



## The Resilience and Adaptive Management (RAM) Group

<http://ram.uaa.alaska.edu>

We are dedicated to developing social adaptation strategies in the face of rapid global change. We incorporate a vision that weaves multi-disciplinary research and diverse ways of knowing into a cohesive and integrated framework for Resilience in high latitudes.

## National Science Foundation:

<http://www.nsf.gov>

The NSF is an independent federal agency which provides funding for approximately 20% of all federally supported basic research.

## Core Personnel:

- Dr. Lilian Nai'ia Alessa
- Dr. Andy Anaru Kliskey
- Dr. Mark Altaweel
- Bill Overbaugh
- Brad Barr
- Melia Knecht
- Paula Williams
- Sean Mack



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## Complexity Science

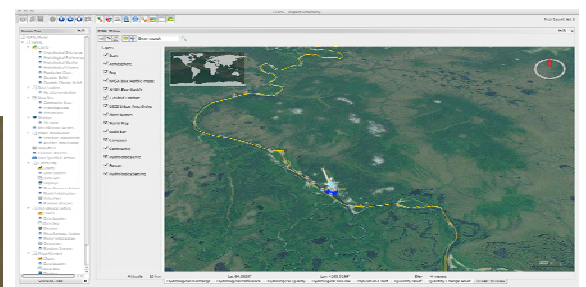
### Agent Based Models and the New Paradigm of Uncertainty: A Workshop for Agent Based Modeling at UAA

One of the greatest challenges facing us today is to understand how rapid social and environmental change will affect the sustainability of life on earth. Interacting social and biophysical components form complex adaptive systems which can be resilient or vulnerable to such change. A systems perspective demonstrates that regardless of discipline or scale, most adaptation dynamics share similar features. To help researchers address such systems, particularly in the context of developing strategies for coping with change, members of the Resilience and Adaptive Management Group and the EPSCoR Integration Core Group developed a workshop focused on Agent Based Modeling.

The Agent Based Modeling (ABM) Workshop was held Sept 24-26 and featured Visiting Scholars Dr. Mark Altaweel and Dr. Michael North of Argonne National Laboratory, University of Chicago and Dr. Michael Barton of the Center for Social Dynamics and Complexity, University of Arizona. Day one and two of the

workshop provided an introduction to ABM with lectures presented by the three visitors covering examples of modern and past social and environmental systems from their own research. On day three, more advanced training in methodologies was conducted in the new UAA Faculty Training SmartRoom (Library 214), utilizing easy to use, free tools downloaded from the internet.

Provided to multiple campuses via video conferencing, the ABM Workshop proved a great success, with good participation and positive feedback from UAF, UAS, and UAA faculty and graduate students. Lectures were recorded and will be provided in Flash format on the Resilience and Adaptive Management website (<http://ram.uaa.alaska.edu>). The ABM Workshop was a free event, organized and hosted by the EPSCoR Integration Core and the RAM Group and funded by the National Science Foundation.





## New Proposals

A 5 year proposal was submitted to NSF's recent Arctic Observation Network (AON) program to maintain and extend the Bering Sea Sub-Network project (see Newsletter Issue 1). The work, in conjunction with AIA, will take place in the Bering Sea communities of Alaska and the Russian Far East.

## Upcoming Events

- **First Health-Climate Change Research Retreat**      **November 18th**
- **RAM Group Meeting**      **Ongoing Fridays at 1pm**

*For more information on Upcoming Events, please send an email to [anmmk@uaa.alaska.edu](mailto:anmmk@uaa.alaska.edu).*

## Websites of the Month

- **The RAM Group homepage, includes publications, research, and much more - <http://ram.uaa.alaska.edu>**
- **Open Agent Based Modeling Consortium includes numerous links and information about open source ABM— <http://www.openabm.org>**
- **Homepage for Repast Symphony, a free and open source ABM toolkit— <http://repast.sourceforge.net>**
- **Homepage for Netlogo, with free downloads and information for another ABM modeling program— <http://ccl.northwestern.edu/netlogo>**

