		Wednesday, July 11, 2018		
8:00	Lindsey Rustad, John Battles, Pam Templer	Welcome and Announcements		
	Session I	Streams and Forest Interactions. Moderator: Dana Warren		
8:10	Emily Bernhardt	The Legacies of Acid Rain and the Future of Watershed Nitrogen Cycling		
8:15	Driscoll, Charles	Long-term trends in the concentrations and fluxes of nitrogen and organic carbon in soil solutions and streamwater at Hubbard Brook		
8:25	Rosi, Emma	Investigating long-term trends in stream algal and invertebrate communities at Hubbard Brook		
8:30	Keeton, William	Dynamic forest-stream interactions: experimental acceleration of linkages conferring late- successional stream functions and resistance to flood disturbance		
	Session II	Soil Organic Matter Dynamics. Moderator: Don Ross		
8:32	Johnson, Chris	Carbon pools and nitrogen dynamics in coarse woody debris at Hubbard Brook		
8:42	Lang, Ashley	How do mycorrhizal fungi influence leaf litter decomposition in temperate forests?		
8:47	Fuss, Colin	How a mineral soil sink for N might change with forest age		
8:57	Possinger, Angela	Soil Organic Matter Stabilization via Mineral Interactions in Forest Soils with Varying Saturation Frequency		
9:07		Discussion, Sessions I and II		
9:13		Introductions		
9:30		Break		
	Session III	Hydropedology and Biogeochemical Processes. Moderator: Madeline Schreiber		
10:10	Fraser, Olivia	A modern soils map for Hubbard Brook: Modelling hydropedology at the valleywide scale		
10:20	Strahm, Brian	Lateral weathering gradients typify critical zone architecture in glaciated catchments		
10:25	Bower, Jenny	Lateral Weathering Fluxes: Characterizing the Solid Phase		
10:27	Benton, Joshua	Lateral Weathering Gradients: Characterizing Hydrologic Fluxes		
10:29	Duston, Stephanie	Influence of organic acidity on the weathering engine of the critical zone.		
10:31	Bailey, Scott	Acid neutralization and stream chemistry: Falls Brook Revisited		
10:41	Pardo, Linda	The importance of HPUs for predicting nitrate export: why E podzols are the best		
10:51		Discussion, Session III		
	Session IV	Nitrogen and Carbon Processes. Moderator: Linda Pardo		
10:56	Groffman, Peter	New perspectives on nitrogen gases at Hubbard Brook		
11:06	Morse, Jen	Can simulated rain events induce soil nitrous oxide emissions in the forest floor?		
11:11	Uribe, Angelina	Soil denitrification potential and N2 flux two decades following experimental calcium additions		
11:13	Stewart, Anthony	Measuring Soil Oxygen at Variable Depths to Inform Denitrification Measurements		
11:15	Vietorisz, Corinne	Enzymatic activity of ectomycorrhizae across varying tree communities and soil compositions		
11:17	Shanley, Jamie	Sleepers wakes up: hope of renewed funding for a long-term watershed		
11:19	Ryan, Kevin	Assessing Sources of Dissolved Organic Carbon in Sleepers River		
11:21		Discussion, Session IV		
	Session V	State of the Brook. Moderator: Amey Bailey		
11:26	Woodall, Christopher	The State of the Hubbard Brook Experimental ForestThe USDA perspective		
11:36	Lavallee, Anthea	News from HBRF		
11:41	Besley, John C.	What do Hubbard Brook researchers think about public engagement		
11:51	Garlick, Sarah	Embedding Public Engagement with Science at Hubbard Brook: Insights from Year 1 of an NSF-funded Research-Practice Partnership		

12:01	Martin, Mary	Hubbard Brook Information Management - Annual update		
12:11	, <u>y</u>	•		
12.11	Cossion VI	Announcements, Photo, Lunch		
13:45	<b>Session VI</b> Yanai, Ruth	Multiple Element Limitation Experiment. Moderator: Ruth Yanai		
13:55	Hong, Daniel	Back on a Shoestring: N and P Co-limitation at Bartlett, Hubbard Brook, and Jeffers Brook		
14:00	Gabriel, Marissa	Timing of foliar N and P resorption, by species and treatment  Can we detect foliar nutrient status from the air? Ground truthing NEON spectra in the		
	,	MELNHE plots		
14:05	Young, Alexander	Sugar maple leaf and twig traits depend on canopy height and nutrient addition		
14:15	Libenson, Arianna	Going with the flow: is tree water use affected by nutrient availability?		
14:17	Johnston, Mariann	The who's who of fungal actors in beech bark disease: <i>N. ditissima</i> vs. <i>N. faginata</i>		
14:22	Wild, Adam	The after mast: effects of nutrients on sugar maple and beech seed production		
14:27	Riner, Donna	The seeds are falling! The seeds are falling!		
14:32	Bazany, Kathryn	Battle of the babies: what kills all those germinants?		
14:37	Macpherson, Chase	Look closely (with a LiCor) and you can see the earth breathing		
14:39	Rice, Alexandrea	Filling the gaps in our soils data: It's the pits!		
14:44		Discussion, Session VI		
	Session VII	Water, in its many forms. Moderator: Matt Vadeboncoeur		
14:49	Jacobs, Jennifer	2018 Hubbard Brook Winter Field Experiment: Snow observations in a northeastern U.S. forested region		
14:59	Hunsaker, Adam	Cold Regions Operations and Assessment Research Instrumentation		
15:01	Wilson, Geoff	Eight years of snow and soil conditions from the snow gradient plots		
15:11	Brunelle, Shannon	Dead Wood Moisture Variability in a Sugar Maple Log		
15:16	Green, Mark	New Evidence of Sub-Canopy Water Recycling		
15:26	McGuire, Kevin	Wet stream length dynamics at Hubbard Brook		
15:31		Discussion, Session VII		
15:35		Break		
	Session VIII	Climate Change Across Seasons Experiment. Moderator: Nina Lany		
16:00	Templer, Pamela	Effects of warmer growing season temperatures and a reduced winter snowpack on		
		aboveground productivity in a northern hardwood forest		
16:10	Harrison, Jamie	Effects of warmer growing season temperatures and reduced winter snowpack on in situ net mineralization and nitrification in a northern hardwood forest		
16:15	Reinmann, Andrew	Effects of warmer growing season temperatures and a reduced winter snowpack on soil		
		and tree stem respiration in a northern hardwood forest		
16:25	Bhatnagar, Jennifer	Effects of climate change across seasons on root and soil microbial communities		
16:30	Rodenhouse, Nick	Insect Armageddon? Climate and microclimate effects on forest floor arthropods		
16:40	Vadeboncoeur,			
16:45	Matthew Sanders-DeMott,	What's next for Hubbard Brook DroughtNet?  Determining the Influence of Winter on Ecosystem Carbon Metabolism across the		
10.43	Rebecca	Northeast US		
16:50	Hicks Pries, Caitlin	Changing soil respiration dynamics with depth, season, and warming		
16:55	•	Discussion, Session VIII		
17:02		Announcements		
18:00		Dinner and Tent Dance		
10.00		Diffici and Telle Dance		

	Thursday, July 12, 2018			
8:00		Announcements		
	Session IX	Ice Storm Experiment. Moderator: Lindsey Rustad		
8:05	Rustad, Lindsey	Cool New Results on Forest Response to a Suite of Experimental Ice Storms at the Hubbard Brook Experimental Forest		
8:15	Campbell, John	Impacts of the experimental ice storm on carbon cycling		
8:25	Fahey, Tim	Response of forest structure to simulated ice storm		
8:35	Burns, Simone	DOM Response to Ice Storm Disturbance		
8:40	Fakhraei, Habibollah	Modeling the Impacts of Ice Storms on Forested Ecosystems		
8:50		Discussion, Session IX		
	Session X	Vegetation Dynamics. Moderator: Natalie Cleavitt		
8:55	Valipour, Mahnaz	Disturbances and the sustainability of a northern hardwood forest: Evaluation through modeling biomass and cycle of nutrients under different intensive timber harvesting regimes coupled with future climate change projections		
9:05	Lovett, Gary	Predicting the impacts of invasive pests on forest carbon and nitrogen cycling		
9:15	Ouimette, Andrew	Patterns and Drivers of Carbon Fluxes in Northeastern Temperate Forests		
9:25	Lany, Nina	Causes of spatio-temporal variation in foliar chemistry in Watersheds 1 and 6		
9:35	Studer, Liz	Above the Canopy: Using Drones to Quantify Phenology and Monitor the Decline of Ash in HBEF		
9:40	Matthes, Jackie	Simulating Long-Term Vegetation Dynamics and Future Biotic Disturbance at Hubbard Brook		
9:45	Schaberg, Paul	Using tree cores from Hubbard Brook to understand regional impacts of acid deposition on red spruce		
9:50	Brydon-Williams, Rhys	Distribution, Presence, and Habitat of the Chaga fungus ( <i>Inonotus obliquus</i> ) within the White Mountains National Forest		
9:52	Bergum, Molly	Understanding herbivory on two round-leaved orchid species		
9:54		Discussion, Session X		
9:50		Break		
	Session XI	Heterotroph Dynamics and Ecology. Moderator: Lynn Christensen		
10:20	Holmes, Richard	50 Years of Bird Population Change at Hubbard Brook, 1969-2018		
10:30	Kovari, Stephen	Where's the Wildlife Going at Hubbard Brook?		
10:40	Symes, Laurel	Spatial and temporal patterns in the vocalizations of Hubbard Brook songbirds		
10:45	Ralston, Jessica	Bioacoustic monitoring of Bats in Hubbard Brook		
10:50	Van Tatenhove, Aimee	How is a changing climate affecting animal ranges in the Hubbard Brook ecosystem?		
11:00	Hallworth, Mike	Migration phenology influences the population growth rate of a long distance migratory songbird		
11:10	Savides, Kim	Do ptilochronology, feather length, and feather quality highlight the importance of breeding season carry-over effects on the annual cycle of a migratory songbird, the Blackthroated Blue Warbler?		
11:15	Cotnoir, Alexander	Post-Fledging Behavior and Parental Care among Black-Throated Blue Warblers		
11:17		Discussion, Session XI		
	Session XII	Calcium Addition Experiment. Moderator: Chris Johnson		
11:22	Battles, John	Restoring soil calcium continues to counter forest decline.		
11:32	Cleavitt, Nat	Can sugar maple be saved: regeneration dynamics and restoration of soil calcium		
11:42	LoRusso, Nicholas	Horizonal patterns of DOM in calcium treated and reference watersheds at the Hubbard Brook Experimental Forest		
11:52	Taylor, Lyla	Acid rain and nitrate export limit carbon capture in Watershed 1		

12:02	Marinos, Richard	Soil and stream signals of a changing N cycle in the Ca-enriched watershed		
12:12	Peralta Tapia, Andres	Understanding the hidden story of watershed 1		
12:14		Discussion, Session XII		
12:20		Announcements		
12:30		Lunch		
1:00-		Town Hall Discussion		
2:00				

2018 Working Group and Committee Meetings							
Time	Location	Committee/Group	Leader				
14:00-15:00	Meeting Room	PES@LTER Project Meeting	Sarah Garlick				
14:00-15:00	Lunch Room	Archive Meeting	Linda Pardo				
15:00-16:00	Lunch Room	Education & Outreach Committing	Sarah Garlick				
15:00-16:00	Meeting Room	Information Oversight Committee	Mary Martin				
15:00-16:00	Tent	MELNHE Working Group	Ruth Yanai				
16:00-17:00	Lunch Room	Foliage Working Group	Linda Pardo				
16:00-17:30	Meeting Room	Ice Storm Working Group	Lindsey Rustad				