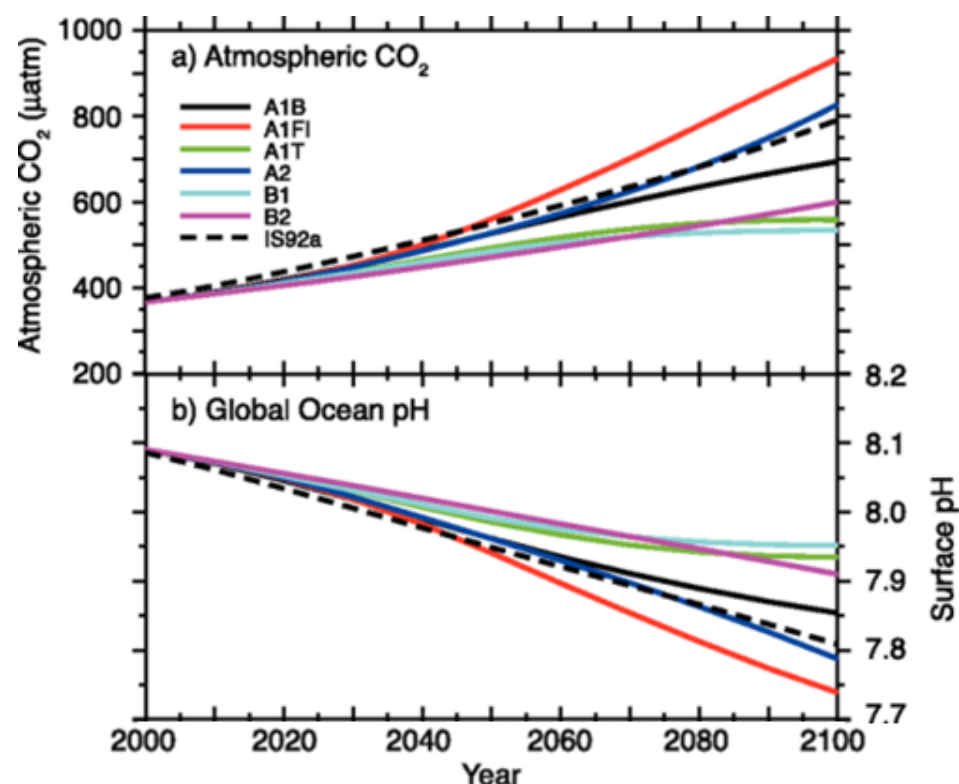


## Ocean Acidification Data Figure

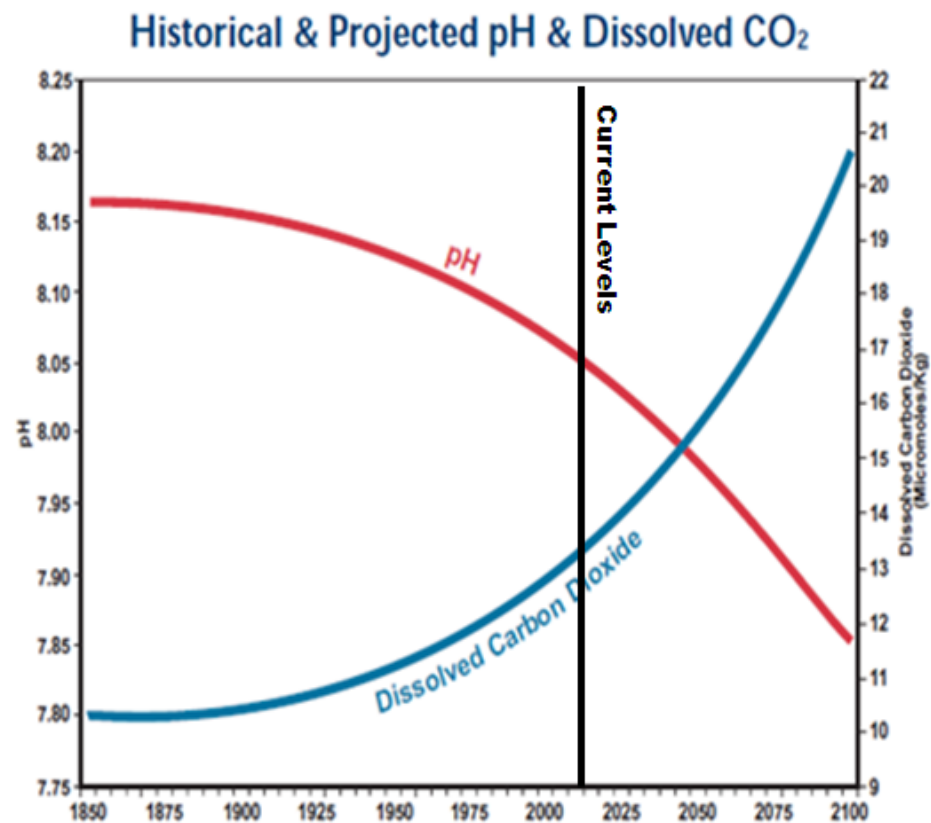
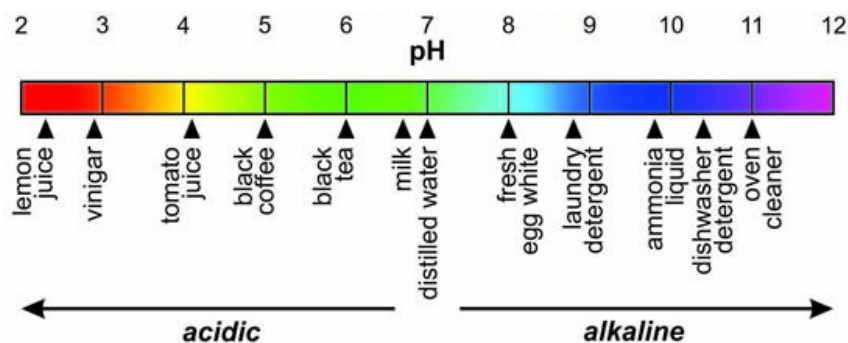
**Atmospheric CO<sub>2</sub> and Global Ocean pH** – The figures were made by the Intergovernmental Panel on Climate Change (IPCC). The top graph in Figure 1 shows projected atmospheric CO<sub>2</sub> levels from 2000 to 2100 and the bottom graph shows projected global ocean pH levels for the same timeframe. The different lines represent the different emission scenarios that went into the model. Figure 2 is a summary of the factors that went into each model.



(Orr, J.C., V.J. Fabry, O. Aumont, L. Bopp, S.C. Doney, R.A. Feely, A. Gnanadesikan, N. Gruber, A. Ishida, F. Joos, R.M. Key, K. Lindsay, E. Maier-Reimer, R. Matear, P. Monfray, A. Mouchet, R.G. Najjar, G.O.K. Plattner, K.B. Rodgers, C. Sabine, J.L. Sarmiento, R. Schlitzer, R.D. Slater, I.J. Totterdell, M.-F. Weirig, Y. Yamanaka, and A. Yool. 2005. Anthropogenic Ocean Acidification over the Twenty-first Century and Its Impact on Calcifying Organisms. *Nature* 437)

## Ocean Acidification Data Figure

**pH and Oceanic Dissolved CO<sub>2</sub>** – The graph combines historical data with future predictions made using models to show changes in pH and dissolved carbon dioxide in the ocean over time. For reference, the scale on the left shows the pH of some common liquids.

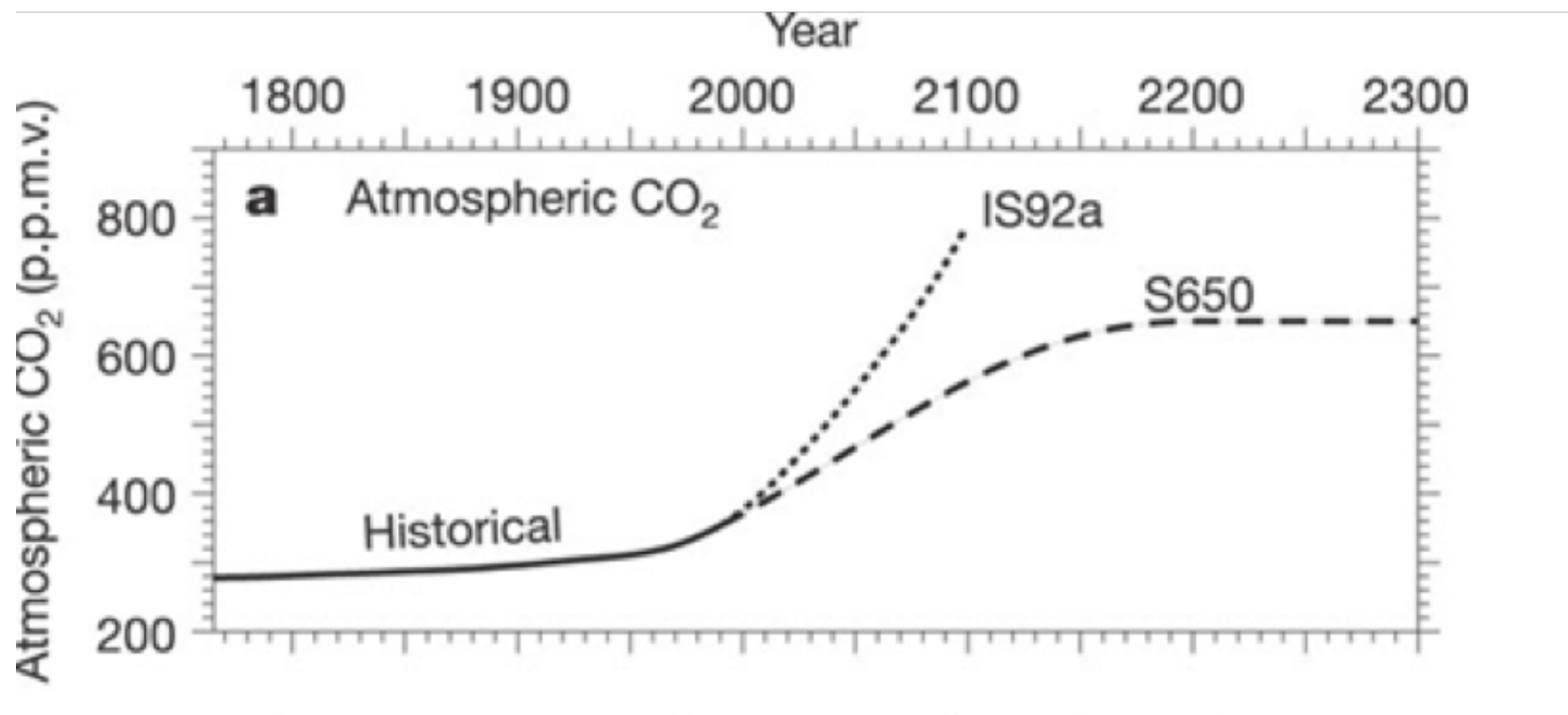


Feely, Richard A., et al. (2006) Carbon Dioxide and Our Ocean Legacy. Pew Trust

(Feely, R.A., C.L Sabine, and V.J. Fabry. 2006. Carbon Dioxide and Our Ocean Legacy. Pew Trust)

## Ocean Acidification Data Figure

**Atmospheric CO<sub>2</sub> Over Time** - The graph shows atmospheric carbon dioxide levels from the 1800s to predicted levels in 2300. Two different Intergovernmental Panel on Climate Change (IPCC) models are used in this figure. IS92a uses carbon dioxide emissions that continue at today's rate. S650 uses carbon dioxide emissions that decrease and eventually become steady.



(Orr, J.C., V.J. Fabry, O. Aumont, L. Bopp, S.C. Doney, R.A. Feely, A. Gnanadesikan, N. Gruber, A. Ishida, F. Joos, R.M. Key, K. Lindsay, E. Maier-Reimer, R. Matear, P. Monfray, A. Mouchet, R.G. Najjar, G.O.K. Plattner, K.B. Rodgers, C. Sabine, J.L. Sarmiento, R. Schlitzer, R.D. Slater, I.J. Totterdell, M.-F. Weirig, Y. Yamanaka, and A. Yool. 2005. Anthropogenic Ocean Acidification over the Twenty-first Century and Its Impact on Calcifying Organisms. *Nature* 437)