

## EART258

### Deep Time Paleoclimates Syllabus

Reading List at WWW: <http://ic.ucsc.edu/~jzachos/eart258/>

Date	Topic	Required Readings	Present.
<b>20-Mar</b>	Introduction, logistics	Kiehl 2011	<a href="#">Slides_31Mar14</a>
<b>4-April</b>	Radiative Balance, Sensitivity, Climate Controls of Geologic Time Scales, and Climate Proxies	Budyko, 1969; Sellers, 1969	
<b>6-April</b>	Faint young, Climate Models	Caldeira & Kasting, 1992; Kasting & Howard 2006;	
<b>11-Apr</b>	Archean - Proterozoic Climate	Roberston and Roadt 2011; Wolf & Toon; 2014	
<b>13-April</b>	Snow Ball Earth/Climate Modeling	Hoffman et al. 1998; Yang et al., 2012	
<b>18-April</b>	Paleozoic Climate (Ordovician)	Finnegan et al 2011; Herrmann et al., 2003;	
<b>20-April</b>	late Paleozoic Climate & Modeling	Montanez et al., 2007; Horton&Poulsen, 2009; 2010	
<b>25-April</b>	Permo-Triassic Extinction & Climate	Payne & Clapham, 2010; Joachimski et al., 2012	
<b>27-April</b>	Permo-Triassic Pangea Modeling	Kiehl & Shields 2005; Meyer et al., 2008	
<b>2-May</b>	Cretaceous Greenhouse Climates & Glaciations?	MacLeod et al, 2013; Borneman et al., 2008; van Helmond et al 2014	
<b>4-May</b>	Cretaceous Climate: Modeling	Fricke et al., 2011; Flogel et al., 2011; Poulsen et al 2003	
<b>9-May</b>	Reconstructing Cenozoic CO <sub>2</sub>	Royer et al. 2004; Pagani et al., 2005;	
<b>11-May</b>	Eocene Warm Poles and Cooling: Theory	Abbott et al., 2009; Royer et al, 2011	
<b>16-May</b>	Paleocene-Eocene Boundary Climate (marine)	Sluijs et al., 2006; Tripathi & Elderfield, 2005;	
<b>18-May</b>	Paleocene-Eocene Boundary Climate	Wing et al., 2005;	

	(Terrest)	Schmidt and Puljate, 2006	
<b>23-May</b>	Paleocene-Eocene Climate Modeling	Dickens et al, 1995; Lunt et al., 2010	
<b>25-May</b>	<b>Special guest lecture</b>		
<b>30-May</b>	<b>Holiday</b>		
<b>1-June</b>	Eocene-Oligocene Climate (marine/terrestrial)	Liu et al.,2009; Ivany et al.*	
<b>6-June</b>	Eocene-Oligocene Climate Modeling	DeConto & Pollard, 2003*	