
expert
SOURCES .NASA .GPCP .V1DD .prcp
```

OK reset

NASA GPCP V1DD prcp: precipitation data

precipitation from NASA GPCP V1DD: 1-degree daily combination precipitation estimates.

Grids

Time grid: /T (days since 1996-10-01 12:00:00) ordered (1 Oct 1996) to (31 Dec 2005) by 1. N= 3379 pts :grid
Longitude
grid: /X (degree_east) periodic (0.5E) to (0.5W) by 1. N= 360 pts :grid
Latitude
grid: /Y (degree_north) ordered (89.5N) to (89.5S) by 1. N= 180 pts :grid

Other Info

bufferwordsize

Contenidos y Estructura de las Páginas de Bases de Datos

Bases de Datos de Estaciones

dataset: NOAA NCDC GHCN v2beta - Microsoft Internet Explorer

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served from IRI/LDEO Climate Data Library

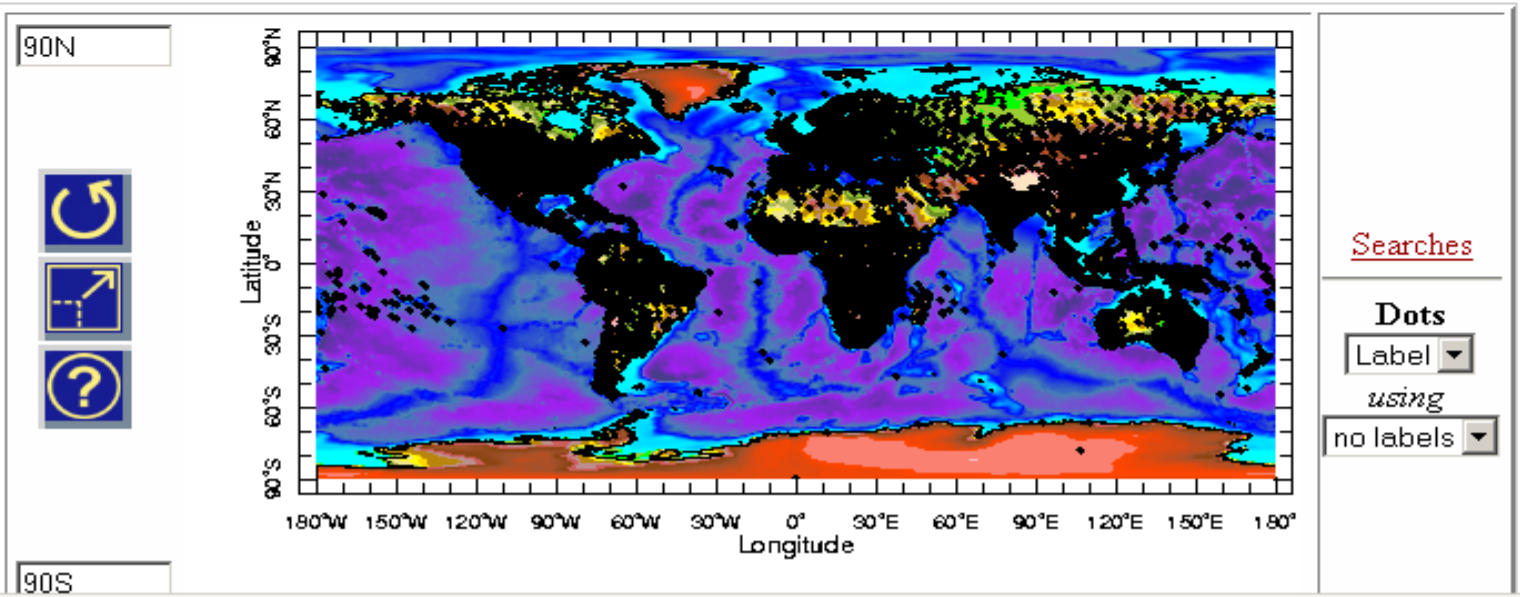
SOURCES NOAA NCDC GHCN beta version 2 (prcp) [map]

NOAA NCDC GHCN b

Tres diferencias principales

1. Mapa de las estaciones

NOAA NCDC GHCN beta version 2 (prcp): Monthly weather station precipitation data from the Global Historical Climate Network.



NOAA: National Oceanic and Atmospheric Adminstration

Internet

dataset: NOAA NCDC GHCN v2beta - Microsoft Internet Explorer

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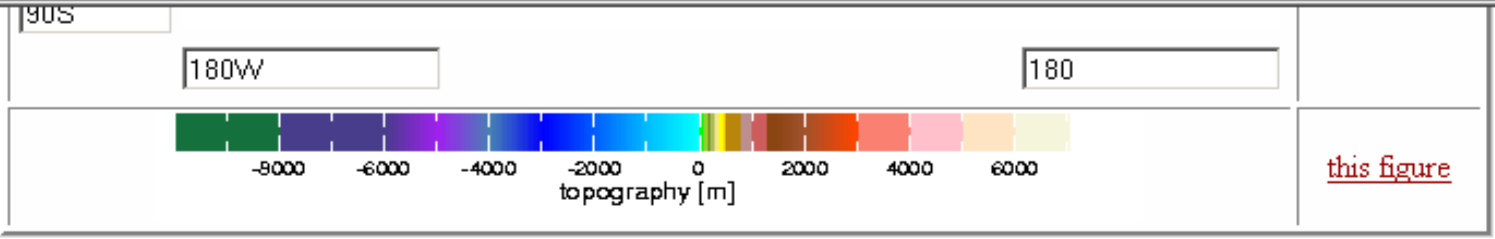
Address http://iridl.ldeo.columbia.edu/SOURCES/.NOAA/.NCDC/.GHCN/.v2beta/ Go Links



List of stations in current view

Click on map to select data; change the **Zoom** menu to zoom in as well.

Tres diferencias principales

1. Mapa de las estaciones
2. ids de las estaciones como retícula
3. "Extra" variables informan sobre las estaciones

Documents

outline an outline showing all sub-datasets and variables conta

agreement

Datasets and variables

elev	NOAA NCDC GHCN v2beta elev[IWMO]
latitude	NOAA NCDC GHCN v2beta lat[IWMO]
longitude	NOAA NCDC GHCN v2beta lon[IWMO]
Name	NOAA NCDC GHCN v2beta Name[IWMO]
precipitation	NOAA NCDC GHCN v2beta prcp[T | IWMO]

Grids

station grid: /IWMO (ids) ordered [(1001000) (1005000) (1008000) ... (98851001)] N= 20590 pts :grid

time grid: /T (months since 1960-01-01) ordered (Jan 1697) to (May 2006) by 1. N= 3713 pts :grid

Click for help Internet

Selección del Dominio de los Datos

Bases de Datos en Retícula

data: NASA GPCP V1DD prcp - Microsoft Internet Explorer

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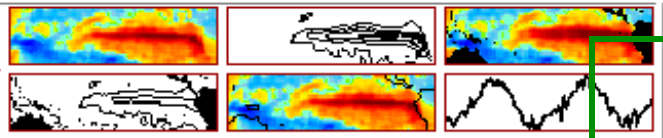
NEW Views



old Viewer

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SOURCES NASA GPCP V1DD* precipitation

NASA GPCP V1DD prcp: precipitation data

precipitation from NASA GPCP V1DD: 1-degree daily combination precipitation estimates.

Data Selection
-Selección del dominio de los datos

Grids

Time grid: /T (days since 1996-10-01 12:00:00) ordered (1 Oct 1996) to (31 Dec 2005) by 1. N= 3379 pts :grid
Longitude
grid: /X (degree_east) periodic (0.5E) to (0.5W) by 1. N= 360 pts :grid
Latitude
grid: /Y (degree_north) ordered (89.5N) to (89.5S) by 1. N= 180 pts :grid

Other Info

bufferwordsize
4
datatype
realarraytype
missing_value

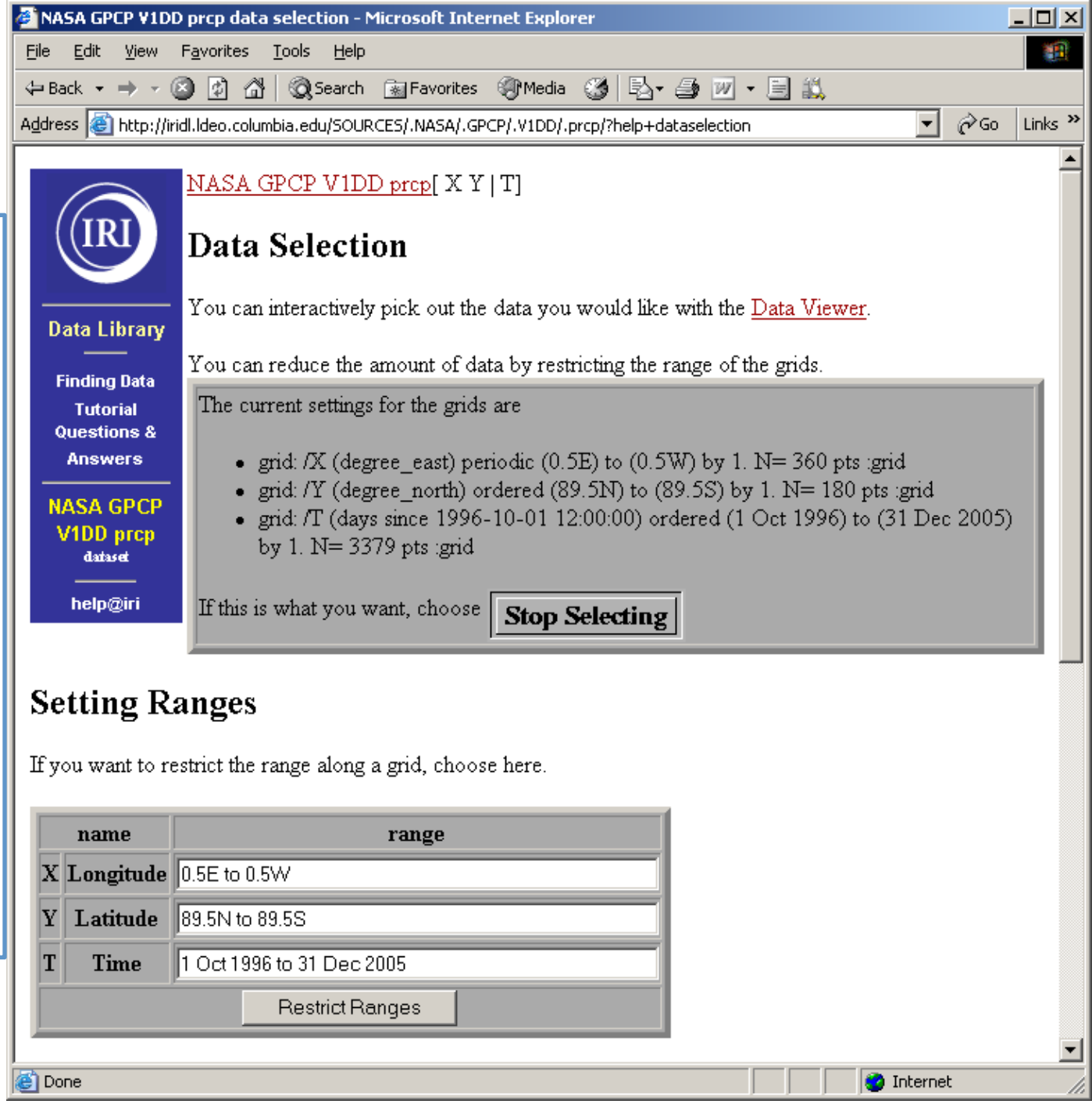
precipitation from NASA GPCP V1DD: 1-degree daily combination precipitation estimates | Internet

Selección de los Datos

Etapa 1. Cambie el texto en la sección Setting Ranges *utilizando la misma sintaxis* del texto ya escrito.

Etapa 2. Haga clic el botón **Restrict Ranges**.

Etapa 3. Cuando la información en la sección arriba corresponde a lo que quiere, haga clic el botón **Stop Selecting**.

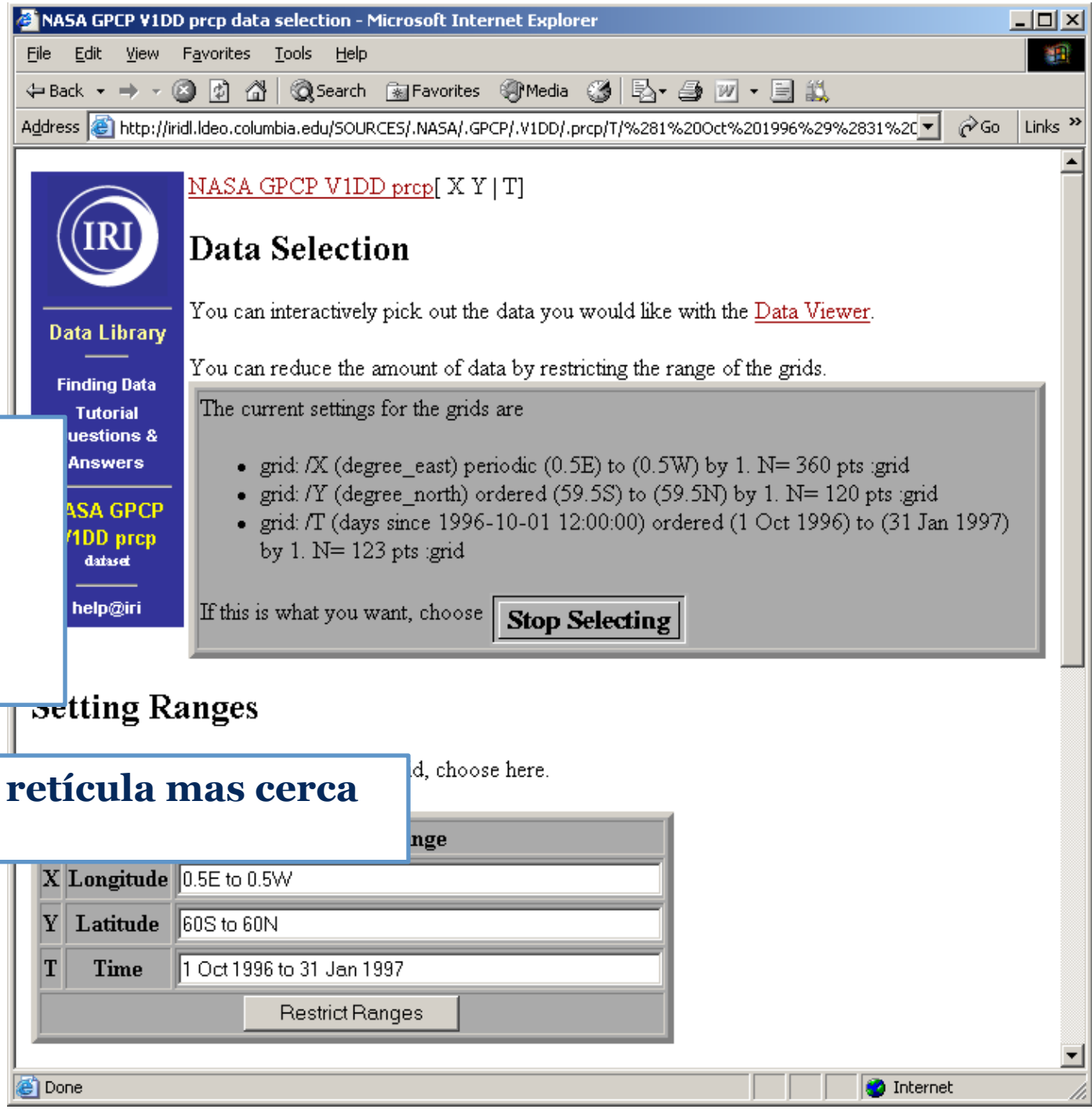


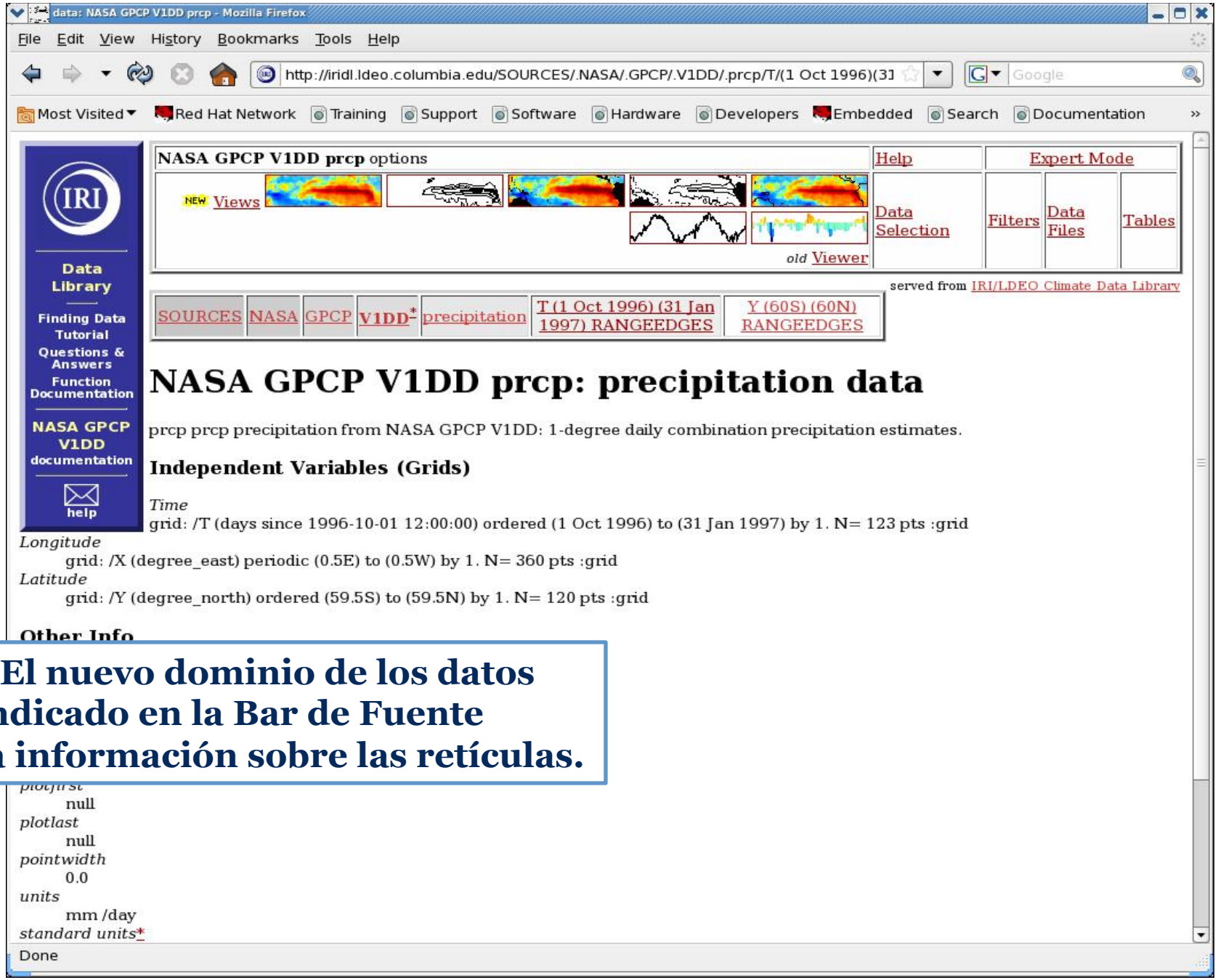
Ejemplo

Time (T)
1 Oct 1996 to 31 Jan 1997

Latitude (Y)
60S to 60N

Nota: El centro de la retícula mas cerca está seleccionado.





Nota: El nuevo dominio de los datos está indicado en la Bar de Fuente y en la información sobre las retículas.

Selección del Dominio de los Datos

Bases de Datos de Estaciones

dataset: NOAA NCDC GHCN v2beta - Microsoft Internet Explorer

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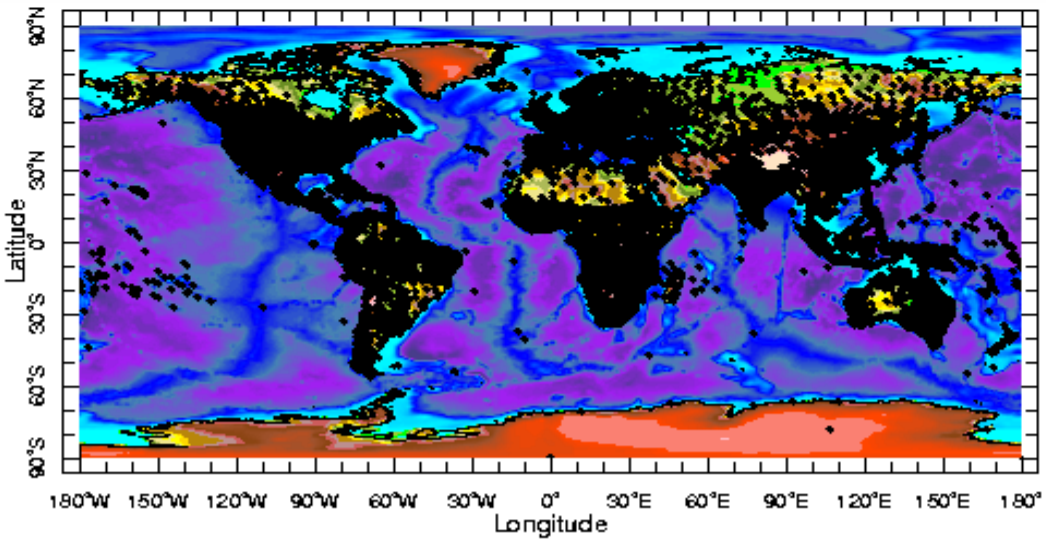
SOURCES NOAA NCDC GHCN beta version 2 (prcp) [map]

NOAA NCDC GHCN be

Diferencia principal
1. Seleccionar estaciones

NOAA NCDC GHCN beta version 2 (prcp): Monthly weather station precipitation data from the Global Historical Climate Network.

90N



Searches

Dots
Label
using
no labels

90S

NOAA: National Oceanic and Atmospheric Adminstration

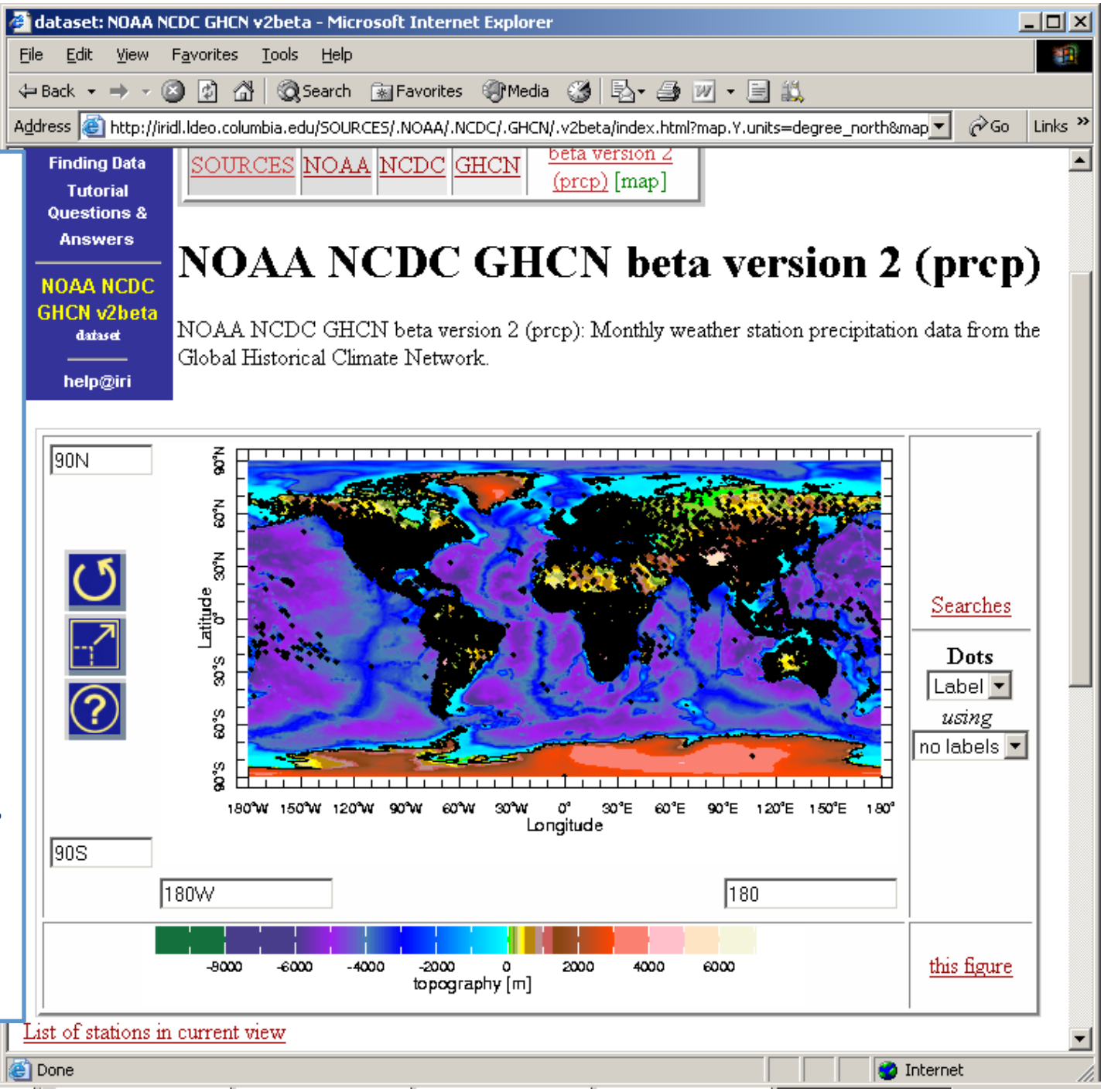
Internet

Opción 1: Seleccionar todas las estaciones en la mapa

Etapa 1. Haga clic y arrastre un rectángulo sobre el área que quiere (o manualmente ingrese las limites lat/lon y haga clic el botón de actualización).

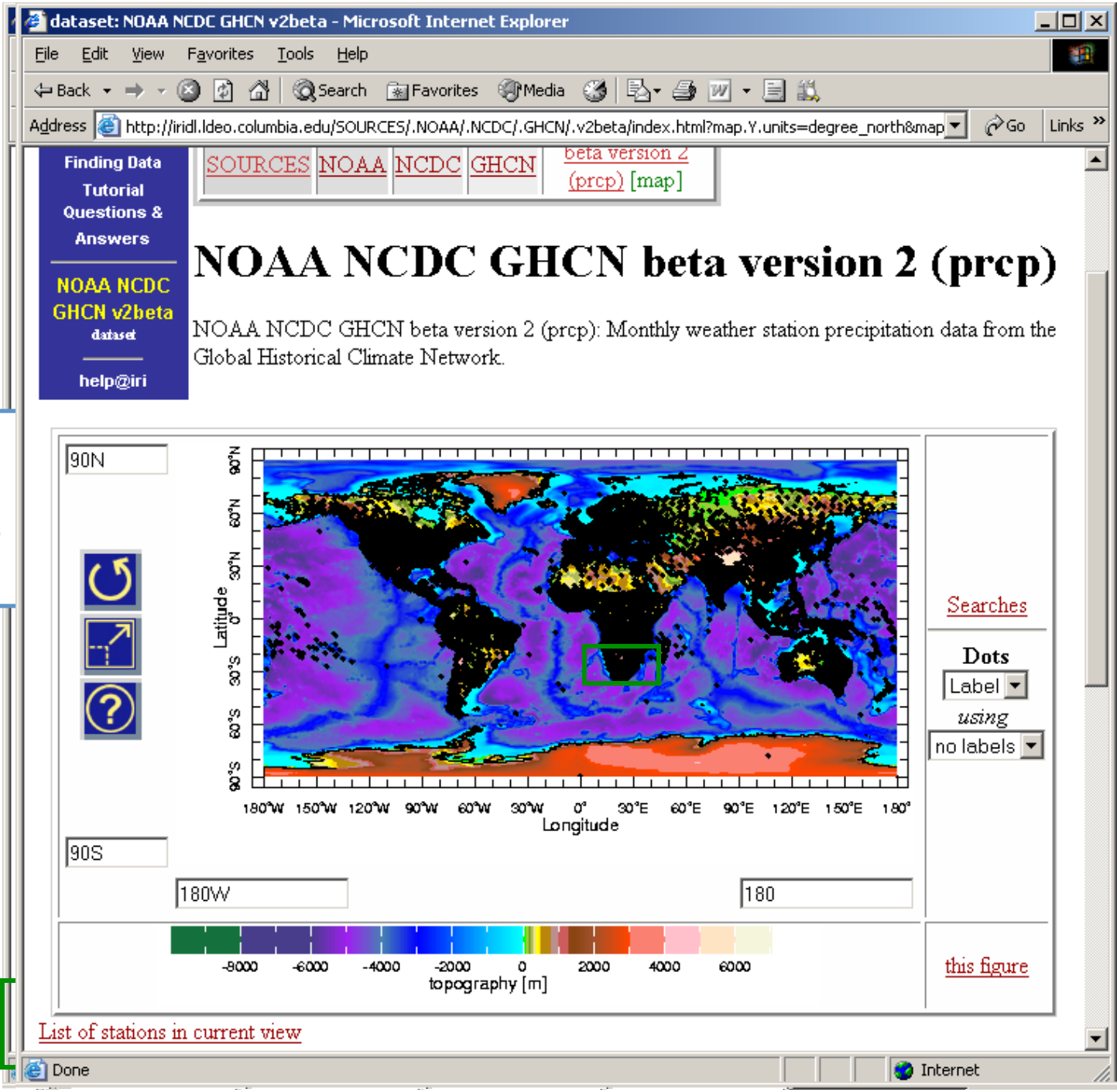
Etapa 2. Cuando tiene el área que quiere, haga clic el lazo **List of stations in current view.**

Etapa 3. Haga clic el lazo **Dataset (and map) with all data found in search**.



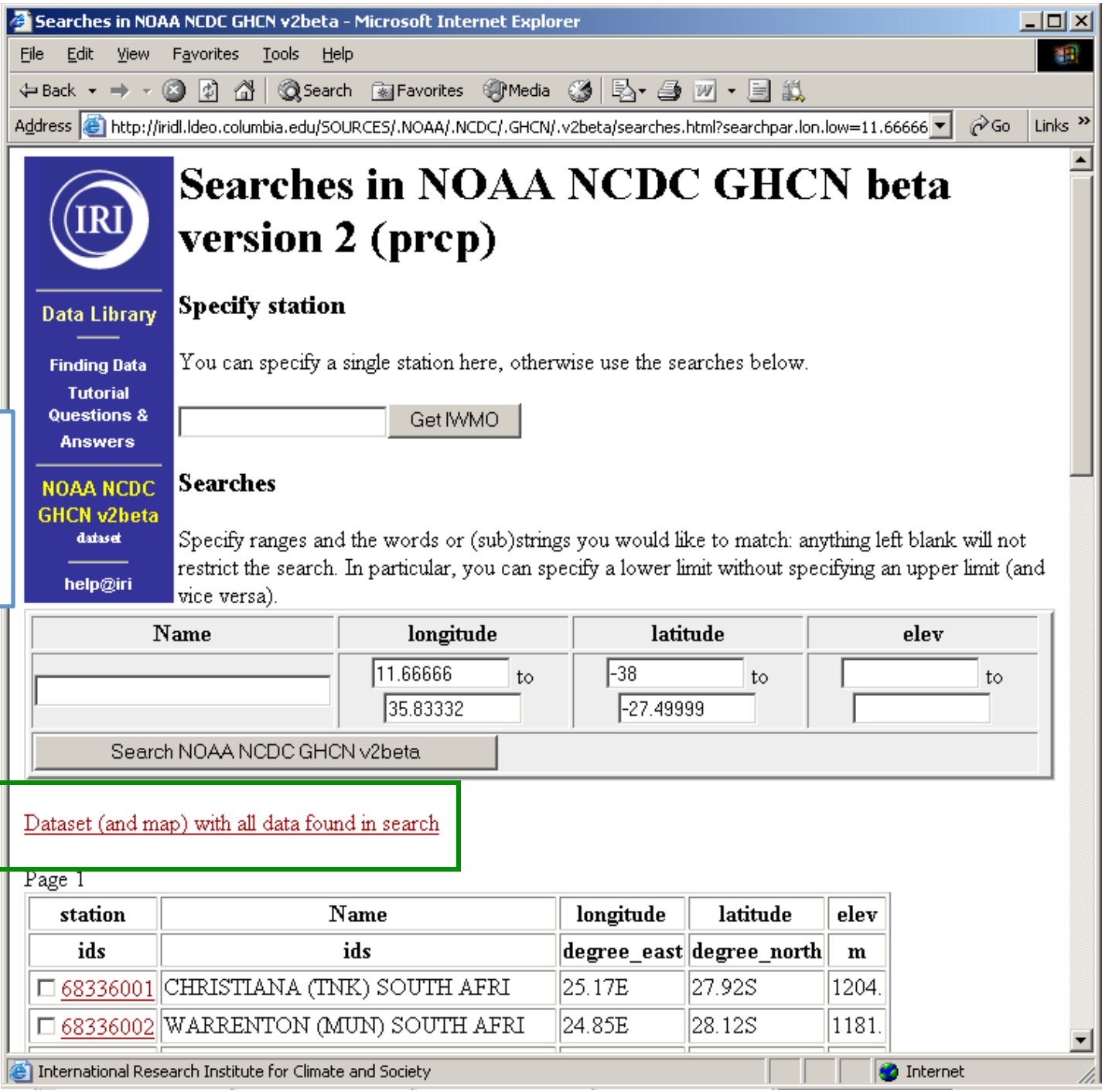
Ejemplo

Seleccionar estaciones en el sur del continente africano

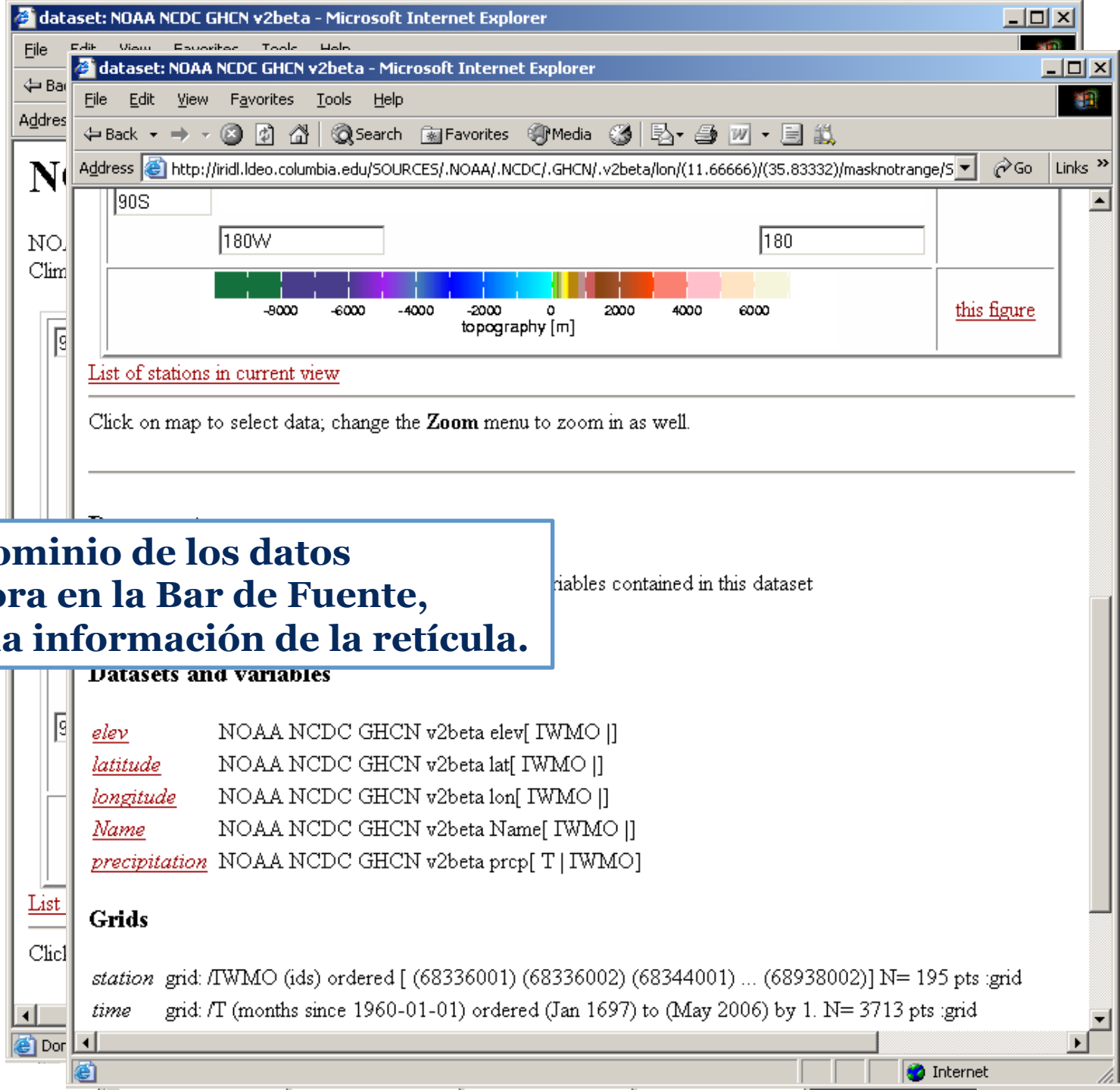


Ejemplo

Seleccionar estaciones en el sur del continente africano



Nota: El nuevo dominio de los datos está indicado ahora en la Bar de Fuente, en la mapa, y en la información de la retícula.



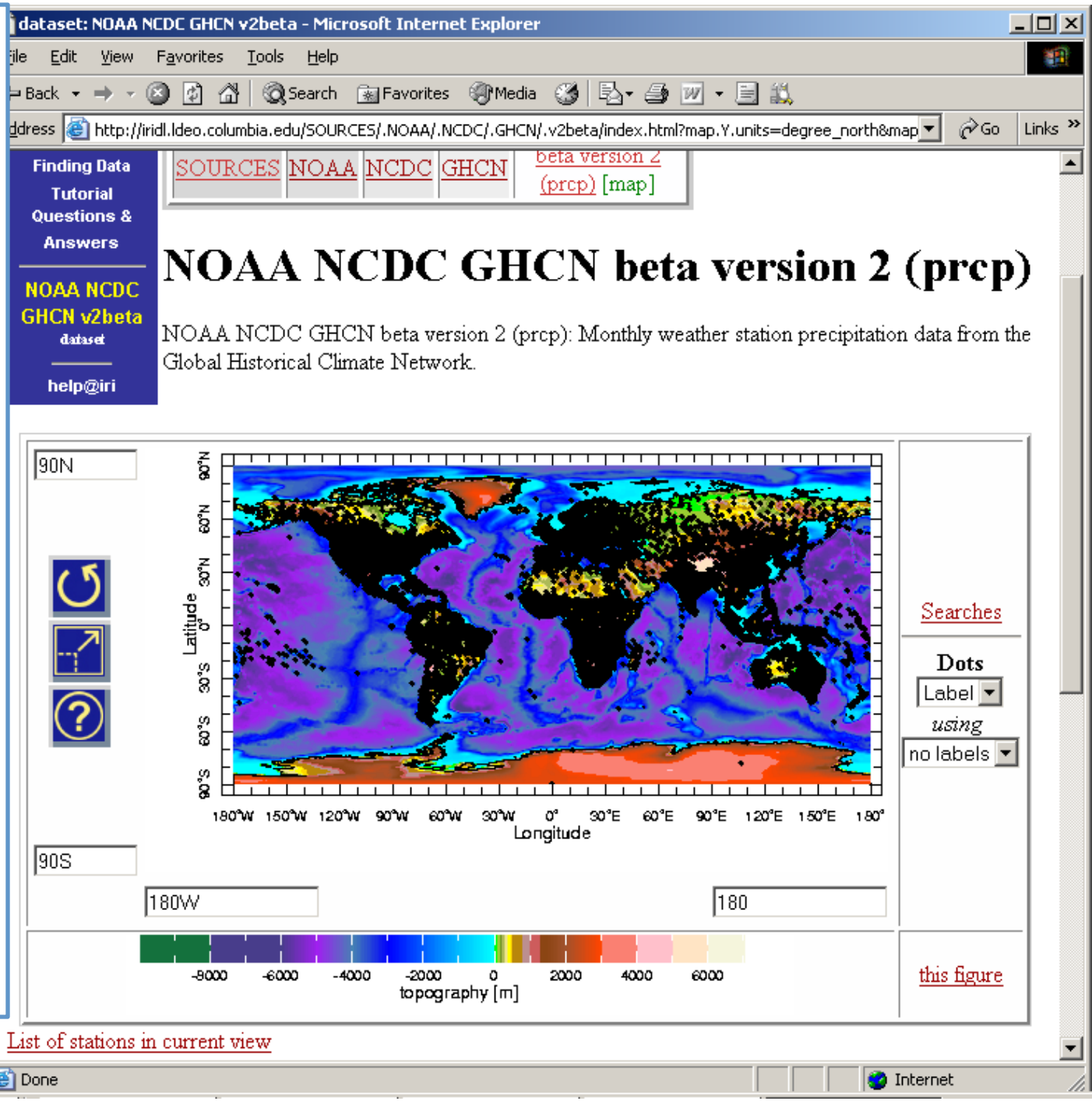
Opción 2: Buscar una estación

Etapa 1. Haga clic el lazo **Searches**.

Etapa 2. Ingrese la localización que quiere y haga clic el botón **Search *[Dataset Name]***.

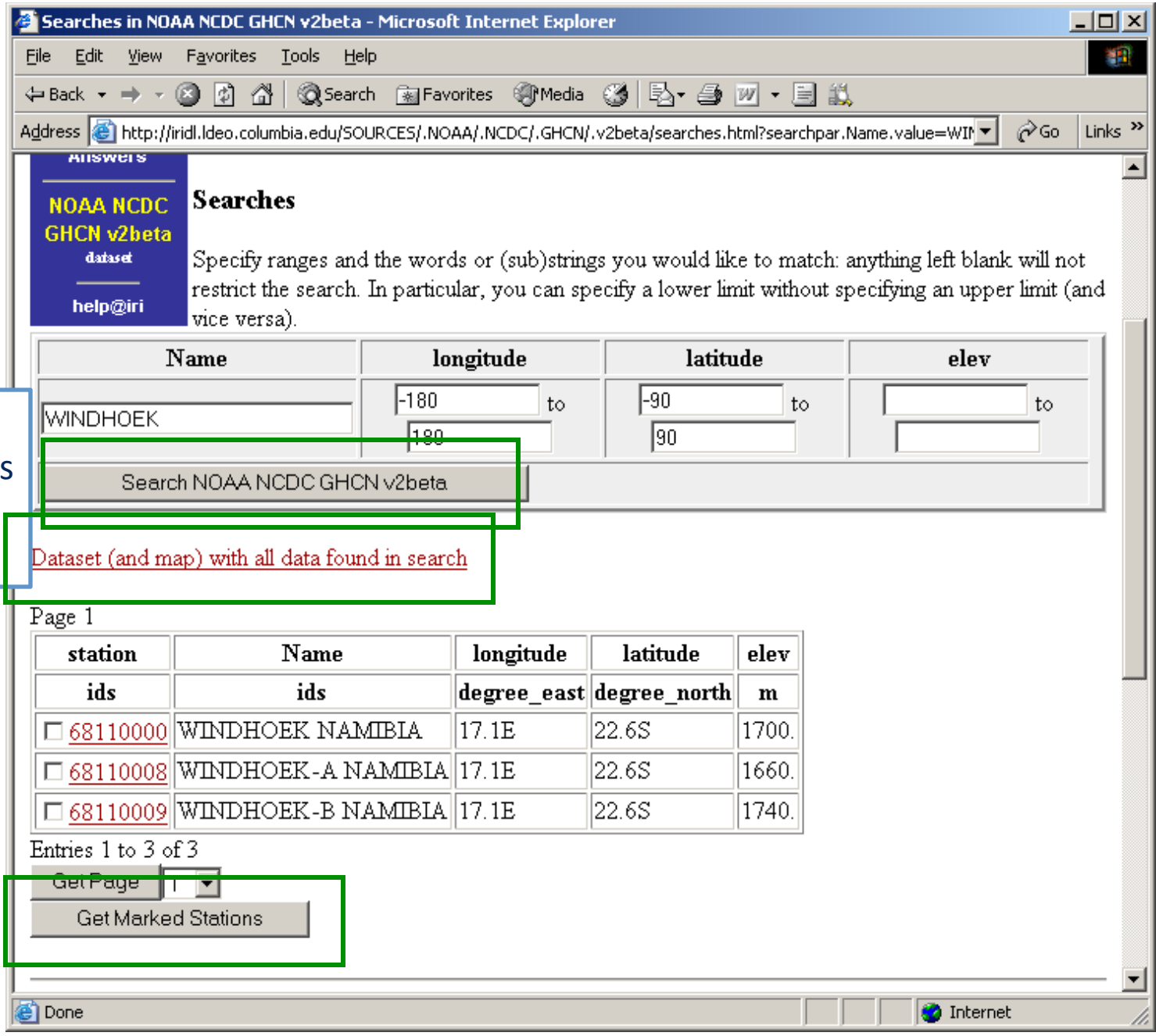
Etapa 3. Para seleccionar todas las estaciones que corresponden, haga clic el lazo **Dataset (and map) with all data found in search**.

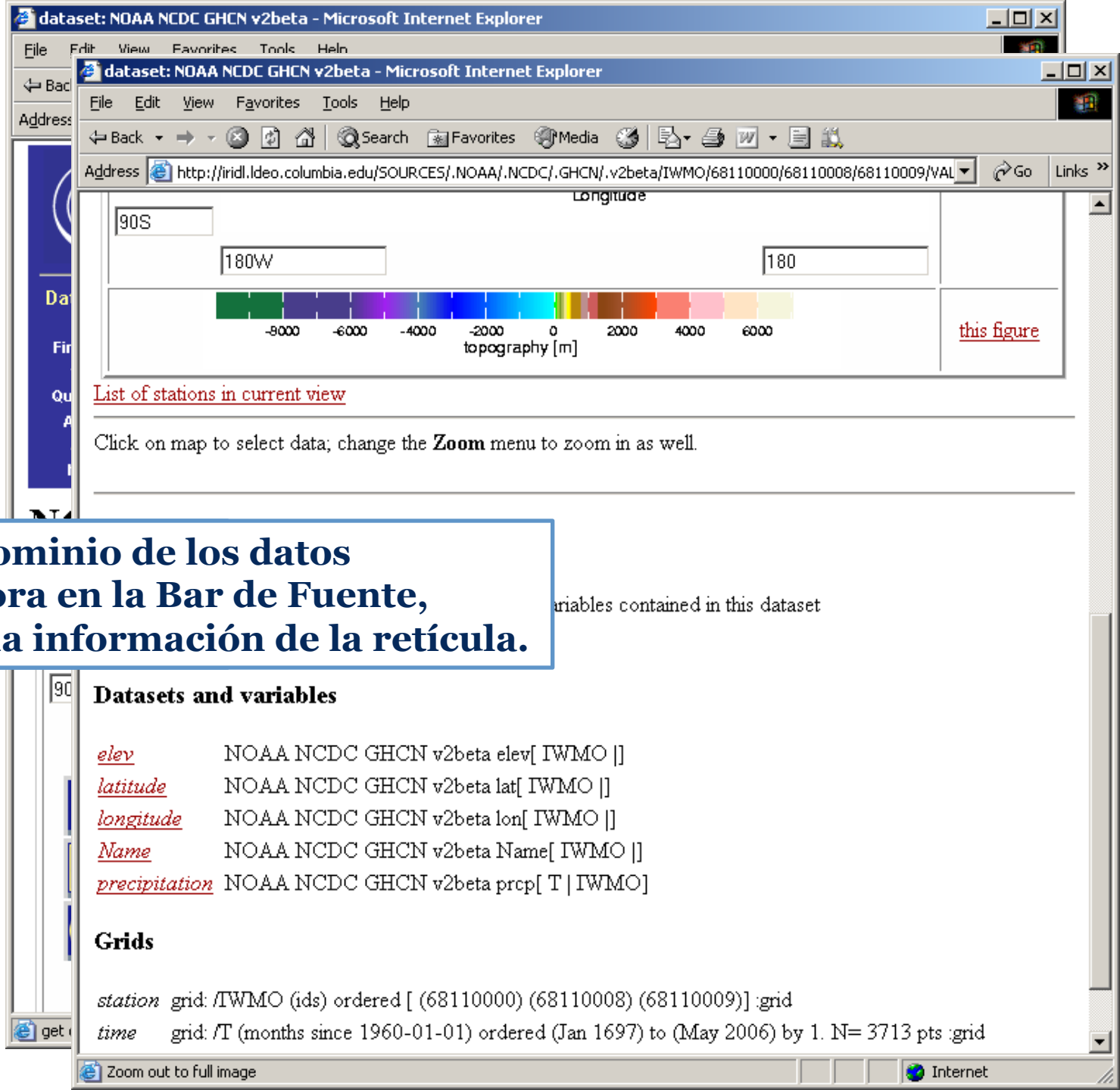
Para seleccionar una o mas de las estaciones que corresponden, selecciónelas y haga clic el botón **Get Marked Stations**.



Ejemplo

Seleccionar estaciones en Windhoek, Namibia





Nota: El nuevo dominio de los datos está indicado ahora en la Bar de Fuente, en la mapa, y en la información de la retícula.

Visualizar Datos:
Construir mapas y gráficos

NASA GPCP V1DD prcp: precipitation data

prcp prcp precipitation from NASA GPCP V1DD: 1-degree daily combination precipitation estimates.

Independent Variables (Grids)

Time
grid: /T (days since 1996-10-01 12:00:00) ordered (1 Oct 1996) to (31 Jan 1997) by 1. N= 123 pts :grid
Longitude
grid: /X (degree_east) periodic (0.5E) to (0.5W) by 1. N= 360 pts :grid
Latitude
grid: /Y (degree_north) ordered (59.5S) to (59.5N) by 1. N= 120 pts :grid

Other Info

bufferwordsize
4
datatype

views: NASA GPCP V1DD prcp 1 Oct 1996 - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Media

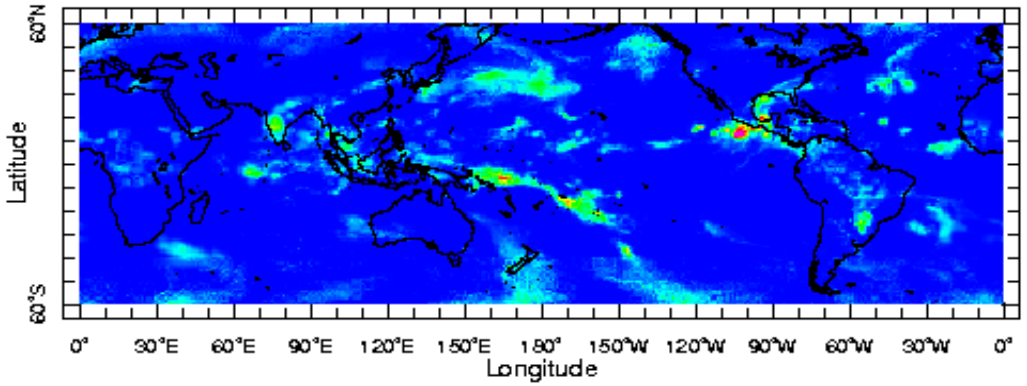
Address http://iridl.ldeo.columbia.edu/SOURCES/.NASA/.GPCP/.V1DD/.prcp/T/%281%20Oct%201996%29%2831%20J

Go Links

IRI	Data Library	NASA GPCP V1DD precipitation	0 - 0	60S - 60N	Oct 1996 - Jan 1997	Longitude/Latitude

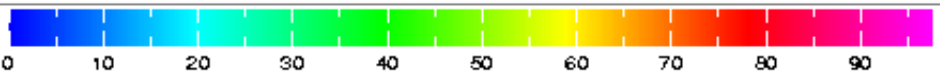
Time: 1 Oct 1996 2 Oct 1996

60N



60S 1 Oct 1996

0 0



0.0 97.62288

Longitude Latitude draw coasts colors

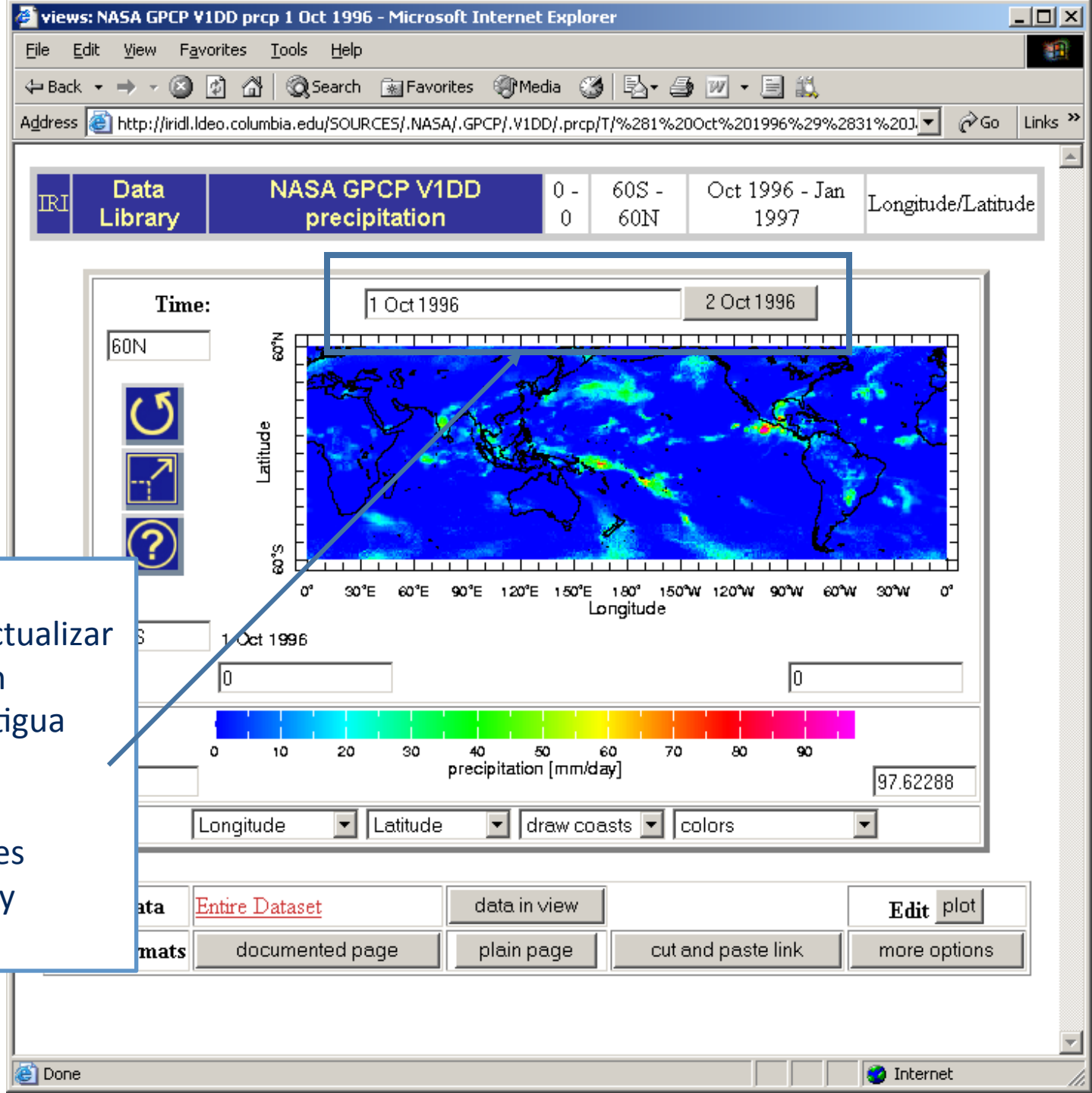
Get Data	Entire Dataset	data in view		Edit plot
Page Formats	documented page	plain page	cut and paste link	more options

Actualizar →

Dominio entero →

Ayuda →

Done Internet



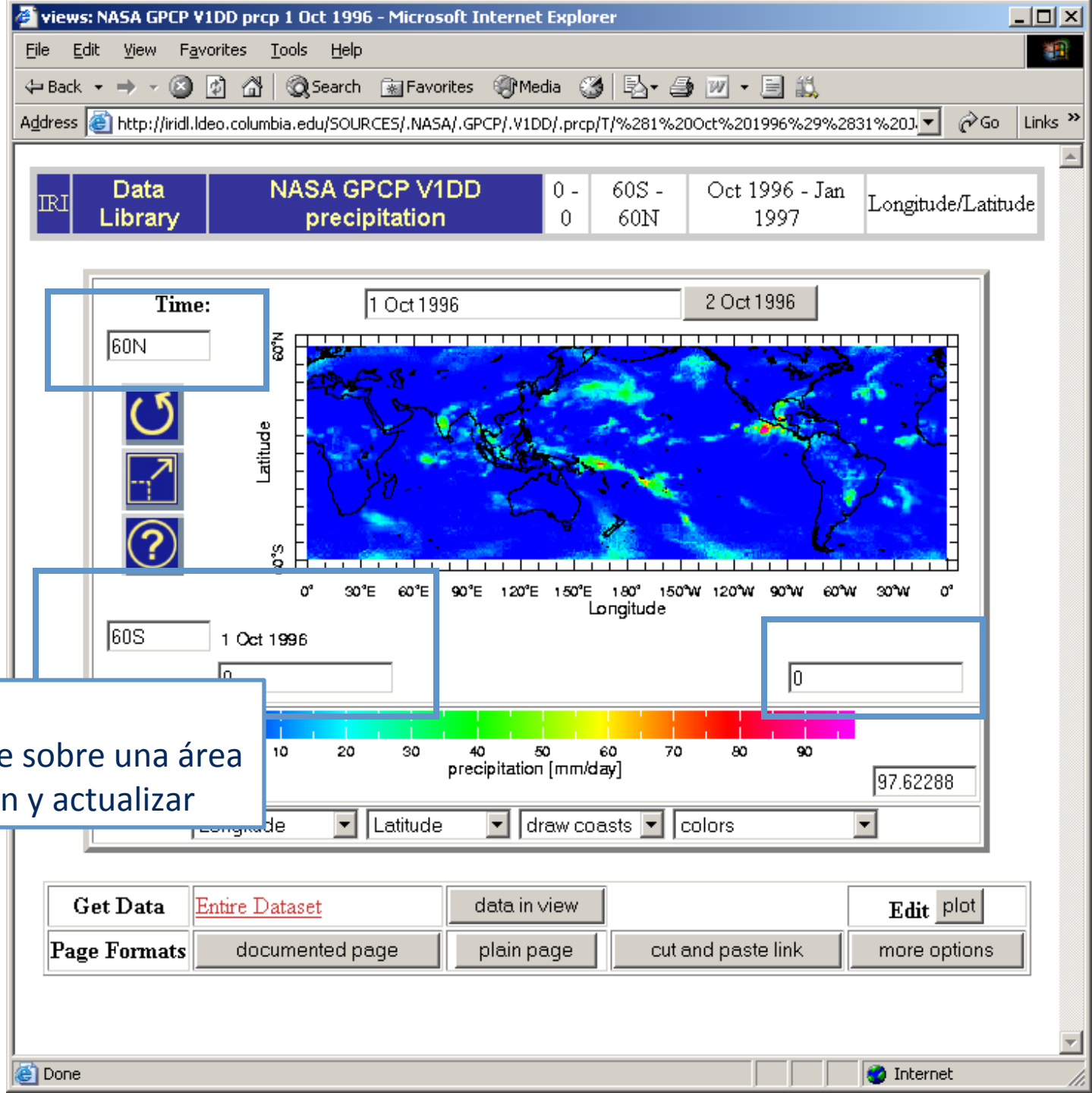
Cambiar Tiempo

-Cambiar el texto y actualizar

-Seleccionar un botón con una fecha contigua

Hacer una Animación

-Ingresar fechas limites (fecha1 “to”fecha2) y actualizar



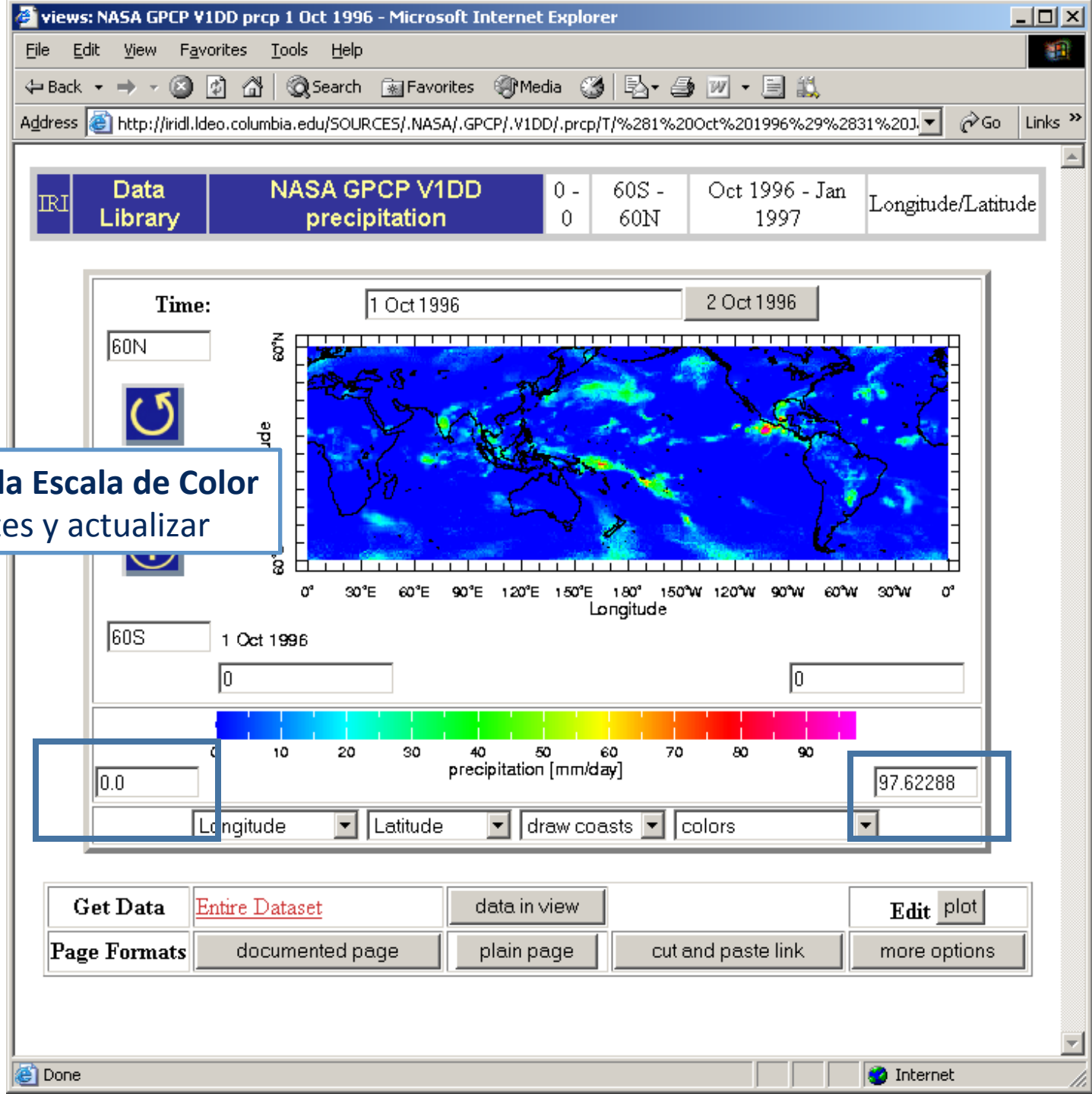
Cambiar Región

-Haga clic and arrastre sobre una área

-Cambie limites lat/lon y actualizar

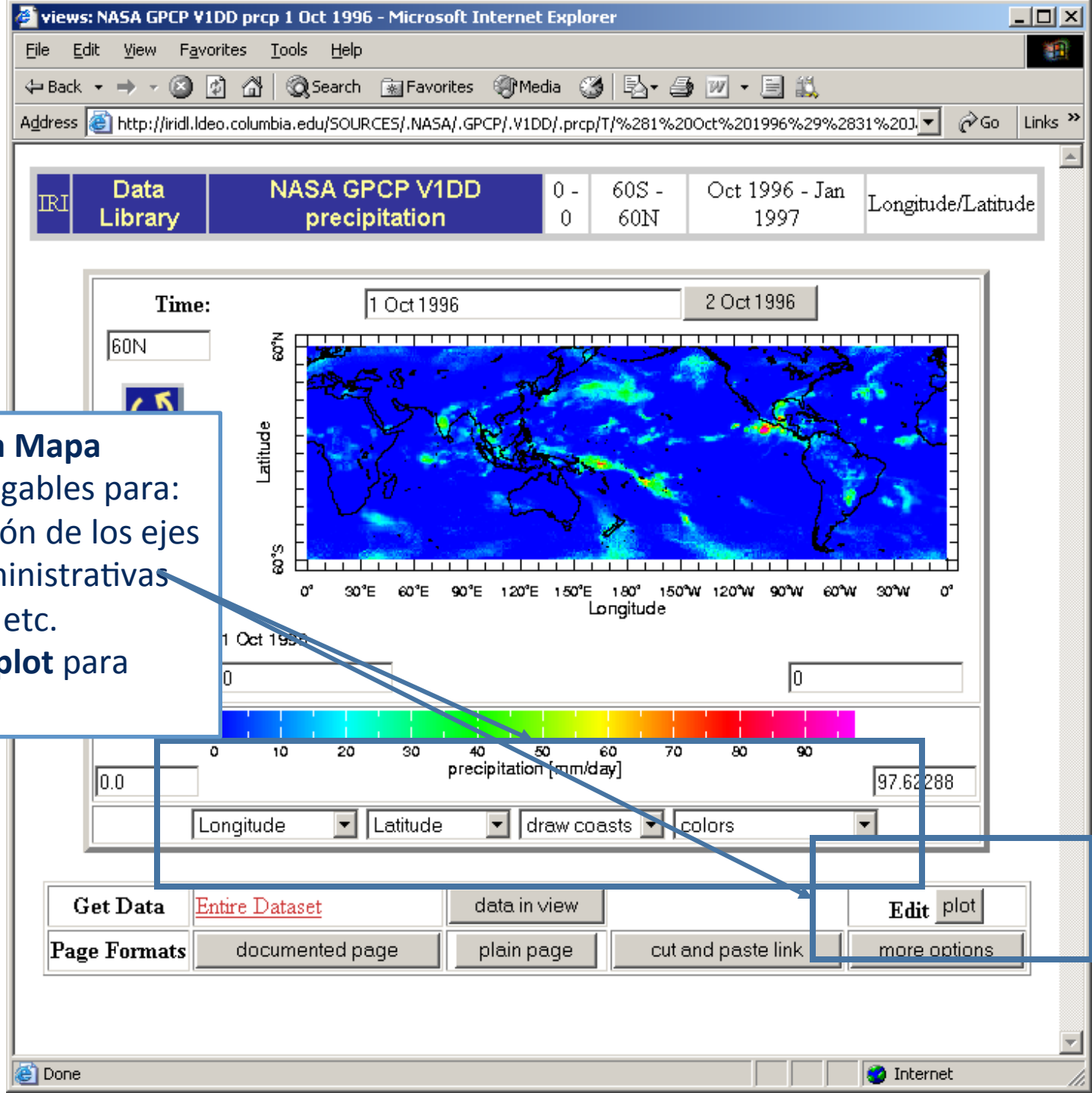
Cambiar las Limites de la Escala de Color

-Ingresar nuevas limites y actualizar



Cambiar Opciones de la Mapa

- -Utilice menús desplegables para:
  - -Cambiar la selección de los ejes
  - -Trazar limites administrativas
  - -Trazar contornos, etc.
- -Utilice el botón Edit **plot** para añadir más opciones



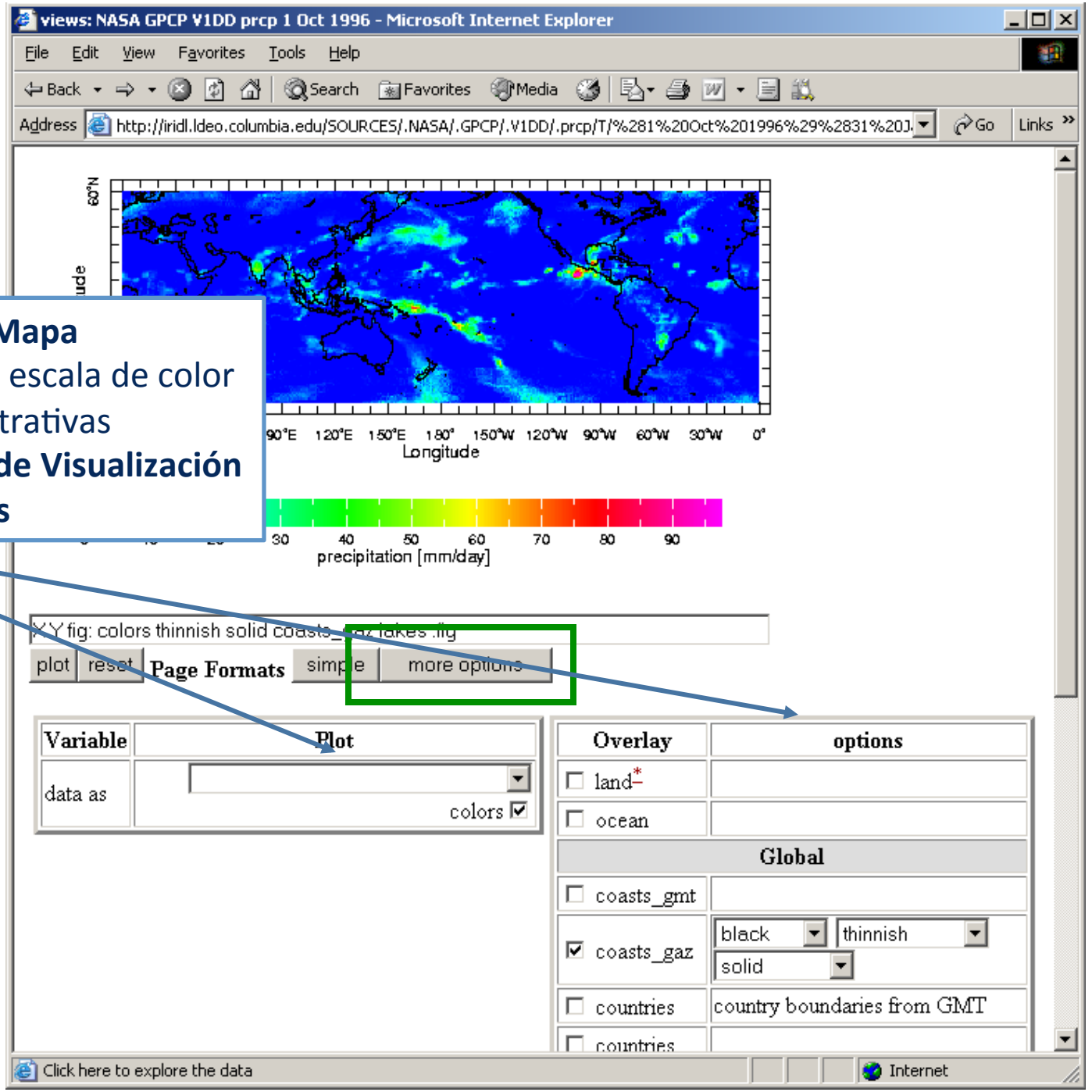
Cambiar Opciones de la Mapa

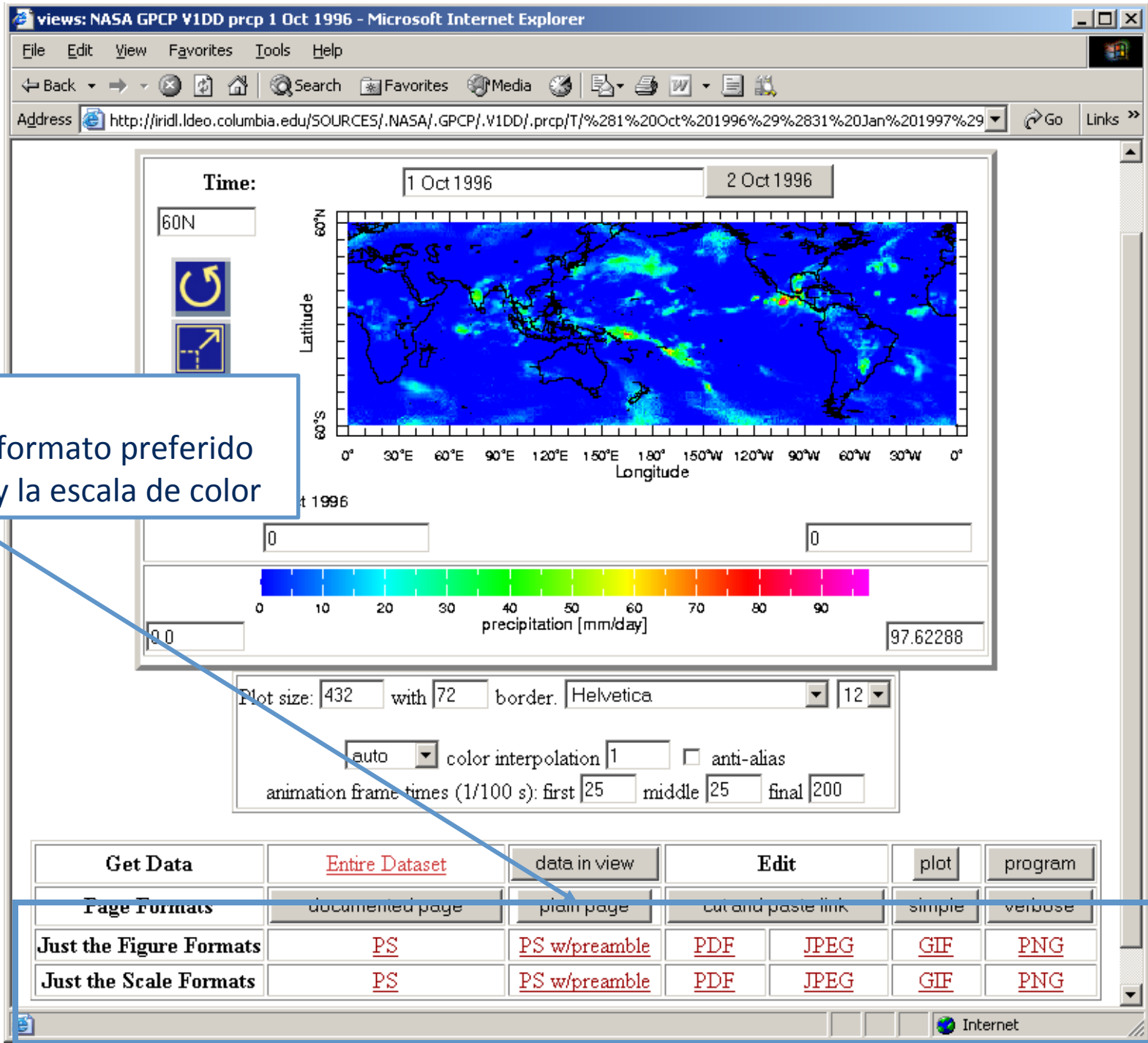
-Seleccionar una nueva escala de color

-Añadir limites administrativas

Volver a la Herramienta de Visualización

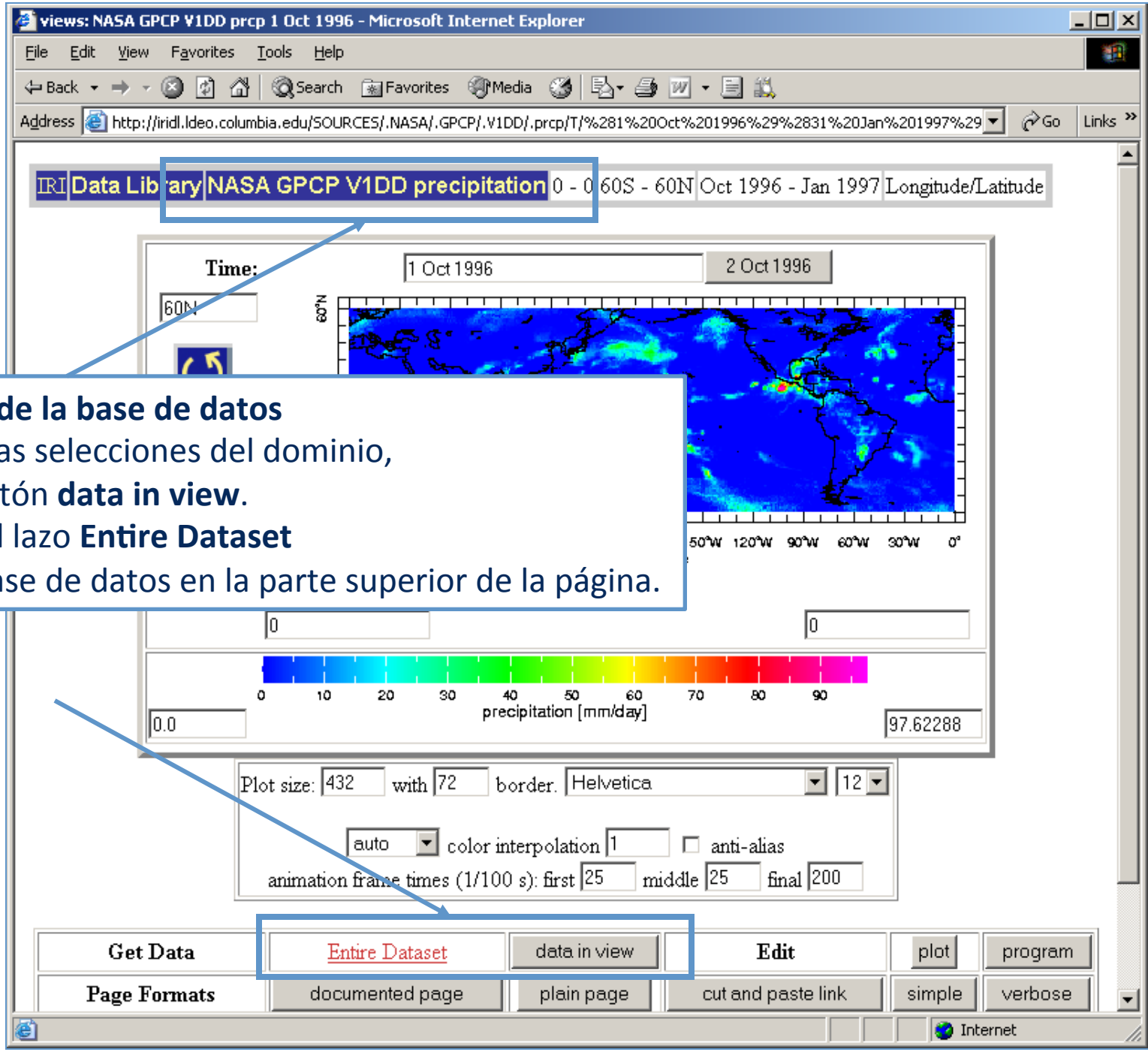
-Haga clic **more options**





Bajar la mapa

-Seleccione el formato preferido para la mapa y la escala de color

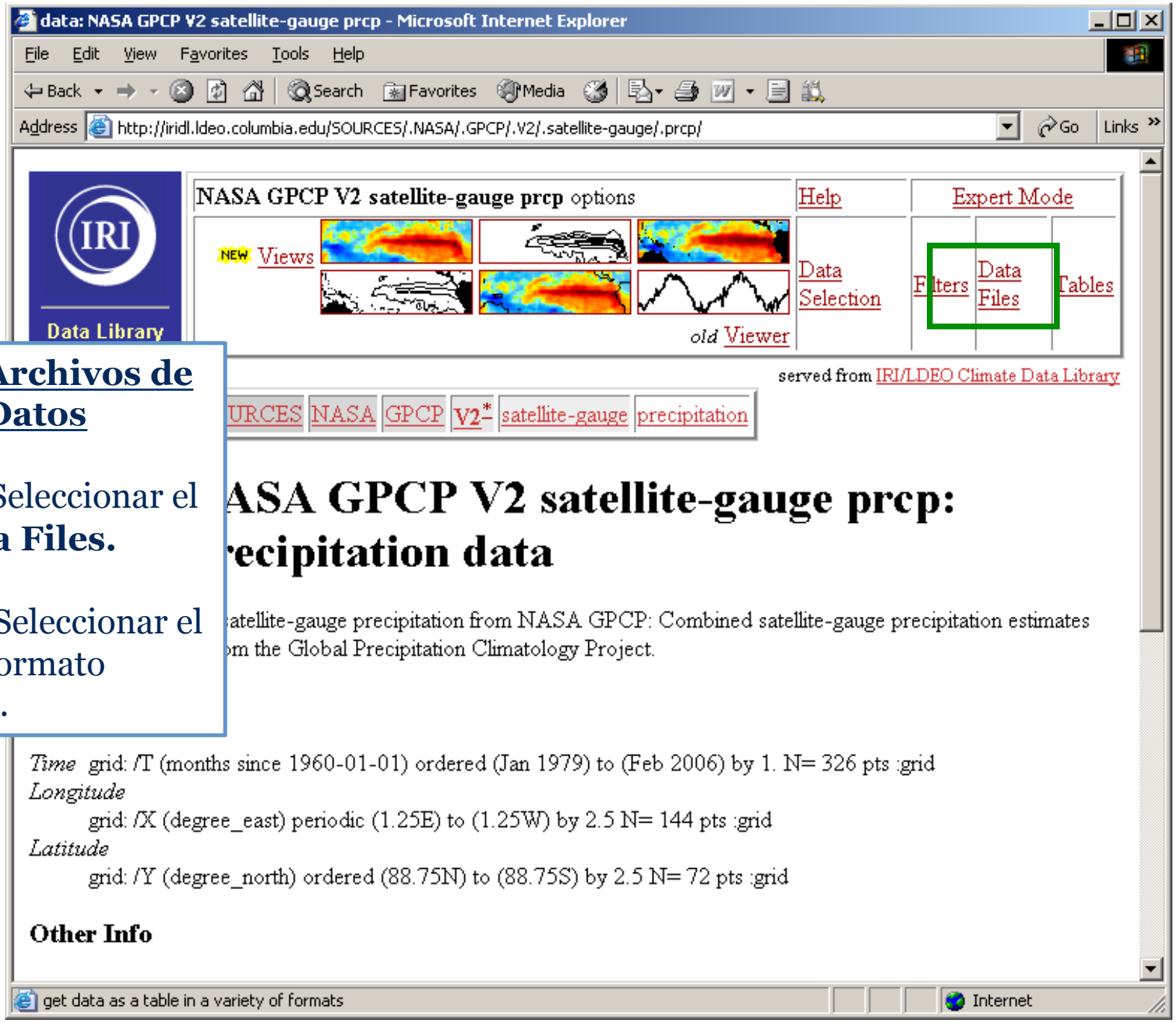


Volver a la página de la base de datos

-Para preservar las selecciones del dominio,
haga clic el botón **data in view**.

-Sino, haga clic el lazo **Entire Dataset**
o el lazo de la base de datos en la parte superior de la página.

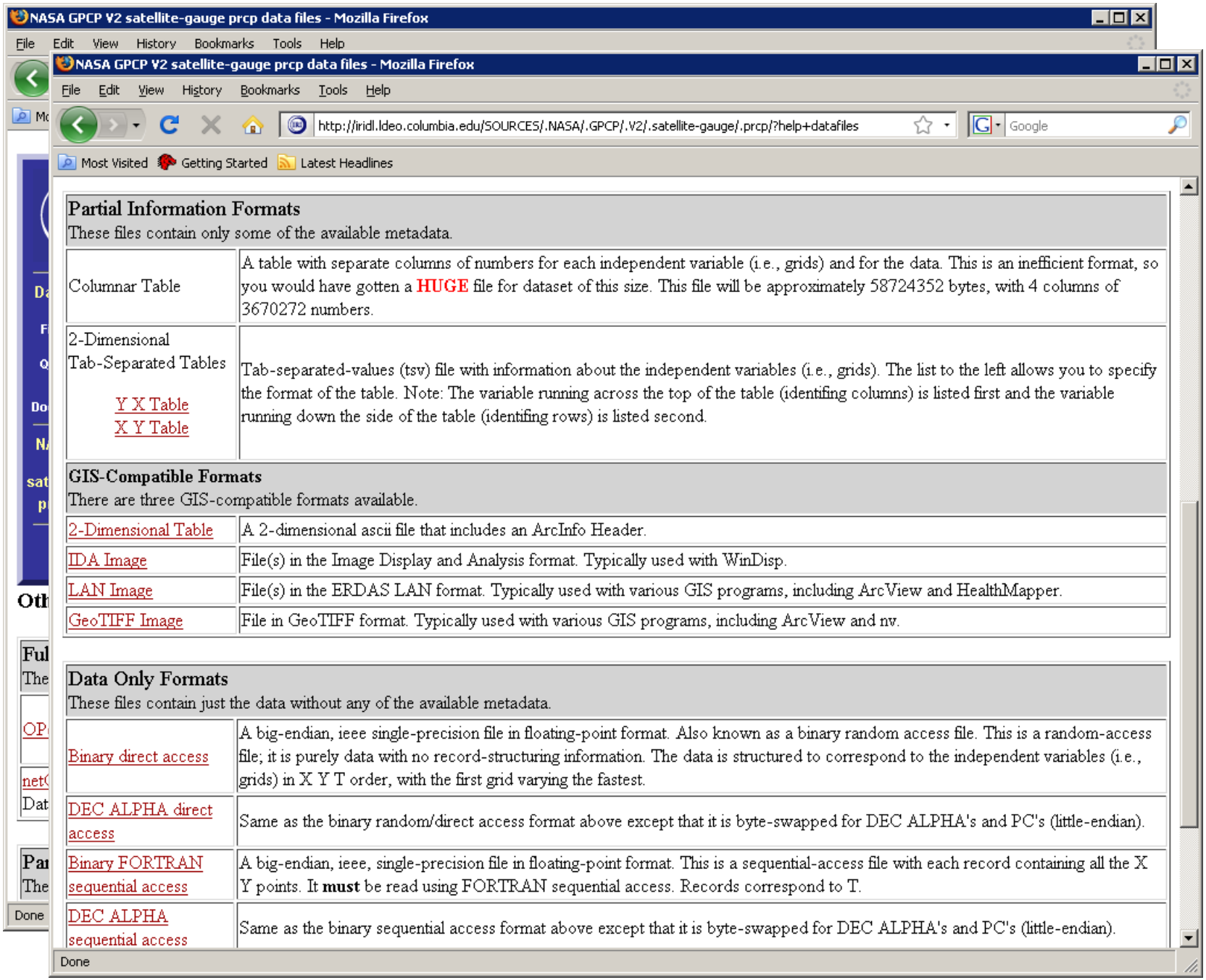
Bajar Archivos de Datos

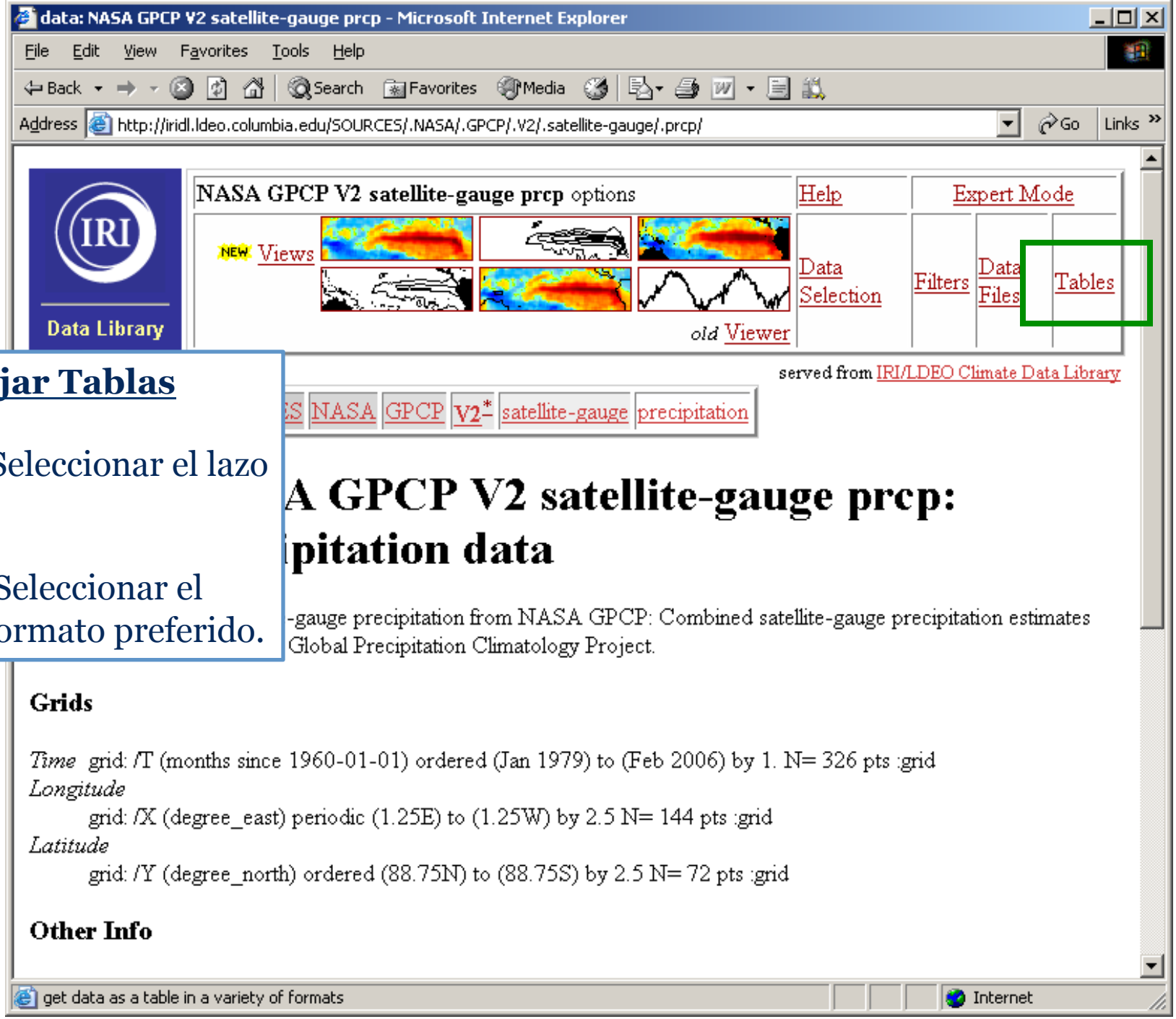


Bajar Archivos de Datos

Etapa 1. Seleccionar el lazo **Data Files.**

Etapa 2. Seleccionar el lazo del formato preferido.

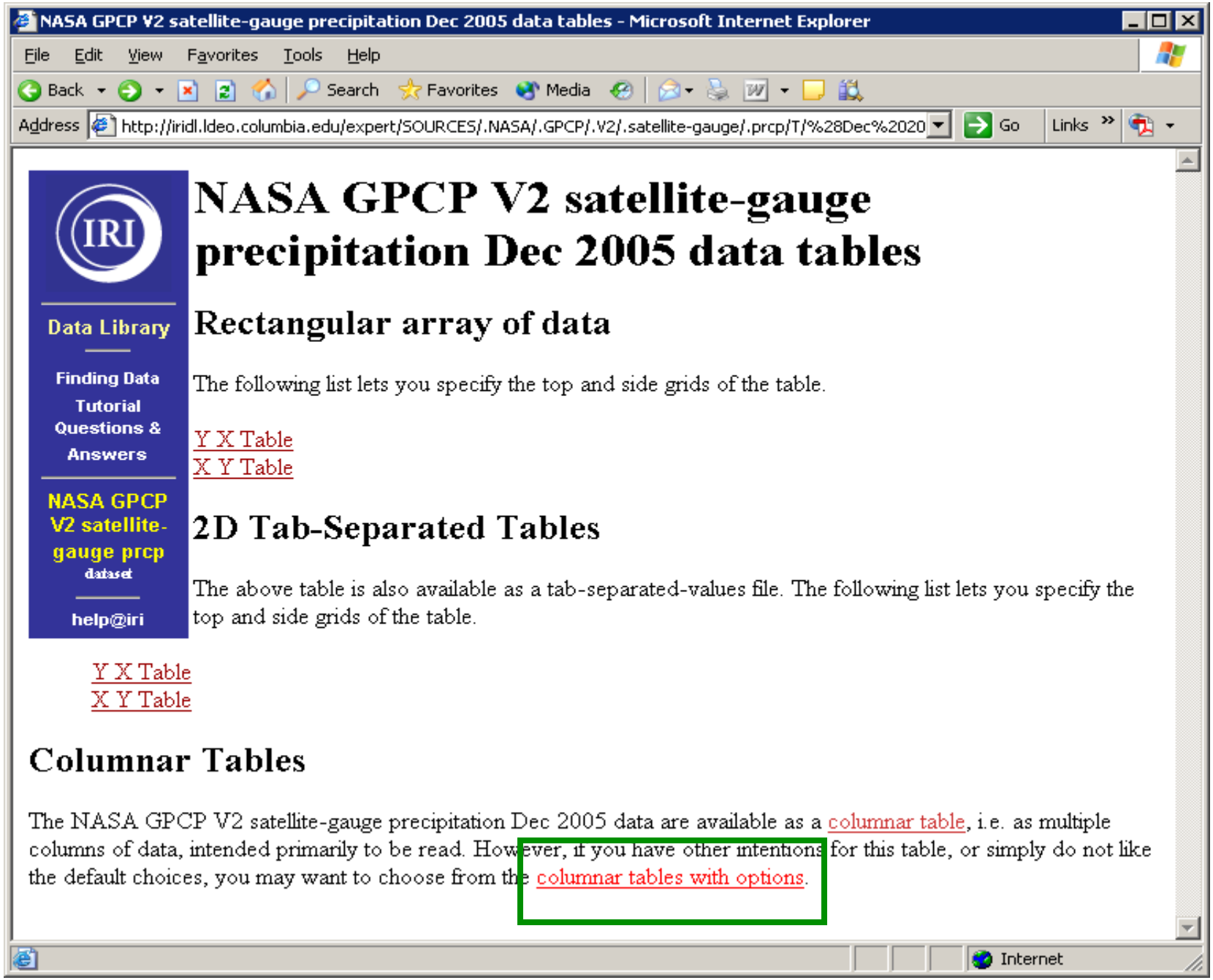

NASA GPCP V2 satellite-gauge prcp data files - Mozilla Firefox
File Edit View History Bookmarks Tools Help
NASA GPCP V2 satellite-gauge prcp data files - Mozilla Firefox
File Edit View History Bookmarks Tools Help
http://iridl.ldeo.columbia.edu/SOURCES/.NASA/.GPCP/.V2/.satellite-gauge/.prcp/?help+datafiles
Google
Most Visited Getting Started Latest Headlines
Partial Information Formats
These files contain only some of the available metadata.
Columnar Table
A table with separate columns of numbers for each independent variable (i.e., grids) and for the data. This is an inefficient format, so you would have gotten a HUGE file for dataset of this size. This file will be approximately 58724352 bytes, with 4 columns of 3670272 numbers.
2-Dimensional Tab-Separated Tables
Y X Table
X Y Table
Tab-separated-values (tsv) file with information about the independent variables (i.e., grids). The list to the left allows you to specify the format of the table. Note: The variable running across the top of the table (identifing columns) is listed first and the variable running down the side of the table (identifing rows) is listed second.
GIS-Compatible Formats
There are three GIS-compatible formats available.
2-Dimensional Table
A 2-dimensional ascii file that includes an ArcInfo Header.
IDA Image
File(s) in the Image Display and Analysis format. Typically used with WinDisp.
LAN Image
File(s) in the ERDAS LAN format. Typically used with various GIS programs, including ArcView and HealthMapper.
GeoTIFF Image
File in GeoTIFF format. Typically used with various GIS programs, including ArcView and nv.
Data Only Formats
These files contain just the data without any of the available metadata.
Binary direct access
A big-endian, ieee single-precision file in floating-point format. Also known as a binary random access file. This is a random-access file; it is purely data with no record-structuring information. The data is structured to correspond to the independent variables (i.e., grids) in X Y T order, with the first grid varying the fastest.
DEC ALPHA direct access
Same as the binary random/direct access format above except that it is byte-swapped for DEC ALPHA's and PC's (little-endian).
Binary FORTRAN sequential access
A big-endian, ieee, single-precision file in floating-point format. This is a sequential-access file with each record containing all the X Y points. It must be read using FORTRAN sequential access. Records correspond to T.
DEC ALPHA sequential access
Same as the binary sequential access format above except that it is byte-swapped for DEC ALPHA's and PC's (little-endian).
Done

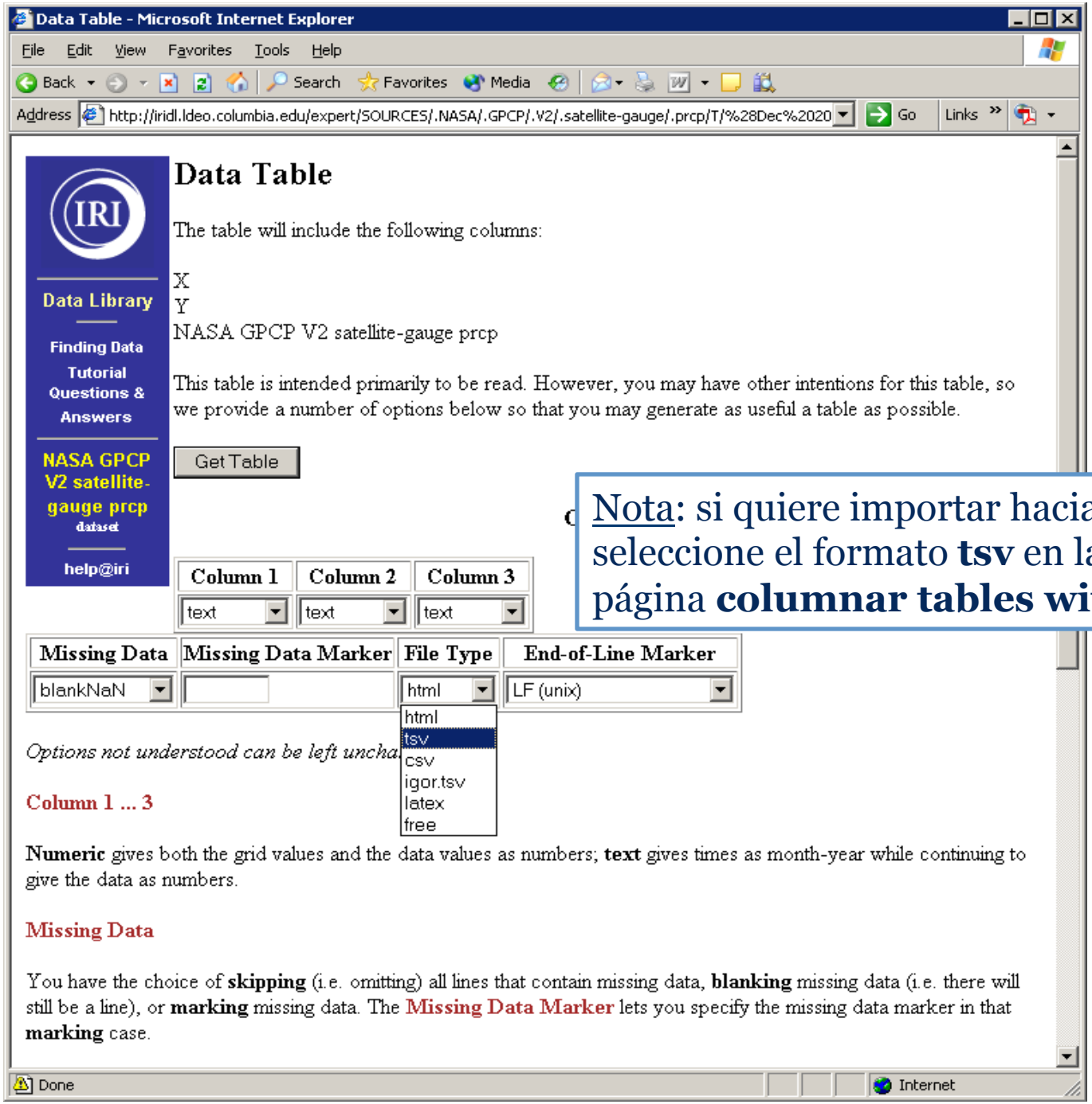


Bajar Tablas

Etapa 1. Seleccionar el lazo **Tables**.

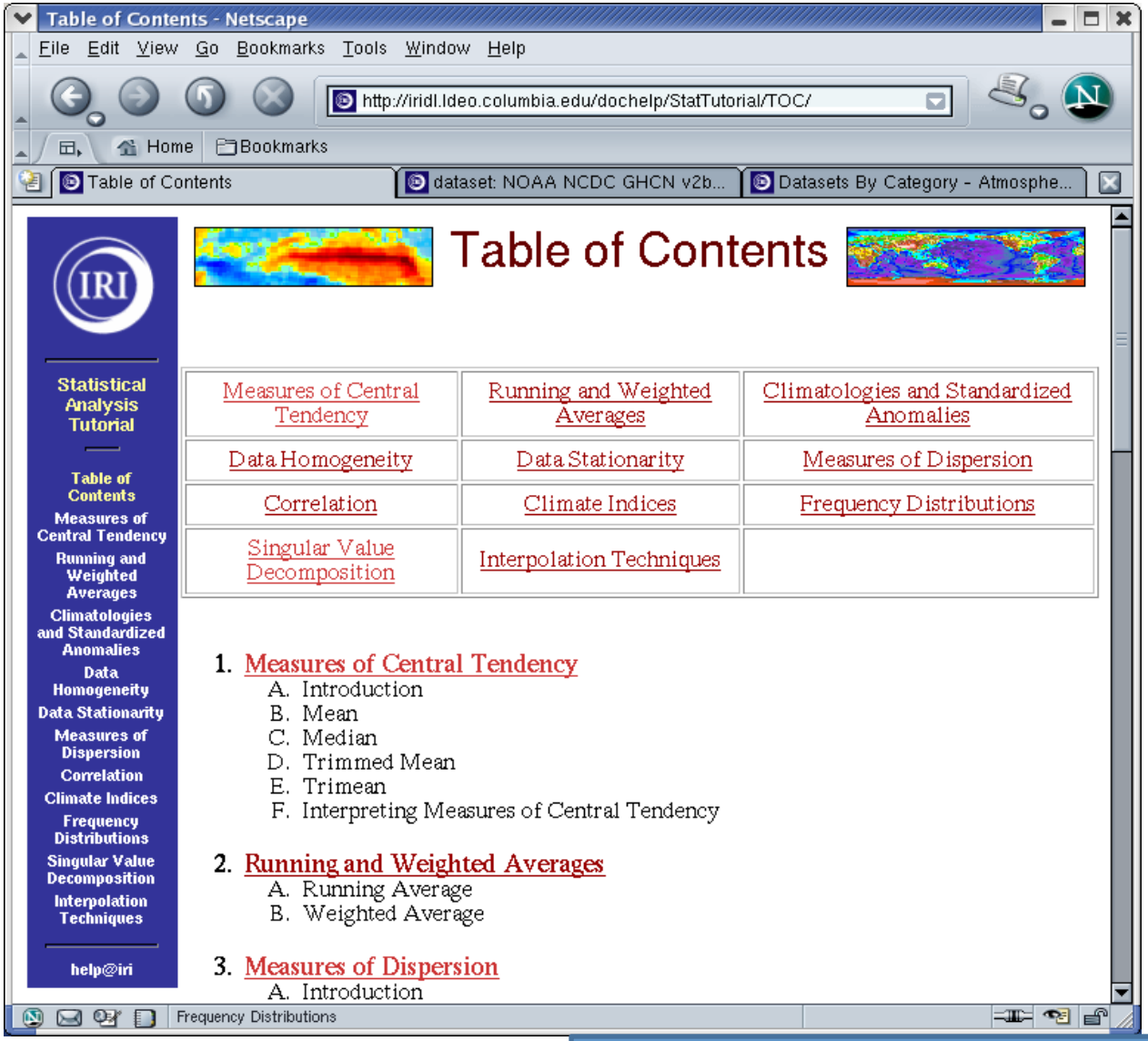
Etapa 2. Seleccionar el lazo del formato preferido.


NASA GPCP V2 satellite-gauge precipitation Dec 2005 data tables - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://iridl.ldeo.columbia.edu/expert/SOURCES/.NASA/.GPCP/.V2/.satellite-gauge/.prcp/T/%28Dec%2020
Go Links
IRI
Data Library
Finding Data
Tutorial
Questions & Answers
NASA GPCP V2 satellite-gauge prcp dataset
help@iri
NASA GPCP V2 satellite-gauge precipitation Dec 2005 data tables
Rectangular array of data
The following list lets you specify the top and side grids of the table.
Y X Table
X Y Table
2D Tab-Separated Tables
The above table is also available as a tab-separated-values file. The following list lets you specify the top and side grids of the table.
Y X Table
X Y Table
Columnar Tables
The NASA GPCP V2 satellite-gauge precipitation Dec 2005 data are available as a columnar table, i.e. as multiple columns of data, intended primarily to be read. However, if you have other intentions for this table, or simply do not like the default choices, you may want to choose from the columnar tables with options.
Internet



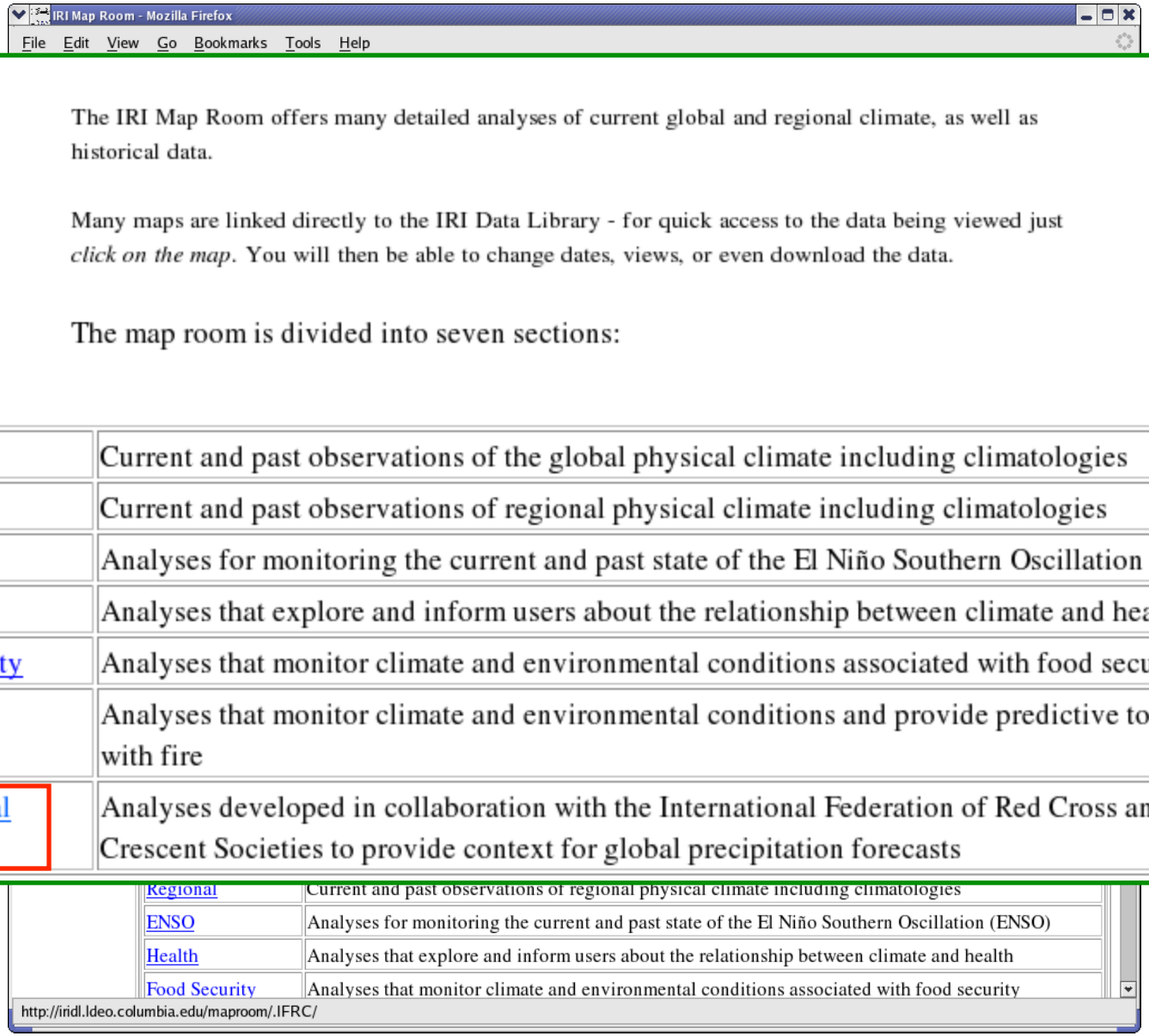
Nota: si quiere importar hacia Excel, seleccione el formato **tsv** en la página **columnar tables with options**

Opciones de Análisis...

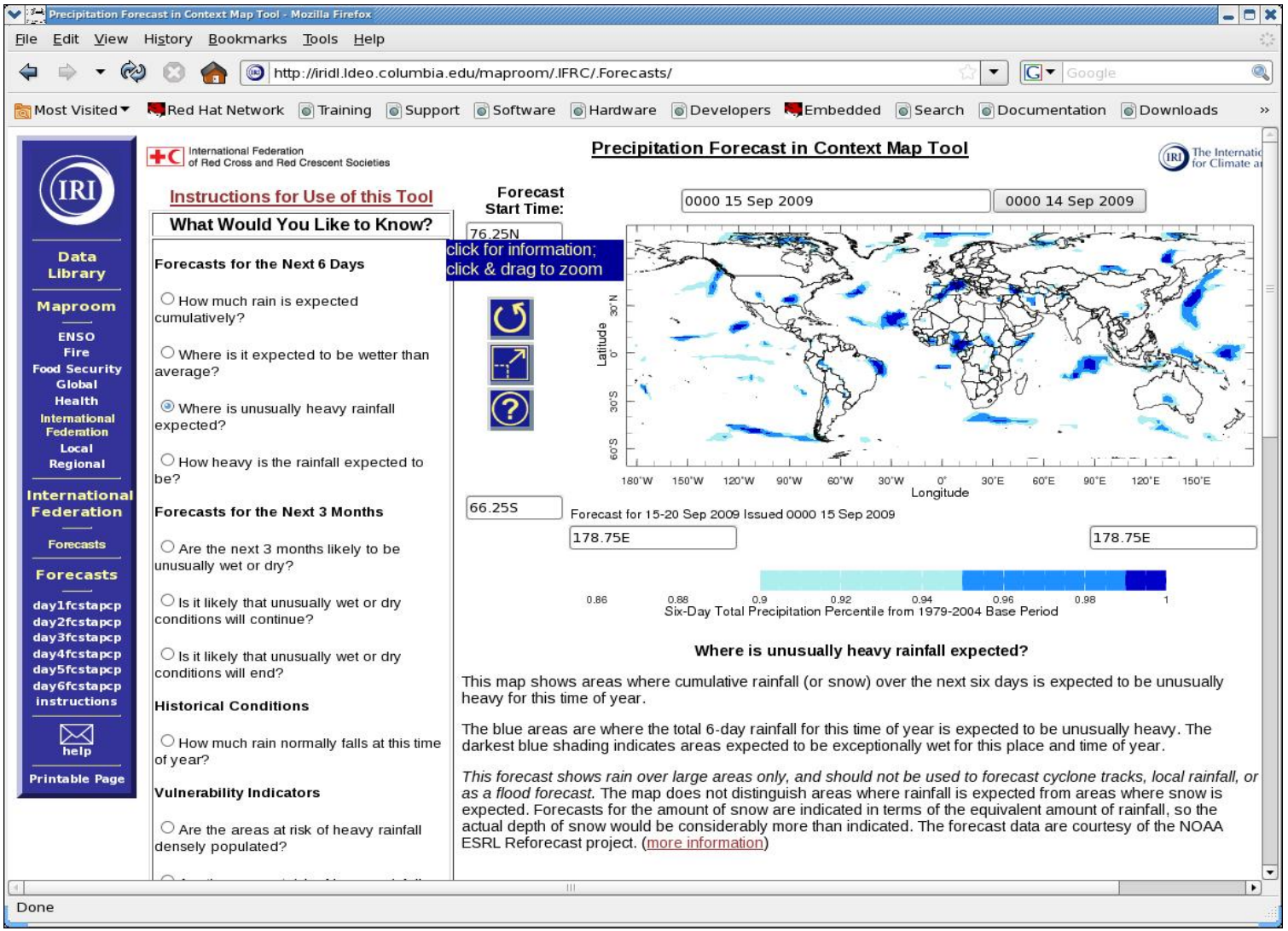


http://iridl.ldeo.columbia.edu/dochelp/StatTutorial/

Map Room del IRI

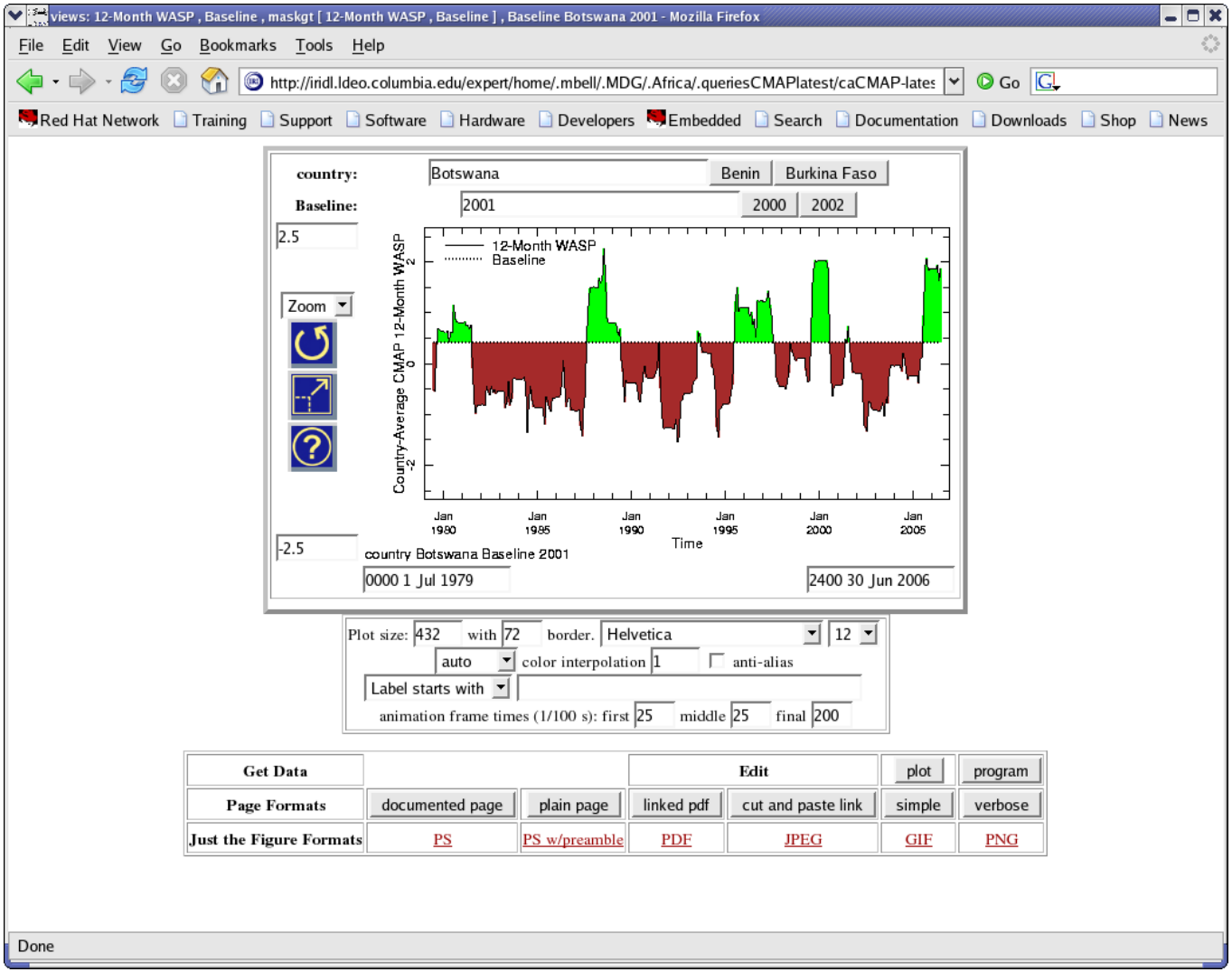


Información Climática en Contexto



http://iridl.ldeo.columbia.edu/maproom/.IFRC/.Forecasts/

Información Climática en Contexto



http://iri.columbia.edu/~mbell/MDG/

Avanzar Solo

- Consejo: Marque como favorito los análisis que pudiera utilizar de nuevo

- Que hacer cuando tiene alguna duda:

1. Buscar ejemplos similares en los Tutoriales o las Documentaciones

2. Enviar un e-mail** a help@iri.columbia.edu

** Copie el url de la página problemática en el correo

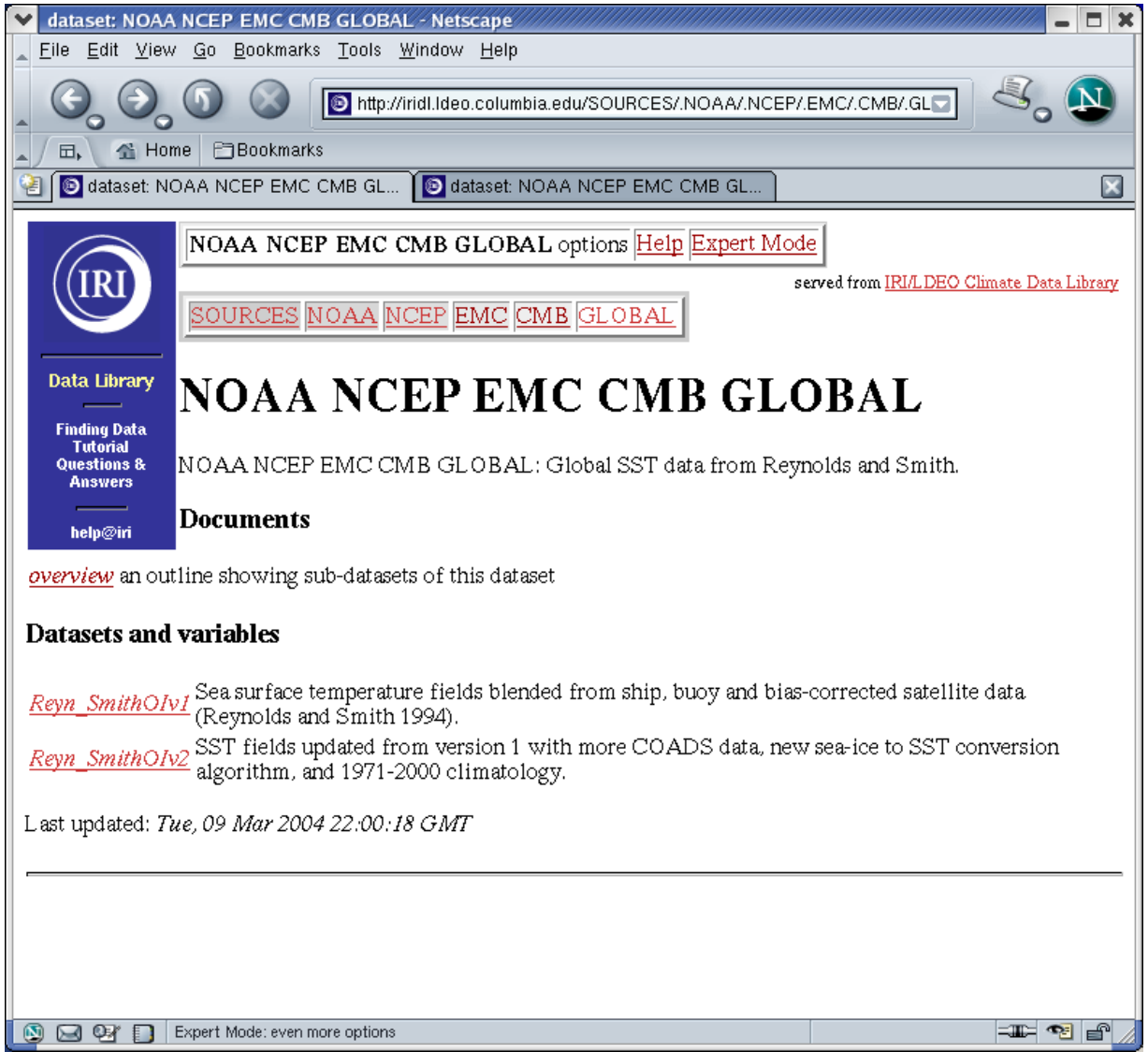
Ejercicios

1. Selección del dominio (espacial y temporal)
2. Buscar Datos
3. Calcular…
4. Climatologías
5. Construir mapas/gráficos
6. Bajar datos en el formato GeoTIFF

Ejercicio Grupo 1

- Utilice el catálogo Datasets by Category para localizar una base de datos con las características siguientes:
    1. Tiene observaciones de temperatura superficial del mar
    2. Resolución temporal mensual
    3. Resolución espacial de 1ºx1º a lo menos
    4. Incluye 60ºS-60ºN en el dominio espacial
    5. Incluye 1985-2005 en el dominio temporal

Ejercicio Grupo 1: Resultado

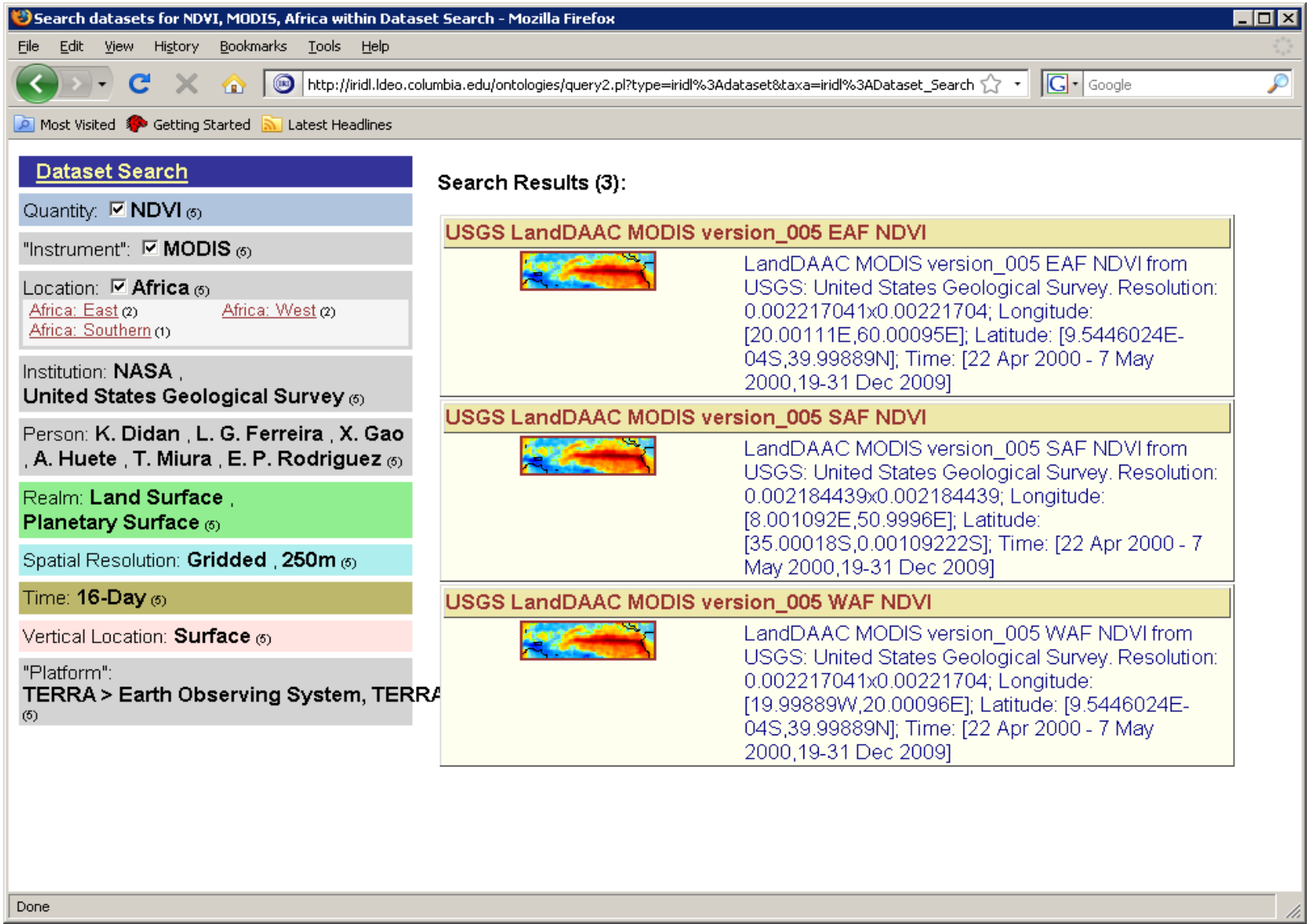


Ejercicio Grupo 2

Utilice la interfaz Browse/Search Datasets para localizar todas las bases de datos que tienen las características siguientes:

1. Incluyen una variable NDVI
2. Incluyen datos del instrumento MODIS
3. Incluyen datos de África

Ejercicio Grupo 2: Resultados

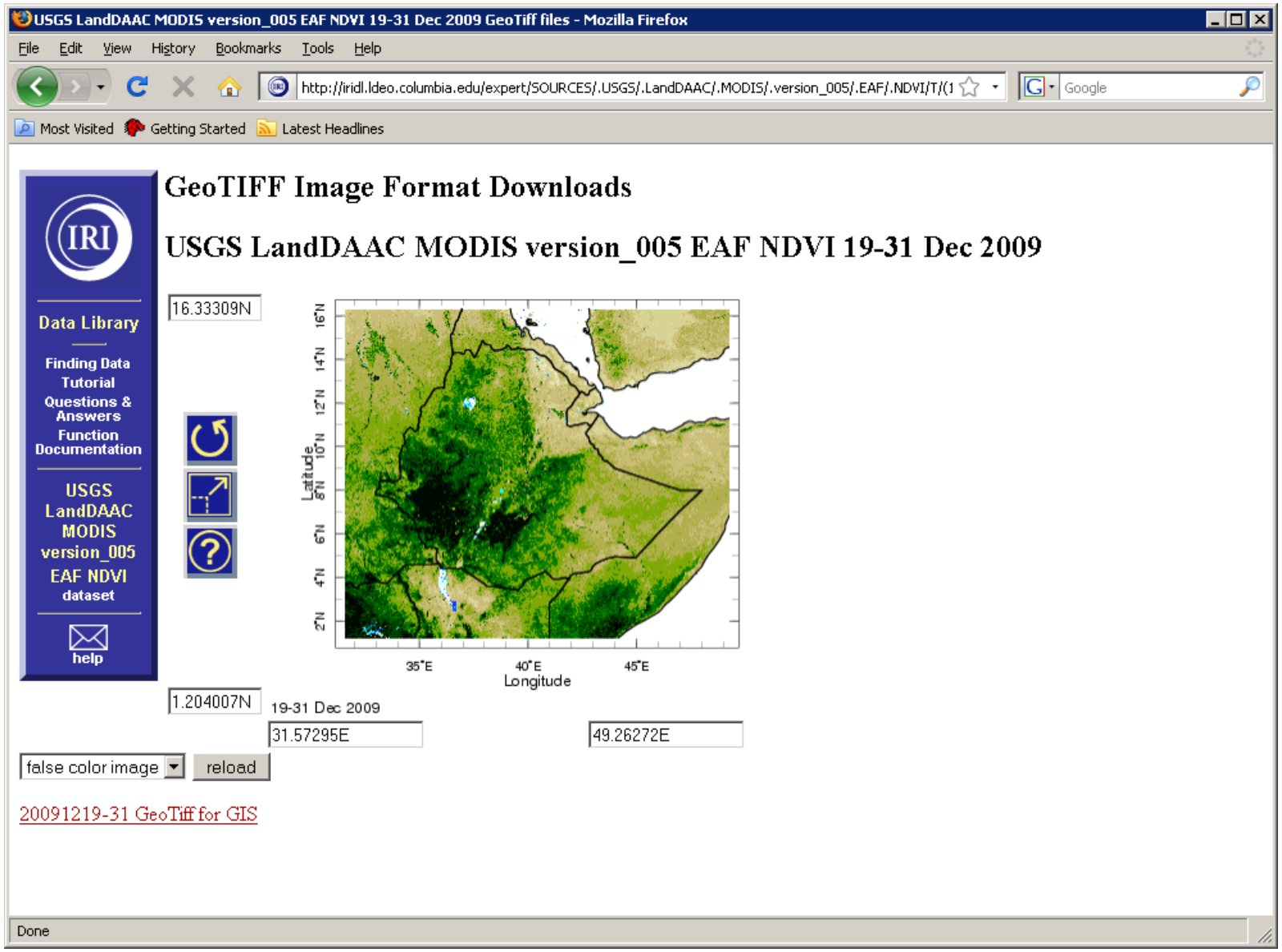


Ejercicio Grupo 3:

Bajar un archivo GeoTIFF de NDVI para Etiopía para un periodo de 16 días en Diciembre 2009

- Localizar SOURCES .USGS .LandDAAC .MODIS .version_005 .EAF
- Seleccione la variable NDVI
- Seleccione un solo paso de tiempo en Diciembre 2009
- Visualice los datos en la herramienta de visualización y dibuje las fronteras de los países
- Haga clic y arrastre una área de la mapa que incluye Etiopía y pues haga clic el botón “data in view”
- Seleccione el lazo “Data Files”
- Seleccione el lazo “GeoTIFF Image”
- Precise más la selección del dominio espacial, si necesario, pues haga clic el lazo “**** GeoTiff for GIS” para bajar

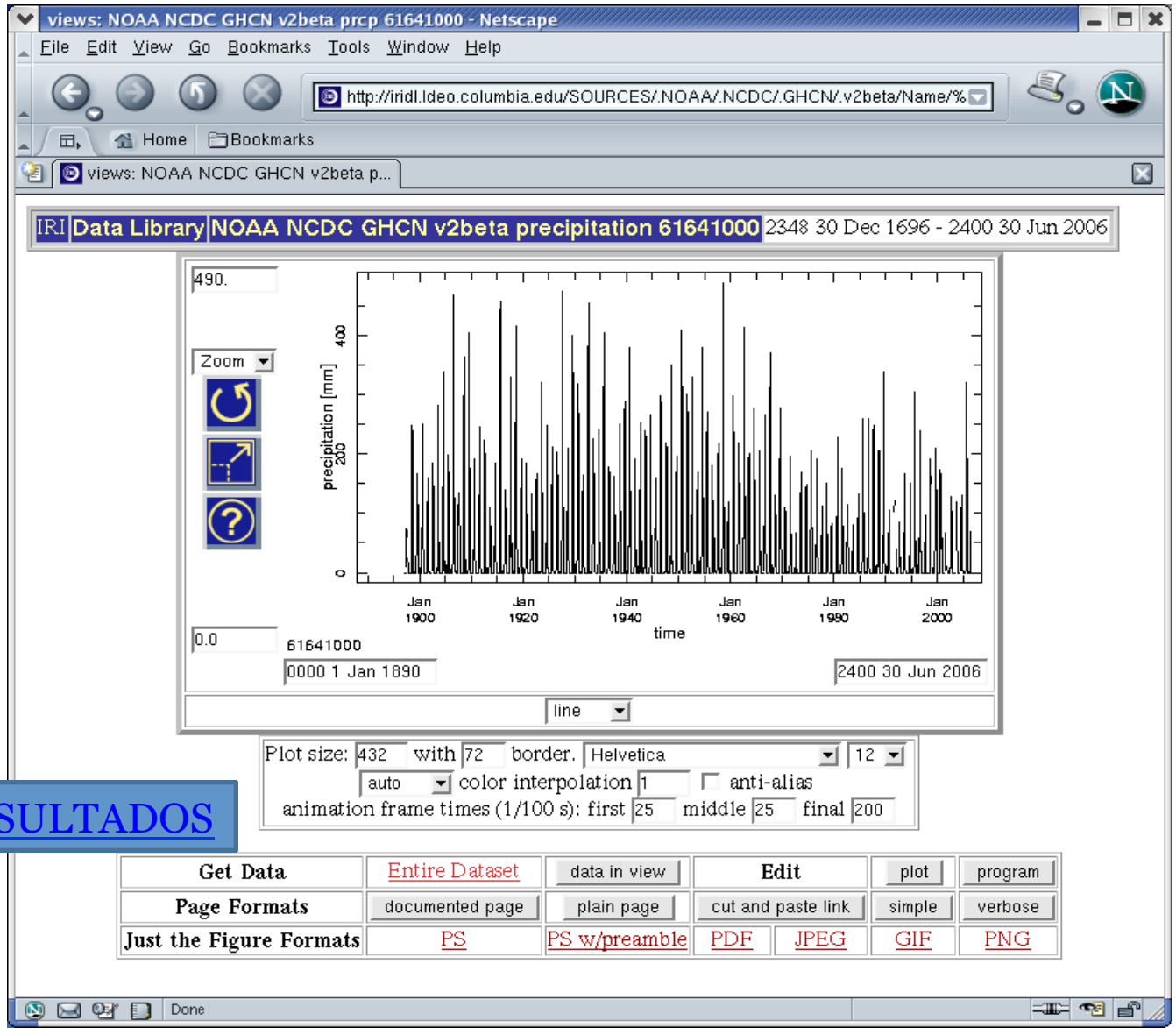
Ejercicio Grupo 3: Resultado



Ejercicio Grupo 4:
Construir una serie temporal de precipitación de estación mensual para Dakar, Senegal

- Desde la base de datos NOAA NCDC GHCN v2beta
  - Buscar una estación en Dakar
  - Seleccionar la variable de precipitación
  - Visualizar los datos en la herramienta de visualización
  - Ajuste el periodo temporal de los datos para centrarse en datos disponibles

Ejercicio Grupo 4: Resultado

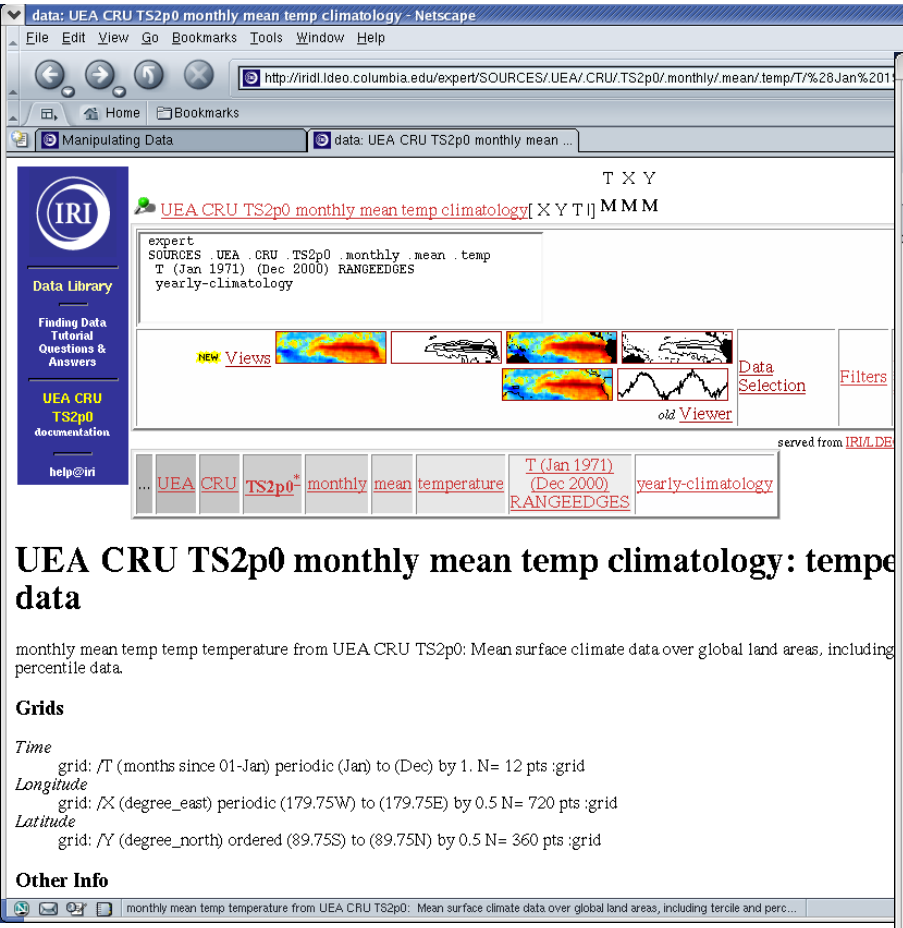


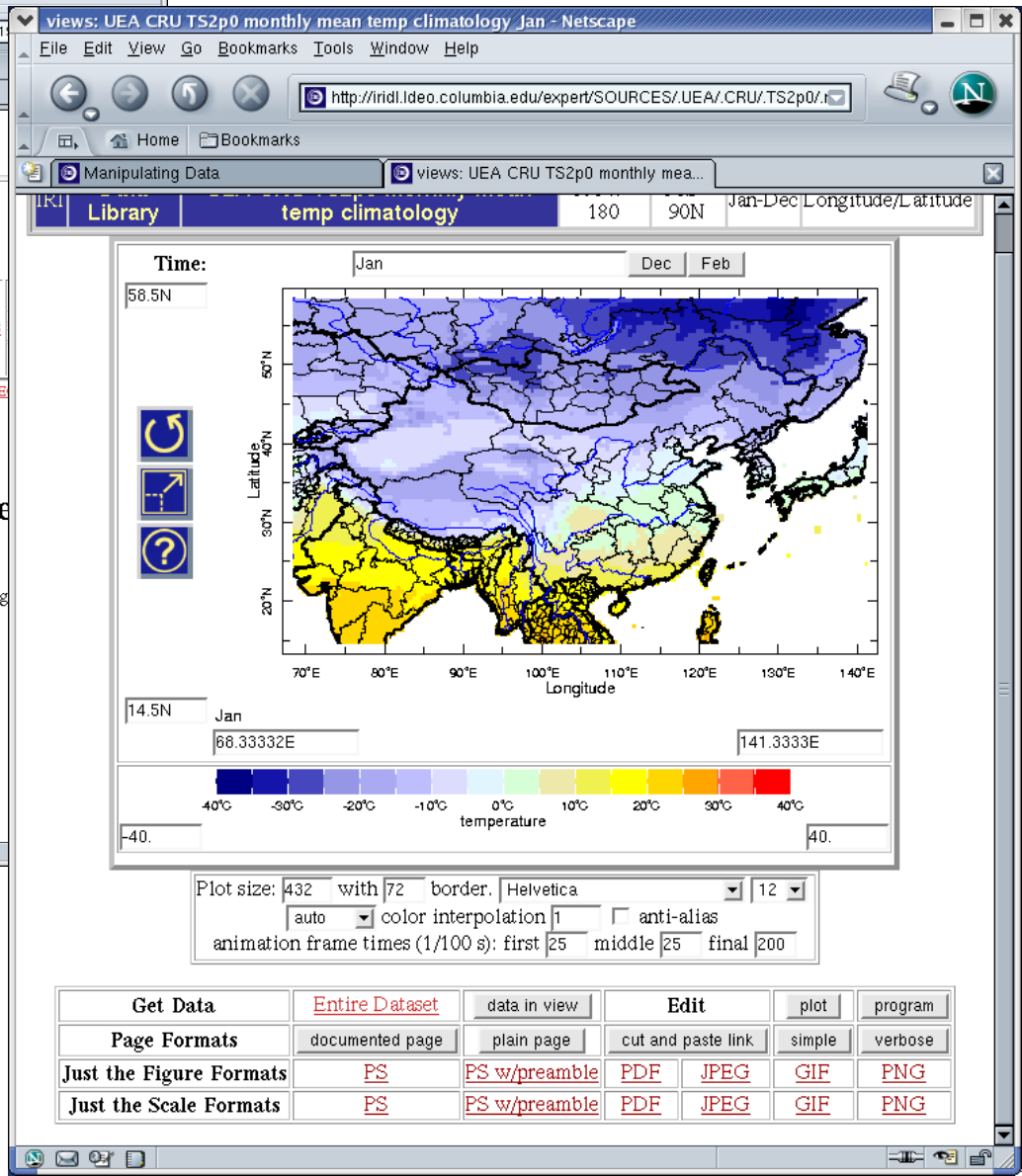
VISUALIZAR RESULTADOS

Ejercicio Grupo 5:
Construir una mapa animada de la temperatura de la climatología mensual en China, incluyendo fronteras provinciales y ríos mayores

- Localice la base de datos UEA CRU TS2.1
  - Seleccionar la variable de temperatura media mensual
  - Seleccionar un periodo de referencia para la climatología (1971-2000)
  - Seleccionar el lazo Monthly Climatology en la página Filters
  - Visualizar Ingrid en Expert Mode
  - Visualizar los datos en la herramienta de visualización
  - Seleccionar una región que incluye China
  - Seleccionar una escala de color para la temperatura y añadir los estados y los ríos
  - Animar la mapa escribiendo “Jan to Dec” en el formulario del tiempo

Ejercicio Grupo 5: Resultado





Ejercicio Individual 1:

Construir una mapa mundial de la climatología de TSS para el mes de Julio con respeto al periodo de referencia 1971-2000.

Para empezar...

Lugar de la base de datos en la Library:

NOAA NCDC ERSST

Pista: Calcular la climatología de 1971-2000 antes de seleccionar el mes de Julio

Ejercicio Individual 2:

Construir una mapa animada de las anomalías de la humedad terrestre para el mes de Abril en Afganistán durante los anos 1990-2006

Para empezar...

Lugar de la base de datos en la Library:

NOAA NCEP CPC GMSM

Pista: Calcular las anomalías antes de seleccionar las fechas de Abril

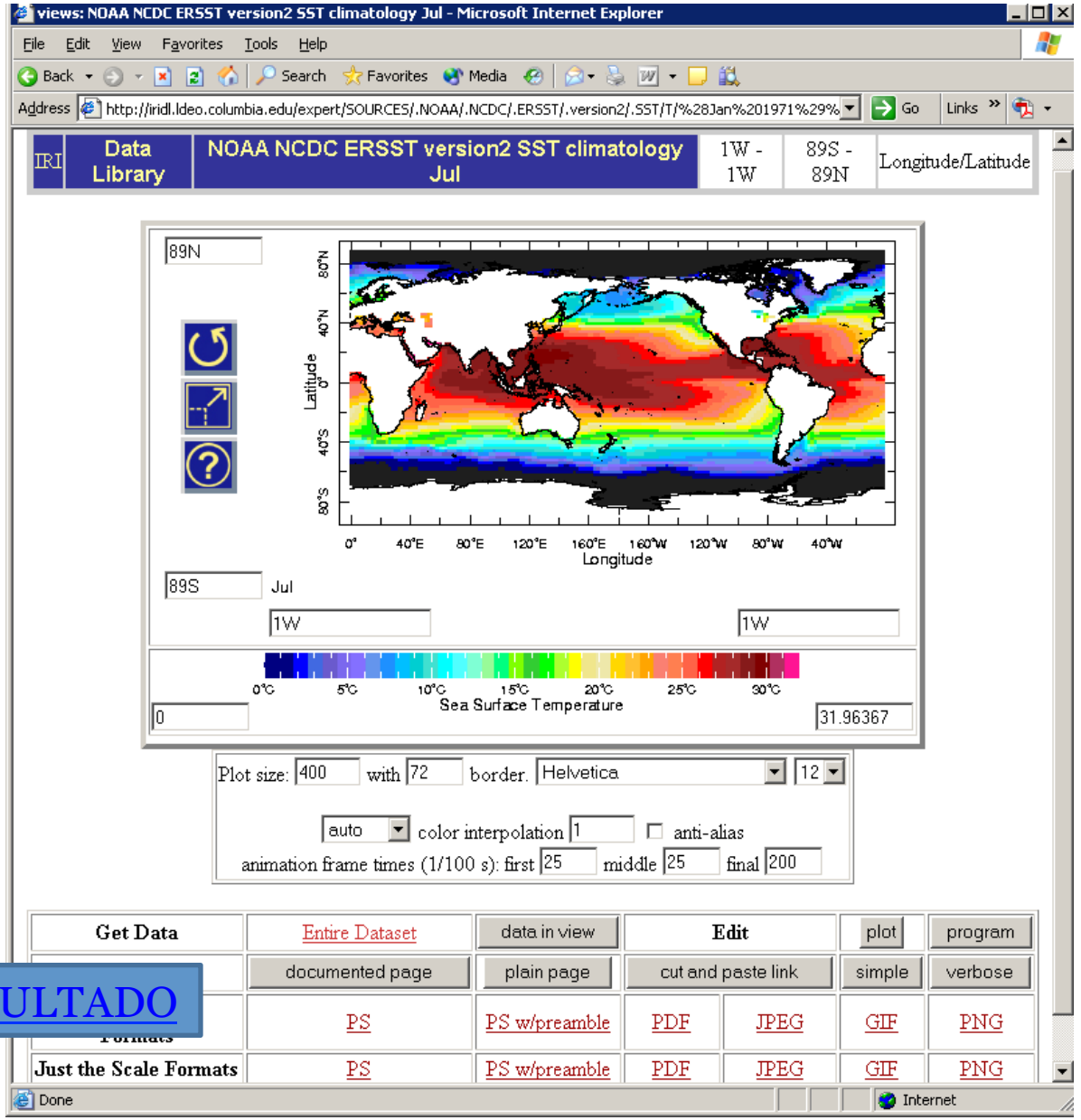
Ejercicio Individual 3:

Construir un grafico tiempo/longitud de TSS semanal en el Pacífico Tropical para el periodo Ene 1982 – Dic 2005. Utilice los datos entre 5ºS y 5ºN.

Para empezar…

Pista: Hay dos bases de datos que tienen datos semanales del interfaz mar-aire. Utilice la que ya tiene anomalías de TSS para que no tener que calcularla.

Ejercicio Individual 1: Resultado

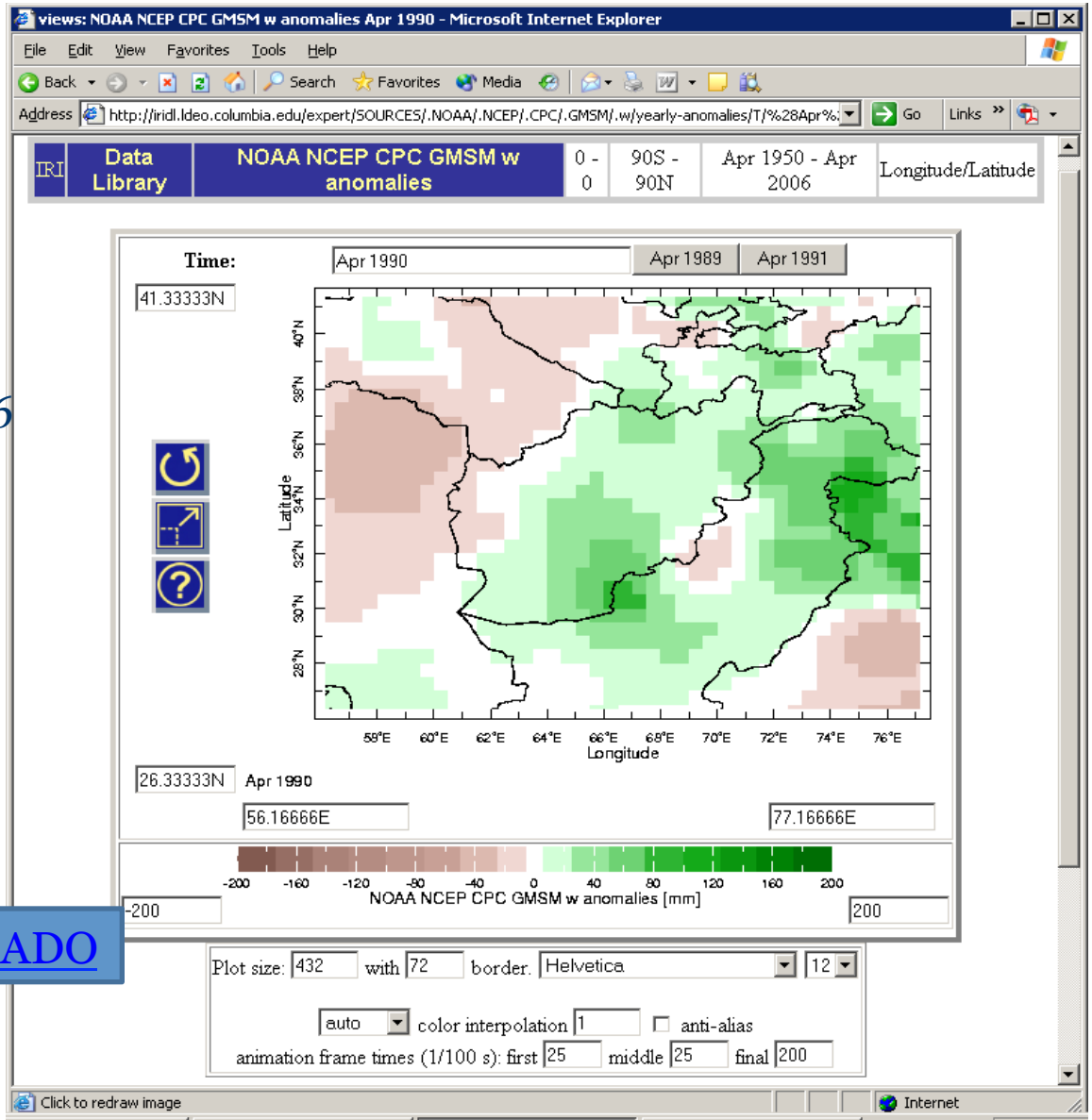


[VISUALIZAR RESULTADO]

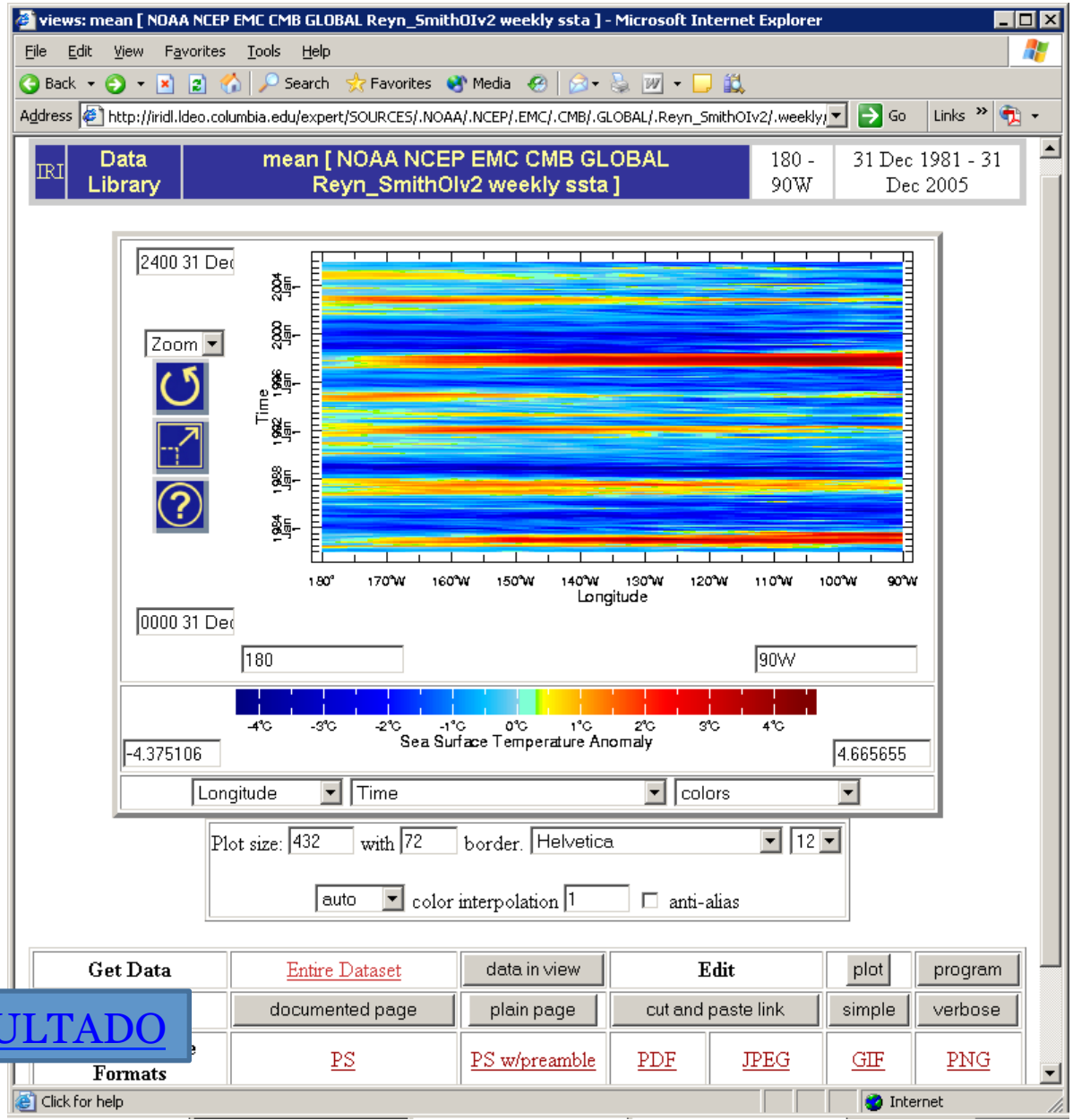
Ejercicio Individual 2: Resultado

Para animar la mapa:
Ingresar *Apr 1990 to Apr 2006*
en el formulario *Time* y
haga clic el botón Actualizar

VISUALIZAR RESULTADO



Ejercicio Individual 3: Resultado



VISUALIZAR RESULTADO