



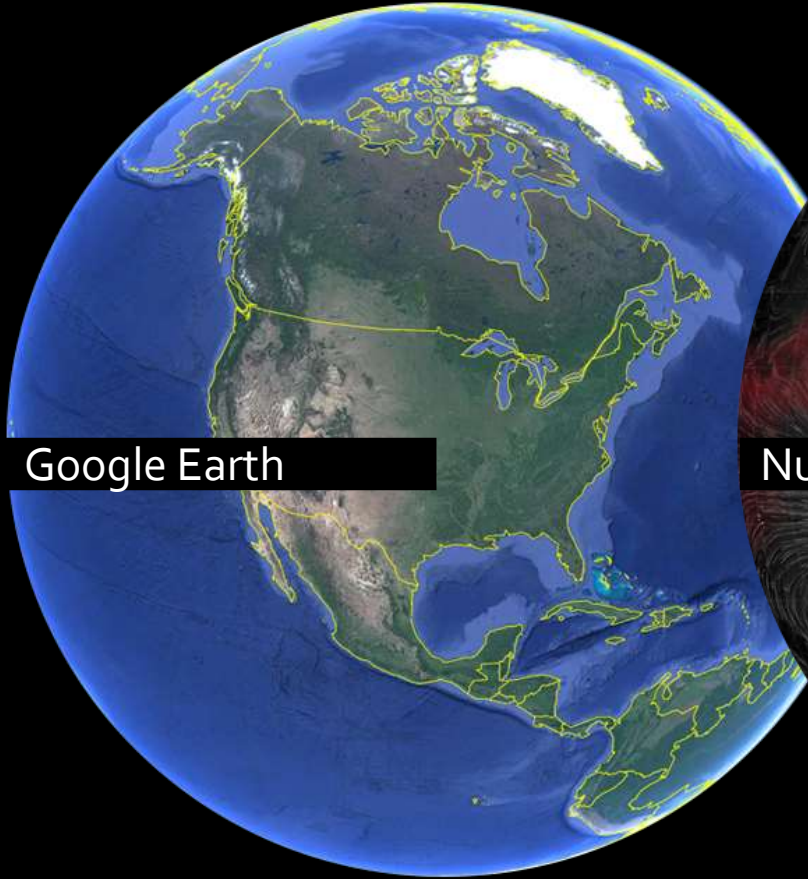
Going Beyond the Default

From shiny balls to educating in formal and informal settings

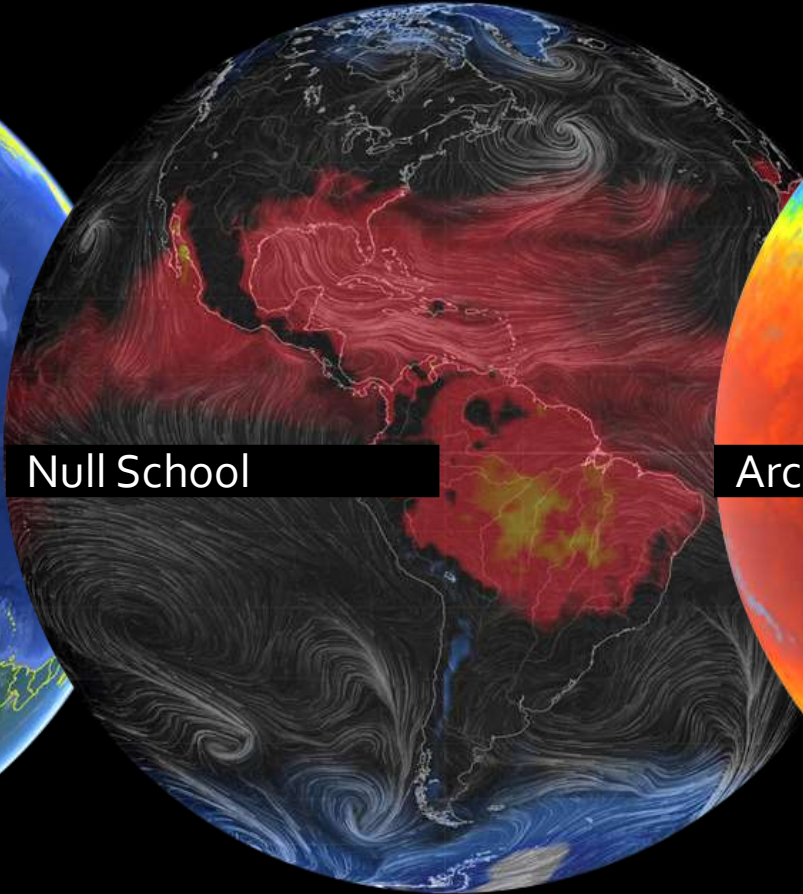




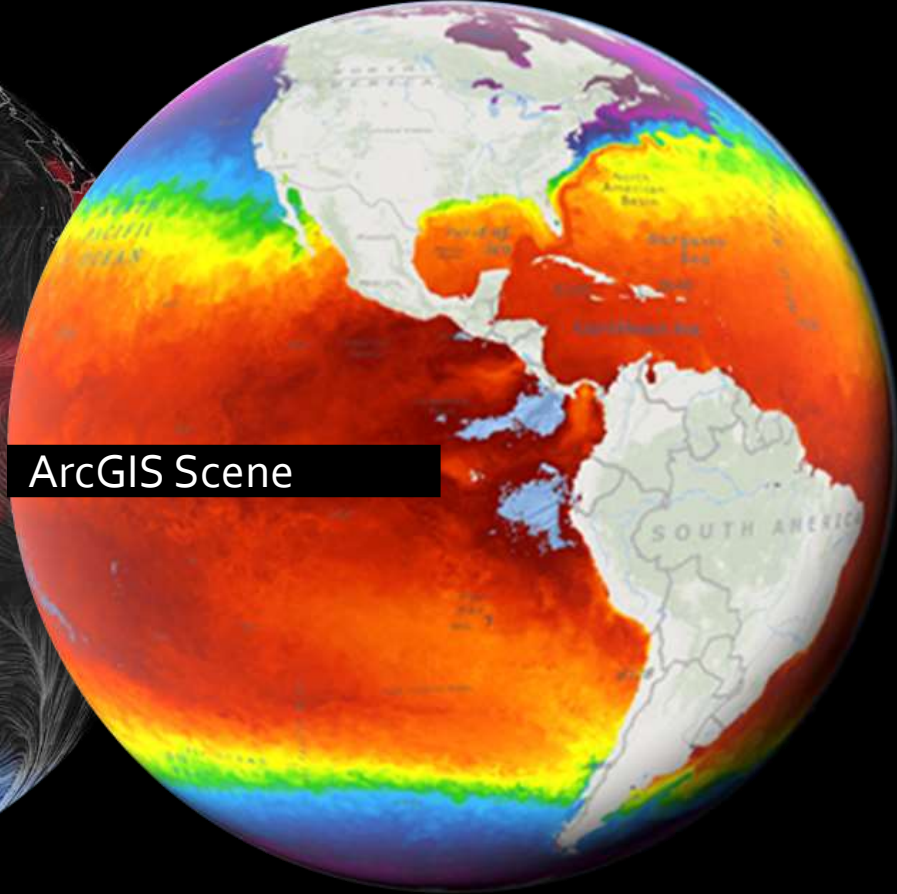




Google Earth



Null School



ArcGIS Scene



USD/EGP 6.0793 6.1179 6.0986 6.1052 6.0911 0.00030.00%

USD/ARS	4.7083	4.7152
USD/AUD	0.9769	0.9773
USD/BBD	1.9521	2.0292
USD/BDT	80.100	82.877
USD/BGN	1.5092	1.5097
USD/BHD	0.3747	0.3793
USD/BIF	1441.00	1531.00
USD/BND	1.2015	1.2401
USD/BOB	6.8592	7.1678
USD/BRL	2.0418	2.0479
USD/BSD	0.9949	1.0057
USD/BWP	7.7113	7.9582
USD/BZD	1.9224	1.9995
USD/CLP	471.90	472.90
USD/CNY	6.2659	6.2679
USD/COP	1796.00	1799.00

7-0.22%  
0.72%  
-0.18%  
0.00%  
0.00%  
0%  
0.06%  
50.16%  
37-0.32%  
00.05%  
-0.03%

472.40 473.65 472.15

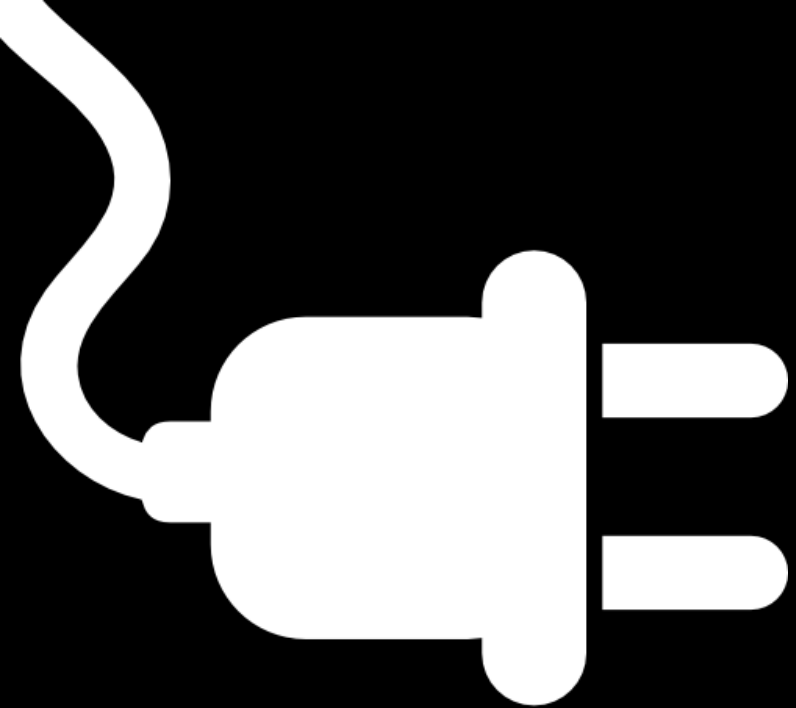








how do *we* **CREATE** the tools that promote *data literacy*?



Today

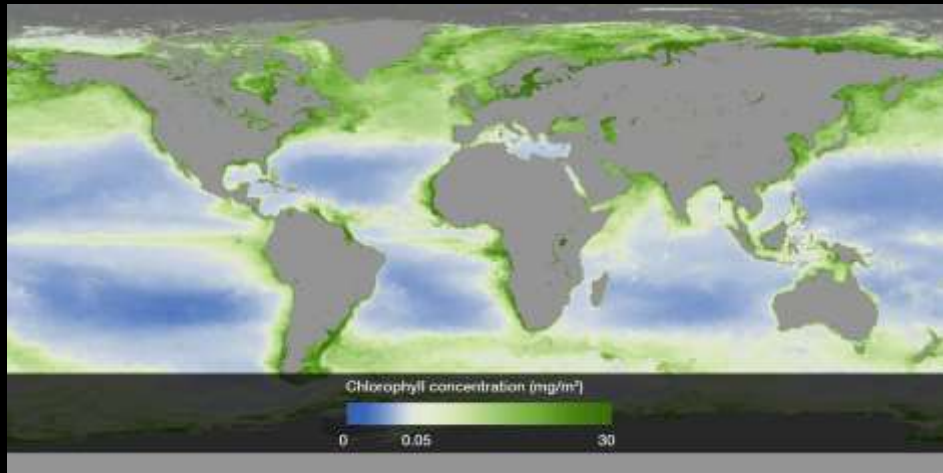
11am (Formal Ed)

1-3pm (Content)

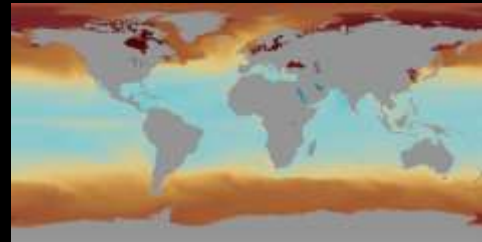




NOAAVIEW<sup>THEN</sup>



NOAAVIEW<sup>NOW</sup>





## Data in the Classroom

Home El Niño Sea Level

### Put Big Ocean Data to Work in Your Classroom!

With NOAA's Data in the Classroom, students use real-time ocean data to explore today's most pressing environmental issues, and develop problem-solving skills employed by scientists. Access online and classroom-ready curriculum activities with a scaled approach to learning and easy-to-use data exploration tools.

#### El Niño

People blame El Niño for all kinds of abnormal weather. But how does El Niño really work?

#### Sea Level

Scientists know that global sea level is rising. But how are water levels monitored and measured to understand impacts?

#### Coral Bleaching

Coming Soon - new, updated module resources, curriculum and data tools.

#### Water Quality

Coming Soon - new, updated module resources, curriculum and data tools.

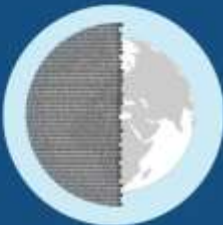
#### Ocean Acidification

Coming Soon - new, updated module resources, curriculum and data tools.

### Teaching Resources



In Each Module



Using the Technology



Pedagogical Approach



Community and News

Alignment of content between SOS and classroom curriculum

NGSS aligned

Works on any display device

Received highest evaluation in NOAA from the Climate Literacy Education Action Network

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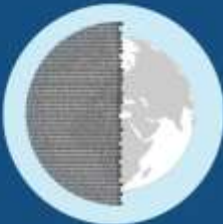
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### Teaching Resources



In Each Module



Using the Technology



Pedagogical Approach



Community and News

## Understanding El Niño Using Data in the Classroom



Introduction Level 1 Level 2 Level 3 Level 4 Level 5 Get Data Teachers Guide

### Relating SST to Productivity

#### Question 1.

Which SST map might indicate a disruption in upwelling?

- Left map
- Right map

Check my answer

#### Question 2.

Which chlorophyll concentration map might indicate a disruption in upwelling?

- Left map
- Right map

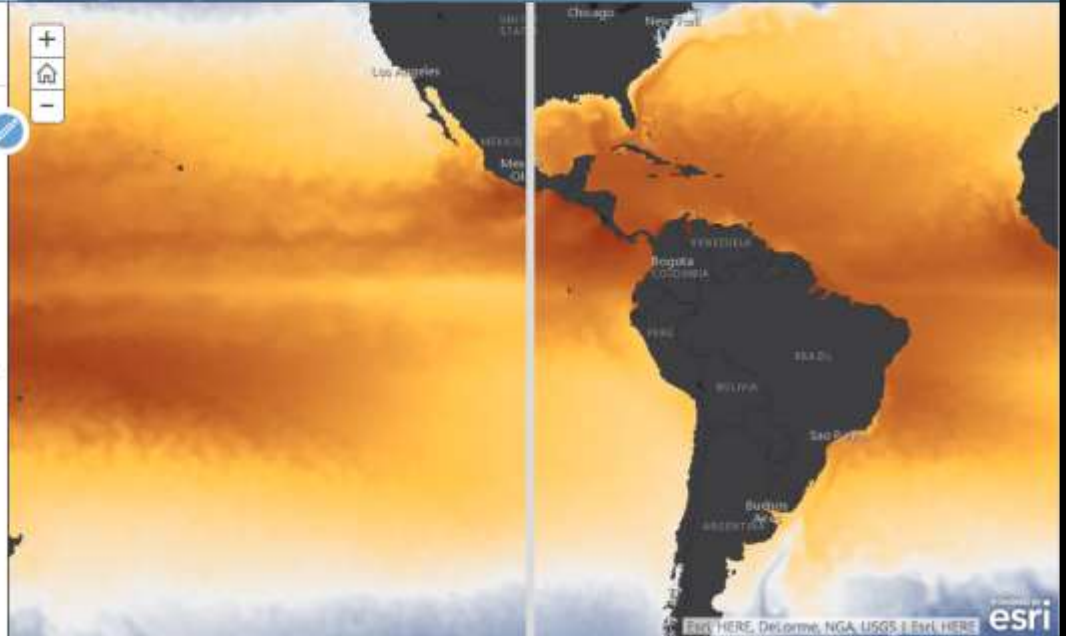
Check my answer



ADD SECTION



ORGANIZE

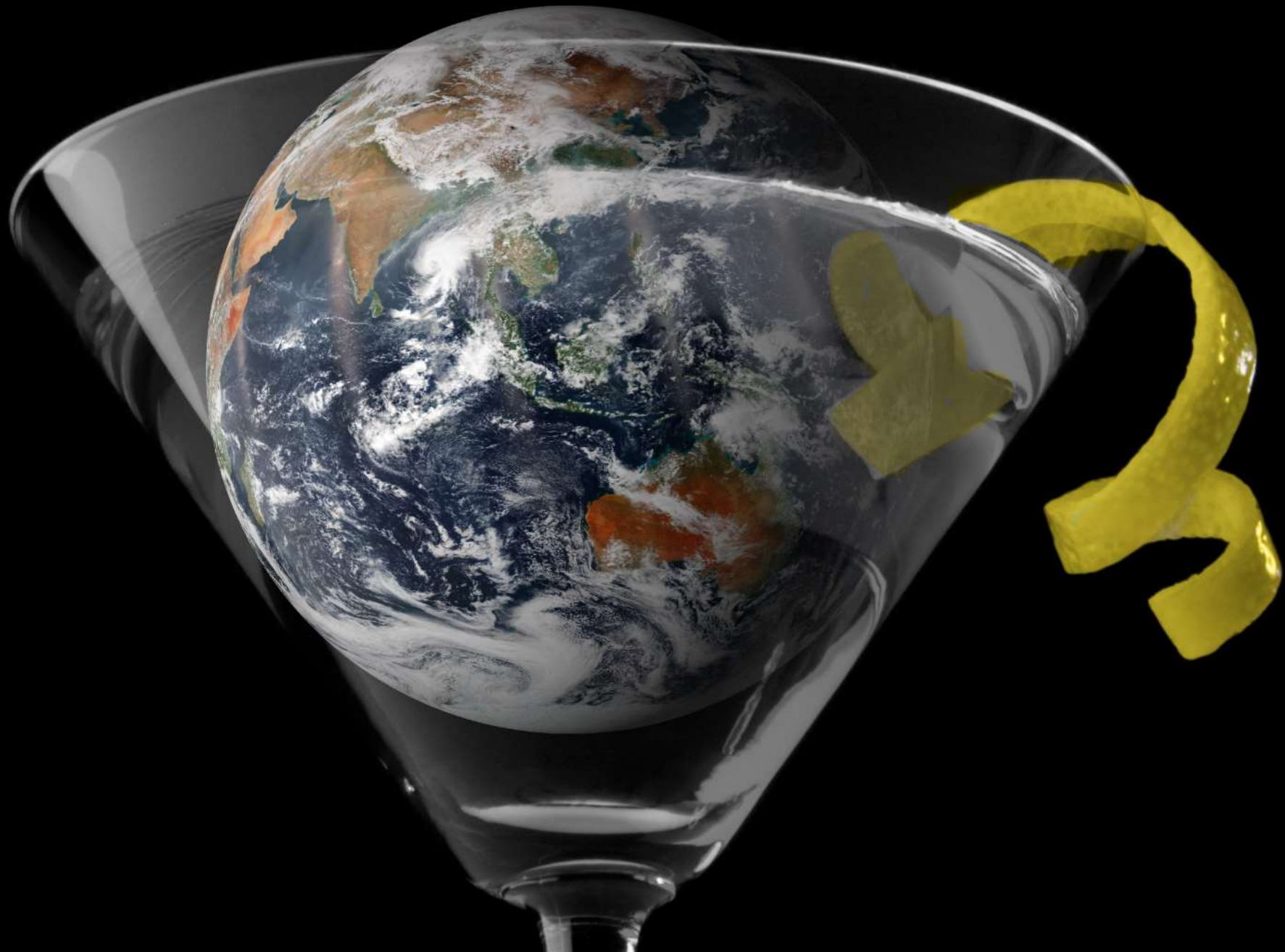




*what's under the hood?*  
Data in the Classroom

11am Classroom #2







# Tips and Tricks

Photoshop and AfterEffects

Simplifying data imagery

Choosing the right color palette

Annotate and animate

Downloading from NOAA and NASA

1pm Classroom #1





SOS<sub>rapid</sub>

Skip the download – harvest services

Create global to local datasets in under 10 minutes

Publish the new data imagery and build your own apps



