

**NATS 101-GC Introduction to Global Change – Fall 2010**  
**TEXTBOOK READING ASSIGNMENTS & SELF-TEST / READINESS QUIZ SCHEDULE**

Class Topic		SGC Text <sup>1</sup>		DP Text <i>Dire Predictions</i>	Other, e.g. <a href="#">Quick Links</a> , Class Notes	Self Test (ST) + Readiness Quiz (RQ)	ST/RQ Cutoff Date
		SGC-I Kump et al. ( <i>1<sup>st</sup> half</i> )	SGC-II Hobson ( <i>2<sup>nd</sup> half</i> )				
1	Course Overview					<i>Syllabus &amp; FAQ</i>	--
2	On Science & Being a Scientist	Ch 1 (1-17)			<a href="#">Pirsig Essay</a> Class Notes Topic # 2	<i>Global Change</i>	--
3	Global Change & Quantifying It				<a href="#">The Ecological Footprint</a>		
4	Energy & Matter Overview		Ch 2 (29-47) & Ch 6 (116-130)		Appendix II (Periodic Table)	1– Energy & Matter	Sep 2
5	Observations: Past & Present			Pt 1 (36-59)	Class Notes Topic #5		
6	Electromagnetic Radiation & Spectrum	Ch 3 ( 34-38)	Ch 9 (190-200)			2 –Electro-magnetic Radiation & Spectrum	Sep 9
	Introduction to Tree Rings				Appendix II (Tree Rings)		
7	The Radiation Laws	Ch 3 (39-44)		Pt 1 (22-23)			
8	Atmos Structure & Composition	Ch 3 (44-48)		Pt 1 (26-29) (32-33)		3- Atmospheric Structure & Composition	Sep 23
9	Thermodynamics & Energy Transfer		Ch 7 (131 -143)			4- Thermo-dynamics	Sep 30
10	The Global Energy Balance	Ch 3 (42-43) Ch 3 ( 48-51)		Pt 1 (64-65)	Appendix II (Energy Balance)		
11	Systems and Feedbacks, Models	Ch 2 (18-33) Ch 3 (51-54)		Pt 1 (24-25)		5 – Systems & Feedbacks	Oct 21
12	How Climate Works	Ch 4 (55-82)		Pt 1 (10-15)			
13	Natural Climatic Forcing	Ch 15 (289-316)		Pt 1 (18 + 40) (60-63)		6-Climate & Natural Forcing	Oct 28
14	Global Warming & Anthropogenic Forcing		Ch 9 (206-215)	Pt 1 (66 – 75) (94-97)		7 – Global Warming	Nov 4
15	Ozone Depletion in the Stratosphere		Ch 9 (201-205)	Pt 1 (30-31)		8 – Ozone Depletion	Nov 16 (Tue)
16	The IPCC Findings Projections & Impacts			Intro (6-9) Pt 1 ( 20-21) Pt 2 (77-105) Pt 3 (107-139)	<a href="#">IPCC –AR4 SPM</a> <sup>2</sup>		
17	Adaptations, Solutions & Choices		Ch 7 (143-147)	Pt 4 (141-153) Pt 5 (155-197)	Class Notes Topic #17 Appendix II		
	Global Change & Climate Sci Literacy	Re-read Ch 1 (1-17)			Appendix I	9-GC & Climate Sci Literacy	Dec 7 (Tue)

**FINAL EXAM (Thu Dec 16)**

<sup>1</sup> **SGC = The Science of Global Change: An Introduction** (each half has its own chapters and page #s)

<sup>2</sup> **IPCC-AR4** The Intergovernmental Panel on Climate Change 2007 Fourth Assessment Report Summaries for Policymaker (SPM): Synthesis, Working Groups I, II, & III