Task 1: Real Time Data Website Exploration

[Provide students with general background on NANOOS and the type of data it provides the public. Discuss why this data could be critical for stakeholders like fishermen, but can also be utilized by educators, policy makers, other researchers, etc.]

* Begin at <http://nvs.nanoos.org/Explorer>
* Click on a buoy of your choice
  + Is this buoy currently streaming data or is it down?
  + What type of data is your buoy measuring?
  + Look through your buoy’s history, is there anything interesting?
  + Discuss with those around you: what stakeholders would need this data? What does it tell them?
* Explore the “Layers” tab
* Explore the “Filters” tab
* Once you have finished exploring the data explorer tab, click on “apps” and take a look at the variety of other options NANOOS offers.

Task 2: Connecting Real Time Data to What You Are Doing and NGSS

1. Choose one data visualization website to explore

Go to

* 1. <http://www.earthsciweek.org/visualizations>

OR

* 1. <https://www.americangeosciences.org/critical-issues/search-maps-visualizations>

1. Explore NGSS Topics to determine the phenomena/topic the visualization relates to

* 1. Open the link below in another tab
     1. <https://ngss.nsta.org/AccessStandardsByTopic.aspx>

1. Look at the visualizations and NGSS
   1. Discuss
      1. What visualisations could be integrated into what to you are teaching?

* + 1. Can you create an exploration activity using to jump start (or hook students into) a lesson or unit?

* + 1. Brainstorm an activity and the NGSS topic in a group of 3, and discuss what:
       1. what visualization
       2. what topic

AND

* + - 1. how would you build on the kinds of ‘data,’ and the ‘phenomena’ students will interact with during the exploration?
      2. This will be shared out to the group