

**ATMO 629-2007**  
**Tentative Schedule Summer I, 2007**

ID: warmies; PW: ag629

**Gerald North; g-north@tamu.edu**

**Schedule as of 5/31/07**

week of	MON	TUES	WED	THUR	FRI
<b>Week 1</b> <b>5/28/2005</b>	<b>NO CLASS</b>	5.29 Intro, Climate System, radiation, Seasonal Structure; circulation of atmo, ocng	5.30 Climates of the World and why, some physical climatology	5.31 World's dumbest climate models and their properties.	6.1 PaleoClimate 1: Approaches, techniques, time scales.
<b>Week 2</b> <b>6/4/2005</b>	6.4PaleoClimate 2: Ice Ages, Milankovitch Theory, etc. 6.4 PaleoClim3: Ice Age Earth	6.5 Glaciers & Ice Sheets: Glacier Theory, Balances, What are they doing? Greenland, Antarctica	6.6 Holocene Environment, Dendroclimatology, etc	6.7 Instrument Record, Hockey Stick Curve, New studies. Bore Holes, Glacier redords	6.8 Oceans & Climate: Time Scales, Thermohaline Circulation, etc.
<b>Week 3</b> <b>6/11/2005</b>	6.11 Carbon Cycle: CO2 Record. Carbon on Land, in Ocean; Models	6.12 Carbon Cycle: CO2 Record. Carbon on Land, in Ocean; Models Chemistry and Earth Sys: BioGeoChem Cycles. Changes in the Reservoirs	6.13 Chemistry and Earth Sys: BioGeoChem Cycles. Changes in the Reservoirs; Aerosols: Size Distribution, types of Aerosols, Optical Properties, IPCC: Climate Consequences	6.14 Aerosols: Size Distribution, types of Aerosols, Optical Properties, IPCC: Climate Consequences	6.15 Climate Sensitivity; Water Vapor, Feedbacks
<b>Week 4</b> <b>6/18/2005</b>	6.18 Climate Models: The Range of Climate Models; Survey of the Models, Experiments, Scenarios	6.19 More about climate models and feedbacks	6.2 Sea Level: Has it changed? How to Measure it; Where and How Much will it Change?	6.21Land Surface Changes, Modeling. Hydrology	6.22 Coastal, Tropical Storms, El Nino, etc., Red Tides, etc.
<b>Week 5</b> <b>6/25/2005</b>	6.25 Solar-Climate Connection: Solar Physics, Models, 11yr Cycle, Holocene	6.26 Detecting Climate Signals: What are the ClimateSignals? How do we detect them?	6.27 AR4 Results	6.28 More AR4 Results	6.29 Texas Climate Change: West Texas, Temps, Precip,

**7/2/07 FINAL EXAM**