

BIARI 2016
Climate Change and Its Impacts: Connecting Local Variability and Knowledge in a
Global System

June 4 – June 18, 2016

Conveners: Meredith Hastings and Siri Veland
Coordinator: Keren Alfred

Saturday June 4

Arrival Day

Participants arrive at Watson Institute Lobby
111 Thayer Street, Brown University

Sunday June 5

4:00 pm – 5:00 pm and

5:00 pm – 6:00 pm

6:00pm – 8:00pm

Optional Campus Tours

Departing from the Watson Lobby

Barbecue (Casual attire)

Pembroke Field, 172 Meeting Street

Monday June 6

7:30 am – 8:45 am

Breakfast

Sharpe Refectory, 144 Thayer Street

9:00 am – 10:30 am

Introductions, with Institute conveners

*9:55 am – 10:15am

Introduction by Matthew Gutman, Director of BIARI

Room 115, MacMillan Hall, 167 Thayer Street

10:30 am – 11:00 am

Break

Watson Lobby

11:00 am – 11:30 am

Library Orientations

Room 115 MacMillan Hall, 167 Thayer Street

12:45 pm – 1:45 pm

Lunch

Sharpe Refectory, 144 Thayer Street

2:00 pm – 2:30 pm

Google Presentation

Room 115 MacMillan Hall, 167 Thayer Street

3:15 pm – 3:45 pm

Break

3:45 pm – 5:00 pm

Participant Presentations

Room 115, MacMillan Hall, 167 Thayer Street

5:00 pm – 7:00 pm

Welcome Reception with Brown University's President

Christina Paxson and Santander University

representatives (Semi-formal attire)

Starr Plaza, Watson Institute

Rain Location: Sayles Hall, 81 Waterman Street

Tuesday June 7

Readings

| | |
|---------------------|---|
| 7:30 am – 8:45 am | Breakfast <i>Josiah's, Building A, Vartan Gregorian Quad, 103 Thayer Street</i> |
| 9:00 am – 10:30 am | Presenter: Jonathan Hickman <i>Room 115, MacMillan Hall, 167 Thayer Street</i> |
| 10:30 am – 11:00 am | Break |
| 11:45 am – 12:30 pm | Participant Presentations <i>Room 115, MacMillan Hall, 167 Thayer Street</i> |
| 12:45 pm – 1:45 pm | Lunch (Keyword Tables) <i>Josiah's, Building A, Vartan Gregorian Quad, 103 Thayer Street</i> |
| 2:00 pm – 3:15 pm | Participant Presentations <i>Room 115, MacMillan Hall, 167 Thayer Street</i> |
| 3:15 pm – 3:45 pm | Break |
| 3:45 pm – 5:00 pm | Recap with presenter <i>Room 115, MacMillan Hall, 167 Thayer Street</i> |

Wednesday June 8

Readings

- i) Aune J.B., Bationo A., (2008) Agricultural intensification in the Sahel- the ladder approach. *Agricultural Systems* 98:119-125.
- ii) The Montpellier Panel, 2013. Sustainable Intensification: A New Paradigm for African Agriculture, London. <https://goo.gl/yUI2bh>
- iii) Valbuena D, Tui SH-K, Erenstein O, Teufel N, Duncan A, Abdoulaye T, Swain B, Mekonnen K, Germaine I, Gerard B, (2015). Identifying determinants, pressures and trade-offs of crop residue use in mixed smallholder farms in Sub-Saharan Africa and South Asia. *Agricultural Systems* 134: 107-118.

| | |
|---------------------|---|
| 7:30 am – 8:45 am | Breakfast <i>Sharpe Refectory</i> |
| 9:00 am – 10:30 am | Presenter: Jens Aune <i>Room 115, MacMillan Hall, 167 Thayer Street</i> |
| 10:30 am – 11:00 am | Break |
| 11:45 am – 12:30 pm | Participant Presentations <i>Room 115, MacMillan Hall, 167 Thayer Street</i> |
| 12:45 pm – 1:45 pm | Lunch <i>Sharpe Refectory</i> |
| 2:00 pm – 3:15 pm | Facilitated Work Time, including Consultation <i>Room 115, MacMillan Hall, 167 Thayer Street</i> |
| 3:15 pm – 3:45 pm | Break |
| 3:45 pm – 5:00 pm | Recap with presenter <i>Room 115, MacMillan Hall, 167 Thayer Street</i> |

Thursday June 9

Readings

| | |
|-------------------|-----------|
| 7:30 am – 8:45 am | Breakfast |
|-------------------|-----------|

| | |
|---------------------|---|
| 9:00 am – 10:30 am | <i>Sharpe Refectory, 144 Thayer Street</i> Presenter: Mushfiq Mobarak <i>Room 115, MacMillan Hall, 167 Thayer Street</i> |
| 10:30 am – 11:00 am | Break |
| 11:45 am – 12:30 pm | Facilitated Work Time, including Consultation <i>Room 115, MacMillan Hall, 167 Thayer Street</i> |
| 12:45 pm – 1:45 pm | Lunch <i>Sharpe Refectory, 144 Thayer Street</i> |
| 2:00 pm – 3:15 pm | Facilitated Work Time, including Consultation <i>Room 115, MacMillan Hall, 167 Thayer Street</i> |
| 3:15 pm – 3:45 pm | Break |
| 3:45 pm – 5:00 pm | Recap with presenter <i>Room 115, MacMillan Hall, 167 Thayer Street</i> |
| 5:30 pm – 7:00 pm | All Institute Talk by Glenn Loury, Professor of Economics, Merton P. Stoltz Professor of the Social Sciences <i>Friedman Auditorium, Metcalf Research Building, 190 Thayer Street</i> |

Friday June 10

Readings

- i) Miller, F. and Bowen, K. 2013. Questioning the assumptions: the role of vulnerability assessments in climate change adaptation, *Impact Assessment and Project Appraisal*, 31:3, 190-197, DOI: 10.1080/14615517.2013.819724
- ii) Miller, F., Osbahr, H., Boyd, E., Thomalla, F., Bharwani, S., Ziervogel, G., Walker, B., Birkmann, J., van der Leeuw, S., Rockström, J., Hinkel, J., Downing, T., Folke, C. and Nelson, D. 2010. Resilience and vulnerability: complementary or conflicting concepts? *Ecology and Society* 15(3): 11. [online]
- iii) Eriksen, S., Aldunce, P., Bahinipati, C S., Martins, R D., Molefe, J I., Nhemachena, C., O'Brien, K., Olorunfemi, F., Park, J., and Sygna, L. (2011). "When not every response to climate change is a good one: Identifying principles for sustainable adaptation." *Climate and Development* 3(1): 7-20.

| | |
|---------------------|---|
| 7:30 am – 8:45 am | Breakfast <i>Sharpe Refectory, 144 Thayer Street</i> |
| 9:00 am – 10:30 am | Presenter: Fiona Miller (Joint Session) <i>Friedman Auditorium, Metcalf Research Building, 190 Thayer Street</i> |
| 10:30 am – 11:00 am | Break |
| 11:45 am – 12:30 pm | Facilitated Work Time, including Consultation <i>Room 115, MacMillan Hall, 167 Thayer Street</i> |
| 12:45 pm – 1:45 pm | Lunch <i>Sharpe Refectory, 144 Thayer Street</i> |
| 2:00 pm – 3:15 pm | Facilitated Work Time, including Consultation <i>Room 115, MacMillan Hall, 167 Thayer Street</i> |
| 3:15 pm – 3:45 pm | Break |
| 3:45 pm – 5:00 pm | Presenter: Fiona Miller (Joint Session) |

*Friedman Auditorium, Metcalf Research Building, 190
Thayer Street*

Saturday June 11 – Open Weekend
Sunday June 12 BIARI programming has suggested activities

Monday June 13

Readings

- i) Otto-Bliesner, B., Russell, J. M., Clark, P.U., Liu, Z., Overpeck, J.T., Konecky, B., deMenocal, P., Nicholson, S.E., He, F., Lu, Z. 2014. Coherent changes of southeastern equatorial and northern African rainfall during the last deglaciation, *Science* 346(6214):1223-1227.
- ii) Kuper, R., Kröpelin, S. 2006. Climate-controlled Holocene occupation in the Sahara: Motor of Africa's evolution, *Science* 313(5788):803-807.
- iii) deMenocal, P.B. 2008. Africa on the edge *Nature Geoscience* 1:850-851.

7:30 am – 8:45 am Breakfast
Sharpe Refectory, 144 Thayer Street

9:00 am – 10:30 am Presenter: Bette Otto-Bliesner
Room 115, MacMillan Hall, 167 Thayer Street

10:30 am – 11:00 am Break

11:45 am – 12:30 pm Participant Presentations
Room 115, MacMillan Hall, 167 Thayer Street

12:45 pm – 1:45 pm Lunch
Sharpe Refectory, 144 Thayer Street

2:00 pm – 3:15 pm Facilitated Work Time, including Consultation
Room 115, MacMillan Hall, 167 Thayer Street

3:15 pm – 3:45 pm Break

3:45 pm – 5:00 pm Recap with presenter
Room 115, MacMillan Hall, 167 Thayer Street

5:30 pm Keynote: Pratap Mehta, President, Centre Policy
Research, New Delhi
Salomon Auditorium, 79 Waterman Street
Reception: Sayles Hall, 81 Waterman Street

Tuesday June 14

Readings

- i) Xu, J., Grumbine, E., Shrestha, A., Eriksson, M., Yang, X., Wang, Y., Wilkes, A. 2009. The Melting Himalayas: Cascading effects of climate change on water, biodiversity, and livelihoods. *Conservation Biology* 23(3):520-530.
- ii) Xu, J., 2011. China's new forests aren't as green as they seem. *Nature* 47:371.
- iii) Xu, J., Grumbine, R.E. 2014. Building ecosystem resilience for climate change adaptation in the Asian highlands.
- iv) Xu, J., Grumbine, R.E., 2014. Integrating local hybrid knowledge and state support for climate change adaptation in the Asian highlands *Climate*

Change 124:93-104.

- 7:30 am – 8:45 am Breakfast
Sharpe Refectory, 144 Thayer Street
- 9:00 am – 10:30 am Presenter: Jianchu Xu
Room 115, MacMillan Hall, 167 Thayer Street
- 10:30 am – 11:00 am Break
- 11:45 am – 12:30 pm Participant Presentations
Room 115, MacMillan Hall, 167 Thayer Street
- 12:45 pm – 1:45 pm Lunch
Sharpe Refectory, 144 Thayer Street
- 2:00 pm – 3:15 pm Library Training Sessions
Participants sign up for one of four options. More detailed descriptions are in packet
- i) **An Introduction to Web Mapping, Spatial Analysis Tools, and Data Sources** Bruce Boucek -- Social Science Data Librarian
 - ii) **Now where did I put that citation?** Dr. Brian Croxal - Digital Humanities Librarian
 - iii) **Visualize This!** Patrick Rashleigh - Digital Visualization Specialist
 - iv) **Show me the Money!** Dr. Ian Straughn - Anthropology & Middle East Studies/South Asian Studies Librarian
- Watson Institute or Rockefeller Library, 10 Prospect Street*
- 3:15 pm – 3:45 pm Break
- 3:45 pm – 5:00 pm Recap with presenter
Room 115, MacMillan Hall, 167 Thayer Street

Wednesday June 15

Readings

- i) Alexander, C., Bynum, N., Johnson, E., King, U., Mustonen, T., Neofotis, P., Oettlé, N., Rosenzweig, C., Sakakibara, C., Shadrin, V., Vicarelli, M., Waterhouse, J., Weeks, B. 2011. Linking indigenous and scientific knowledge of climate change, *BioScience* 61(6):477-484.
- ii) Gavin, M.C., McCarter, J., Mead, A., Berkes, F., Stepp, J.R., Peterson, D., Tang, R. 2015. Defining biocultural approaches to conservation *Trends in Ecology & Evolution* 1-6.
- iii) Ahmed S, Stepp JR, Orians C, Griffin T, Matyas C, et al. (2014) Effects of Extreme Climate Events on Tea (*Camellia sinensis*) Functional Quality Validate Indigenous Farmer Knowledge and Sensory Preferences in Tropical China. *PLoS ONE* 9(10): e109126.
doi:10.1371/journal.pone.0109126

- 7:30 am – 8:45 am Breakfast
Sharpe Refectory, 144 Thayer Street
- 9:00 am – 10:30 am Presenter: Rick Stepp
Room 115, MacMillan Hall, 167 Thayer Street
- 10:30 am – 11:00 am Break

| | |
|---------------------|---|
| 11:45 am – 12:30 pm | Participant Presentations <i>Room 115, MacMillan Hall, 167 Thayer Street</i> |
| 12:45 pm – 1:45 pm | Lunch <i>Sharpe Refectory, 144 Thayer Street</i> |
| 2:00 pm – 3:15 pm | Facilitated Work Time, including Consultation <i>Room 115, MacMillan Hall, 167 Thayer Street</i> |
| 3:15 pm – 3:45 pm | Break |
| 3:45 pm – 5:00 pm | Recap with presenter <i>Room 115, MacMillan Hall, 167 Thayer Street</i> |

Thursday June 16

Readings

- i) Moore, S., Seavy, N., Gerhart, M. 2013. Scenario planning for climate change adaptation: A guideline for resource managers. *Point Blue Conservation Science and the California Coastal Conservancy*. 1-62
- ii) Bennet, N. J., Kadfak, A., Dearden, P. 2015. Community-based scenario planning: a process for vulnerability analysis and adaptation planning to social-ecological change in coastal communities, *Environ Dev Sustain*, DOI: 10.1007/s10668-015-9707-1
- iii) Parris, A. Scenario Planning for Coastal Adaptation. *NOAA Climate Program Office*

| | |
|---------------------|--|
| 7:30 am – 8:45 am | Breakfast <i>Sharpe Refectory, 144 Thayer Street</i> |
| 9:00 am – 10:30 am | Presenter: Gustavo Nagy <i>Room 115, MacMillan Hall, 167 Thayer Street</i> |
| 10:30 am – 11:00 am | Break |
| 11:45 am – 12:30 pm | Participant Presentations <i>Room 115, MacMillan Hall, 167 Thayer Street</i> |
| 12:45 pm – 1:45 pm | Lunch <i>Sharpe Refectory, 144 Thayer Street</i> |
| 2:00 pm – 3:30 pm | Facilitated Work Time, including Consultation <i>Room 115, MacMillan Hall, 167 Thayer Street</i> |
| 4:00 pm – 8:00 pm | Clambake! (Casual attire) <i>East Greenwich, RI (Transportation arranged by BIARI. Meet outside of Watson Institute at 4:00 pm)</i> |

Friday June 17

| | |
|---------------------|---|
| 7:30 am – 8:45 am | Breakfast <i>Sharpe Refectory, 144 Thayer Street</i> |
| 9:00 am – 10:30 am | Participant Presentations <i>Room 115, MacMillan Hall, 167 Thayer Street</i> |
| 10:30 am – 11:00 am | Break |
| 11:00 am – 12:00 pm | Certificate Presentation <i>Room 115, MacMillan Hall, 167 Thayer Street</i> |
| 12:45 pm – 1:45 pm | Lunch |

| | |
|-------------------------|--|
| 2:00 pm – 3:15 pm | <i>Sharpe Refectory, 144 Thayer Street</i> Participants Presentations <i>Room 115, MacMillan Hall, 167 Thayer Street</i> |
| 3:15 pm – 3:45 pm | Break |
| 3:45 pm – 5:00 pm | Recap with presenter <i>Room 115, MacMillan Hall, 167 Thayer Street</i> |
| Saturday June 18 | Departure Day |