

# ATMS 211 Climate and Climate Change Spring 2019

Prof. Joel Thornton
T.A. Claire Buysee

<u>Times and Locations</u> Lectures M,Tu,W,Th: 11:30 – 12:20pm

**BAGley 154** 

Discussion Sections: see myUW for assigned time/location

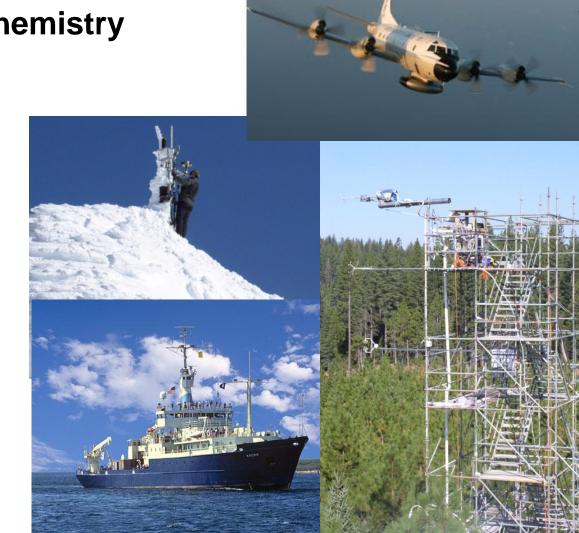
## **About Me**

**Prof. of Atmospheric Sciences** 

Ph.D. in Atmospheric Chemistry

#### **Scientific Interests:**

- Natural and polluted air chemistry
- How pollution affects climate
- How climate change affects pollution

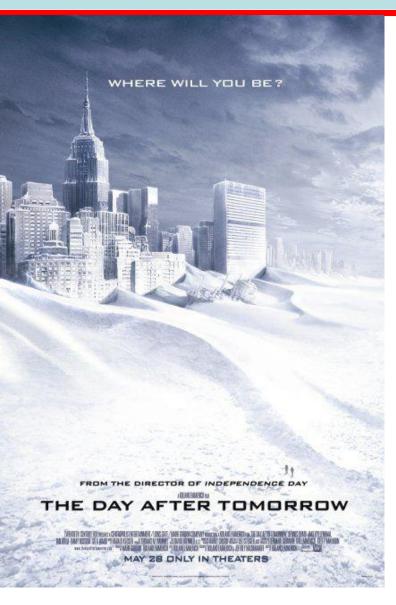


#### **How to Contact Me**



- Right after lecture (come on down – most efficient!)
- 2. Weekly office hours (TBD) or special appointment via Canvas
- 3. Discussion board/Chat on Canvas Page (see web page)
- 4. Canvas messaging\*

#### **Course Goals**



1. Introduce you to the science of climate and the scientific method

2. Give you generally applicable tools to understand and critically evaluate modern environmental problems

### What this course is/isn't about



YES: what, how, and why of climate and climate change

NO: values, philosophies, politics, etc

#### **Course Overview**



## The Climate System (Present)

- Earth's Energy Balance
- Earth's Atmosphere and Oceans
- Regional Climates

## Climate Change (Past)

- Change and Response (Feedbacks)
- Natural Variations
- The Human Influence

## **Global Warming (Future)**

- Evidence
- Expectations
- Mitigation Approaches

# **Required Course Materials**

 Textbook: Kump, Kasting, Crane, 3<sup>rd</sup> edition (2010) The Earth System

# **Grading Policy**



**Grading Method** 

Likely course mean2.8 – 3.2 (B- to B)

Curve if necessary

Exams (~ 4) + In-class Polls 65% -see Canvas for details

Final Exam: 20%

Homework: 15%

#### **Plagiarism - Working Together**

- see UW policy on plagiarism
- discussions are encouraged!
- on your own for exams, turn in your own homeworks

# **Optional Credits**

 W credit is possible – see Canvas page for more info

# We want you to do well!



- 1. COME TO CLASS/Disc.
- 2. TAKE GOOD NOTES
- 3. REVIEW YOUR NOTES
- 4. TEST YOURSELF
- 5. RELAX

GET YOUR QUESTIONS ANSWERED! During lecture, after lecture, office hours, Canvas discussion board, etc

## This Week: Environmental Change Concepts



## Read Chapter 1 of text

#### Due before sections this week:

- 200 word synopsis of a recent news article on climate change
- 200 word description of the climate of an area you've lived (ideally not Seattle).

Discussion section activities: math (and geography) surveys, climate vs. weather

# **Poll Everywhere**

 See Canvas page for important information related to registering and participating in Poll Everywhere

- PollEv.com/thornton211
- Text: THORNTON211 to 22333

# **Graphic Analysis Exercise**

