

CLIM 614-001
CRN 17911

Land/Climate Interactions

Tue/Thu 1:30PM - 2:45PM
Exploratory Hall 1005

Prof. Paul Dirmeyer

Lecture	Date	Topic	Assignment	Due
01-1	21 Jan	Introduction, Python brief, Water Balance at Land Surface	Homework #0	22 Jan
01-2	23 Jan	Water Balance cont., Journal Paper Assignments	Paper Review, Homework #1	4 Feb, 5 Feb
02-1	28 Jan	No Class		
02-2	30 Jan	No Class		
03-1	4 Feb	Journal Paper Presentations (Round 1)		
03-2	6 Feb	Structural Concepts: Systems, Models, Scales		
04-1	11 Feb	Mathematical Concepts: Budgets, Extinction, Conduction, Feedback	Homework #2	24 Feb
04-2	13 Feb	Energy Balance at the Land Surface		
05-1	18 Feb	Energy Balance (cont'd), Carbon Balances		
05-2	20 Feb	Atmospheric Boundary Layer and Turbulence	Homework #3	4 Mar
06-1	25 Feb	Atmospheric Boundary Layer and Turbulence (cont'd)		
06-2	27 Feb	Radiative Transfer		
07-1	3 Mar	Radiative Transfer and Vegetation		
07-2	5 Mar	Analysis Project Assignment, Journal Paper Reassignments	Paper Review Class Project	21-23 Apr 30 Apr
10 & 12 Mar		Spring Break		
09-1	17 Mar	Soil Physics	Homework #4	1 Apr
09-2	19 Mar	Soil Physics (cont'd)		
10-1	24 Mar	Land-Atmosphere Coupling, Drivers and Feedbacks		
10-2	26 Mar	Coupling Metrics		
11-1	31 Mar	No Class		
11-2	2 Apr	Regional Land-Atmosphere Systems		
12-1	7 Apr	Land Models		
12-2	9 Apr	Comparisons Among Land Models		
13-1	14 Apr	Relevant Modeling Studies		
13-2	16 Apr	Eco-hydrology		
14-1	21 Apr	Journal Paper Presentations (Round 2a)		
14-2	23 Apr	Journal Paper Presentations (Round 2b)		
15-1	28 Apr	Land Use Change and Climate Change		
15-2	30 Apr	Analysis Project Results		

1:30-4:15

12 May?

Final Exam

Grading:	Homework	40% (4 Assignments, 10% each)
	Analysis Project	20%
	Paper Presentations	25%
	Final Exam	15%