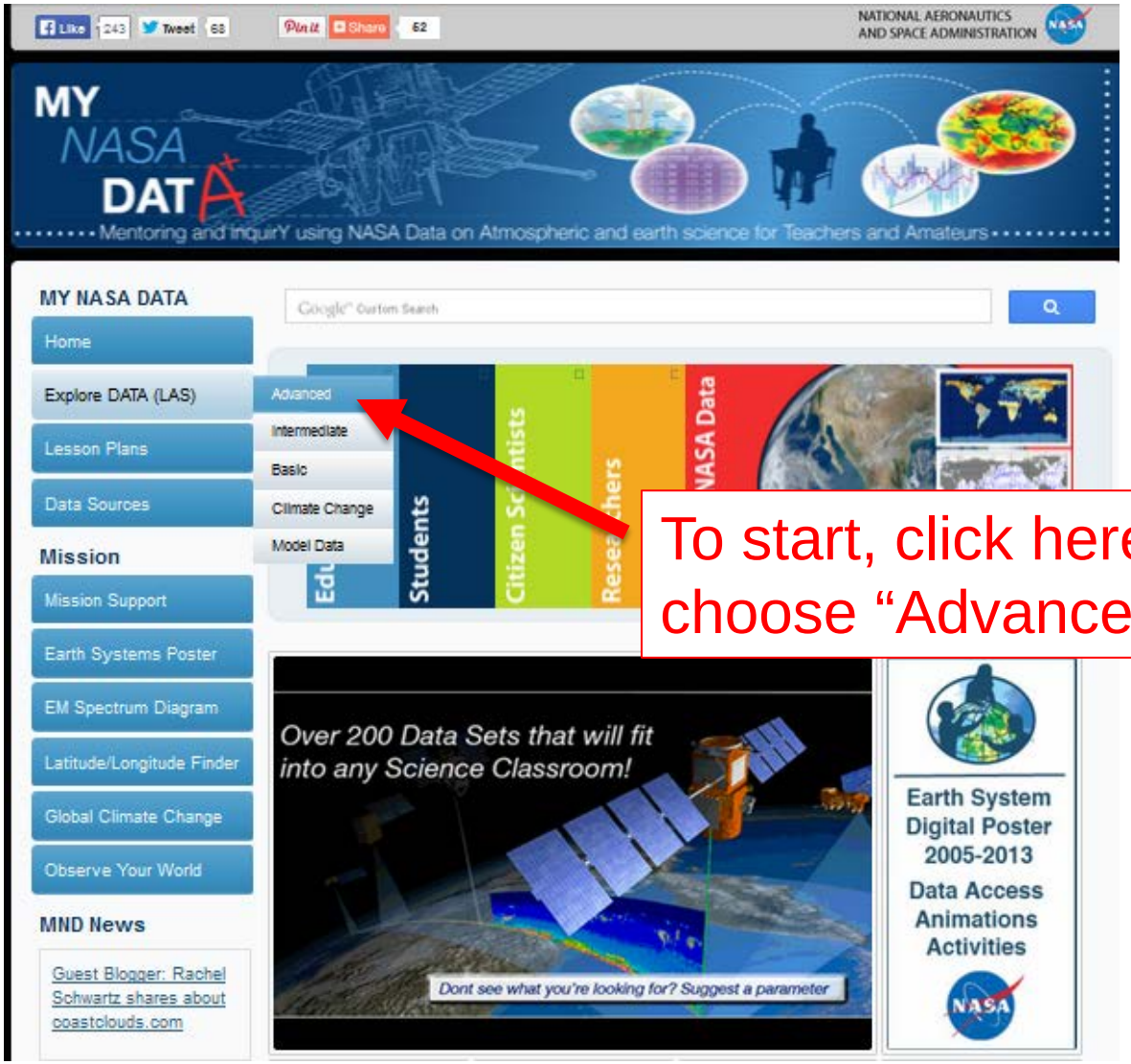
Getting TRMM Climatology Data Using MY NASA DATA

Global Precipitation Measurement Mission

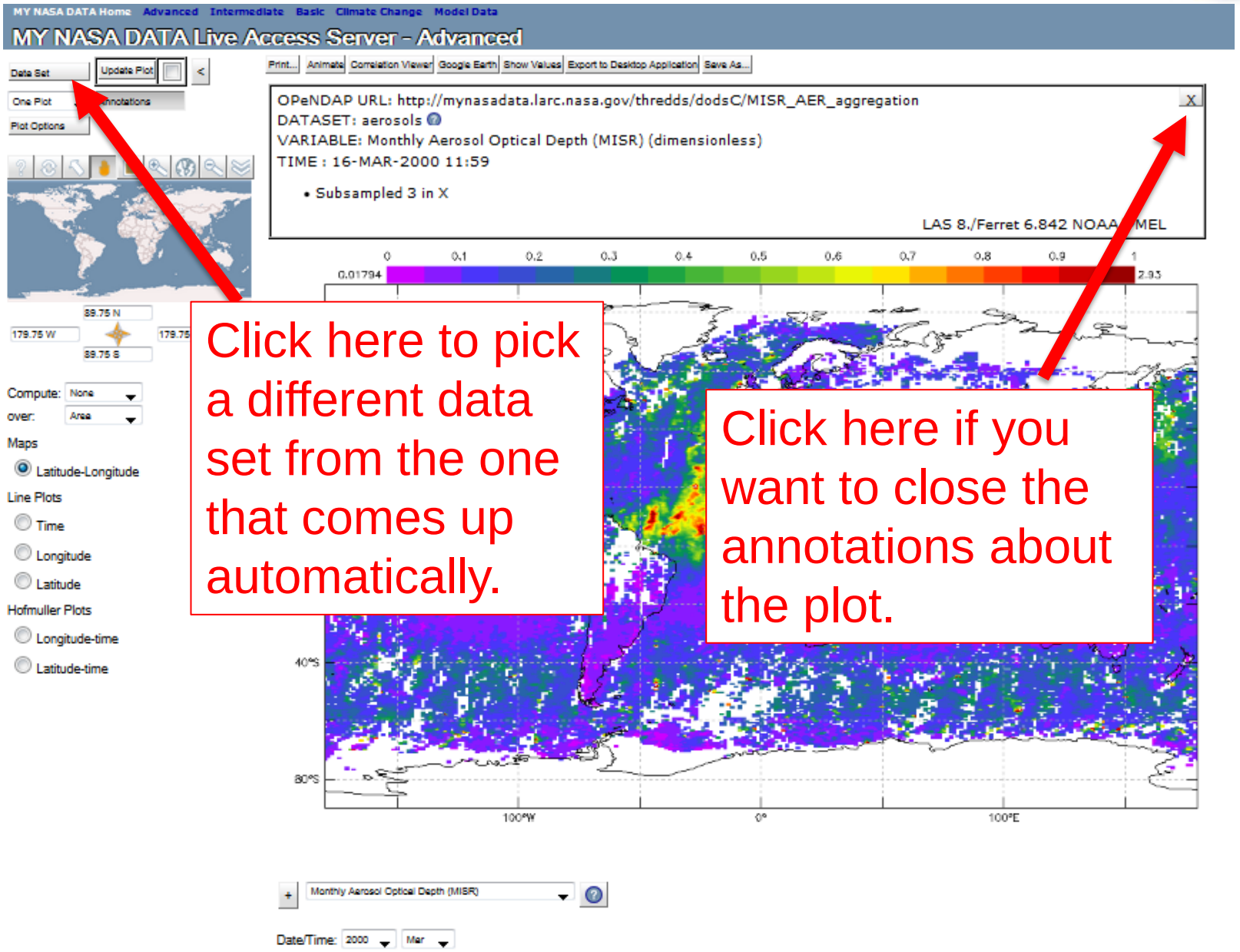
Developed by the GPM Education Team

NASA Goddard Space Flight Center

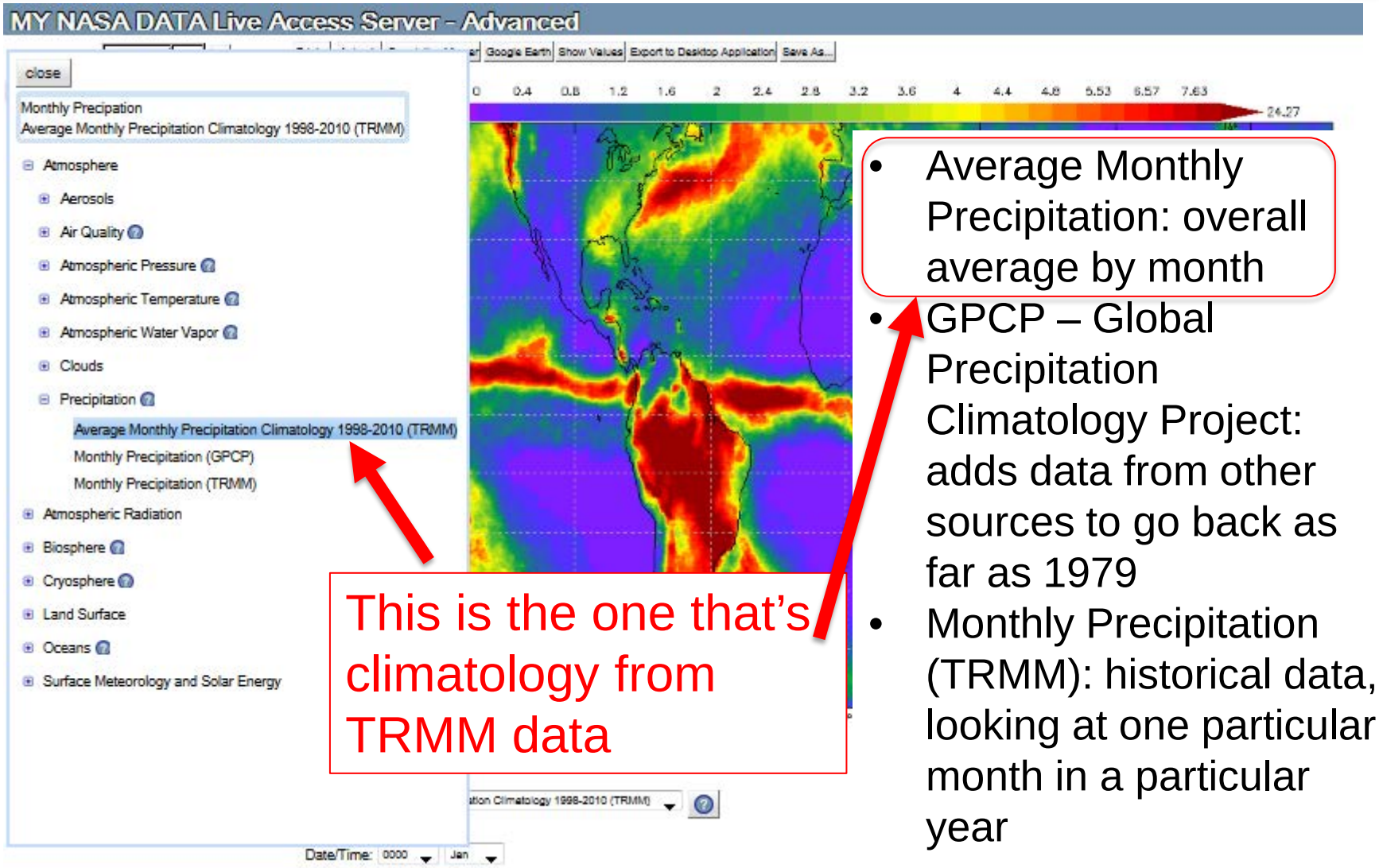
http://mynasadata.larc.nasa.gov/



Main screen of Advanced Live Access Server



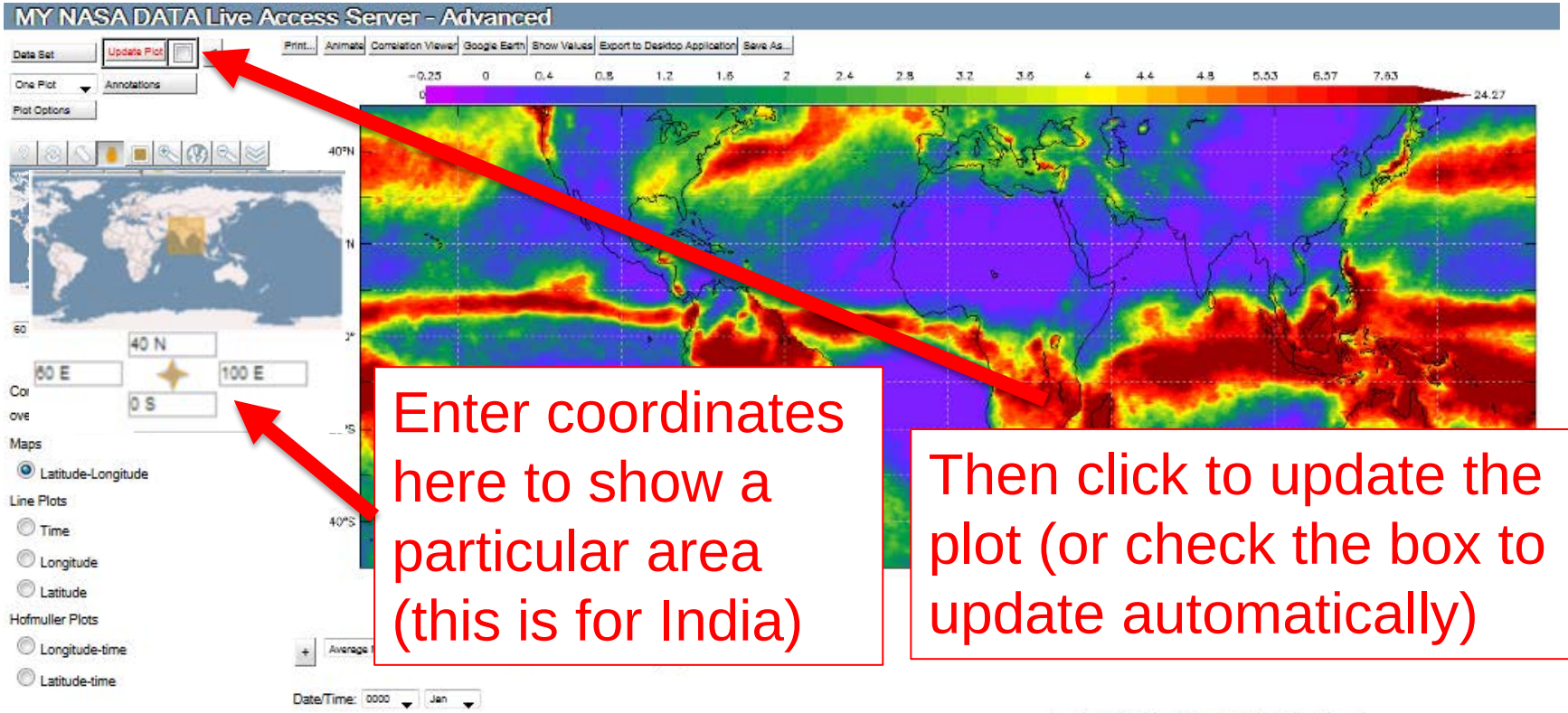
Precipitation datasets available



- 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

TRMM data – world map

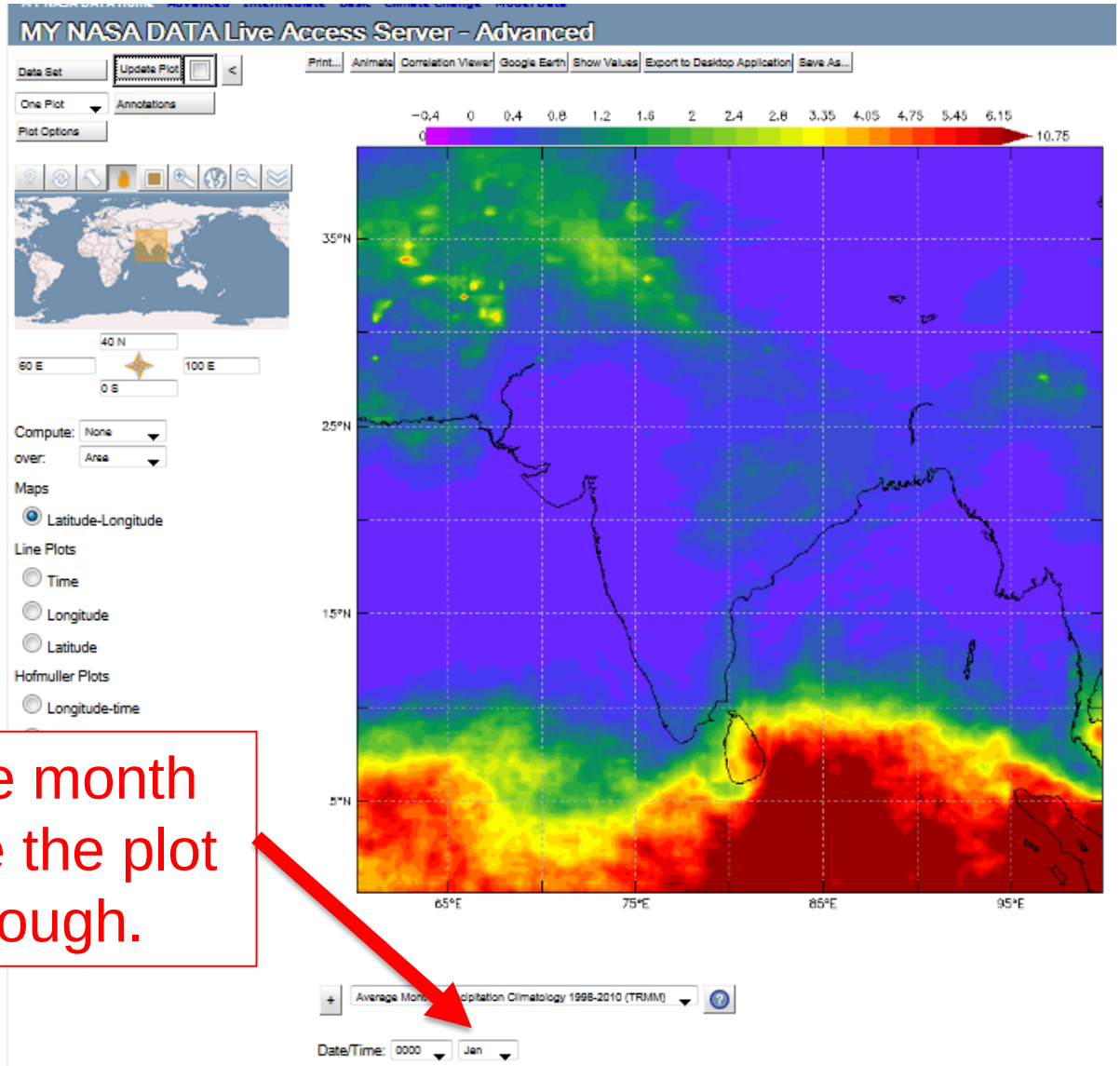


Enter coordinates here to show a particular area (this is for India)

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

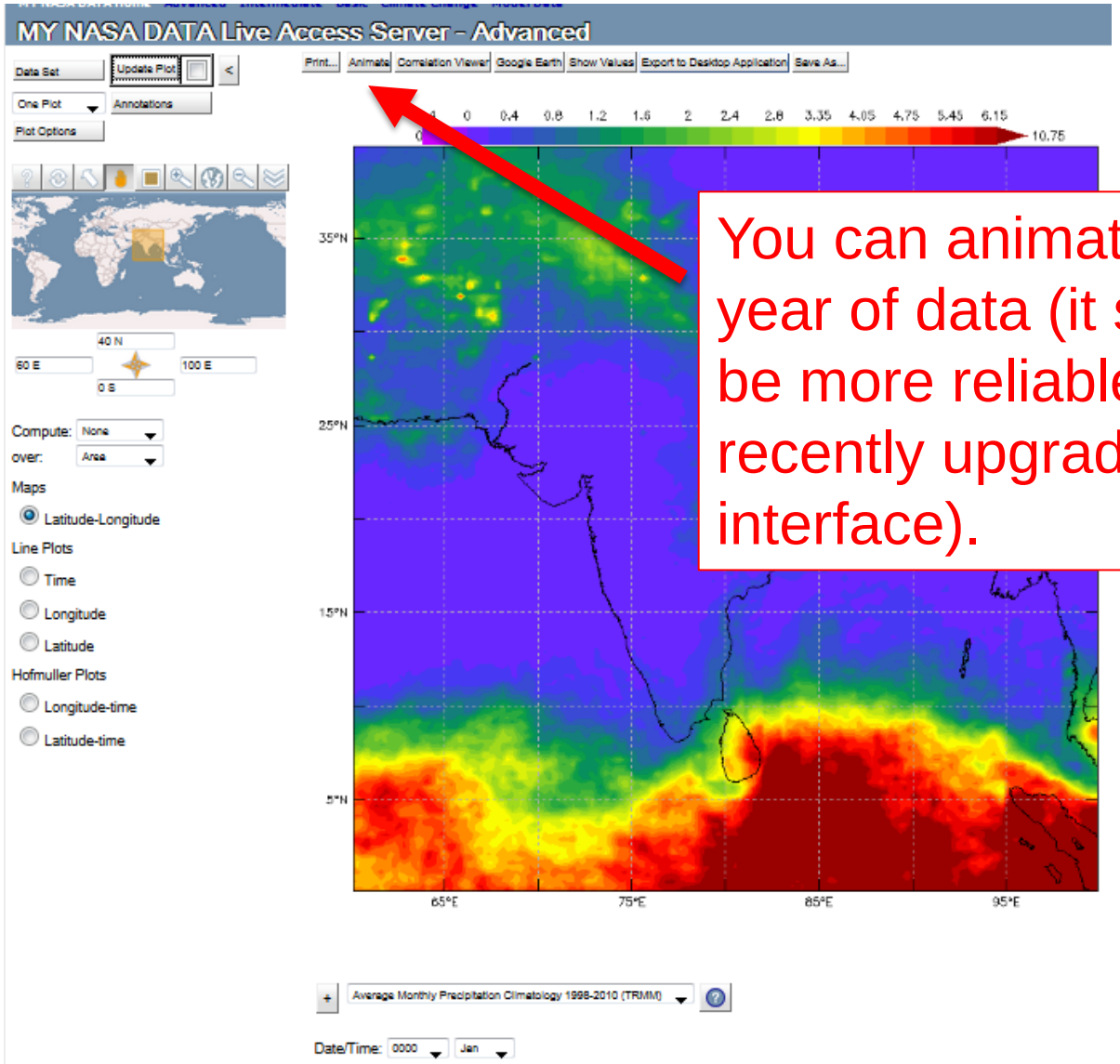
Or, use the square tool to draw a box.

Precipitation map of India - February



Change the month and update the plot to cycle through.

Precipitation map of India - February

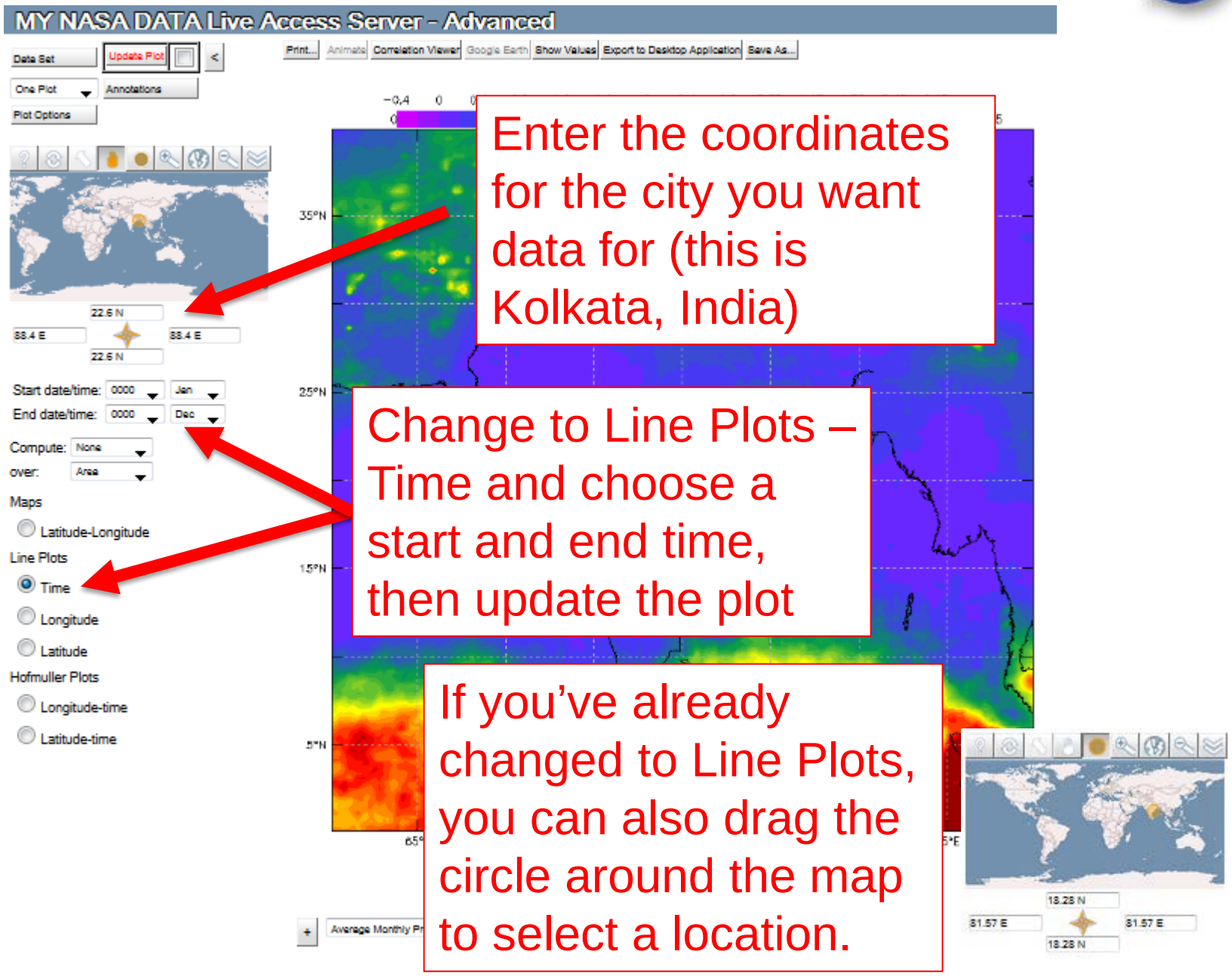


You can animate the entire year of data (it seems to be more reliable with the recently upgraded interface).

GLOBAL PRECIPITATION MEASUREMENT

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

Getting data for a specific location

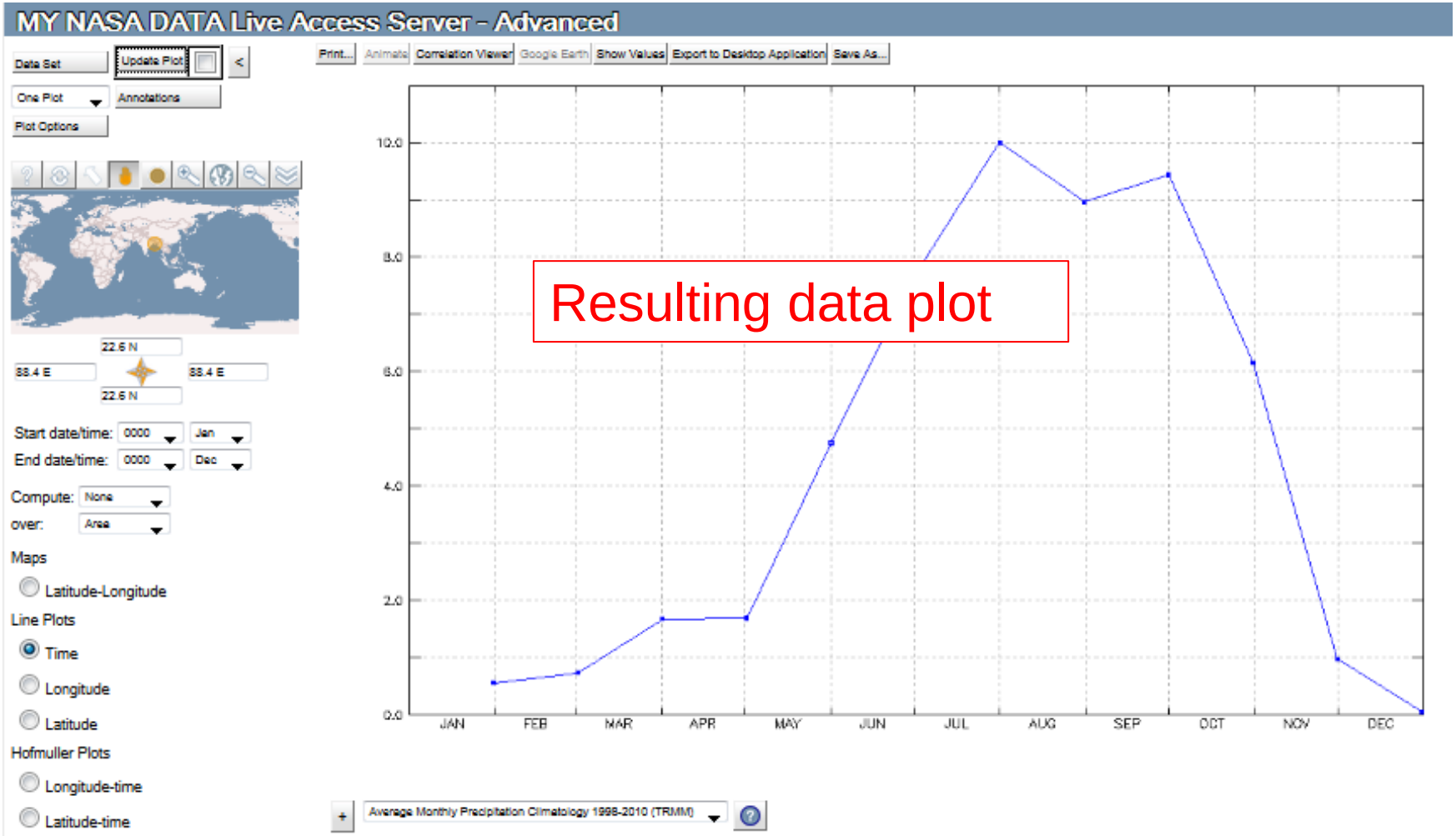


Enter the coordinates for the city you want data for (this is Kolkata, India)

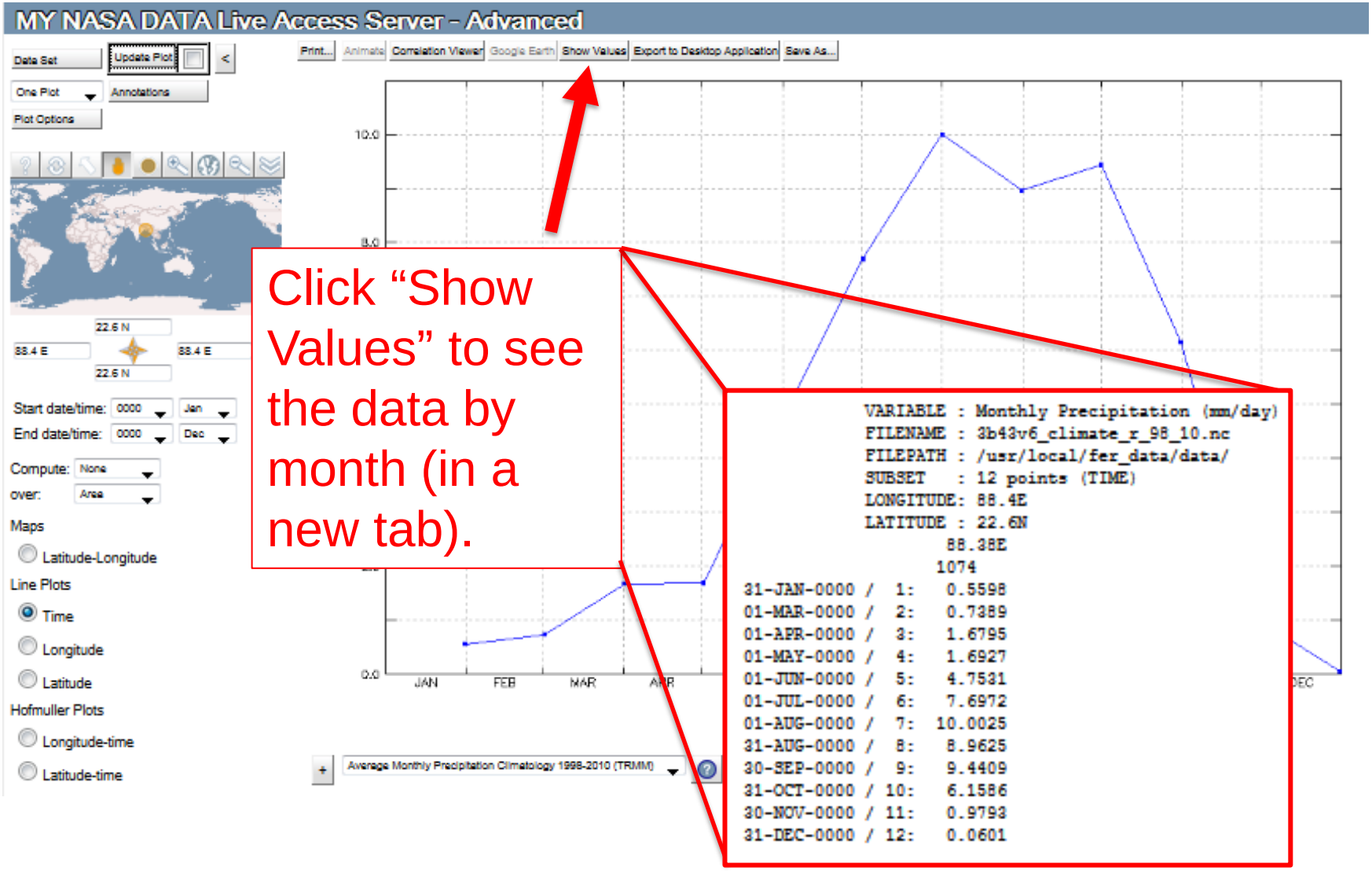
Change to Line Plots – Time and choose a start and end time, then update the plot

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

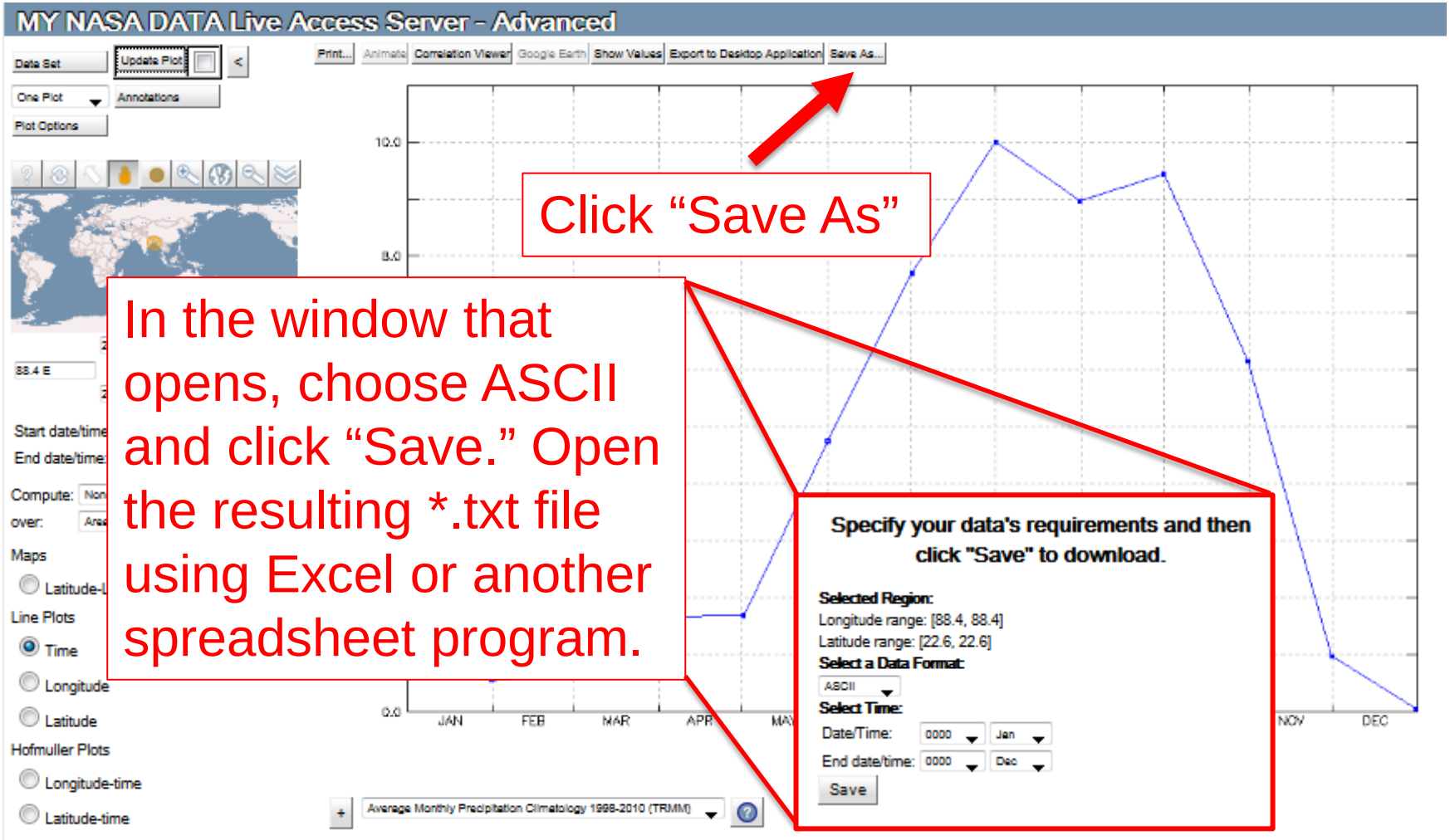
Getting data for a specific location



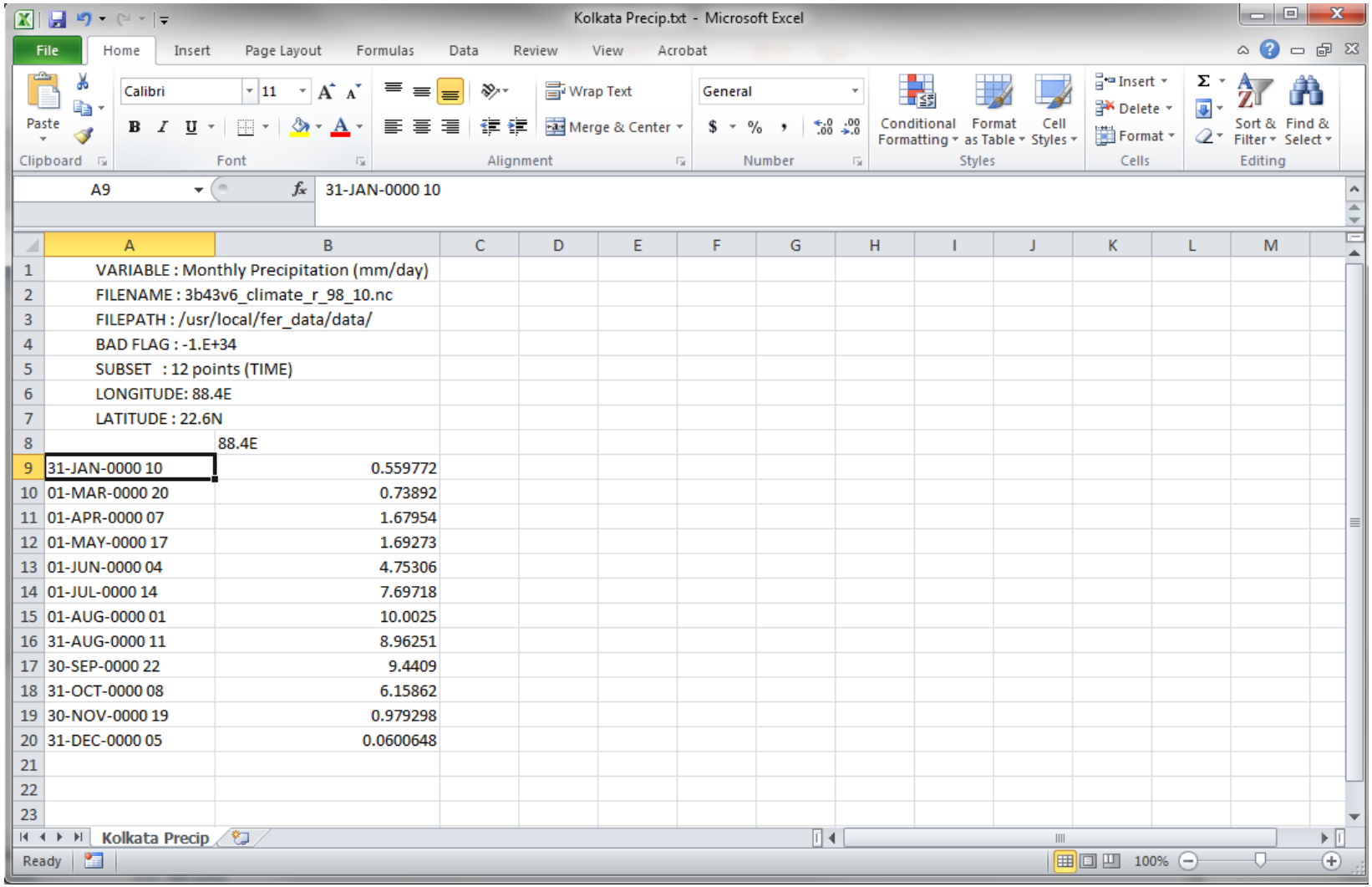
Getting a chart of specific values



Saving data for using in a spreadsheet



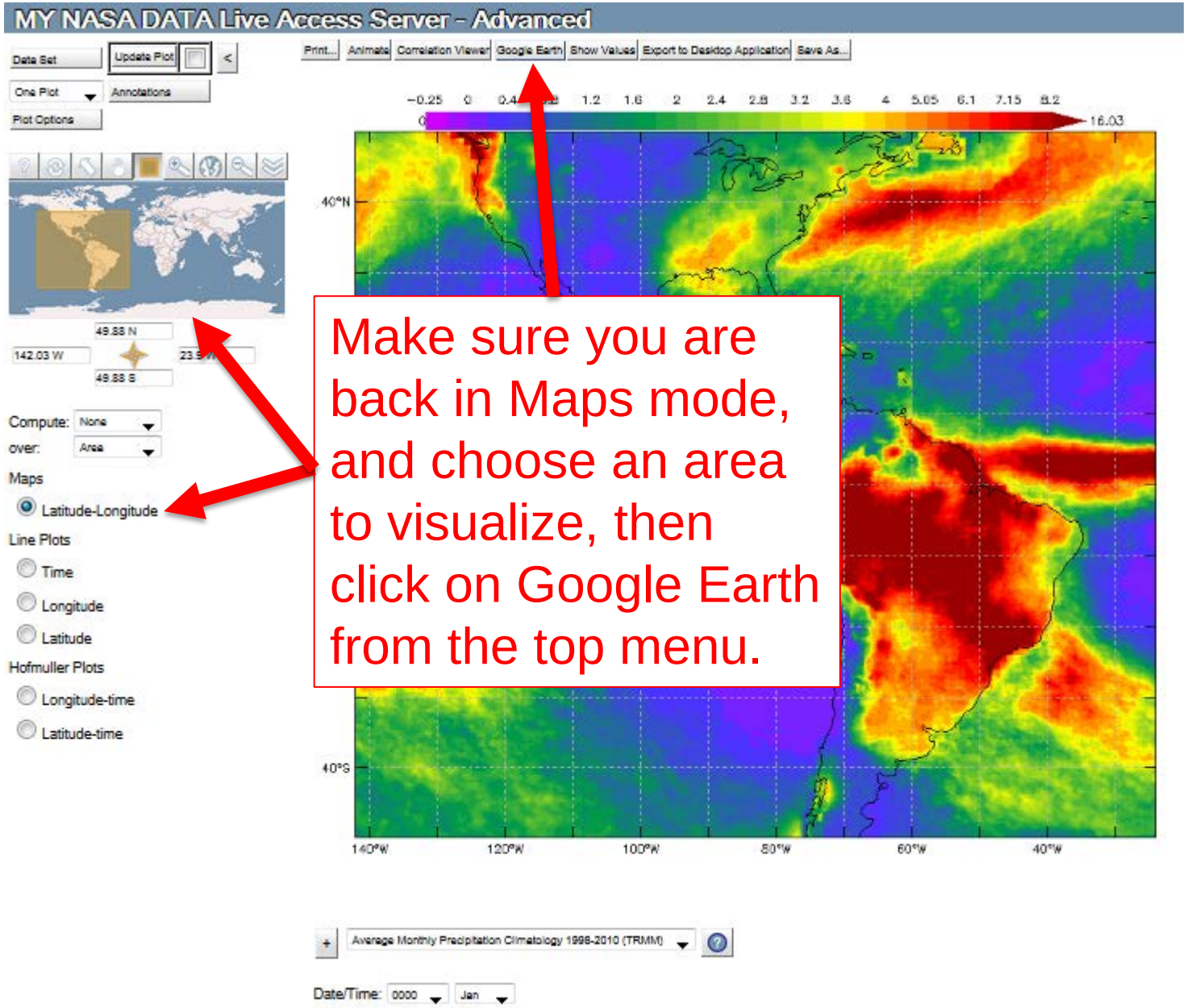
Excel spreadsheet



	A	B
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		

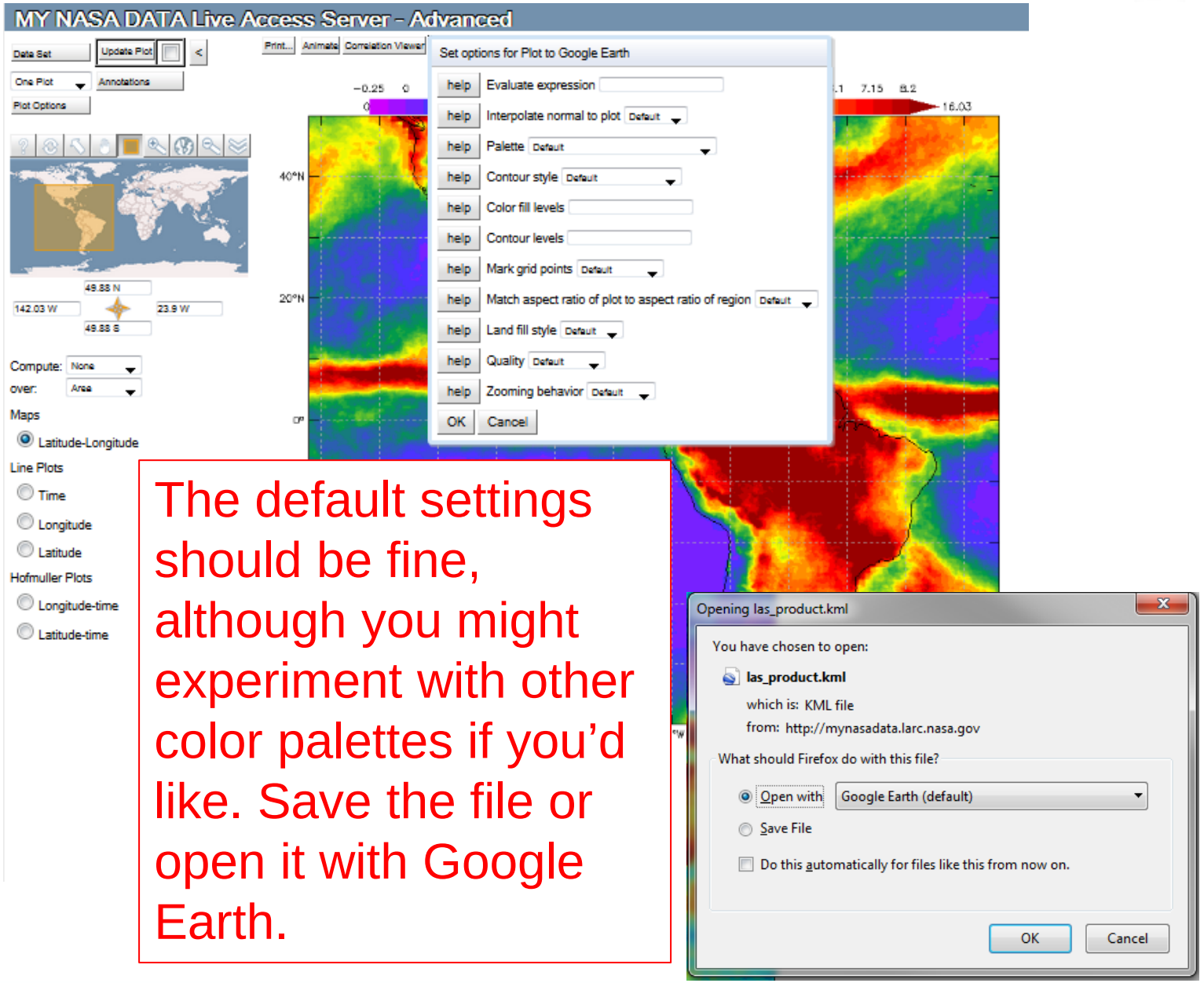
Getting data to use in Google Earth

Precipitation data in Google Earth



GLOBAL PRECIPITATION MEASUREMENT

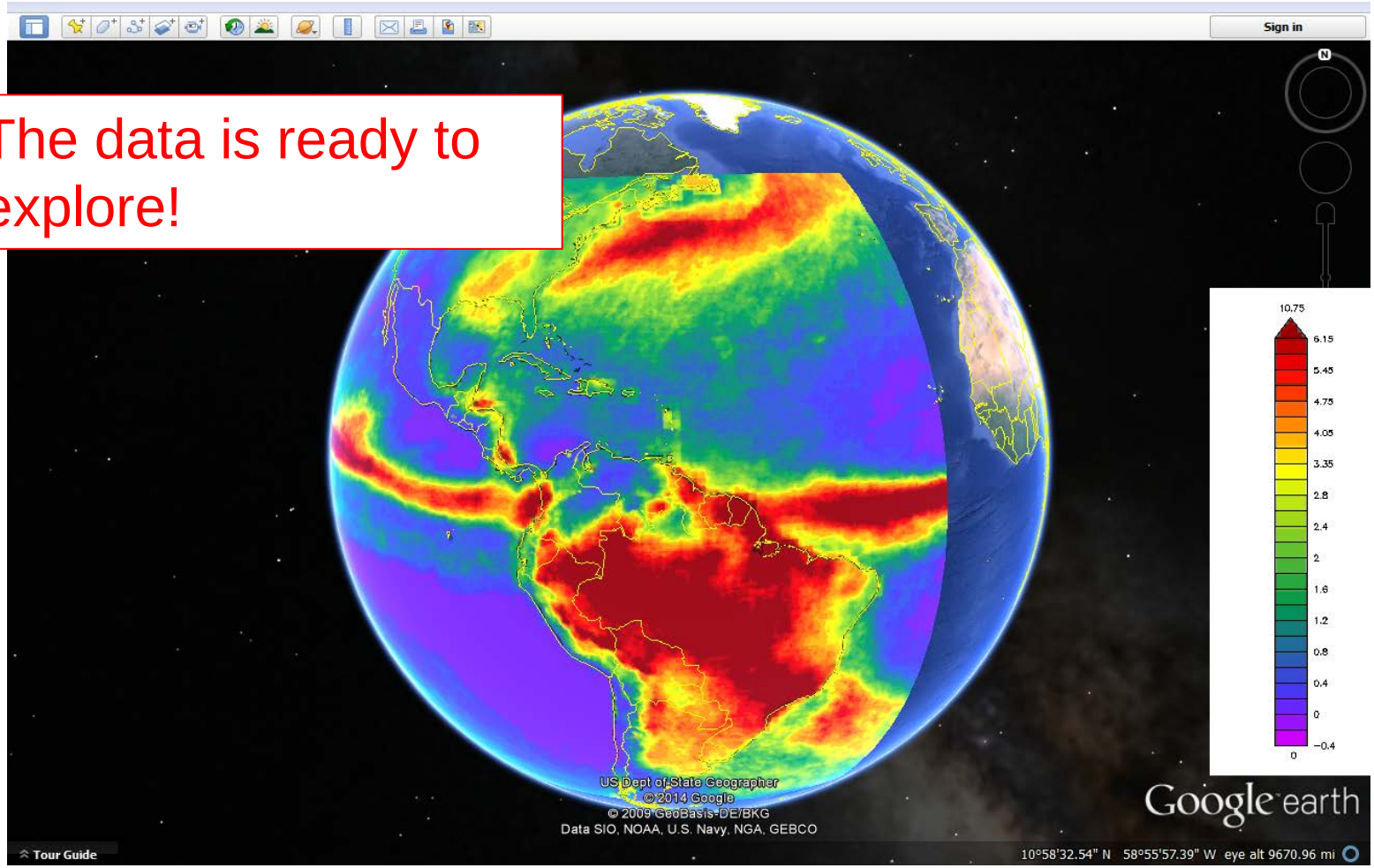
Getting the file



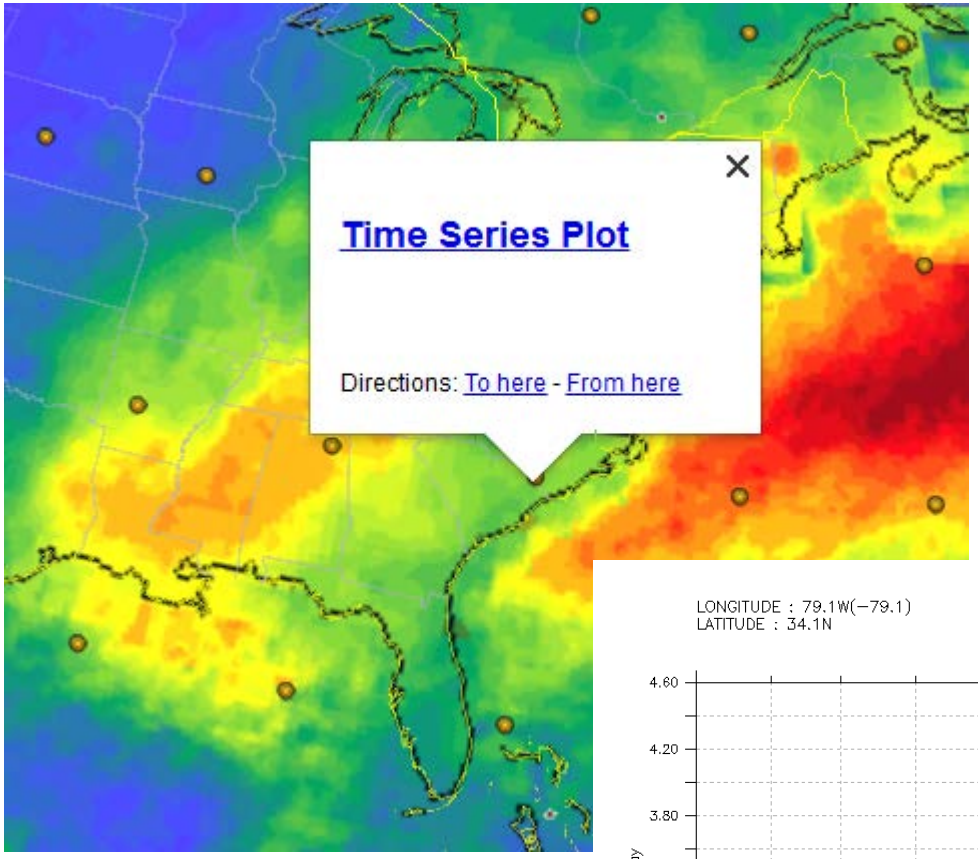
The default settings should be fine, although you might experiment with other color palettes if you'd like. Save the file or open it with Google Earth.

GLOBAL PRECIPITATION MEASUREMENT

The data is ready to explore!



Time series plots



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