

Tuesday

PH 301

E-session

R-session

active

engagement

Thursday

2-3:15

Peabody 008

Lecture

- Project weeks (con of grade)
- Remote participants (webcast & recorded)
- Background material
  - video recordings.

google or search in YouTube:  
MCRNSOI

— Book :  
Nonlinear Climate Dynamics  
by  
Henk Dijkstra.

---

Electronic copy: Kindle, Google Play,  
Kobo.

## Goals of Course:

- Understanding of climate models
- Development of skills in use of CMs to answer questions of climate science.
- Appreciation of different types of models
- Comfort in walking across the model hierarchy
- Ability to formulate questions from both the climate and the mathematical viewpoints,

- Facility with interdisciplinary teamwork.

Grading: 3x 30% for each project.

10% participation & involvement.

Needs:

- 1) Book - e-copy.
- 2) Watch / listen video tutorials
- 3) Computer - headset / cell phone!

+ input device for working  
on shared whiteboard.

### Teamwork.

- Teams of 2-4
- Stay together thru a project
- Each person in team will have a "role".

Roles: (1) Applied mathematician  
(2) Climate scientist.  
(3) Computational scientist.  
(4) Pure mathematician  
(5) Stakeholder

• Initially remote participants join team at local node.

What a Tuesday class be like?

- 10-15 min (1) Review (brief) of online background with online quizzes/ppts to see that all are understanding.
- 30 min (2) Formulation of questions & issues associated with models for pre-m Thursday.  
incl. reporting



30 mins.

(3) Variants & embellishments  
of the models. And  
then the new questions  
arising

Project:

Choose, explore, answer!)

Some formulated question.

PROJECT 5-10 page paper & presentation