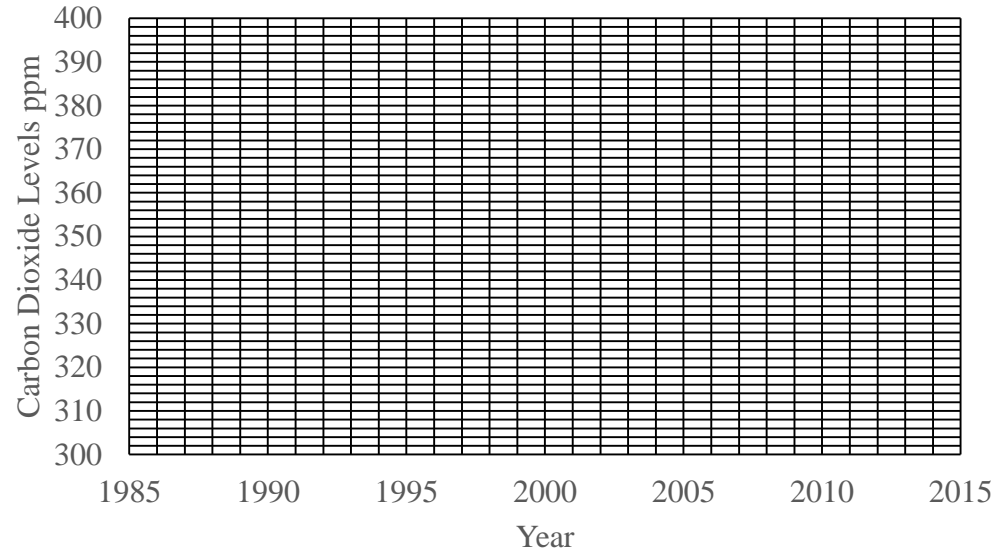


Measured from samples taken in Hawaii

Year	Average Atmospheric CO <sub>2</sub>	Average Ocean pH
1988	331	8.109
1989	332	8.107
1990	323	8.119
1991	329	8.111
1992	333	8.107
1993	332	8.110
1994	334	8.107
1995	335	8.104
1996	342	8.096
1997	340	8.100
1998	348	8.094
1999	348	8.095
2000	354	8.087
2001	354	8.087
2002	352	8.089
2003	348	8.093
2004	349	8.091
2005	358	8.083
2006	354	8.087
2007	364	8.077
2008	362	8.079
2009	368	8.076
2010	365	8.078
2011	364	8.078
2012	375	8.068
2013	375	8.069
2014	372	8.071

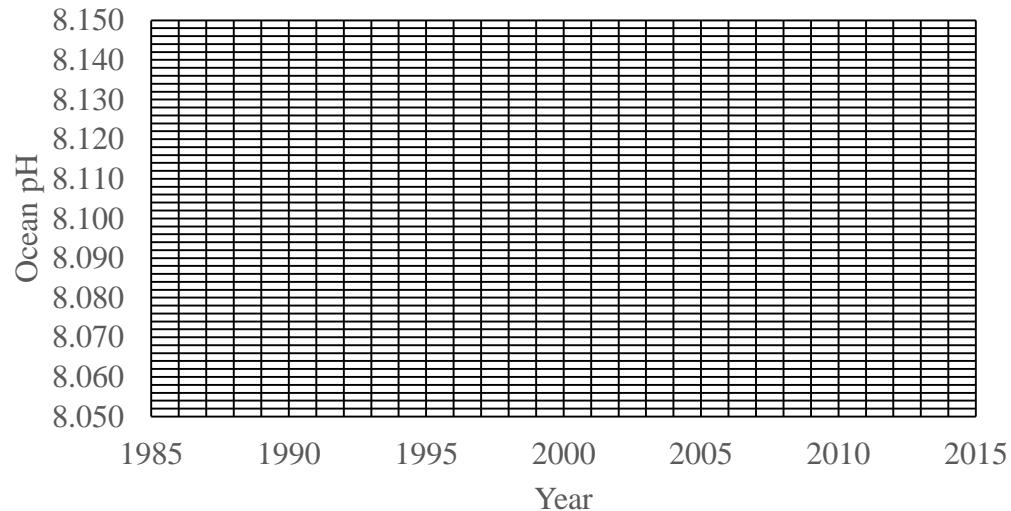
Atmospheric Carbon Dioxide by year, Hawaii



Directions:  
Use the data provided to graph carbon dioxide levels for 1998 to 2014.

What general trend do you observe for carbon dioxide levels over this time period?

Ocean pH by year, Hawaii



Directions:  
Use the data provided to graph pH levels for 1998 to 2014.

What general trend do you observe for pH levels over this time period?

Based on your observations, what do you think is meant by the term "ocean acidification"?

Complete the statement:  
As atmospheric carbon dioxide increase, pH levels in the ocean \_\_\_\_\_.



<https://www.epa.gov/climate-indicators/climate-change-indicators-ocean-acidity>