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GEO 585.01: Climate Change and Western Water

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SYLLABUS: GEO 585-02

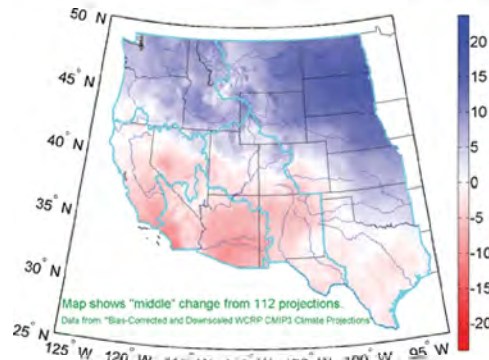
CRN: 75469

(3 credits)

Climate Change and Western Water

Fall 2013 — Prof. J. N. Moore (johnnie.moore@umontana.edu)

Meeting Time: 1-4PM Wed, CHCB 333—to be changed



Description: A seminar to read and discuss the literature on past, present and future water resources in the western United States in response to climate change.

Goals (learning outcomes):

1. Develop an understanding of the complexities and limitations of making future predictions on water resources.
2. How to interpret climate data and models driving those predictions.

Topics to discuss:

1. Fundamental processes controlling runoff and storage (natural and human) in watersheds,
2. Paleoclimate reconstructions of climate and runoff,
3. Historical change in runoff and climate parameters affecting runoff.
4. Direct and indirect human effects on river flow.
5. Future predictions of water resources based on downscaled climate models and watershed runoff models (e.g., USBoR SECURE document and background literature).

The course is pass/no pass and grading is based on participation and completion of assignments and presentations as assessed by the instructor. You can not pass this course if you do not come prepared for class and do not complete the assignments.

All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or disciplinary sanction by the University. All students need to be familiar with the Student Conduct Code. The Code is available for review online at http://life.umt.edu/vpsa/student_conduct.php.

Whenever possible, and in accordance with civil rights laws, The University of Montana will attempt to provide reasonable modifications to students with disabilities who request and require them. Please feel free to setup a time with me to discuss any modifications that may be necessary for this course. For more information, visit the Disability Services for Students website at <http://www.umt.edu/disability>.