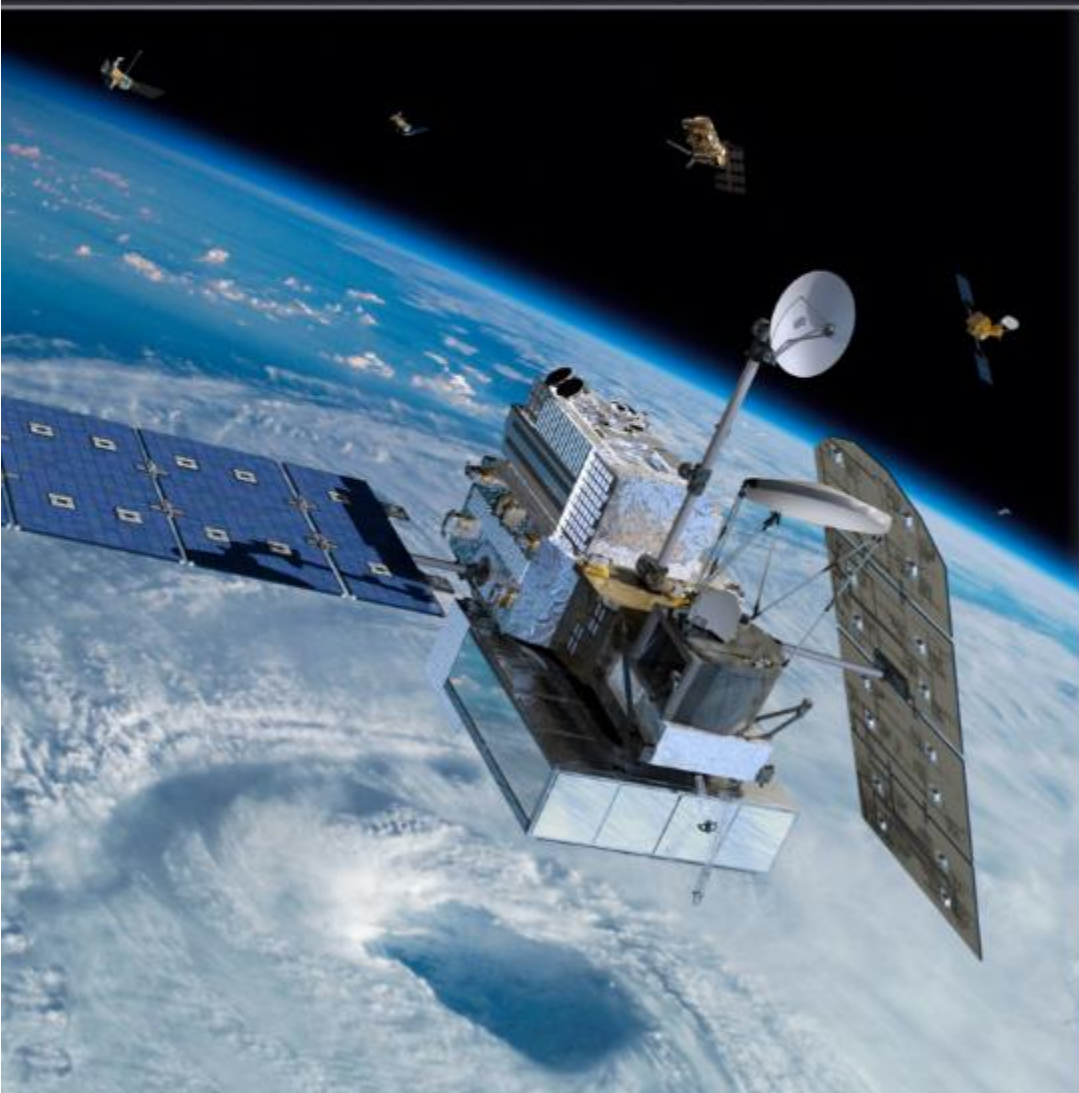




Getting TRMM Climatology Data Using MY NASA DATA



**Global Precipitation
Measurement Mission**

*Developed by the GPM
Education Team*

*NASA Goddard Space
Flight Center*

<http://mynasadata.larc.nasa.gov/>

MY NASA DATA

Home

Explore DATA (LAS)

Lesson Plans

Data Sources

Mission

Mission Support

Earth Systems Poster

EM Spectrum Diagram

Latitude/Longitude Finder

Global Climate Change

Observe Your World

MND News

Guest Blogger: Rachel Schwartz shares about coastclouds.com

Advanced

Intermediate

Basic

Climate Change

Model Data

Students

Citizen Scientists

Researchers

NASA Data

Over 200 Data Sets that will fit into any Science Classroom!

Don't see what you're looking for? Suggest a parameter

Earth System Digital Poster 2005-2013 Data Access Animations Activities

To start, click here and choose "Advanced"

MY NASA DATA Home [Advanced](#) [Intermediate](#) [Basic](#) [Climate Change](#) [Model Data](#)
MY NASA DATA Live Access Server - Advanced

Data Set

One Plot

Plot Options



88.75 N
179.75 W
88.75 S
179.75 E

Compute:
over:

Maps
 Latitude-Longitude

Line Plots
 Time
 Longitude
 Latitude

Hofmuller Plots
 Longitude-time
 Latitude-time

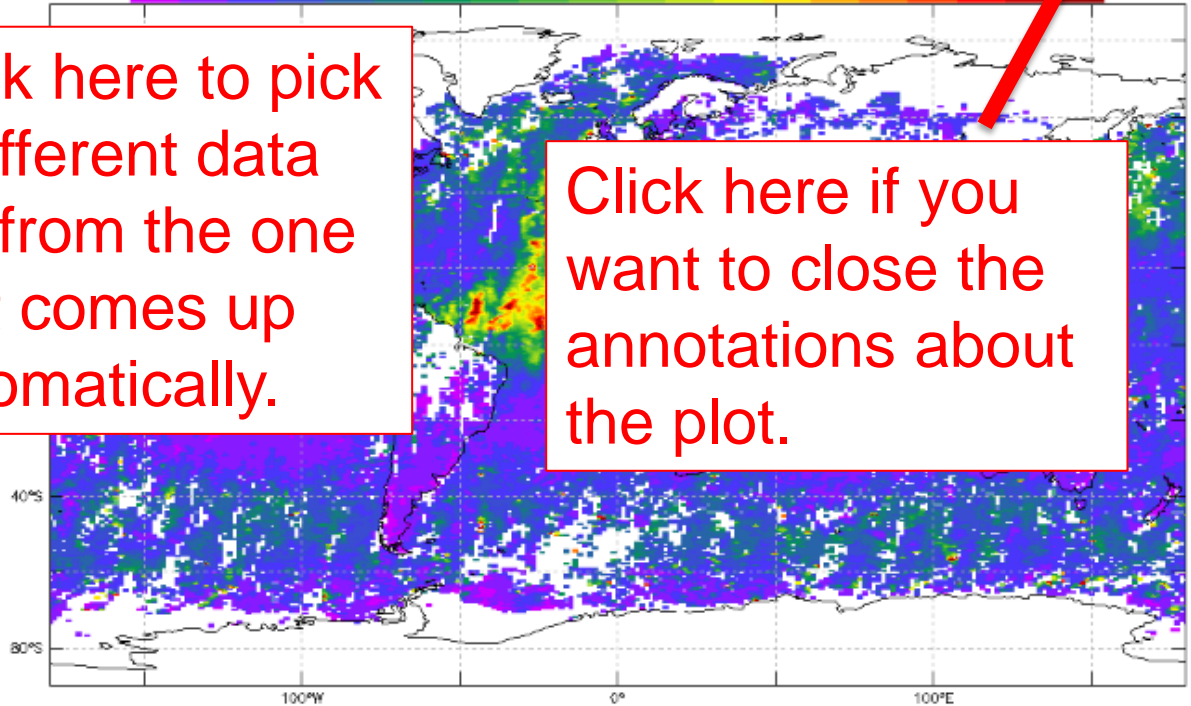
[Print...](#) [Animate](#) [Correlation Viewer](#) [Google Earth](#) [Show Values](#) [Export to Desktop Application](#) [Save As...](#)

OPeNDAP URL: http://mydasdata.larc.nasa.gov/thredds/dodsC/MISR_AER_aggregation
DATASET: aerosols
VARIABLE: Monthly Aerosol Optical Depth (MISR) (dimensionless)
TIME: 16-MAR-2000 11:59
• Subsampled 3 in X
LAS 8./Ferret 6.842 NOAA/MEL



Click here to pick a different data set from the one that comes up automatically.

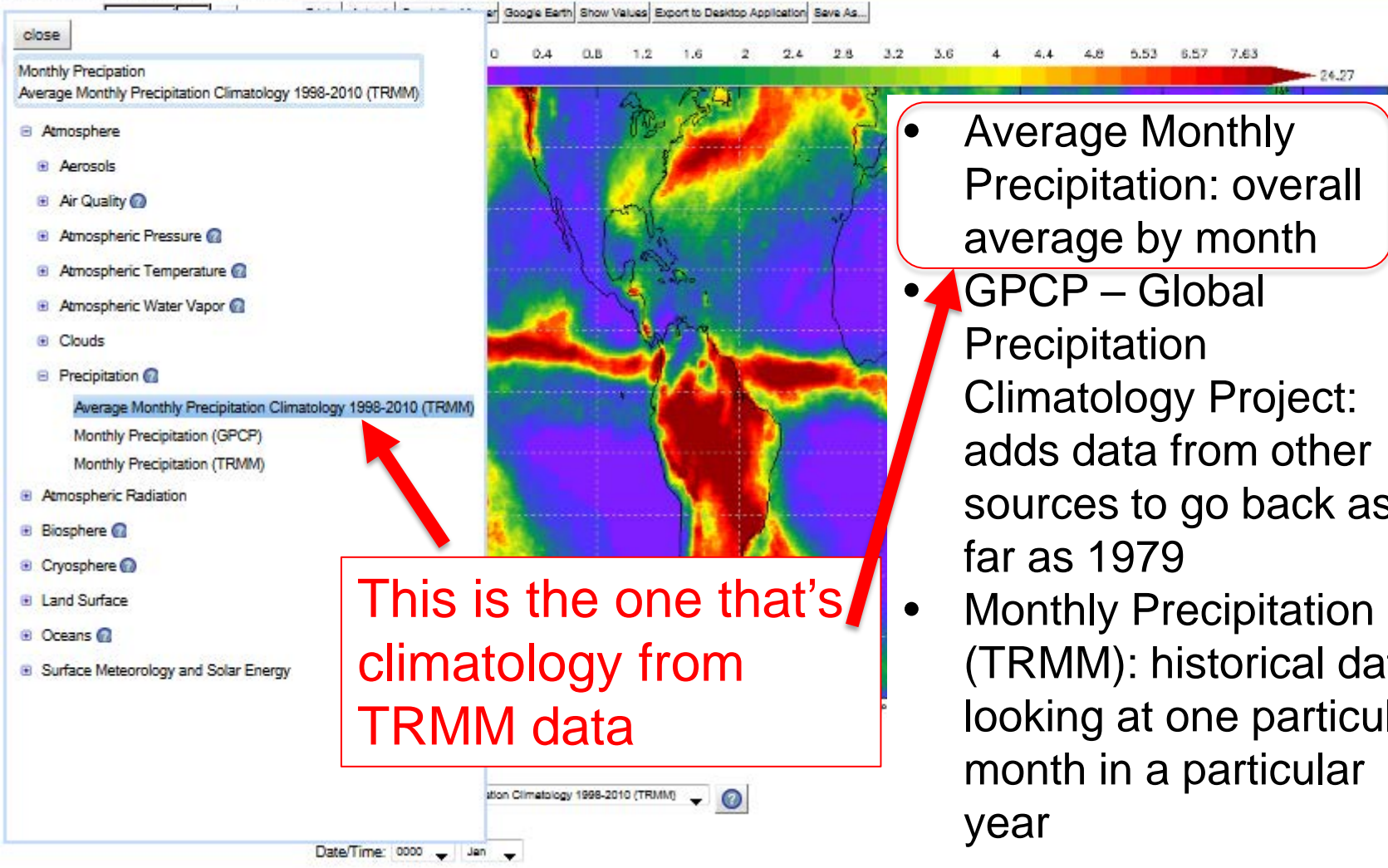
Click here if you want to close the annotations about the plot.



+ Monthly Aerosol Optical Depth (MISR) ?

Date/Time: 2000 Mar

MY NASA DATA Live Access Server - Advanced



This is the one that's climatology from TRMM data

Average Monthly Precipitation: overall average by month

GPCP – Global Precipitation Climatology Project: adds data from other sources to go back as far as 1979

Monthly Precipitation (TRMM): historical data, looking at one particular month in a particular year

To get a map of
precipitation data

MY NASA DATA Live Access Server - Advanced

Update Plot Print... Animate Correlation Viewer Google Earth Show Values Export to Desktop Application Save As...

One Plot Annotations Plot Options

40°N
60°N
80°E 100°E
0°S
40°S

Maps
 Latitude-Longitude
 Time
 Longitude
 Latitude
Hofmuller Plots
 Longitude-time
 Latitude-time

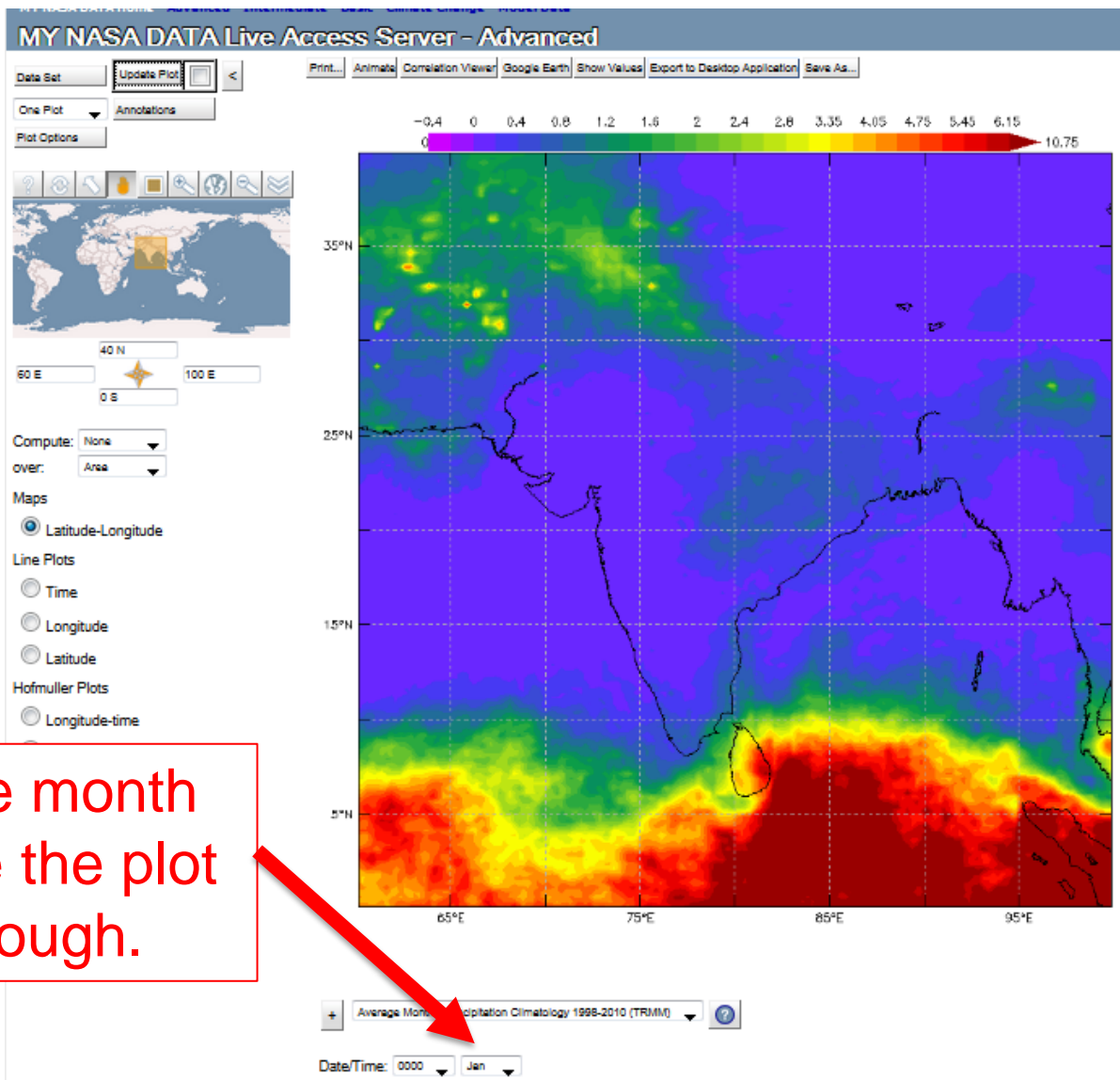
Date/Time: 0000 Jan

Enter coordinates here to show a particular area (this is for India)

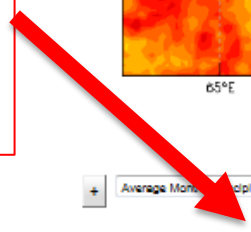
Then click to update the plot (or check the box to update automatically)

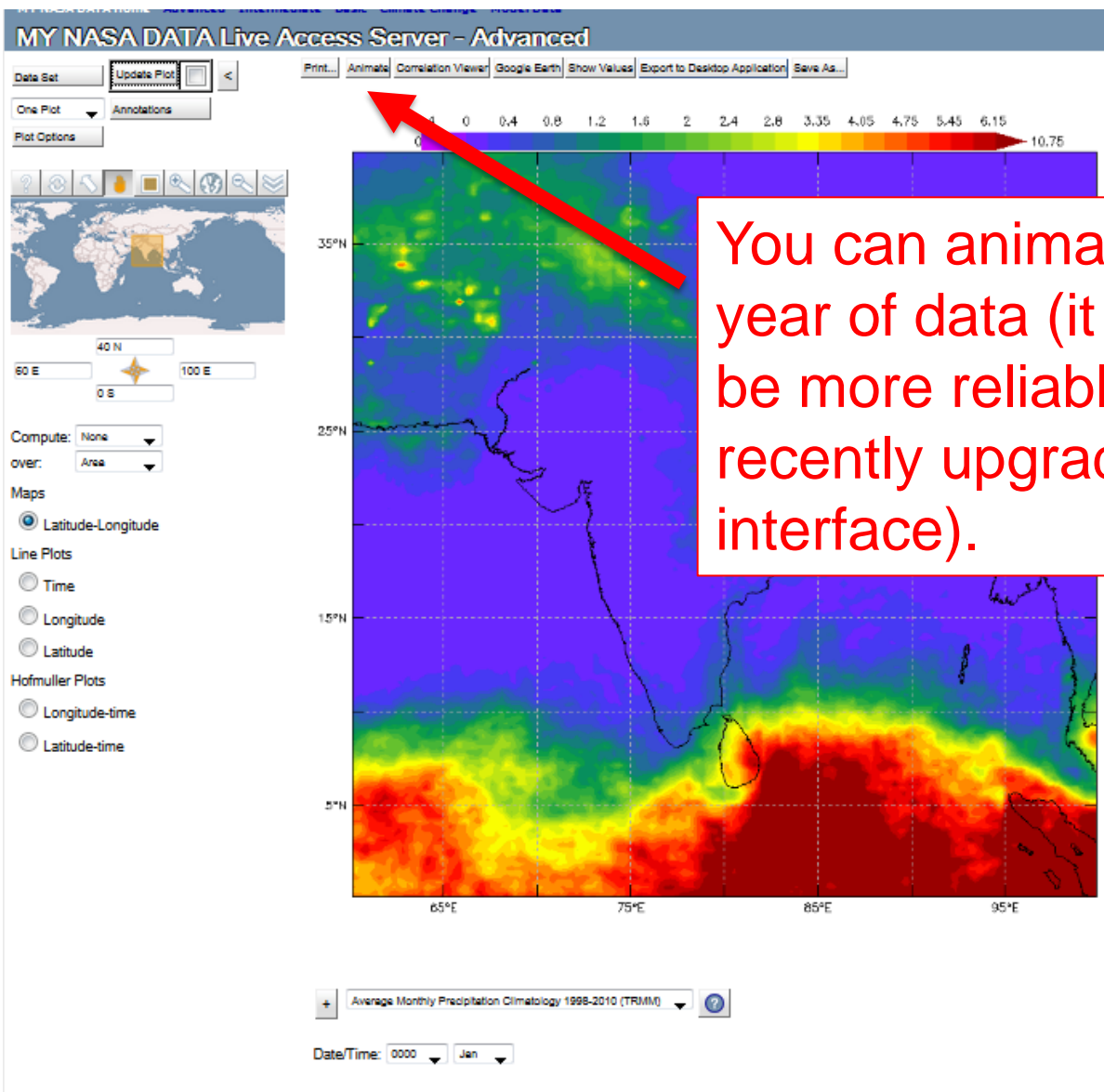
Or, use the square tool to draw a box.

43.59 N
61.68 E 96.84 E
1.41 N



Change the month and update the plot to cycle through.





You can animate the entire year of data (it seems to be more reliable with the recently upgraded interface).

To get a graph or table of data for a specific location

MY NASA DATA Live Access Server - Advanced

The screenshot shows the MY NASA DATA Live Access Server interface. At the top, there are navigation buttons: Data Set, Update Plot, Print..., Animats, Correlation Viewer, Google Earth, Show Values, Export to Desktop Application, and Save As... Below these are dropdown menus for One Plot and Annotations, and a Plot Options section. A world map on the left shows a yellow circle over India, with coordinate input fields for 22.6 N, 88.4 E, and 22.6 N. Below the map are date/time selection fields (Start date/time: 0000, Jan; End date/time: 0000, Dec) and a Compute over: Area dropdown. The 'Maps' section has radio buttons for Latitude-Longitude, Line Plots (with 'Time' selected), Longitude, Latitude, Hofmuller Plots (with Longitude-time and Latitude-time selected), and a '+ Average Monthly Pr' button. The main area displays a precipitation map of India with a color scale from -0.4 to 0. A red arrow points from the 'Time' radio button to a text box. Another red arrow points from the coordinate input fields to a text box. A third red arrow points from the 'Time' radio button to a text box. A fourth red arrow points from the 'Time' radio button to a text box. A fifth red arrow points from the 'Time' radio button to a text box.

Enter the coordinates for the city you want data for (this is Kolkata, India)

Change to Line Plots – Time and choose a start and end time, then update the plot

If you've already changed to Line Plots, you can also drag the circle around the map to select a location.

MY NASA DATA Live Access Server - Advanced

Data Set Update Plot <

One Plot Annotations

Plot Options



22.6 N
88.4 E 88.4 E
22.6 N

Start date/time: 0000 Jan
End date/time: 0000 Dec

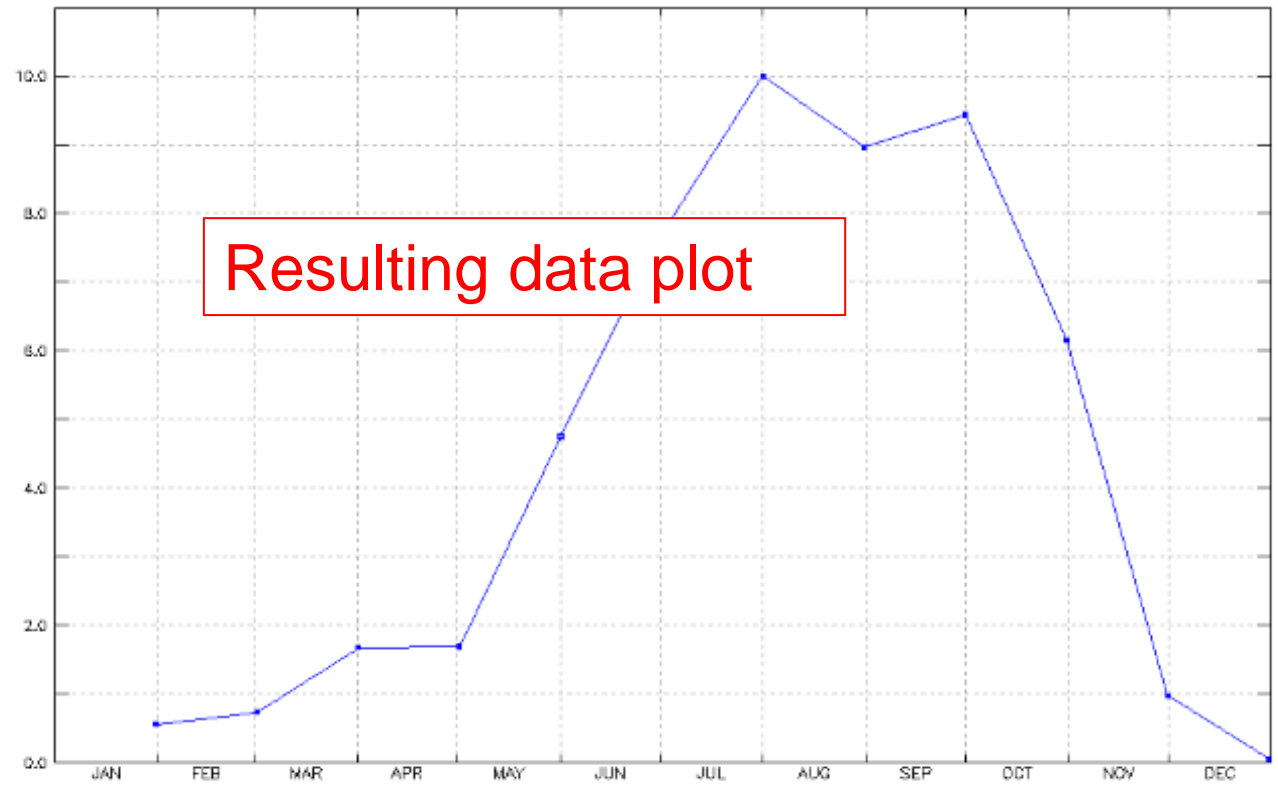
Compute: None
over: Area

Maps
 Latitude-Longitude

Line Plots
 Time
 Longitude
 Latitude

Hofmuller Plots
 Longitude-time
 Latitude-time

Print... Animate Correlation Viewer Google Earth Show Values Export to Desktop Application Save As...



Resulting data plot

+ Average Monthly Precipitation Climatology 1998-2010 (TRMM) ?

MY NASA DATA Live Access Server - Advanced

22.6 N
 88.4 E

Start date/time: 0000 Jan
 End date/time: 0000 Dec

Compute: None
 over: Area

Maps
 Latitude-Longitude

Line Plots
 Time
 Longitude
 Latitude

Hofmuller Plots
 Longitude-time
 Latitude-time

Click "Show Values" to see the data by month (in a new tab).

```

VARIABLE : Monthly Precipitation (mm/day)
FILENAME  : 3b43v6_climate_r_98_10.nc
FILEPATH  : /usr/local/fer_data/data/
SUBSET    : 12 points (TIME)
LONGITUDE : 88.4E
LATITUDE  : 22.6N
          : 88.38E
          : 1074
31-JAN-0000 / 1: 0.5598
01-MAR-0000 / 2: 0.7389
01-APR-0000 / 3: 1.6795
01-MAY-0000 / 4: 1.6927
01-JUN-0000 / 5: 4.7531
01-JUL-0000 / 6: 7.6972
01-AUG-0000 / 7: 10.0025
31-AUG-0000 / 8: 8.9625
30-SEP-0000 / 9: 9.4409
31-OCT-0000 / 10: 6.1586
30-NOV-0000 / 11: 0.9793
31-DEC-0000 / 12: 0.0601
          
```

+ Average Monthly Precipitation Climatology 1998-2010 (TRMM)

MY NASA DATA Live Access Server - Advanced

The screenshot shows the MY NASA DATA Live Access Server interface. A line plot displays precipitation data over time, with a red arrow pointing to the 'Save As...' button in the top menu. A red box highlights the 'Save As...' button with the text 'Click "Save As"'. Another red box highlights the 'Save As...' dialog box, which contains the following information:

Specify your data's requirements and then click "Save" to download.

Selected Region:
 Longitude range: [88.4, 88.4]
 Latitude range: [22.6, 22.6]

Select a Data Format:
 ASCII

Select Time:
 Date/Time: 0000 Jan
 End date/time: 0000 Dec

Save

In the window that opens, choose ASCII and click "Save." Open the resulting *.txt file using Excel or another spreadsheet program.

Kolkata Precip.txt - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Acrobat

Clipboard Font Alignment Number Styles Cells Editing

A9 31-JAN-0000 10

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	VARIABLE : Monthly Precipitation (mm/day)												
2	FILENAME : 3b43v6_climate_r_98_10.nc												
3	FILEPATH : /usr/local/fer_data/data/												
4	BAD FLAG : -1.E+34												
5	SUBSET : 12 points (TIME)												
6	LONGITUDE: 88.4E												
7	LATITUDE : 22.6N												
8		88.4E											
9	31-JAN-0000 10	0.559772											
10	01-MAR-0000 20	0.73892											
11	01-APR-0000 07	1.67954											
12	01-MAY-0000 17	1.69273											
13	01-JUN-0000 04	4.75306											
14	01-JUL-0000 14	7.69718											
15	01-AUG-0000 01	10.0025											
16	31-AUG-0000 11	8.96251											
17	30-SEP-0000 22	9.4409											
18	31-OCT-0000 08	6.15862											
19	30-NOV-0000 19	0.979298											
20	31-DEC-0000 05	0.0600648											
21													
22													
23													

Kolkata Precip

Ready 100%



Getting data to use in Google Earth

MY NASA DATA Live Access Server - Advanced

Data Set

One Plot

Plot Options

- Print...
- Animate
- Correlation Viewer
- Google Earth
- Show Values
- Export to Desktop Application
- Save As...



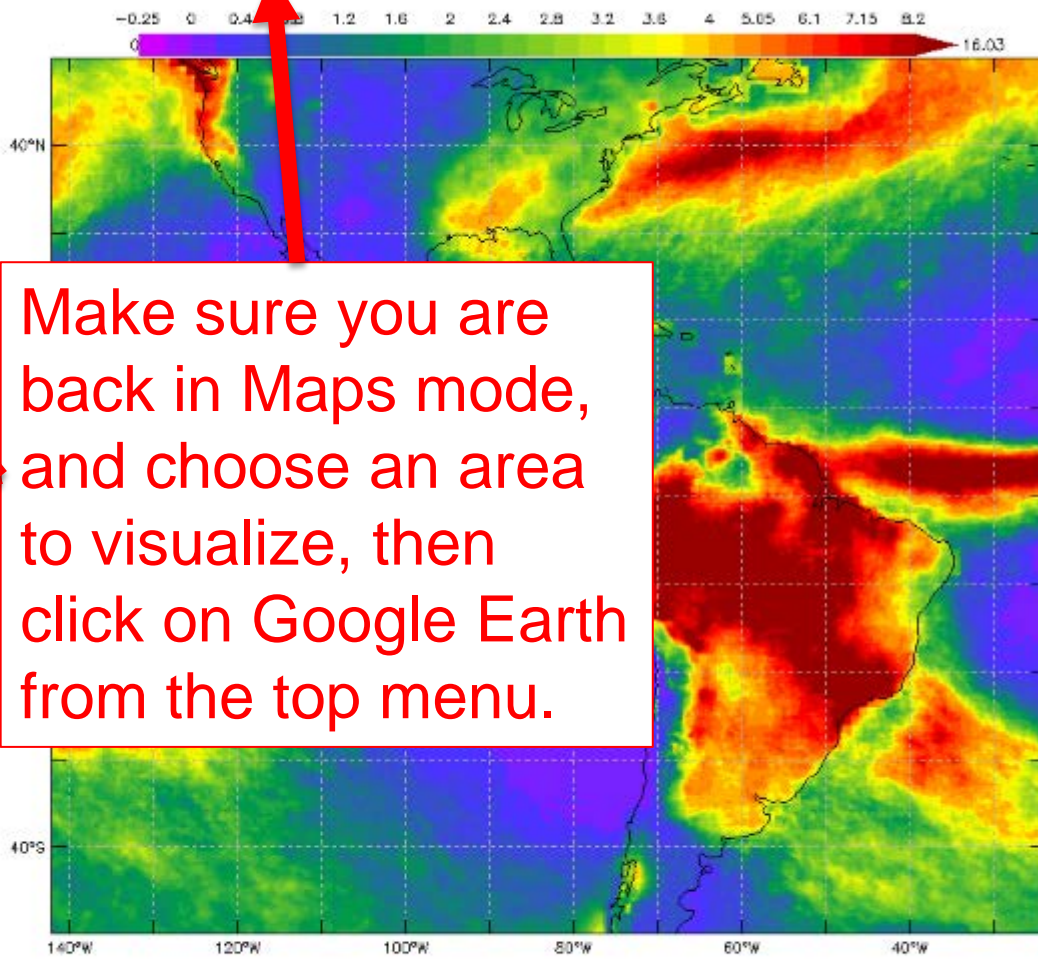
49.88 N
142.03 W 23.8 W
49.88 S

Compute: None
over: Area

Maps
 Latitude-Longitude

Line Plots
 Time
 Longitude
 Latitude

Hofmuller Plots
 Longitude-time
 Latitude-time

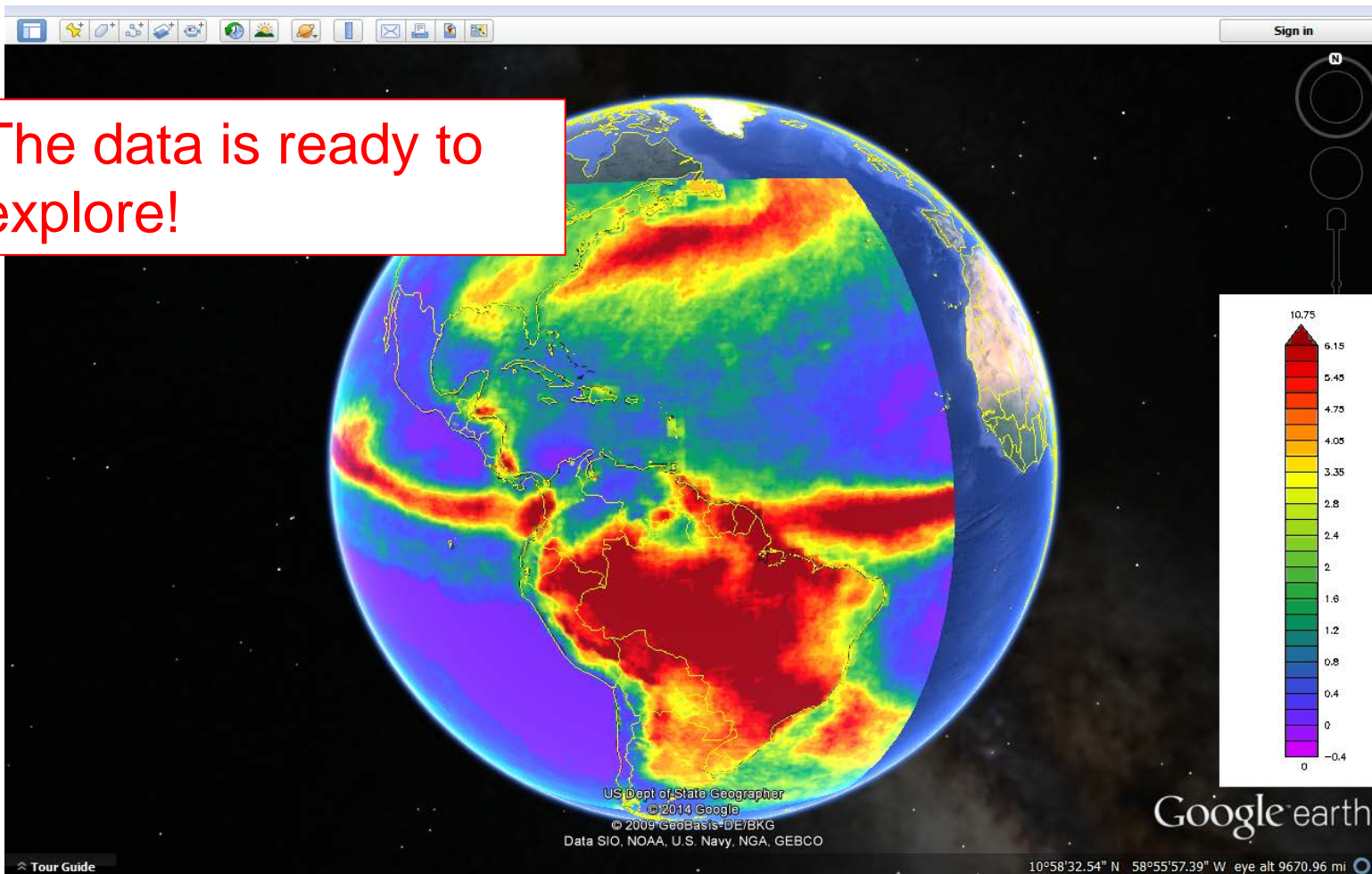


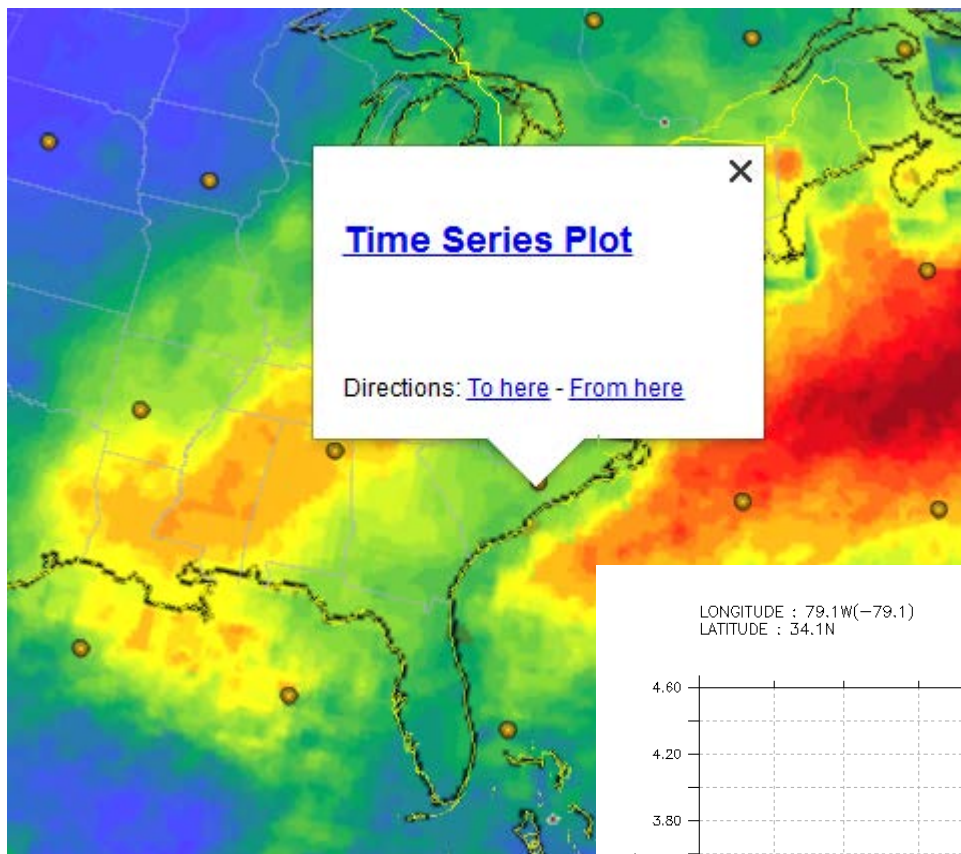
Make sure you are back in Maps mode, and choose an area to visualize, then click on Google Earth from the top menu.

Average Monthly Precipitation Climatology 1998-2010 (TRMM)

Date/Time: 0000 Jan

The data is ready to explore!



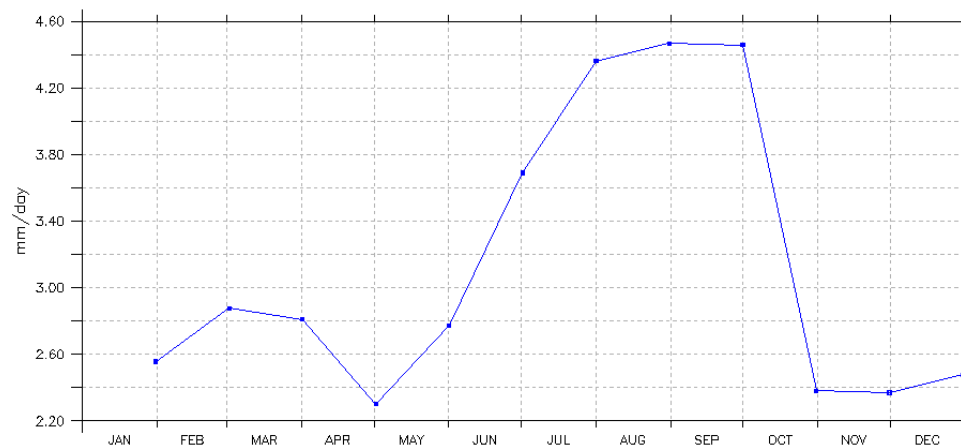


If you zoom in, you can even get time series plots for individual points on the grid.

LAS 8./Ferret 6.842 NOAA/PMEL

LONGITUDE : 79.1W(-79.1)
LATITUDE : 34.1N

DATA SET: Monthly Precipitation



Average Monthly Precipitation Climatology 1998-2010 (TRMM) (mm/day)