



Presentations from the Long-Term Ecological Research Program

2015 ESA Annual Meeting, Baltimore MD

June 24 draft (for additions, email hart3@fas.harvard.edu)

SATURDAY, August 8

<u>TIME</u>	<u>PLACE</u>	<u>SESSION</u>	<u>TITLE</u>
8:00-11:30am	Johns Hopkins Univ. Homewood Campus	WK 2	WORKSHOP (organizer: Katalin Szlavecz): Life Under the City : Assessment of Urban Soils. (BES)
9:00am-3:30pm	Meet at BCC – Charles St.	FT 4	FIELD TRIP (organizer: Alexander Felson): Ecological Science and Grassroots Planning: Defining Research Opportunities That Support Diverse Community Interests. (BES)
12:00-5:00pm	303	WK 9	WORKSHOP (organizer: Alan Berkowitz): Engaging K-12 Educators in Teaching and Learning about Urban Ecosystems. (Multiple sites)

SUNDAY, August 9

<u>TIME</u>	<u>PLACE</u>	<u>SESSION</u>	<u>TITLE</u>
9:00am-3:00pm	Meet at BCC – Charles St.	FT 9	FIELD TRIP (organizer: Alexander Felson): Urban Bioblitz Along Sites of Baltimore's Upper Middle Branch and Watershed 263. (BES)
9:45am-2:00pm	Meet at BCC – Charles St.	FT 10	FIELD TRIP (organizer: Alan Berkowitz): Green Infrastructure in a Revitalizing Dense Urban Neighborhood. (BES)
10:15am-3:00pm	Meet at BCC - Charles St.	FT 11	FIELD TRIP (organizer: Peter Groffman): Long Term Ecological Research Sites in Baltimore (BES)
12:00-5:00pm	307	WK 25	WORKSHOP (organizer: Matthew Lau): Ecological Network Analysis (Network-wide)
12:00-5:00pm	311	WK 29	WORKSHOP (organizer: Clarisse Hart): Communicating science vividly (Network-wide)

MONDAY, August 10

1:30 to 5:00pm ↘	308	SYMP 2	SESSION (organizer: Peter Groffman): An Ecology IN, OF, and FOR the City (Multiple sites)
		1:30pm SYMP 2-1	STEWART PICKETT: The evolution and future of urban ecological science . (Multiple sites)
		2:00pm SYMP 2-2	MORGAN GROVE: Links between science, design and decision making in urban ecology: Best practice and its future refinement. (Multiple sites)
		2:30pm SYMP 2-3	NANCY GRIMM: Developing a concept of social-ecological-technological systems to characterize resilience of urban areas and infrastructure to extreme events. (Multiple sites)
		4:10pm SYMP 2-6	EMMA ROSI-MARSHALL: Beyond the urban stream syndrome : Understanding the ecology IN, OF, and FOR sustainable urban stream ecosystems. (Multiple sites)
3:30 to 5:00pm ↘	345	IGN 2	SESSION (organizer: Margaret Kosmala): Going Macro : Is Scaling Up All the Same? (Network-wide)
		IGN 2-2	ANA DAVIDSON: Biodiversity conservation : From prairie dogs to global mammal extinction (SEV)
		IGN 2-4	ELIZABETH BORER: Metagenomics at the global scale : Plant microbes across the Nutrient Network. (Multiple sites)
		IGN 2-6	JOHN KOMINOSKI: Rivers without headwaters are like trees without branches: Integrating network-

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MONDAY

		IGN 2-7	level ecological connectivity to enhance conservation. (Multiple sites) SHARON HALL: Are cities the same everywhere? Testing homogeneity of human-dominated ecosystems at continental scales. (Multiple sites)
		IGN 2-9	MAGARET KOSMALA: Plants, canopies, landscapes: Plant phenology across scales. (HFR)
2:10pm	325	COS 11-3	JACOB WALSH: Environmental conditions trigger rapid transition from undetected invasion to high density of spiny water flea in Lake Mendota (WI). (NTL)
2:30pm	310	OOS 1-4	KATALIN SZLAVECZ: Local and global patterns of urban soil biodiversity. (BES)
2:30pm	327	OOS 6-4	LAUREANO GHERARDI: Contrasting plant-functional type responses to increased interannual precipitation variability. (JRN)
2:50pm	319	COS 5-5	DEBRA PETERS: Can we use the past as a lens to the future? Using historic events to predict regional grassland and shrubland responses to multi-year drought or wet periods under climate change. (Multiple sites)
3:40pm	326	COS 12-7	A. CAROLIN FRANK: Temporal, spatial, and host-species variability in the conifer foliar endophyte community suggests airborne transmission of nitrogen-fixing symbionts. (NWT)
3:40pm	314	OOS 2-7	OMAR PEREZ-REYES: Decapod communities under the effects of hurricanes, droughts and humans in neotropical streams. (LUQ)
4:00pm	314	OOS 2-8	TODD CROWL: Community organization and ecosystem response to anthropogenic impacts: Are subtropical, coastal rivers different? (LUQ)
4:00pm	321	COS 7-8	DANA RICHARD WARREN: Is co-limitation of primary production in headwater streams by light and nutrients a product of aggregate single-factor limitation? (AND)
4:20pm	317	OOS 5-9	CHARLOTTE RIGGS: Soil organic matter decomposition response to N enrichment in grassland soils. (CDR)
4:40pm	342	OOS 10-10	ADAM CLARK: A predictive community ecology model for extrapolating from field observations to novel conditions. (CDR)
Poster	Exhibit Hall	PS 7-69	EMILY ADAMS: Blue carbon in freshwater / brackish marshes on the Barrier Islands of Virginia: Aboveground net primary productivity and carbon pools. (VCR)
Poster	Exhibit Hall	PS 10-98	MATTHEW SMITH: Belowground decomposition rate thresholds and their relationship to plant community state change along a Virginia barrier island dune/swale transect. (VCR)
Poster	Exhibit Hall	PS 13-126	BRIDGET DARBY: The role of microbes in retaining soil nitrogen with depth at Hubbard Brook. (HBR)
Poster	Exhibit Hall	PS 14-134	AMALIA HANDLER: Hydrologic and chemical connectivity in urban accidental wetlands: Implications for nitrate removal. (CAP)
Poster	Exhibit Hall	PS 17-160	AUDREY BARKER PLOTKIN: The Harvard Forest LTERV Program: Long-term trajectories and new results. (HFR)
Poster	Exhibit Hall	PS 17-161	NATHAN BURRUSS: The ecology of catastrophic events: Understanding abrupt spatial transitions in susceptibility of grasslands and croplands to multi-year drought. (JRN)
Poster	Exhibit Hall	PS 18-167	NATALIE BOELMAN: Arctic breeding songbirds cope with variability in the timing of spring onset. (ARC)
Poster	Exhibit Hall	PS 18-177	JIN YAO: Simulated distribution of an invasive grass, Lehmann lovegrass, in the Chihuahuan Desert under future climate scenarios. (JRN)
Poster	Exhibit Hall	PS 19-198	DOROTHY STEARNS: Effects of drought exposure on belowground productivity in a desert grassland. (SEV)
4:30-6:30pm	Exhibit Hall	Social Event	LTER GRADUATE STUDENT MIXER. All graduate students conducting research at an LTER site welcome to attend.
8:00-10:00pm	309	SS 10	SPECIAL SESSION (organizer: Mark Kramer): New Frontiers: Bridging the Gaps Between Continental and Global-Scale Research Networks, A Special AGU-ESA Event and Evening Social (Network-wide)

TUESDAY, August 11

8:00am	340	OOS 21	SESSION (organizer: Katalin Szlavecz): Urban Soil Biodiversity: A New Frontier in Ecological Science and Education
8:00am	320	COS 22-1	LINDA PARDO: Using a hydrogeological framework to identify carbon and nitrogen cycling hotspots in a northern hardwood forest. (HBR)

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8:20am	325	COS 27-2	TIMOTHY DICKSON: Can the results of biodiversity-ecosystem productivity studies be translated to bioenergy production? (KBS)
9:00am	325	COS 27-4	CASE PRAGER: Plant diversity effects on carbon cycling in the Arctic. (ARC)
9:20am	320	COS 22-5	EMILY BERNHARDT: The forest grows but the ecosystem leaks : Calcium enrichment increases both forest biomass and nitrogen export. (HBR)
9:20am	321	COS 23-5	MICHAEL GOOSEFF: Antarctic terrestrial ecosystems abide : Changes in soils, lakes and streams of the McMurdo Dry Valleys as the cooling trend ends. (MCM)
10:10am	307	SYMP 4-5	FOREST ISBELL: No systematic local biodiversity loss : Where, when, and relative to what baseline? (Network-wide)
10:10am	329	OOS 43-7	SERITA FREY: Effects of warming on soil microbial communities and feedbacks to nitrogen and carbon fluxes in a mixed temperate forest ecosystem. (HFR)
1:30pm	301	COS 38-1	JOHN KOMINOSKI: Timing is everything : Understanding short- and long-term variability in light and temperature on inter-biome freshwater ecosystem production. (FCE)
1:30pm	328	OOS 30-1	ALAIN PLANTE: Exploring relationships between microbial ecology and soil organic matter stability in deep tropical soil profiles. (LUQ)
1:30pm	303	COS 40-1	JORGE RAMOS: A new vegetation chamber to investigate the role of macrophytes in the CH ₄ and N ₂ O gas fluxes from constructed wetland in Phoenix, AZ. (CAP)
1:50pm	328	OOS 30-2	PETER GROFFMAN: Urbanization effects on nitrogen dynamics in the critical zone. (BES)
1:50pm	322	COS 45-2	MICHAEL HALLWORTH: Temporal and spatial heterogeneity of avian community dynamics within a forested landscape. (HBR)
2:10pm	325	COS 48-3	CHRISTINE SPRUNGER: Differences in fine root production and C allocation among perennial cropping systems in contrasting soils of the upper Midwest. (KBS)
2:10pm	336	OOS 31-3	LISA TIEMANN: Can we enhance soil services in agroecosystems through rotational diversity? (KBS)
2:15pm	311	LNG 1-8	BRANDON BESTELMEYER: Geography as destiny? Social and ecological resilience in rangelands of the American southwest. (JRN)
2:30pm	322	COS 45-4	NATHAN PIERCE: Location, location, location : The influence of plant neighborhood configuration on grass-shrub interactions. (JRN)
2:50pm	314	OOS 24-5	ERIC LIND: Combining distributed ecology with phylogenetics to understand global change: Lessons from the Nutrient Network. (Multiple sites)
2:50pm	322	COS 45-5	SPENCER BISSETT: Linking vines to woody hosts : Untangling the biotic influences in a physically dominated environment. (VCR)
2:50pm	342	OOS 34-5	LINDA VAN DIEPEN: Using soil metatranscriptomics to understand fungal functioning in a changing climate. (HFR)
3:20pm	344	OOS 33-6	TAD DALLAS: Using niche modeling to detect unobserved interactions in host-parasite networks. (SEV)
3:20pm	321	COS 44-6	JOSHUA DIAMOND: Canopy gaps do not help establish pioneer tree species in a South Florida dry forest. (FCE)
3:30pm	311	LNG 2-1	KRISTINA STINSON: Predicting future plant phenology and distribution : Does ecotype matter? (HFR)
3:30pm	345	IGN 6-6	CORINNA GRIES: Publishing, sharing, and accessing ecological data : A Long-Term Ecological Research (LTER) site's approach. (Network-wide)
4:00pm	328	OOS 30-8	WENDY YANG: Controls on potential iron reduction in soils from diverse ecosystems. (SEV, LUQ)
4:20pm	303	COS 40-9	MARK ANTHONY: Garlic mustard invasion increases fungal richness and restructures fungal communities. (HFR)
Poster	Exhibit Hall	OPS 3	POSTER SESSION (organizer: Andrew Fox): Advancing Ecological Understanding Using Network-Level Science. (Multiple sites)
		OPS 3-14	LAUREN ALTEIO: A holistic view of soil ecosystems through integrative eukaryotic and prokaryotic metatranscriptome analysis. (HFR)
Poster	Exhibit Hall	OPS 4	POSTER SESSION (organizer: Jonathan Dandois): Drones for Ecology : New Sampling Tools for Personal Remote Sensing of Ecosystems. (Multiple sites)
Poster	Exhibit Hall	PS 23-22	AUDREY KIRSCHNER: Grassland species vary in tolerance to stressors associated with climate change. (VCR)
Poster	Exhibit Hall	PS 23-23	JUAN ALVIREZ-YEPIZ: Visible and invisible effects of Hurricane Jova in a tropical dry forest ecosystem in western Mexico. (iLTER)

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Poster	Exhibit Hall	PS 23-25	KEVIN WILCOX: Two decades of irrigation in a water-limited grassland : Above and belowground C responses. (KNZ)
Poster	Exhibit Hall	PS 26-43	ALLYSON DEGRASSI: Effects of hemlock woolly adelgid on small mammal richness and community assemblages in eastern hemlock forests. (HFR)
Poster	Exhibit Hall	PS 26-52	JULIE ZINNERT: Functional traits explain ecosystem engineering in dune building grasses. (VCR)
Poster	Exhibit Hall	PS 26-53	ELSEMARIE deVRIES: Vegetation controls on coastal foredune size : Field and remote sensing evidence. (VCR)
Poster	Exhibit Hall	PS 26-66	BENJAMIN DOWS: Shrub encroachment and persistence : A case of biofeedback leading to stability after state change. (VCR)
Poster	Exhibit Hall	PS 26-70	J. AARON HOGAN: Revisiting the interaction of land use and the environment in a Puerto Rican subtropical wet forest. (LUQ)
Poster	Exhibit Hall	PS 37-156	JESSICA KETTENBACH: Willow shrub density affects pollination of alpine forbs differentially and nonlinearly. (NWT)

WEDNESDAY, August 12

8:40am	302	COS 58-3	OWEN McKENNA: Ecosystem controls over deep water percolation beneath desert playa wetlands. (JRN)
8:40am	318	COS 60-3	PATRICK SORENSEN: Increased freeze-thaw cycles in winter partially offsets stimulatory effects of growing season soil warming on microbial activity in northern hardwood forests. (HBR)
9:00am	319	COS 61-4	JOHANNES ROUSK: Fungal-to-bacterial dominance of soil food-webs in a changing world: Consequences for the priming effect and resource-use efficiency. (HFR)
9:50am	319	COS 61-6	MICHAEL ABRAHA: Water use efficiency of annual corn and perennial grasses. (KBS)
10:00am-2:00pm	Meet at BCC – Charles St.	FT 14	FIELD TRIP (organizer: Emma Rosi-Marshall): A Hike along the Gwynns Falls Trail (BES)
10:10am	303	COS 59-7	NICOLE MILLER-STRUTTMANN: When attention deficit pays : Bumble bee foraging breadth expands to compensate for declining flower resources under climate change. (NWT)
10:10am	340	OOS 45-7	PAIGE WARREN: Socioecological linkages in cities and the rise in interdisciplinary research. (BES, CAP)
10:30am	347	COS 75-8	ZAK RATAJCZAK: The temporal dimension of regime shifts : How long can ecosystems operate beyond critical thresholds before transitions become irreversible? (Multiple sites)
11:10am	319	COS 61-10	ALLISON VEACH: Historical precipitation regime and drying-rewetting interval alters grassland soil microbial community dynamics. (KNZ)
1:30 to 5:00pm	317	OOS 50	SESSION (organizer: Anita Guerrini): History and Its Uses in the NSF Long-Term Ecological Research Network (Multiple sites)
		1:30pm OOS 50-1	ANITA GUERRINI: Ecological histories : Contrasting uses of history at two LTER sites. (AND, SBC)
		1:50pm OOS 50-2	ADRIAN HOWKINS: Ecological research in the McMurdo Dry Valleys , Antarctica during the 1960s. (MCM)
		2:30pm OOS 50-4	DAVID FOSTER: Harvard Forest LTER program : The role of historical studies in ecological research and conservation planning. (HFR)
		2:50pm OOS 50-5	GINA RUMORE: An oak tree conundrum : Field research versus big data in the history of American ecology. (Network-wide)
		3:20pm OOS 50-6	TED GRAGSON: Evolution of ideas and team science at the Coweeta LTER. (CWT)
		3:40pm OOS 50-7	SAMUEL SCHMIEDING: Untangling the tangled bank : Locating, preserving and interpreting the archival history of the H.J. Andrews Experimental Forest. (AND)
		4:00PM OOS 50-8	DIANE McKNIGHT: The uses of history for ecological research : A scientist's perspective on contributions from the heroic age of Antarctic exploration. (MCM)
1:30pm	319	COS 80-1	GEORGE MANNING: Processes influencing community assembly during grassland restoration. (KNZ)
1:30pm	314	OOS 47-1	CHRISTINE ROLLINSON: Drivers of ecosystem variability across temporal scales : Insights from a multi-model comparison of forest dynamics for the past millennium. (Multiple sites)
1:50pm	336	OOS 54-2	JAMES CLARK: Forecasting the forest and the trees : Consequences of competition and climate for

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

			biodiversity change. (Multiple sites)
2:10pm	303	COS 78-3	GARY LOVETT: Does de-acidification affect forest floor carbon dynamics? (HBR)
2:10pm	338	COS 89-3	MAX CASTORANI: Connectivity structures local population dynamics: A long-term empirical test in a large metapopulation network. (SBC)
2:30pm	308	SYMP 14-3	KATY HEATH: Ecological genomics of mutualism decline in response to nitrogen fertilization. (KBS)
2:30pm	315	OOS 48-4	MARTHA MATHER: Trade-offs between site fidelity and local dispersal create heterogeneity in consumer-mediated habitat linkages in a disturbed seascape. (PIE)
3:20pm	319	COS 80-6	ERIC SOKOL: A simulation-based approach to understand how metacommunity characteristics influence emergent biodiversity patterns. (Multiple sites)
4:00pm	340	OOS 55-8	NATHAN EMERY: Summer fog and plant flammability along the California coast. (SBC)
Poster	Exhibit Hall	OPS 5-12	RYLAND TAYLOR: Confluence network dynamics can create a spatial mosaic of predator interactions. (PIE)
Poster	Exhibit Hall	PS 45-48	JULEA SHAW: Patterns of surface rock cover and implications for plant, water, and nutrient dynamics at long-term ecological research sites in Phoenix, AZ. (CAP)
Poster	Exhibit Hall	PS 48-73	TEMPEST McCABE: Ant community level response to soil warming and nitrogen addition in temperate forests. (HFR)
Poster	Exhibit Hall	PS 48-83	DAVID ORWIG: Initial census, composition, and spatial patterns within the 35 ha ForestGEO Plot at Harvard Forest. (HFR)
Poster	Exhibit Hall	PS 49-90	ELIZABETH HEDRICK: Recording on the fly: Can acoustic monitoring track bumble bees (<i>Bombus</i> spp.) in remote habitats?
Poster	Exhibit Hall	PS 58-199	NEIL BETTEZ: Denitrification and soil water chemistry in riparian areas along an urbanization gradient. (BES)
6:00-7:30pm	TBD	Social Event	HARVARD FOREST SOCIAL: Past and present researchers, students, and friends of the Harvard Forest are welcome to attend.
8:00 to 10:00pm	314	SS 26	SPECIAL SESSION (organizer: Marissa Weiss): Using Science-Policy Integration to Improve Ecosystem Science and Inform Decision-Making: Lessons from U.S. LTERs. (Multiple sites)

THURSDAY, August 13


8:00am	318	COS 98-1	REBECCA SANDERS-DeMOTT: Effects of warmer temperatures and a smaller winter snowpack on nitrogen retention in a northern hardwood forest. (HBR)
8:00am	310	OOS 58-1	OSVALDO SALA: Contrasting above-belowground responses to long-term precipitation and nitrogen manipulations in a desert grassland. (JRN)
8:00am	341	OOS 68-1	DAWN BROWNING: Unraveling the mystery of dryland plant phenology through time and space with multi-scale remote sensing. (JRN)
8:40am	303	COS 97-3	ANN OLSSON: Effects of wildfire on soil net nitrification in the boreal forest of interior Alaska. (BNZ)
8:40am	347	COS 112-3	KRISTEN DaVANON: The effects of urbanization on trophic interactions in a desert landscape. (JRN)
8:40am	341	OOS 68-3	STEVE KLOSTERMAN: Bridging the organism and landscape scales of deciduous forest phenology using an unmanned aerial vehicle, PhenoCam, and remote sensing. (HFR)
9:20am	303	COS 97-5	PAMELA TEMPLER: Effects of warmer growing season temperatures and a reduced winter snowpack on water and carbon uptake in a northern hardwood forest. (HBR)
10:30am	303	COS 97-8	GRACE POLD: Forest soil metagenomes demonstrate chronic soil warming induces changes in microbial functional potential. (HFR)
1:30 to 5:00pm	314	OOS 71	SESSION (organizer: Valerie Eviner): The Role of Long-Term Studies in Advancing Ecological Understanding (Network-wide)
		2:10pm OOS 71-3	CHARLES DRISCOLL: Effects of changing atmospheric deposition on the structure and function of the Northern Forest: Long-term measurements, experiments and future model projections from the Hubbard Brook Experimental Forest, New Hampshire, USA. (HBR)
		2:50pm OOS 71-5	ALAN KNAPP: Long-term research and the future of grassland ecosystems: What have we learned? (KNZ)
		3:20pm OOS 71-6	SUMANTA BAGCHI: Distinguishing linear, nonlinear, transient and persistent vegetation dynamics to characterize empirical signatures of ecological resilience. (Multiple sites)

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T H U R S D A Y

1:30-3:00pm	345	IGN 14	SESSION (organizer: Jianwu Tang): Effects of Evolutionary Processes on Ecosystem Biogeochemical Cycles: Integration of Evolutionary Biology and Ecosystem Science (Multiple sites)
		IGN 14-2	JACQUELINE MOHAN: Forests of the future : From Harvard Forest to Costa Rican cloud forests, the eco-evo role of mycorrhizae for determining ecosystem responses to climate warming. (Multiple sites)
		IGN 14-3	NED FETCHER: Local adaptation and the response of Arctic tundra to climate change.
		IGN 14-4	JIANWU TANG: Why does forest growth decline with age? (HFR)
		IGN 14-6	PETER GROFFMAN: Plants rule, microbes drool : Evolution and response of biogeochemical cycles to global environmental change.
		IGN 14-7	EDWARD RASTETTER: Reuniting community ecology , ecosystem biogeochemistry, and ethology.
3:30 to 5:00pm	345	IGN 15	SESSION (organizer: Evelyn Gaiser): Understanding of the Dynamics and Controls of Primary Productivity in a Changing World (Network-wide)
		IGN 15-1	AUDREY BARKER PLOTKIN: Long-term dynamics and controls of forest productivity in the northeastern USA. (HFR)
		IGN 15-2	DIANE McKNIGHT: More summer, more nitrogen and thinner ice : Long-term trends in summertime phytoplankton abundance in an alpine lake in the Colorado Rocky Mountains. (NWT)
		IGN 15-3	JOHN PRISCU: Long term trends in phytoplankton productivity in McMurdo Dry Valley (Antarctica) lakes. (MCM)
		IGN 15-4	ERIC SEABLOOM: Food webs control the strength of diversity-productivity relationships. (CDR)
		IGN 15-5	EMILY STANLEY: Long-term trends in lake metabolism : Heterogeneity and variance. (NTL)
		IGN 15-6	LAUREN HALLETT: Compensatory dynamics in nature : A stabilizing role for interspecific competition. (NWT)
		IGN 15-7	TIFFANY TROXLER: C cycling, landscape disturbances and water management : Views through the marsh grass lens. (FCE)
1:30pm	340	OOS 80-1	AARON ELLISON: The emergence of ecology and the challenges of modernism. (HFR)
1:30pm	302	COS 115-1	BENJAMIN WILSON: Changes in ecosystem carbon responses to saltwater exposure: Implications of sea level rise in the Florida coastal Everglades. (FCE)
2:10pm	315	OOS 72-3	THOMAS SCHMIDT: Microbial life histories . (KBS)
2:50pm	348	COS 132-5	DANIEL CHILDERS: Turquoise infrastructure in cities : How a constructed treatment wetland provides key urban ecosystem services in Phoenix, AZ. (CAP)
3:20pm	336	OOS 78-6	ERIN CONLISK: Projecting changes in subalpine tree populations with warming across an elevation gradient. (NWT)
4:20pm	302	COS 115-9	SUZANNE THOMAS: "Push-pull" assays in the field reveal coupled sulfur, nitrogen, and carbon cycling in salt marsh sediment. (PIE)
4:20pm	348	COS 132-9	HANNAH HEAVENRICH: Soil biogeochemical consequences of a 'sustainable' urban grassland to shrubland transition. (CAP)
Poster	Exhibit Hall	PS 62-31	DAVID RICHARDSON: Environmental data-driven inquiry and exploration (Project EDDIE): A model to engage students in quantitative reasoning and scientific discourse. (Multiple sites)
Poster	Exhibit Hall	PS 63-37	MANISHA PATEL: Ten years of student gains from undergraduate research at the Harvard Forest Summer Research Program in Ecology. (HFR)
Poster	Exhibit Hall	PS 72-116	PETYA CAMPBELL: EO-1 Hyperion reflectance time series tracing the seasonal dynamics in vegetation bio-physical parameters. (Multiple sites)
Poster	Exhibit Hall	PS 77-185	KATIE MILLER: Variation in C:N:P stoichiometry across a climate gradient in worker ants of the <i>Aphaenogaster rudis</i> species complex. (HFR)

FRIDAY, August 14

8:00 to 11:30am	317	OOS 86	SESSION (organizer: Benjamin Wilson): Coastal Wetlands in a Changing World : Drivers of Carbon Storage and Loss (Multiple sites)
		8:00am OOS 86-1	JAMES MORRIS: Refining estimates of salt marsh carbon sequestration and its dependencies. (PIE)
		8:40am OOS 86-3	STEVEN PENNING: Vegetation regime shift in coastal wetlands affects trapping of wrack subsidies from subtidal habitats. (GCE)

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FRIDAY

		9:20am	OOS 86-5	TIFFANY TROXLER: The effects of projected sea-level rise on Everglades coastal ecosystems: Evaluating the potential for and mechanisms of peat collapse. (FCE)
		10:30am	OOS 86-8	NATHANIEL WESTON: Alterations to tidal marsh biogeochemical cycling and greenhouse gas exchange in response to sea-level rise and salinity intrusion. (PIE)
8:00 to 11:30am	336		OOS 90	SESSION (organizer: Cayelan Carey): Cross-Scale Perspectives : Integrating Long-Term and High-Frequency Data into Our Understanding of Communities and Ecosystems. (Network-wide)
		8:00am	OOS 90-1	SCOTT COLLINS: Measuring the impacts of climate variability on desert plant communities with in situ sensor networks. (SEV, SGS)
		8:20am	OOS 86-2	KIMBERLY LaPIERRE: Patterns of convergence and divergence : A meta-analysis of the variability of community responses to global change drivers. (Multiple sites)
		8:40am	OOS 90-3	JACKSON WEBSTER: Long-term data reveals a regime shift in watershed nitrogen export. (CWT)
		9:20am	OOS 90-5	PAUL HANSON: Seasonal lake metabolism and its consequences for long-term organic carbon cycling in lakes. (NTL)
		9:40am	OOS 90-6	STEPHEN CARPENTER: Whole-ecosystem test of early warnings for cyanobacteria blooms. (NTL)
8:00am	317		OOS 86-1	JAMES MORRIS: Refining estimates of salt marsh carbon sequestration and its dependencies. (PIE)
8:40am	336		OOS 90-3	JACKSON WEBSTER: Long-term data reveals a regime shift in watershed nitrogen export. (CWT)
8:40am	302		COS 134-3	STEVEN PERAKIS: Disturbance and topography regulate nitrogen availability and stable isotopes over long-term forest succession. (AND)
9:00am	320		COS 138-4	MELISSA McCORMICK: Loss of <i>Spartina alterniflora</i> genetic diversity associated with marsh bank fragmentation after long-term fertilization. (PIE)
9:50am	328		OOS 88-6	RODRIGO VARGAS: Changes in precipitation intensity and frequency influence carbon dynamics in an arid grassland: Results from a multiannual experiment. (SEV)
9:50am	318		COS 136-6	ELLEN WELTI: Changes in grassland plant-pollinator community structure with management and scale. (KNZ)
10:10am	328		OOS 88-7	NEIL PEDERSON: Evidence of synchronous extreme disturbance at regional to subcontinental scales in a largely asynchronous system. (HFR)
10:30am	316		OOS 85-8	ELIZABETH BORER: Turnover of endophytic microbial communities under environmental change. (CDR)
10:30am	326		COS 144-8	ELIZABETH LANDIS: Sustained effects of chronic N addition on the capacity of fungi to degrade lignin. (HFR)
11:10am	315		OOS 84-10	DAVID IWANIEC: Sustainable future scenarios for the Central Arizona–Phoenix region. (CAP)
Poster	Exhibit Hall		PS 86-49	AMANDA SUCHY: Exploring the role of soil characteristics and plant traits as drivers denitrification in “accidental” urban wetlands in Phoenix, Arizona. (CAP)
Poster	Exhibit Hall		PS 88-86	MATTHEW LAU: Temporal scales of coupled ecosystem processes provide a benchmark for alternate ecosystem states: Photosynthesis and decomposition in a model micro-ecosystem. (HFR)
Poster	Exhibit Hall		PS 88-89	ASHLEY MOULTON: Functional type changes over a disturbance gradient of overwash sites on a Virginia barrier island. (VCR)
Poster	Exhibit Hall		PS 92-116	RAKESH MINOCHA: Long-term trends of changes in pine and oak nitrogen metabolism (foliar and sapwood) in response to chronic nitrogen amendments at the harvard forest, MA. (HFR)
Poster	Exhibit Hall		PS 107-274	JULIE RIPPLINGER: Ecology of foreclosure : Post-recession vegetation characteristics of urban landscapes. (CAP)

For additions, email hart3@fas.harvard.edu.

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