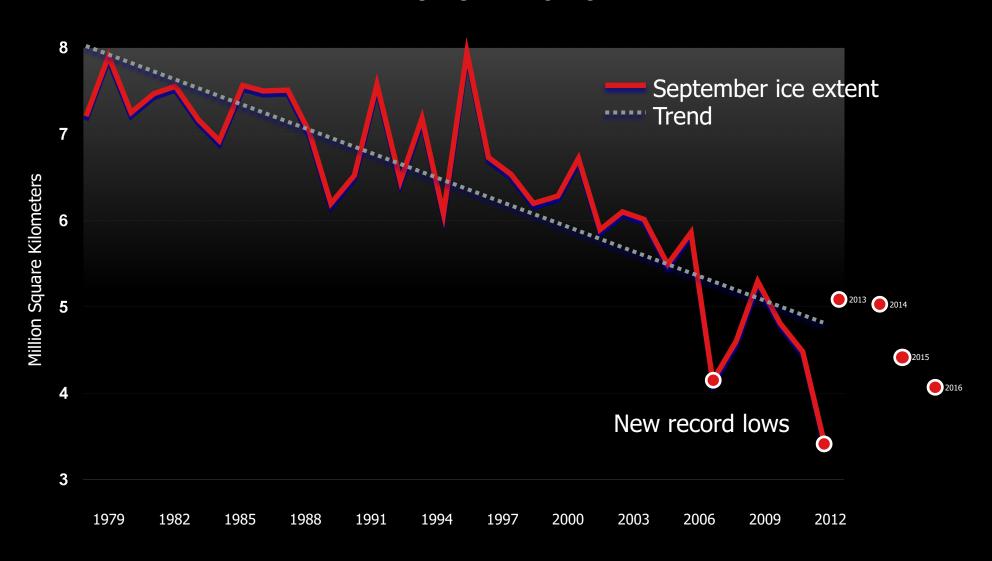
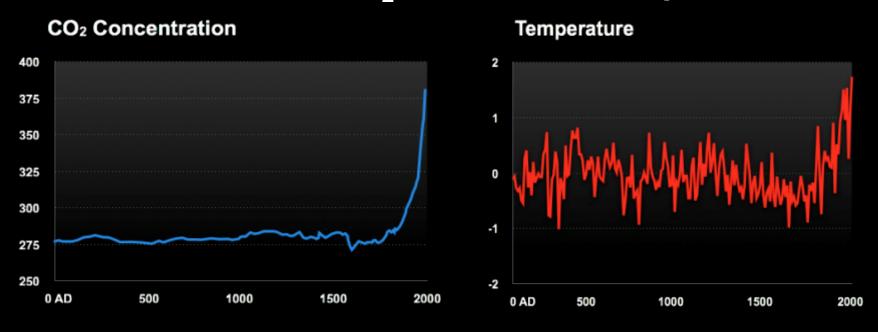


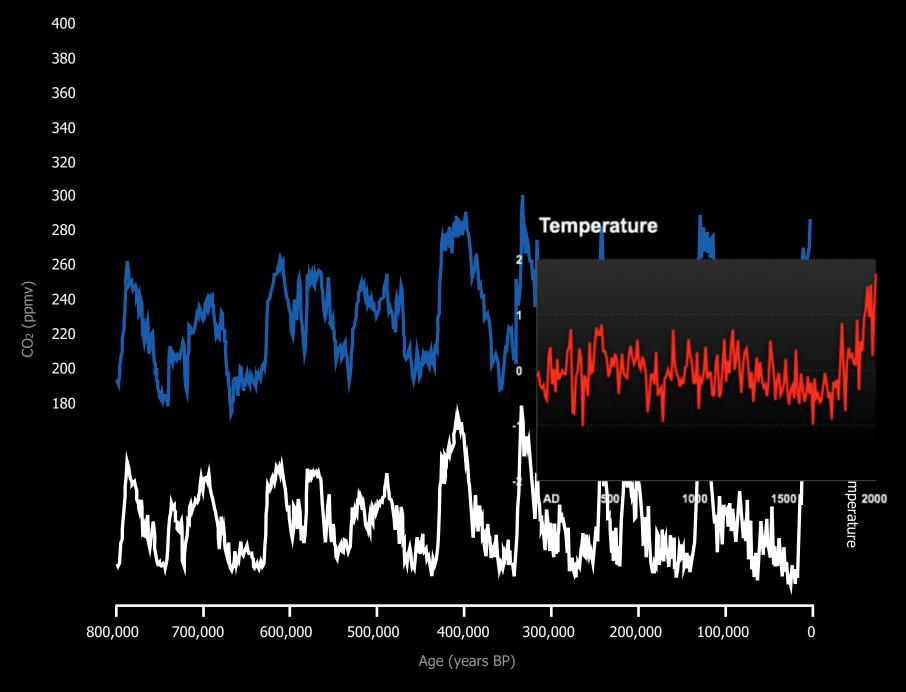
September Arctic Sea ice extent

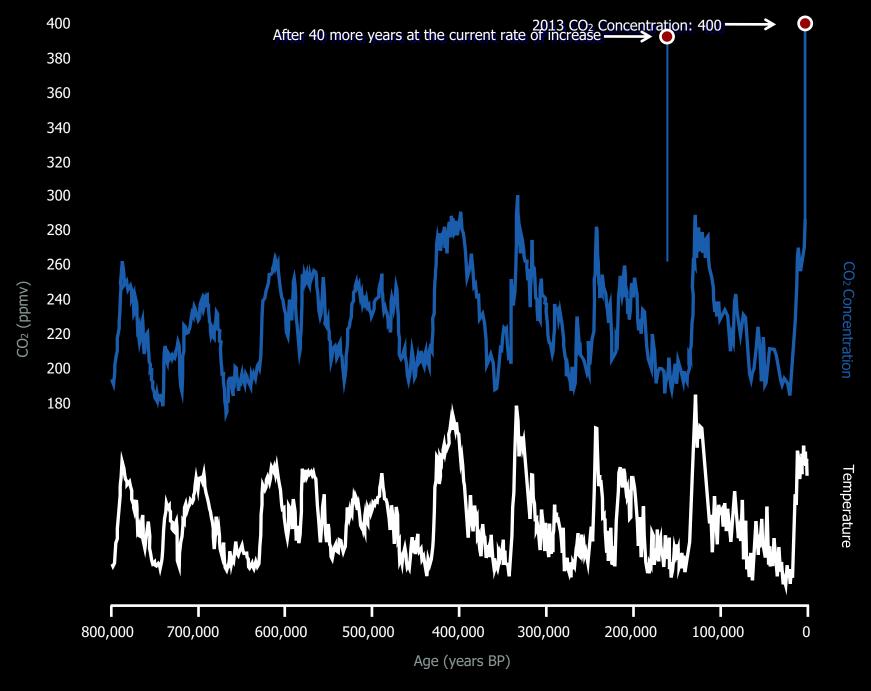


As CO₂ Increases, So Does the Temperature

2000 Years of CO₂ and Global Temperature

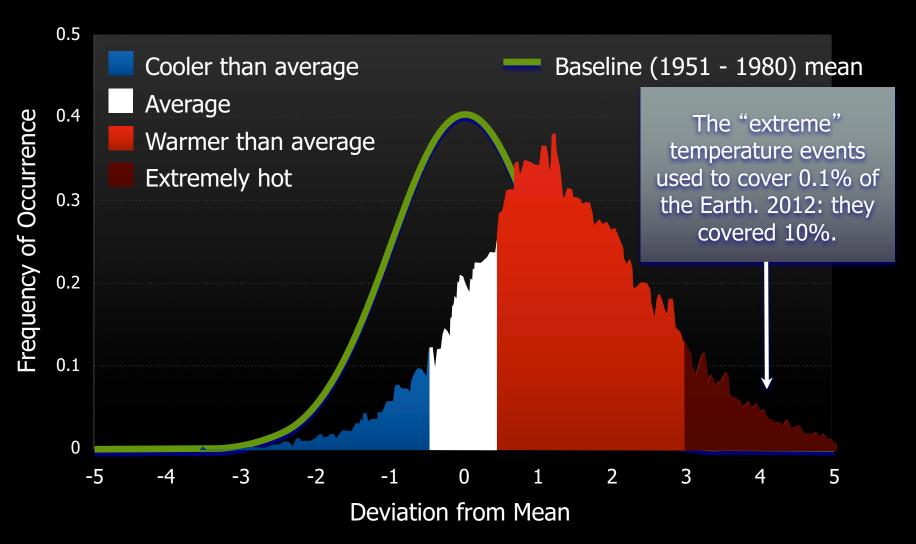




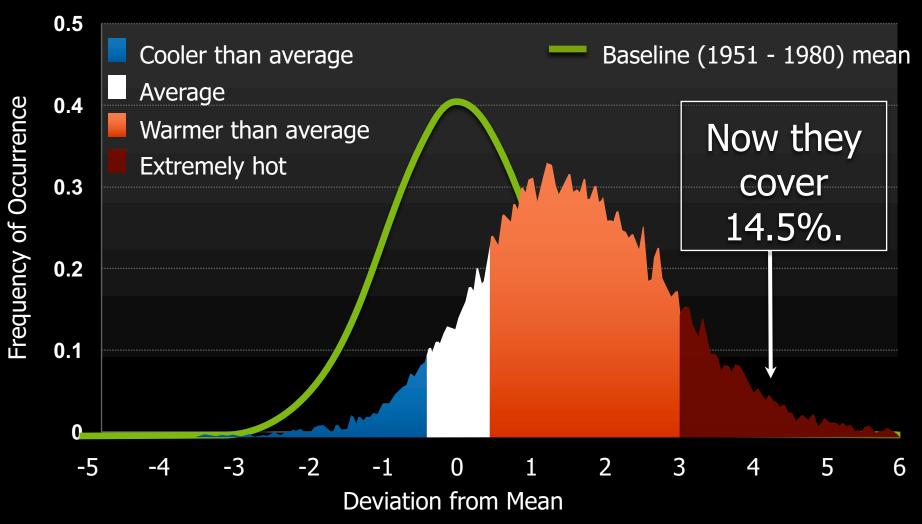


2017 was the 41st consecutive year with a global temperature above the 20th century average

Summer temperatures have shifted



Look at last 10 years... 2005 to 2015...



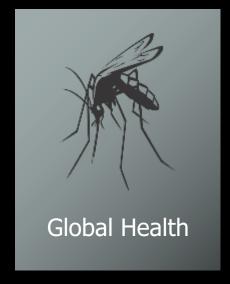
Source: Hansen, et al., "Perceptions of Climate Change," Proc. Natl. Acad. Sci. USA 10.1073, August 2012 – Updated 2016

Global systems vulnerable to climate

Disruptions ~ Political/societal instability









There is already 4% more water vapor over the oceans than there was only 30 years ago

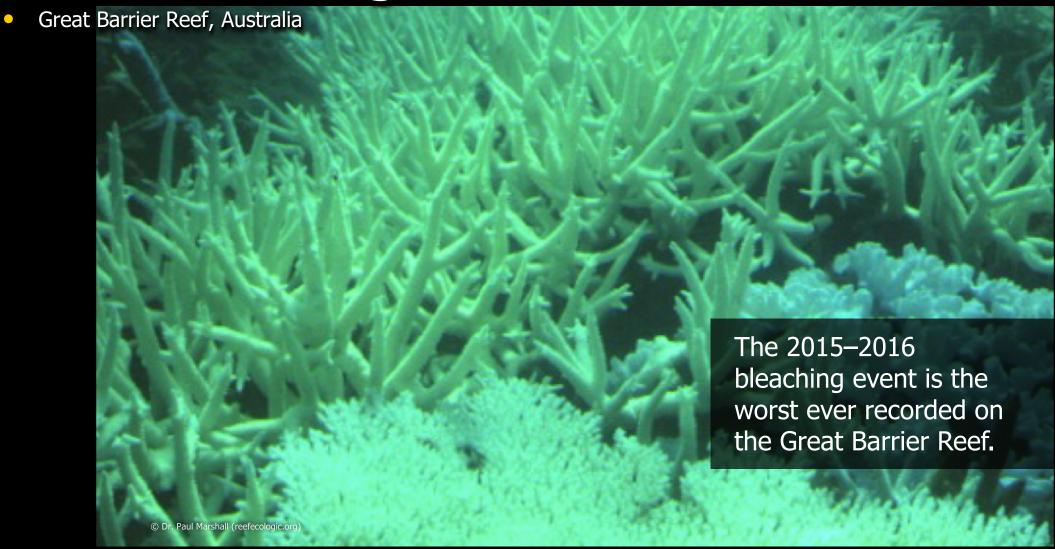




We have lost more than half of the animals on our planet in the last 40 years



Coral bleaching



Tropical diseases on the move







End of This Module

Any Questions?

