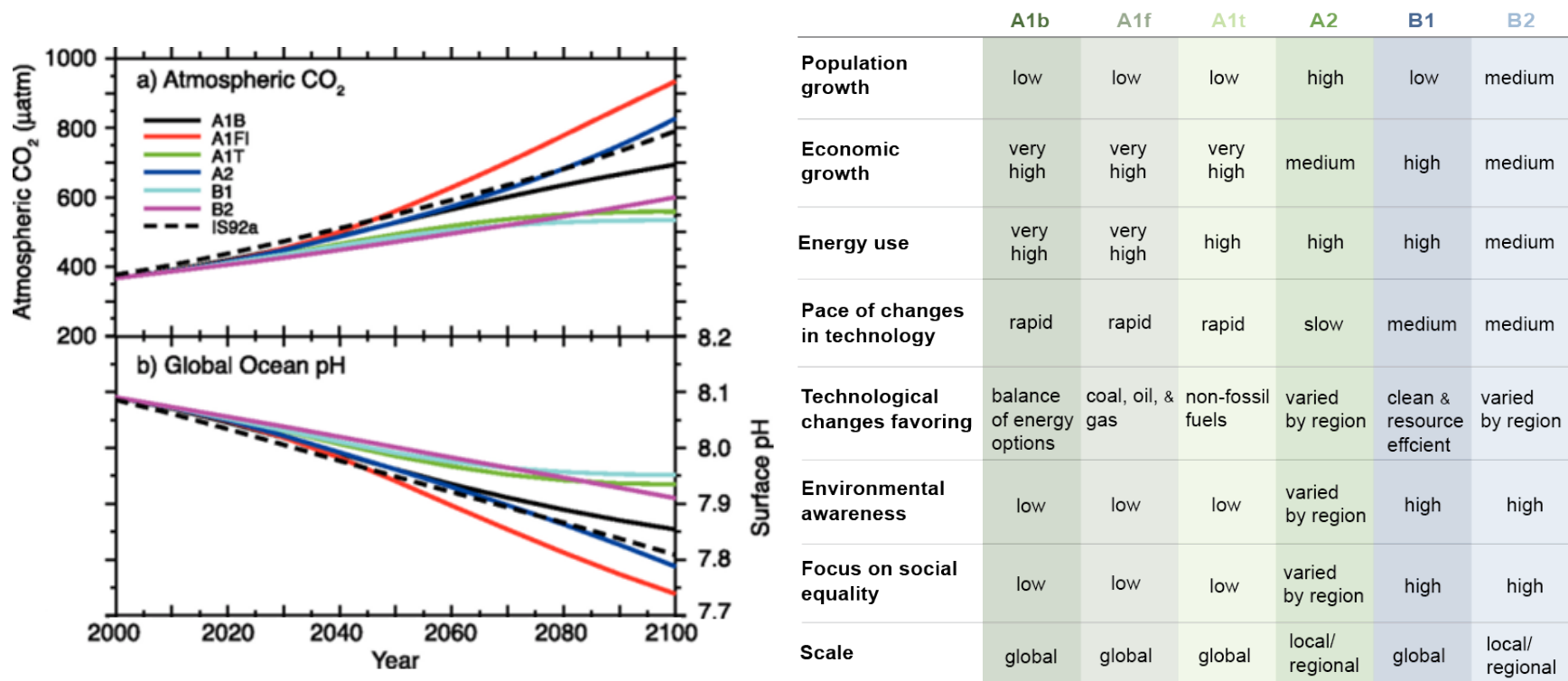


Ocean Acidification Data Figure

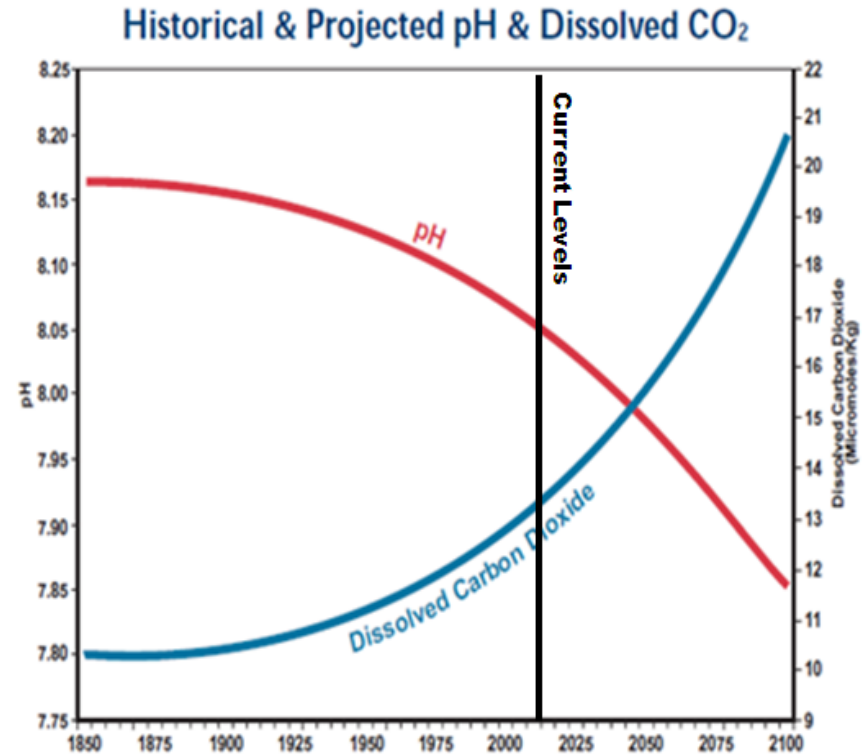
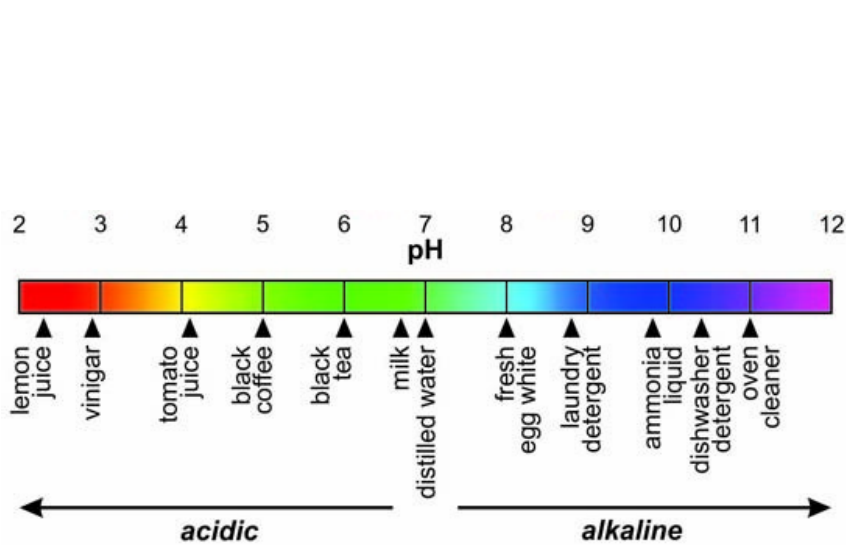
Atmospheric CO₂ and Global Ocean pH – The graph shows different scenarios based upon population, economic growth, etc. as predicted by the Intergovernmental Panel on Climate Change (IPCC). The top figure shows projected atmospheric CO₂ levels from 2000 to 2100, the bottom figured shows projected global ocean pH levels for the same timeframe. The different lines represent the different emission scenarios that went into the 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 CO₂ – The graph combines historical data with predictions made using models to show pH and oceanic dissolved carbon dioxide over time.

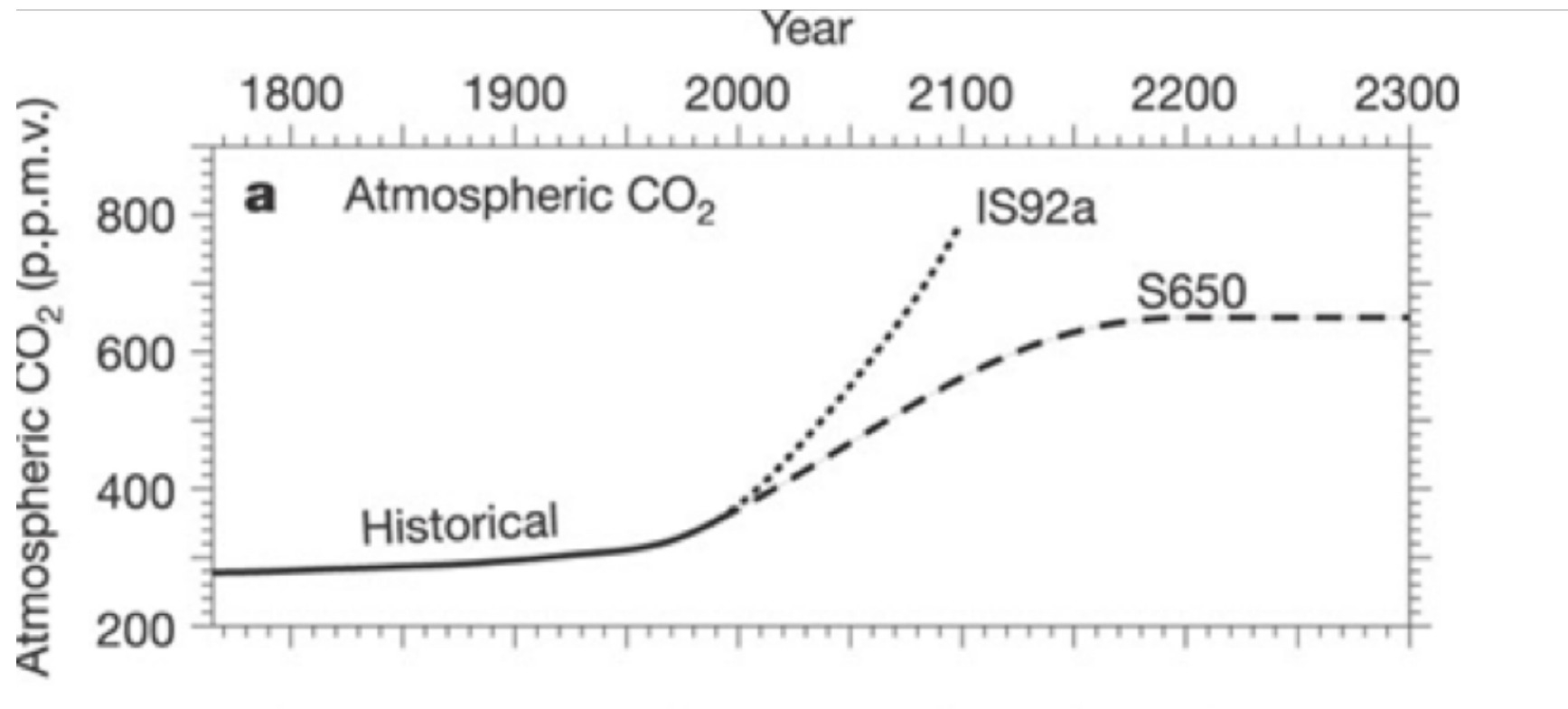


Feely, Richard A., et al. (2006) Carbon Dioxide and Our Ocean Legacy. Pew Trust

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

Ocean Acidification Data Figure

Atmospheric CO₂ Over Time - The graph shows atmospheric carbon dioxide levels from the 1800s to predicted levels in 2300. Two different IPCC models are used in this figure. IS92a uses carbon concentrations that increase at 1% per year after 1990 and carbon dioxide emissions that continue at today's rate. S650 uses carbon dioxide emissions that decrease and eventually the atmospheric CO₂ levels stabilize (a stabilization scenario).



(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)