Hubbard Brook Cooperators' Meeting

April 6, 2016 at the Cary Institute for Ecosystem

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| **Trends and consequences of precipitation change at Hubbard Brook** | | | |
| Begin | End | Moderator | Topic &  “Lightning Talk” Speakers |
| 10:00 am | 11:15 am | Moderator: John Campbell | Precipitation trends at Hubbard Brook:  past, present and future |
|  |  | 5 minute talks followed by open moderated discussion | **John Campbell**: “*Precipitation change at Hubbard Brook*”  **Katherine Hayhoe:** *“Projected precipitation change in the northeastern U.S.” (remotely)*  **Mark Green:** “*Evapotranspiration and streamflow responses to precipitation change*”  **Eric Kelsey:** *“Orographically-modified precipitation, and how the reverse elevational gradient occurs in HBEF for certain heavy rain events”*  **Marty Quinn:** “*Visualization and sonification of precipitation data at Hubbard Brook”* |
| 11:15 am | 12:30 pm | Moderator: Heidi Asbjornsen | Forest response to precipitation change |
|  |  | 5 minute talks followed by open moderated discussion | **Pam Templer:** *“Plant response to snow depth, soil freezing, and the N cycle”*  **Lindsey Rustad:** “*Why ice storms aren’t cool: new research at HBEF*”  **Paul Schaberg:** *“Impacts of precipitation change on basal area increment derived from tree rings”*  **Tim Fahey:** *“Mountain paper birch decline: linkage to severe drought”*  **Heidi Asbjornsen:** *“Tree growth and physiological responses to changing precipitation patterns”*  **Adam Coble:** *“Adaptation and resilience to drought in northern temperate forests: a synthesis”*  **Katie Jennings:** *“Preliminary results from DroughtNet: tree transpiration response to reduced soil moisture availability”* |
| 12:30 pm | 1:00 pm | LUNCH |  |
| 1:00 pm | 1:45 pm | Moderator: Pam Templer | Impacts of precipitation change on biogeochemistry |
|  |  | 5 minute talks followed by open moderated discussion | **Rakesh Minocha:** *“Metabolic analysis from soil warming and droughtnet plots”*  **Jenny Talbot:** *“Microbial sequencing project at CCASE”*  **Peter Groffman:** *“Microbial response to snow depth, soil freezing, and N cycling”* |
| 1:45 pm | 2:30 pm | Moderator: Rebecca Sanders-Demott | Wildlife response to precipitation change |
|  |  | 5 minute talks followed by open discussion | **Rebecca Sanders-Demott:** “Reduced winter snowpack decreases winter stem herbivory on maple saplings”  **Nick Rodenhouse**: Direct and indirect effects of precipitation on forest birds  **Lynn Christenson:** “Soil free water and critters”  **Windsor Lowe:** *“Precipitation change and stream amphibians” (presented by Lindsey Rustad)* |
| 2:30 pm | 3:15 pm | Moderator: Lindsey Rustad | How precipitation amount and variability is changing at Hubbard Brook, do we care, and if yes, what should we do about it? |
|  |  | Open moderated discussion | \*Including discussion of a synthesis paper and/or special journal issue |
| 3:15 pm | 4:00 pm | COS Business |  |