

Next-Generation Food Shock Modeling

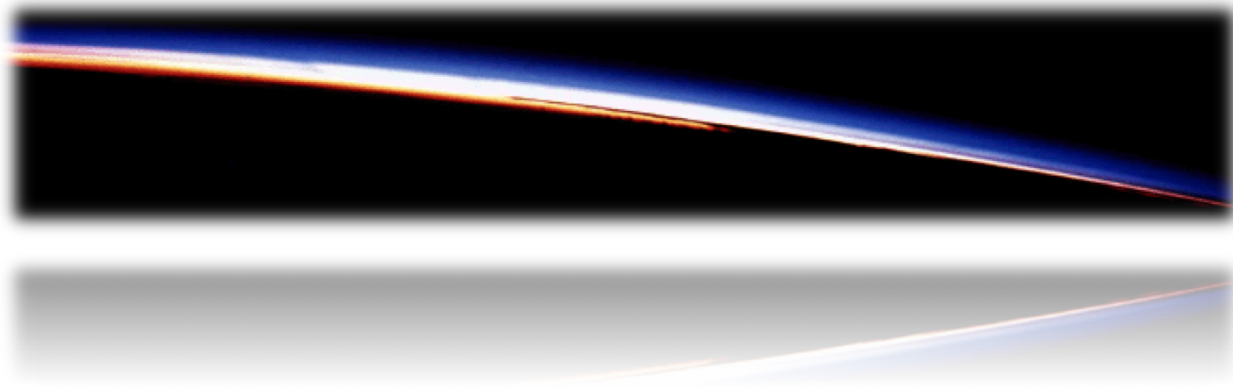


Introductory Remarks
John Katzenberger &
Emily Jack-Scott

19-24 May 2019
Aspen, Colorado



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Mission

To further the understanding of Earth systems and global environmental change in service of society.



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30 Years of Workshop Themes



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[illegible]

Our Work



Workshops



Research & Consulting



Education & Public Outreach



Sponsored Programs



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Place-based research in support of local resource managers and governments



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Agriculture and Global Change Related Thread



Food, Conservation and Environmental Change: Is Compromise Possible?

August 16, 1992 to August 29, 1992



The Metro-Agro-Plex as a Geographical Unit of Analysis for Regional and Global Environmental Change

August 20, 1995 to September 02, 1995



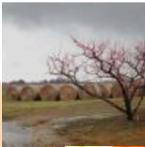
Ecological and Agricultural Consequences of Climatic Extremes and Variability

August 13, 1999 to August 22, 1999



Managing the Cycles of Nitrogen and Phosphorus: Mitigation and Adaptation

October 22, 2008 to October 25, 2008



AgMIP Workshop on Coordinated Global and Regional Integrated Assessments of Climate Change and Food Security

September 13, 2015 to September 18, 2015



Innovating Global Fruit and Vegetable Food Systems to Help Bring Sustainable Nutrition Security

July 30, 2018 to August 03, 2018



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Recent workshop related publications

- Hall, A., et al. (2019). Progressing emergent constraints on future climate change. ***Nature Climate Change***.
- Linkov, I., et al. (2018). Tiered Approach to Resilience Assessment. ***Risk Analysis***.
- Screen, J. A., et al. (2018), Consistency and discrepancy in the atmospheric response to Arctic sea-ice loss across climate models. ***Nature Geoscience***.
- Davis, S. J., N. S. Lewis, and K. Caldeira (2017), Achieving a near-zero carbon emissions energy system, ***Eos***.
- Davis, S.J., et al. (2018) Providing energy services without net addition of carbon dioxide to the atmosphere. ***Science***.
- Boer, G., et al (2016) Decadal Climate Predication Project (DCPP) contribution to CMiP6. ***Geoscientific Model Development***.
- Jones, A., K. Calvin, and J.-F. Lamarque (2016), Climate modeling with decision makers in mind, ***Eos***.
- Boer, George J. , Gerald A. Meehl, and Doug M. Smith (2015), Toward Improving Decadal Climate Predictions. ***Eos*** meeting report.



2019 Workshops

The Future of Past Climate

5-10 May 2019

Next-Generation Food Shock Modeling

19-24 May 2019

Food System Impacts of Pests and Pathogens in a Changing Climate

18-23 August 2019

Impacts of Land Use and Land Management on Earth System Evolution, Biogeochemical Cycles, Extremes and Inter-Sectoral Dynamics

16-20 September 2019 (pending)



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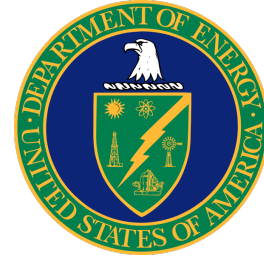
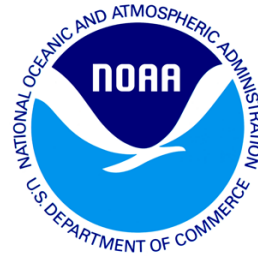
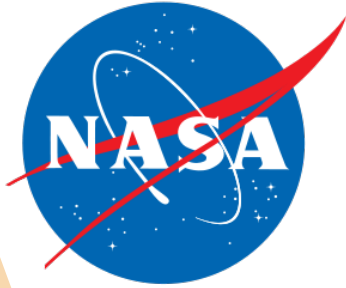
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Recent Funding



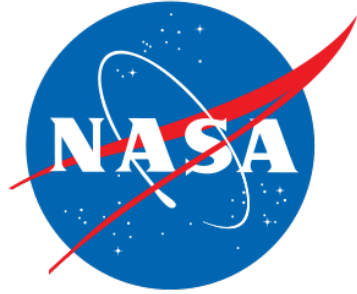
+ Other private foundations & contributors



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Workshop Funding



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And the institutions that have supported the travel costs of some participants – thank you!

AGCI Guide to Conduct

1. **Share our time & space together. Actively listen, contribute, and learn.**
2. **Find ways to support the work & ideas of others.**
3. **Respect differences.**
4. **Practice self-care.**
5. **Advocate for help when needed:**

Emily Jack-Scott, ejs@agci.org, 267-242-0797

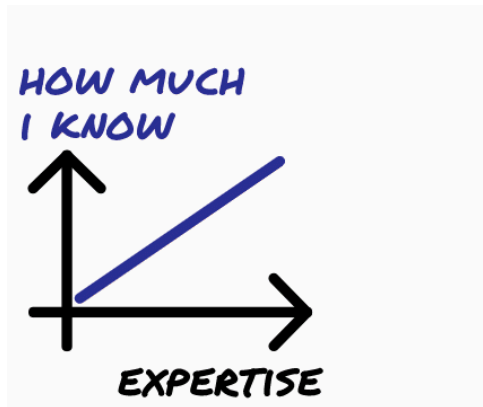
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<https://fallmeeting.agu.org/2018/agu-meetings-code-of-conduct/>

<https://harassment.agu.org/homepage/types-of-harassment/>

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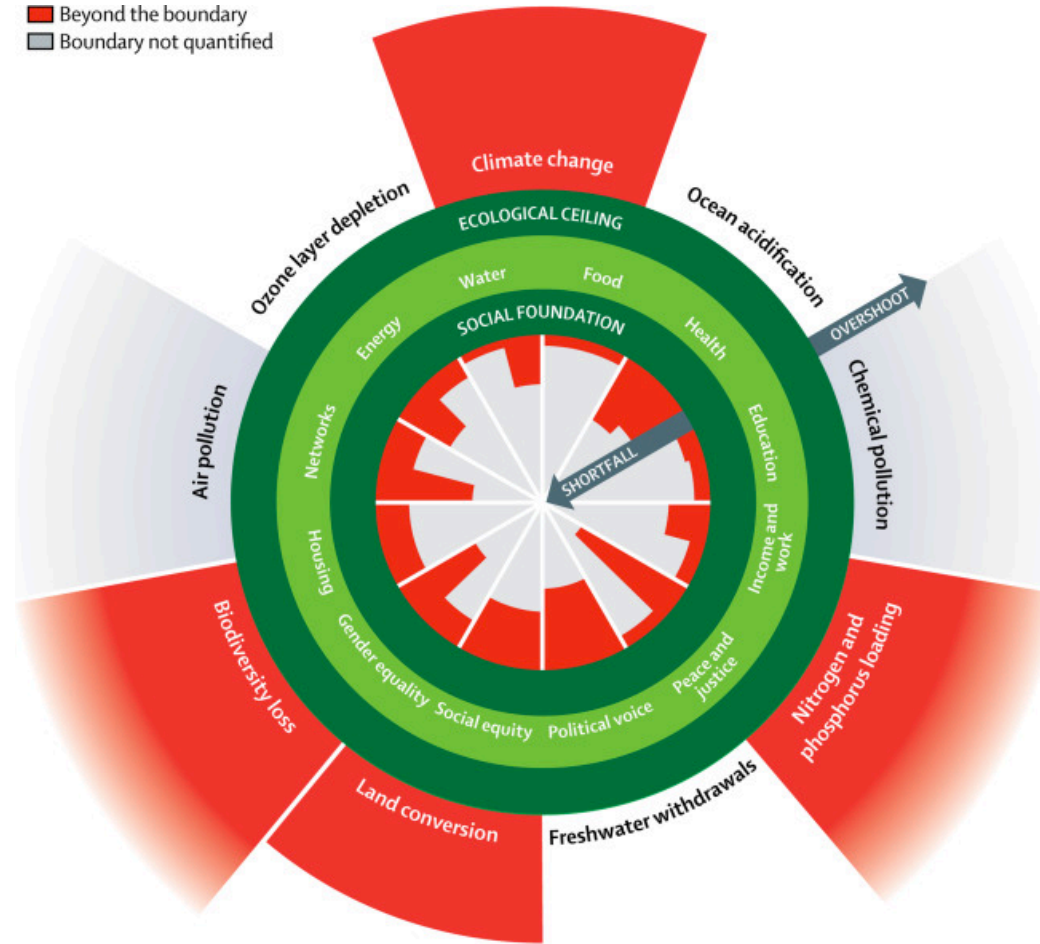
Motivating Challenge

Seek solutions that
*stay within planetary
boundaries*

AND

*raise the social
foundation.*

■ Beyond the boundary
■ Boundary not quantified



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Raworth 2012

AGCI Logistics

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- Evaluation
- BEARS!
- Group email: AGCIfoodshocks2019@agci.org
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