

# GG451 EARTHQUAKE PROJECT

## Deadlines and dates

- Tuesday, April 30 - Presentation Day #1
- Thursday, May 2 - Presentation Day #2
- Tuesday, May 7 - Paper due

## Paper (15% of final grade)

### • Contents

- Title
- Introduction
- Scientific earthquake content (see below)
- Societal impact
- Conclusions
- References (bibliography)
- Figures (separate or embedded within text)

### • Specifications

- 3-5 pages excluding figures and references
- 12 pt. font
- Single spaced

### • Figures

- Each figure must include a caption and be referenced at least once in the text.
- Figures & captions may be separate from the body of text, or embedded within the text.
- Minimum of 3 figures + captions. No maximum.
- You may use figures from published papers. Captions may be replicated when necessary, but you should try to paraphrase when possible. If you use a figure and caption from a published source, you must include the following text at the end of the caption: "Figure and caption adopted from SomeAuthor et al., (20xx)". If you use a modified figure or caption for your paper, you should include the following text at the end of the caption: "Figure and/or caption modified (or adapted) from SomeAuthor et al., (20xx)".

### • References

- Minimum of 5 references, included in a reference list (or bibliography) at the end of the paper.
- A minimum of 3 scientific journal articles are required as references. You will need to perform a literature search to find these articles, but if you need assistance downloading a journal article, please let me know.
- For remote access of UHM's library resources, please follow the steps using this link: <http://library.manoa.hawaii.edu/research/databases/remotearchivesetup.php>
- You may also use online (scientifically valid) references, but try to limit the usage of these. Provide references as a webpage.
- Referencing style instructions can be found at the following link. Please follow these guidelines for both referencing inside the body of your text, as well as for formatting your reference list at the end of your paper.  
<http://publications.agu.org/author-resource-center/text-requirements/reference-format/>

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## **Presentation (10% of final grade)**

- 10 minutes for delivery, 3 minutes for questions
- ~10-12 slides are recommended
- Movies/animations (scientifically valid) are welcome
- Class handouts welcome (if you send them, I will print for you)

## **Recommended earthquake project content:**

- regional geologic/tectonic setting (map) – plate boundaries, major faults, etc.
- local geologic/tectonic setting (map)
- images of the tectonic landscape
- regional geography (map) - major cities/populations
- historical seismicity (map or list) – dates, magnitudes
- data about target earthquake and aftershocks – map view and depth view (if available)
- explanation of focal mechanism and relationship to tectonic setting
- example recorded seismogram (if available)
- GPS observations (if available)
- interferogram (if available)
- societal impacts & personal accounts

## **Online resources to get you started:**

- USGS database of major earthquakes <https://earthquake.usgs.gov/earthquakes/map/>  
Note: events can be clicked on to find more scientific data
- Incorporated Research Institutions for Seismology <https://www.iris.edu/hq/>
- EarthScope Plate Boundary Observatory <http://pboweb.unavco.org>
- EarthScope USArray <http://www.usarray.org>
- Also visit the GG451 class website “Useful Websites” page for more info