Outline

- Where have we been?
  - Accomplishments
  - Challenges
  - Lessons Learned
- Where are we going?
  - Next steps
  - Next year
  - Future??
- Recognition
Where have we been?

1. 2008 Field Tour
2. State of Science
3. Research Questions
4. Conceptual Model
5. Hypotheses
6. Research Design
7. Feedback & Evaluation
8. 2009 Pilot Sample
9. 2010 Funding & Planning
Where have we been?

10. 2011 Training & Testing
11. Year 1 Data Collection
12. CSU Graduate Students
13. Database Design
14. 2012 Year 2 Data Collection
15. MOR2 Interns
16. Data Entry
17. Quality Checking
18. Preliminary Analysis
MOR2 Objectives

1. Assess impacts of climate change on Mongolian pastoral SESs (Research)
2. Evaluate the effect of CBRM in building resilience to climate change (Research)
3. Strengthen science-policy linkages for natural resource management in Mongolia (Outreach)
4. Build capacity of US and Mongolian researchers for applied, interdisciplinary (and participatory!) research (Education and Training)
Research

- Data collection
  - 428 ecological plots, 706 household surveys, 142 herder organizations and communities in 36 soum 10 aimag

- Data management, database development
  - DIMA, Household survey, organizational profi

- Preliminary analyses
  - Next presentations....
  - Early results presented: SRM, Planet Under Pressure, ISSRM


Outreach

- Communities (herders, local government)
- Policy-makers and practitioners (Donors, Ministries, NGOs, Agency Staff)
Outreach to Communities

- National radio program on CBRM (2012)
- Soum teacher workshop (2012)
- Soum handbook & community workshops (2013)
- Soum brochures (2013)
Outreach to Policy Makers & Practitioners

- World Bank report, slide show (2012)
- Policy Briefs (Dzud, Learning) (2013)
- Soum brochures (2013)
- Briefings and meetings with policy makers, donor organizations and project staff (2011-2013)
- International meetings (e.g. EU Food & Climate Change, Planet Under Pressure) (2012-2013)
Education & Training

MONGOLIA

- Social Research Methods Training (2011)
- Social Data Development Training (2012)
- DIMA Database Training (MSRM) (2011)
- Proposal Writing Workshop (2012)
- Excel Training (2012)
- Data Analysis Workshop (2013)
- Intern Program (2011, 2012)
- MS students (3)
Education & Training

USA

- DIMA database training (2011)
- Undergraduate service learning (2011)
- Graduate service learning (2012)
- 3 Undergraduate research assistants (2012-2013)
- 4 PhD students (2 Mongolian), 1 MS student
- 2 Mongolian post-doctoral trainees
Strengths

- Interdisciplinary training and collaboration
- International cross-cultural collaboration and learning
- Cross-sectional and participatory (researchers; herders; local, regional and national gov’t; practitioners; donors)
- Multi-scale data collection and analysis
  - 10 aimags, 36 soums, 4 ecological regions
  - Household, organization/community, soum, region
- Committed participants and partners
- Leveraged funding (US AID CRSP, World Bank, CCC, ACMS, etc.)
Challenges

- Communication
  - Distance, language
  - Disciplinary differences
  - Science-practitioner-community

- Institutional and participant turn-over

- Different standards, processes and cultures of science in US and Mongolia

- Rising cost of fieldwork
Lessons Learned—Adaptive Mgt.

- Increase frequency of communication/reporting to partners
- Continue: researcher training, focusing on theory and methods
- Partner with Mongolian institutions on training and outreach
Next Steps 2013-2015

- Project official end in April 2014, will request 1 year no-cost extension from NSF
- 2012-2013 focus on data analysis and interpretation
- Outreach (policy and communities)
- Researcher capacity building training (goal collaboratively written international research papers)
- Final annual meeting & policy workshop-- summer or fall 2014