

# Analysis Methods in Atmospheric and Oceanic Science

AOSC 652

Class Projects  
Week 15, Day 1

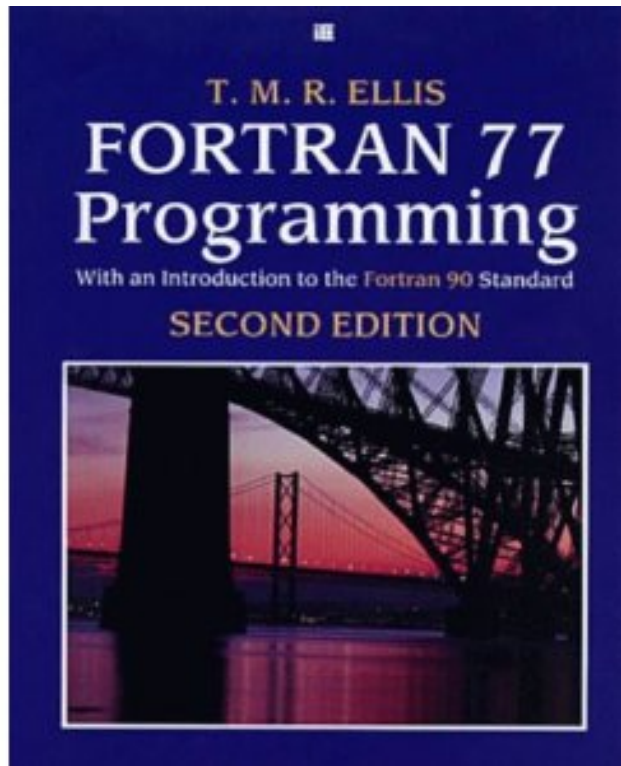
5 Dec 2016

# AOSC 652: Analysis Methods in AOSC

## Logistics

### **FORTRAN Book:**

- Would like to start getting returns of Ellis book
- \$20 to be refunded upon return of book



# AOSC 652: Analysis Methods in AOSC

## Student projects (update to slide first shown 10 Oct 2016):

- **20% of the final grade:** you will receive a numerical score for the project and final grade will be found via:

$$\text{Final Grade} = (0.1) \times (\text{Attendance} + \text{Participation}) + (0.7) \times (\text{Homework}) + (0.2) \times (\text{Final Project})$$

- 28, 30 Nov, 5 Dec (MWF) + 5, 7, 9 Dec (MWF)  
set aside for “in class” work on your project
- **Mon, 19 Dec, noon:** *students present their project (10 minute talks)*  
prepared using either Powerpoint, Open Office, etc  
and converted to PDF prior to the start of class
- Each student must turn in a *brief* written description of the project as well as all *code* used to complete the project
- Good to begin thinking about your project: application of techniques learned in class to a *scientific problem of your interest*
- I am available to discuss “issues” with project, by appointment please!

# AOSC 652: Analysis Methods in AOSC

Project presentations will be 19 Dec starting at noon:

- Each presentation maximum 10 minutes
- For a 10 minute presentation, best to focus on:  
*what you did* & *what you learned*  
rather than spending much time on  
why you did what,  
summary of state of knowledge on the subject matter,  
etc
- Suggest 8 to 10 slides; any presentation w/ more than 10 slides  
*must be cleared with me prior to presentation*
- We'll ask for questions after each presentation
- $\{15 \times (10 + 2 + 1)\} / 60 = 3.25$  hrs which is why we are limiting  
presentations to 10 mins time

# AOSC 652: Analysis Methods in AOSC

## Student project description:

- In addition to your presentation, please turn in a **BRIEF** written description of your project due **noon , Dec 19**:
  - 1 to at most 2 page, typed, description of your project focusing on:
    - a) scientific problem that was studied (1 paragraph)
    - b) software and/or analysis tools that were used (1 paragraph)
    - c) what was learned in the analysis (2 to 3 paragraphs)

No need for figures or extensive use of citations in this written description

- Code – or – URL pointing to code

# AOSC 652: Analysis Methods in AOSC

## Student project timeline:

19 Dec is two weeks from today

Suggest the following timeline:

- **Mon (Dec 5): Preliminary results (i.e., some graphs) ready to show**
- **Wed (Dec 7): Some visuals ESSENTIAL**
- **Fri (Dec 9): Final chance to interact with Ross, Tim & Walt prior to AGU**
- **Dec 9 to 18: Ross, Tim, Walt: email    Jeff: by appointment**

# AOSC 652: Analysis Methods in AOSC

## Course Evaluation

**To complete:**

<https://courseevalum.umd.edu/>

**Description:**

<https://www.irpa.umd.edu/Assessment/CourseEval/CourseEval.html>

**Open until 13 December (11:59 pm)**

- **Please complete**
- **Great if you take the time to evaluate all four instructors**

**AM01 : 1 out of 1**

**0101 : 2 out of 14**

# AOSC 652: Analysis Methods in AOSC

<b>Student</b>	<b>Topic</b>	<b>Graphical Result ?</b>
Chang, Chu-Chan	Observation operator, variational system	
Eure, Keenan	Palmer experiment, chaos theory	
Fedkin, Nikita	Sulfate & nitrate deposition trends	
Fricke, Patty	Effect of cyclogenesis on ozone	
Gohil, Kanisk	SLP & SST during ENSO	
Jeffrey, Dylan	Thermal Structure, freezing rain	
Kahn, Doug	Off-shore thunderstorm characterization	
McBride, Laura	Global snow cover, 2000 to 2016	
Malloy, Kelsey	Stratospheric Air Intrusions	
Ortiz, Alex	Renewable Energy	
Porter, Greg	500 mb blocking events for forecasting	
Sengupta, Agniv	Periodicity of AMO	
Treacy, Angie	Population model	
Varada, Sai	NO <sub>x</sub> and VOC emissions	
Williams, Matt	Global warming hole, U.S.	