

AOS 630: Introduction to Atmospheric
and Oceanic Physics
Lecture 9 Fall 2021
Review and Discussion

Ángel F. Adames-Corraliza
angel.adamescorraliza@wisc.edu

Final Project and Presentation

See **Final_Report_Outline_AOS630.pdf** on Canvas for in depth instructions.

10 page written report. Can be lit review or data analysis. Double spaced. Does not include figures, tables, nor references. **Due Friday 12/17/2021.**

You *must* choose a topic by the time you turn in HW3.

Some suggested topics are found in the file **Topics_Final_Project_AOS 630.pdf** on Canvas. You can also suggest a topic you are interested.

Everyone *must* choose a *different* topic.

Final Project and Presentation

The presentations will be the last 2.5 weeks of class. It will be based on final project topic.

Presentations will be 15 mins. 12 mins for presentation and 3 minutes for questions. Only 4 students can present per day.

You will be evaluated based on a rubric. Your score is 15% of final grade.

Final presentation schedule will be made with the preferred dates taken into account. Can't promise you will all get the preferred date though.

Instructions

Please fill the spreadsheet below to choose topic and preferred times

https://docs.google.com/spreadsheets/d/1TCI-Y553aIWn-WNA50XBKjlkDoXeS1Z_4g3nbuSmAek/edit?usp=sharing

If you choose from the list of topics, make sure to cross it out so someone else doesn't take it. If you have a topic you are personally interested in please email me.

Choose a preferred date. More than one date is acceptable.

Date will be assigned to you once everyone fills the form. **Deadline to fill: 10/26**

Review

Any questions or doubts you have about the topics covered in class so far?

Group discussion

Break down into groups and discuss the following questions.

1. Why is most of the global heat imbalance get stored in the ocean?
2. How do the ARGO observations compare to climate model projections?
3. What does Fig 1a tell us?
4. What about Fig 1b and d?
5. Discuss Fig. 1c
6. Where is the largest rate of oceanic heating occurring? Discuss Fig. 1e
7. What does this all mean for climate change?

Assign one person from your group to come to the front to discuss one of the questions

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