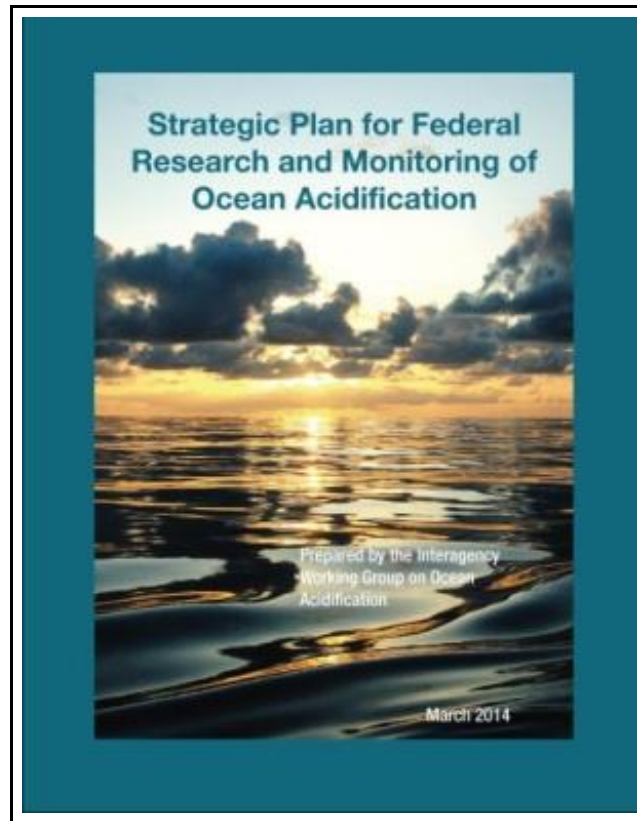


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*(Dr. Ron Kovacek)*


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Createspace, United States, 2015. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Human industrial, transportation, and agricultural activities have caused global atmospheric concentrations of carbon dioxide (CO<sub>2</sub>) to increase from a pre-industrial average of 280 parts per million (ppm) to the current value of approximately 400 ppm (IPCC AR5 2013). Atmospheric CO<sub>2</sub> concentrations are now higher than experienced on Earth for more than 800,000 years (Luthi et al. 2008), and the rate of CO<sub>2</sub> release into the atmosphere is likely unprecedented in Earth history (Kump et al. 2009; Honisch et al. 2012). Ocean carbonate chemistry is a natural buffering system, but this buffering capacity is being compromised as a direct result of CO<sub>2</sub> absorption by the oceans and to a lesser extent by the absorption of nitric acid(HNO<sub>3</sub>) and sulfuric acid (H<sub>2</sub>SO<sub>4</sub>) at the sea surface (Doney et al. 2007). The oceans have absorbed approximately half of the anthropogenic CO<sub>2</sub> emissions from fossil fuel use and cement manufacturing over the past 200 years (Sabine et al. 2004). This oceanic uptake of CO<sub>2</sub> causes changes to ocean chemistry (Figure 1), including decreases in pH and carbonate ion (CO<sub>3</sub><sup>2-</sup>) concentrations, collectively known as global ocean acidification (Figure 2). Since the beginning of the industrial revolution, this uptake has caused a lowering of the surface ocean pH globally from about 8.2 to 8.1 (Caldeira and Wickett 2003; Feely et al. 2004; Caldeira and Wickett 2005; Feely et al. 2009), which corresponds to a 26 increase in hydrogen ion concentration, (H<sup>+</sup>, acidity). Reconstruction of past sea surface conditions suggest surface ocean pH has not been this low for at least 2 million years (Honisch et al. 2009). Orr et al. (2005) predicted an additional decrease in average global ocean surface pH of 0.3 to...

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