

Day 7: Challenge

Sam Mogen and Megan TM

We will again look at pH from the JMA data product!

Please focus on answering the following questions in the challenge:

- How does pH change in the data product from 1998 to 2010? (make sure to use a colormap that shows changes clearly)
 - o Hint: you can simply subtract the 1998 values from 2010 to see the change
- What regions show the largest differences in pH over time?
 - o Hint: look qualitatively
- Plot seasonal maps for the dataset from the years 2000-2005 and compare.
 - o Hint: use the 'groupby' function we discussed in class
- Pick a point or points in the global ocean and add them to your maps!
 - o Start with the location of the buoy you recently looked at off the coast of New York (location: (40.251, -73.164))
 - o Hint: use the ax.scatter() as discussed earlier
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*Remember to start your new notebook with markdown text explaining the goals include comments

** Be sure to label the figures with titles and colorbars!