Understanding Interactions of Climate and Life

Climate Science and Ecology Workshop Fall 2022 October 6 and 7

**Friday October 7: Location—Sage Hall Room 24**

**10AM Panel #1 Where are we starting from and where are we going?**

1. What are the goals of research in atmospheric science and how do these compare to the goals of ecology? More precisely, what are the specific scientific priorities of atmospheric science versus ecology? And how do these goals or priorities vary by geographic region?
2. What do you see as the most interesting or urgent questions that climate change poses for ecology? And conversely, what is the most urgent question that ecology poses for climate science?

Lead Participants: Gordon Bonan, Adam Sobel, Kevin Gurney

**12 PM lunch—Buffet Lunch, Yale Catering at Steep Café**

**1 PM Panel #2 Conflicts and tensions, both methodological and disciplinary**

1. What are the main difficulties you encounter when bringing these fields together? For instance, what problems have arisen when you’ve tried to transfer methods or data or to break into new professional networks?
2. What strategies have allowed scientists to overcome the differences both in terms of data and methodology on which these two disciplines rely? For instance, how have ecologists needed to adjust their methods in order to contribute to climate modeling? Conversely, how have climate models (and atmospheric scientists) learned from ecology to incorporate vegetation and other living things?

Lead Participants: Karen Seto, Alessandra Giannini, Tim Lenton, Peter Raymond

**2:30 PM Coffee**

1. **PM Panel #3 Opportunities moving forward**
2. How have ecology and climate science come together to deepen our understanding of climate change? And, in regards to climate change, what can these fields still learn from each other?
3. For you personally what types of research that bring together climate science and ecology have been the most rewarding? Why do you think that is?

Lead Participants: Noah Planavsky, Ruth Blake, Abigail Swann, Pincelli Hull, Allison Karp

**5 PM dinner, closing remarks—by invitation only**