

GEOG 493 – Geography of Climate and Environmental Change

Reading Material Schedule after Spring Break

GCES: Global Change and the Earth System

APEC: Atmospheric pollution and Environmental Change (Metcalf and Derwent)

CERA: Coastal Erosion Responses for Alaska (Smith), Workshop proceedings

- on reserve in Mather Library

Lecture	Date(s)	Subject	Readings
18, 19	17, 19 Mar	Drought and desertification	<i>The Enigma of Drought</i> (Wilhite), <i>A New Assessment of the World Status of Desertification</i> (Dregne, et al) Drought Indices (Hayes), Drought Comparison
20	21 Mar	Drought discussion	<i>Long-term aridity changes in the western U.S.</i> (Cook et al) <i>Climate warming and 21st century drought in southwestern North America</i> (MacDonald et al.)
21	24 Mar	Pollution	APEC pp. 1 - 50
22	26 Mar	Pollution and air quality in Alaska	guest lecturer - Dr. Cathy Cahill
23	28 Mar	Pollution discussion	GCES pp. 103-109 'Aerosols', Box 3.3 'Aerosols and their Characteristics', Box 3.4 'The Asian Brown Cloud', pp. 227-229 'Air Quality'
24 - 26	31 Mar – 4 Apr	Climate and society: vulnerability, risk, adaptation vs mitigation, sudden change, sustainability	GCES pp. 247-249 'Human Perceptions of Global Change', GCES Chapter 6
27	7 Apr	Sea level, erosion, and coastal communities	GCES pp. 115-117 IPCC report AR4 WG I (online), CERA report
	9 Apr	Exam 2	Material since Exam 1
28	11 Apr	ACIA report and high latitude change discussion	ACIA summary report, Serreze et al paper (online)
29	14 Apr	Research in Antarctica	guest lecturer - Dr. Gerd Wendler
30	16 Apr	High latitude change: Temperature and precipitation	Serreze et al paper guest lecturer – Dr. John Walsh
	18 Apr	No class – UAF Springfest	
31	21 Apr	High latitude change: sea ice	Serreze et al paper guest lecturer – Dr. Hajo Eicken
32	23 Apr	High latitude change: permafrost	Serreze et al paper guest lecturer – Dr. Vladimir Romanovsky
33	25 Apr	High latitude change: hydrology	Serreze et al paper guest lecturer – Dr. Daqing Yang
34	28 Apr	High latitude change: vegetation	Serreze et al paper guest lecturer – Dr. Glenn Juday