



USGS @ ESA 2014 CONFERENCE BOOK

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Visit the USGS Booth Stop by our booth at Exhibit Hall space 206!
 Meet USGS researchers, watch USGS science films, pick up research briefings and publications, and learn about how USGS helps lead ecological research.

Download this Conference Book bit.ly/usgsESA2014



MONDAY – PRESENTATIONS

Table shows USGS **presenters** only. Detailed list includes coauthored talks.

Title	USGS Presenter	Time	Room
Climate change and the Northwest United States	Jeremy S. Littell	1:30 – 3:30 PM	313, Sacramento Convention Center
Ecological Drought in California Forests: Linking Climate Science and Resource Management	Stephen T. Jackson	1:30 PM-5:00 PM	307, Sacramento Convention Center
Downscaling extremes: Abilities of regional downscaling in studying ecological drought	Daniel Cayan	1:30 PM	307, Sacramento Convention Center
Global change threats to shrubland resilience	Jon E. Keeley	1:50 PM	306, Sacramento Convention Center
Are recent increases in forest mortality a symptom of drought?	Phillip J. van Mantgem	2:30 PM	307, Sacramento Convention Center
Root growth rates and nitrogen accumulation in a highly productive temperate peatland	Kristin B. Byrd	2:50 PM	314, Sacramento Convention Center
History and vulnerability of meadows in the Sierra Nevada	Matthew L. Brooks	4:20 PM	307, Sacramento Convention Center

IGN 1-5

Climate change and the Northwest United States

Monday, August 11, 2014 | 1:30 – 3:30 PM

313, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper46051.html>

Jeremy S. Littell, Alaska Climate Science Center

OOS 6

Ecological Drought in California Forests: Linking Climate Science and Resource Management

Monday, August 11, 2014 | 1:30 PM-5:00 PM

307, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Session9759.html>

Stephen T. Jackson, Southwest Climate Science Center (Session Moderator)

OOS 6-1**Downscaling extremes: Abilities of regional downscaling in studying ecological drought**

Monday, August 11, 2014 | 1:30 PM

307, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper45890.html>

Daniel Cayan, USGS, La Jolla, CA

Lorraine Flint, USGS California Water Science Center

Alan Flint, USGS California Water Science Center

OOS 5-2**Global change threats to shrubland resilience**

Monday, August 11, 2014 | 1:50 PM

306, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper45823.html>

Jon E. Keeley, USGS Western Ecological Research Center

COS 16-3**Erosion of refugia in the Sierra Nevada meadows network with climate change**

Monday, August 11, 2014 | 2:10 PM

315, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper49344.html>

Toni Lyn Morelli, Northeast Climate Science Center

Alan Flint, USGS California Water Science Center

Lorraine Flint, USGS California Water Science Center

OOS 6-4**Are recent increases in forest mortality a symptom of drought?**

Monday, August 11, 2014 | 2:30 PM

307, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper45893.html>

Phillip J. van Mantgem, USGS Western Ecological Research Center

COS 15-5**Root growth rates and nitrogen accumulation in a highly productive temperate peatland**

Monday, August 11, 2014 | 2:50 PM

314, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper49297.html>

Kristin B. Byrd, USGS, Menlo Park, CA

Lisamarie Windham-Myers, USGS, Menlo Park, CA

IGN 2-1

Climate change, ecosystems, biodiversity and ecosystem services

Monday, August 11, 2014 | 3:30-5:00 PM

313, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/IGNITE.html>

Shawn L. Carter, US Geological Survey, Reston, VA

OOS 6-7

Coupling stress and fire to predict forest change

Monday, August 11, 2014: 3:40 PM

307, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper45896.html>

Ben Sleeter, USGS Western Geographic Science Center

OOS 6-8

Translating ecological drought into resource management: giant sequoias

Monday, August 11, 2014 | 4:00 PM

307, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper45898.html>

Nathan L. Stephenson, USGS Western Ecological Research Center

OOS 5-8

Embracing variability: environmental dependence and indirect effects in ecological restoration

Monday, August 11, 2014 | 4:00 PM

306, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper46703.html>

Kris Preston, USGS Western Ecological Research Center

OOS 6-9

History and vulnerability of meadows in the Sierra Nevada

Monday, August 11, 2014 | 4:20 PM

307, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper46292.html>

Matthew L. Brooks, USGS Western Ecological Research Center

J.R. Matchett, USGS Western Ecological Research Center

Steven M. Ostojka, USGS Western Ecological Research Center

Peggy Moore, USGS Western Ecological Research Center

COS 3-9

Coarse woody debris influences microbial processes and grasses in cold deserts

Monday, August 11, 2014 | 4:20 PM

308, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper48964.html>

Donald R. Schoolmaster Jr., Five Rivers Services/USGS National Wetlands Research Center

MONDAY – POSTERS

Table shows USGS **lead authors** only. Detailed list includes coauthored posters.

Poster	USGS Presenter	Time	Room
From Oceans to Mountains: Recent Findings from Phenology Data Curated By the USA National Phenology Network	Theresa M. Crimmins and Carolyn A.F. Enquist	4:30 – 6:30 PM	Exhibit Hall, Sacramento Convention Center
Findings from the USA National Phenology Network's Green Wave Campaign	Theresa M. Crimmins	4:30 – 6:30 PM	Exhibit Hall, Sacramento Convention Center
Fog as an ecosystem service: quantifying fog-mediated reductions in maximum temperature across coastal to inland transects in northern California	Alicia Torregrosa	4:30 – 6:30 PM	Exhibit Hall, Sacramento Convention Center

OPS 1

From Oceans to Mountains: Recent Findings from Phenology Data Curated By the USA National Phenology Network

Monday, August 11, 2014 | 4:30 – 6:30 PM

Exhibit Hall, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Session9749.html>

Theresa M. Crimmins, USA National Phenology Network (Session Organizer)

Carolyn A.F. Enquist, USA National Phenology Network (Session Organizer)

OPS 1-10

Findings from the USA National Phenology Network's Green Wave Campaign

Monday, August 11, 2014 | 4:30 – 6:30 PM

Exhibit Hall, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper46291.html>

Theresa M. Crimmins, USA National Phenology Network

Ellen G. Denny, USA National Phenology Network

Carolyn A.F. Enquist, USA National Phenology Network

Katharine L. Gerst, USA National Phenology Network

Erin E. Posthumus, USA National Phenology Network

Alyssa Rosemartin, USA National Phenological Network

Jake Weltzin, USA National Phenology Network/USGS

PS 3-31

Effects of experimental climate warming on seedling growth for three subalpine conifers along a forest to alpine tundra gradient

Monday, August 11, 2014 | 4:30 – 6:30 PM

Exhibit Hall, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper49564.html>

Matthew J. Germino, USGS Forest and Rangeland Ecosystem Science Center

Brynn Lazarus, USGS Forest and Rangeland Ecosystem Science Center

PS 7-61

Whole-plant evidence for mechanisms of drought-induced mortality of *Pinus flexilis* seedlings at their lower-elevation limit

Monday, August 11, 2014 | 4:30 – 6:30 PM

Exhibit Hall, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper49480.html>

Matthew J. Germino, USGS Forest and Rangeland Ecosystem Science Center

PS 13-100

Coupled simulation of land cover change and natural dynamics in Front Range Corridor, Colorado

Monday, August 11, 2014 | 4:30 – 6:30 PM

Exhibit Hall, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper47747.html>

Terry L. Sohl, USGS-EROS

Todd J. Hawbaker, USGS Geosciences and Environmental Change Science Center

PS 13-103

Fog as an ecosystem service: quantifying fog-mediated reductions in maximum temperature across coastal to inland transects in northern California

Monday, August 11, 2014 | 4:30 – 6:30 PM

Exhibit Hall

<http://eco.confex.com/eco/2014/webprogram/Paper49712.html>

Alicia Torregrosa, USGS Western Geographic Science Center

Lorraine Flint, USGS California Water Science Center

Alan Flint, USGS California Water Science Center

Jeff Peters, USGS Western Geographic Science Center

PS 5-45

Mapping potential microrefugia in rugged terrain

Monday, August 11, 2014 | 4:30 – 6:30 PM

Exhibit Hall, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper48185.html>

John R. Dingman, USGS California Water Science Center

Alan Flint, USGS California Water Science Center

Lorraine Flint, USGS California Water Science Center

PS 5-46

Hydrochemical and ecosystem responses of the Loch Vale Watershed, Colorado to climate change: A modeling approach using PnET-BGC

Monday, August 11, 2014 | 4:30 – 6:30 PM

Exhibit Hall, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper47854.html>

Jill Baron, USGS Fort Collins Science Center

MONDAY - AWARDS RECEPTION

ESA Awards Recipients' Reception (By ESA Invitation Only)

Monday, August 11, 2014 | 5:00 - 5:45 PM

Capitol View, Hyatt Regency Hotel

Congratulations to the following USGS researchers newly awarded the title of **Fellow of the Society** by the Ecological Society of America, honoring ESA members who are recognized by their peers for their distinguished contributions to the discipline:

James B. Grace, USGS National Wetlands Research Center

Stephen T. Jackson, Southwest Climate Science Center

Jon E. Keeley, USGS Western Ecological Research Center

TUESDAY – PRESENTATIONS

Table shows USGS **presenters** only. Detailed list includes coauthored talks.

Title	USGS Presenter	Time	Room
The (mis)match between theoretical concepts and statistical procedures: Mapping host developmental tempo axes using structural equation modeling	James P. Cronin	8:20 AM	<i>Regency Blrm B, Hyatt Regency Hotel</i>
The association of megafires and extreme droughts in California	Jon E. Keeley	9:40 AM	<i>Gardenia, Sheraton Hotel</i>
Does incorporating soil water dynamics improve our understanding of plant responses to climate change in the Desert Southwest?	Jennifer R. Gremer	9:50 AM	<i>308, Sacramento Convention Center</i>
Resource waves: phenological diversity in prey resources enhances the foraging opportunities of wide-ranging consumers	Jonathan B. Armstrong	9:50 AM	<i>Bataglieri, Sheraton Hotel</i>
Does incorporating soil water dynamics improve our understanding of plant responses to climate change in the Desert Southwest?	Jennifer R. Gremer	9:50 AM	<i>308, Sacramento Convention Center</i>
Restoring the aquatic biota in the upper Los Angeles River watershed	Adam Backlin	9:50 AM	<i>307, Sacramento Convention Center</i>
Landscape connectivity for medium and large mammals in the city of Los Angeles	Erin E. Boydston	10:10 AM	<i>307, Sacramento Convention Center</i>
Metadata: The language to describe your data	Viv Hutchison	10:00-11:30 AM	<i>313, Sacramento Convention Center</i>
Using tools to tell the story of your data	Viv Hutchison	10:00-11:30 AM	<i>313, Sacramento Convention Center</i>

Persistence of Columbia spotted frogs in the Great Basin: Quantifying habitat quality, connectivity, and climate suitability	Robert S. Arkle	10:30 AM	Regency Blrm A, Hyatt Regency Hotel
Dynamics in rainbow trout abundance and growth in an intermittently turbid river, Grand Canyon, AZ	Michael D. Yard	10:50 AM	Beavis, Sheraton Hotel
Breaking from the Center: Increasing Resilience to Climate Change and Extreme Events from the Sierra Nevada to the Atlantic Ocean	Toni Lyn Morelli	1:30 PM-5:00 PM	203, Sacramento Convention Center
A test of climate change refugia in the mountains of California	Toni Lyn Morelli	1:30 PM	203, Sacramento Convention Center
Shifting variance structure as an indicator of large-scale ecological change	Brian Irwin	2:50 PM	203, Sacramento Convention Center
Influence of wildfire and post-fire seeding treatments on vegetation and insects in sagebrush-steppe habitats	Ashley T. Rohde	2:50 PM	Regency Blrm B, Hyatt Regency Hotel
A structured decision framework to identify shared opportunities for decision making among multiple resource management agencies	Evan H. Campbell Grant	3:20 PM	203, Sacramento Convention Center
Responding to sea level rise and extreme events through climate change adaptation strategies: A case study using the network of Atlantic National Wildlife Refuges	Mary J. Ratnaswamy <i>(Late cancellation; presentation will be led by Raye Nilius, U.S. Fish and Wildlife Service)</i>	4:40 PM	203, Sacramento Convention Center

COS 21-1

Climate change perils for dioecious plant species

Tuesday, August 12, 2014 | 8:00 AM

308, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper48321.html>

Troy Wood, USGS Colorado Plateau Research Station, U.S. Geological Survey

COS 34-1

Mapping the distribution of invasive *Prosopis juliflora* in Ethiopia using MODIS and climate predictors

Tuesday, August 12, 2014 | 8:00 AM

314, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper46489.html>

Catherine S. Jarnevich, Fort Collins Science Center

COS 25-2

The (mis)match between theoretical concepts and statistical procedures: Mapping host developmental tempo axes using structural equation modeling

Tuesday, August 12, 2014 | 8:20 AM

Regency Blrm B, Hyatt Regency Hotel

<http://eco.confex.com/eco/2014/webprogram/Paper49301.html>

James P. Cronin, USGS National Wetland Research Center

COS 24-3

Long-term ecological changes at the edge of the Mara-Serengeti ecosystem

Tuesday, August 12, 2014 | 8:40 AM

Regency Blrm A, Hyatt Regency Hotel

<http://eco.confex.com/eco/2014/webprogram/Paper47117.html>

Erin E. Boydston, USGS Western Ecological Research Center

COS 35-3

Trophically transmitted parasites in size-structured predator-prey systems

Tuesday, August 12, 2014 | 8:40 AM

315, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper48268.html>

Kevin D. Lafferty, USGS Western Ecological Research Center

SYMP 5-4

The association of megafires and extreme droughts in California

Tuesday, August 12, 2014 | 9:40 AM

Gardenia, Sheraton Hotel

<http://eco.confex.com/eco/2014/webprogram/Paper45575.html>

Jon E. Keeley, USGS Western Ecological Research Center

COS 21-6

Does incorporating soil water dynamics improve our understanding of plant responses to climate change in the Desert Southwest?

Tuesday, August 12, 2014 | 9:50 AM

308, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper48890.html>

Jennifer R. Gremer, USGS Southwest Biological Science Center

Seth M. Munson, USGS Southwest Biological Science Center

Michael C. Duniway, USGS, Moab, UT

John B. Bradford, USGS Southwest Biological Science Center

COS 32-6

Resource waves: phenological diversity in prey resources enhances the foraging opportunities of wide-ranging consumers

Tuesday, August 12, 2014 | 9:50 AM

Bataglieri, Sheraton Hotel

<http://eco.confex.com/eco/2014/webprogram/Paper48902.html>

Jonathan B. Armstrong, USGS Wyoming Cooperative Fish and Wildlife Research Unit

Matthew J. Kauffman, USGS Wyoming Cooperative Fish and Wildlife Research Unit

COS 34-6

Satellite-based mapping of vegetation and landscape dynamics on Alaska's Seward Peninsula during 1986-2012

Tuesday, August 12, 2014 | 9:50 AM

314, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper49349.html>

Lance Mcnew, USGS Alaska Science Center

Benjamin Jones, USGS Alaska Science Center

COS 20-6

Biogeochemical signals in the outflow of glaciers and rock glaciers in the American West

Tuesday, August 12, 2014 | 9:50 AM

302/303, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper49525.html>

Jill Baron, USGS Fort Collins Science Center

Ed K. Hall, USGS Fort Collins Science Center

Claudia M. Boot, USGS Fort Collins Science Center

COS 21-6

Does incorporating soil water dynamics improve our understanding of plant responses to climate change in the Desert Southwest?

Tuesday, August 12, 2014 | 9:50 AM

308, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper48890.html>

Jennifer R. Gremer, USGS Southwest Biological Science Center

Seth M. Munson, USGS Southwest Biological Science Center

Michael C. Duniway, USGS, Moab, UT

John B. Bradford, USGS Southwest Biological Science Center

OOS 12-6

Restoring the aquatic biota in the upper Los Angeles River watershed

Tuesday, August 12, 2014 | 9:50 AM

307, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper45834.html>

Adam Backlin, USGS Western Ecological Research Center

Elizabeth A. Gallegos, USGS Western Ecological Research Center

Robert N. Fisher, USGS Western Ecological Research Center

OOS 12-7

Landscape connectivity for medium and large mammals in the city of Los Angeles

Tuesday, August 12, 2014 | 10:10 AM

307, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper45873.html>

Erin E. Boydston, USGS Western Ecological Research Center

IGN 4-5

Metadata: The language to describe your data

Tuesday, August 12, 2014 | 10:00-11:30 AM

313, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper46083.html>

Viv Hutchison, USGS Center for Biological Informatics

IGN 3-6

Using tools to tell the story of your data

Tuesday, August 12, 2014 | 10:00-11:30 AM

313, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper46064.html>

Viv Hutchison, USGS Center for Biological Informatics

COS 24-8

Persistence of Columbia spotted frogs in the Great Basin: Quantifying habitat quality, connectivity, and climate suitability

Tuesday, August 12, 2014 | 10:30 AM

Regency Blrm A, Hyatt Regency Hotel

<http://eco.confex.com/eco/2014/webprogram/Paper49690.html>

Robert S. Arkle, USGS Forest & Rangeland Ecosystem Science Center
David S. Pilliod, USGS Forest & Rangeland Ecosystem Science Center

COS 32-8

Senescence of arctic plants under conditions of altered seasonality

Tuesday, August 12, 2014 | 10:30 AM

Bataglieri, Sheraton Hotel

<http://eco.confex.com/eco/2014/webprogram/Paper49095.html>

Anthony Darrouzet-Nardi, USGS, Moab, UT

COS 24-9

Evaluating three decades of change in San Francisco Bay's waterbirds: An assessment of population abundance and community composition

Tuesday, August 12, 2014 | 10:50 AM

Regency Blrm A, Hyatt Regency Hotel

<http://eco.confex.com/eco/2014/webprogram/Paper49037.html>

John Takekawa, USGS Western Ecological Research Center

COS 32-9

Cross-scale perspectives on patterns and environmental cues driving plant phenology in an arid upland grassland

Tuesday, August 12, 2014 | 10:50 AM

Bataglieri, Sheraton Hotel

<http://eco.confex.com/eco/2014/webprogram/Paper49416.html>

Michael C. Duniway, USGS, Moab, UT

COS 18-9

Dynamics in rainbow trout abundance and growth in an intermittently turbid river, Grand Canyon, AZ

Tuesday, August 12, 2014: 10:50 AM

Beavis, Sheraton Hotel

<http://eco.confex.com/eco/2014/webprogram/Paper49443.html>

Michael D. Yard, USGS Grand Canyon Monitoring and Research Center
Theodore A. Kennedy, USGS Grand Canyon Monitoring and Research Center
Charles B. Yackulic, USGS Grand Canyon Monitoring and Research Center
Scott P. VanderKooi, USGS Grand Canyon Monitoring and Research Center

COS 21-10

Forest stand structure, productivity, and age mediate climatic effects on aspen decline

Tuesday, August 12, 2014 | 11:10 AM

308, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper49110.html>

John B. Bradford, USGS Southwest Biological Science Center

OOS 14

Breaking from the Center: Increasing Resilience to Climate Change and Extreme Events from the Sierra Nevada to the Atlantic Ocean

Tuesday, August 12, 2014 | 1:30 PM-5:00 PM

203, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Session9711.html>

Toni Lyn Morelli, Northeast Climate Science Center (SESSION ORGANIZER)

OOS 14-1

A test of climate change refugia in the mountains of California

Tuesday, August 12, 2014 | 1:30 PM

203, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Session9711.html>

Toni Lyn Morelli, Northeast Climate Science Center

COS 36-2

Metamorphosis enhances the effects of metal exposure on the mayfly, *Centroptilum triangulifer*

Tuesday, August 12, 2014 | 1:50 PM

301, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper47088.html>

Johanna M. Kraus, USGS Fort Collins Science Center

Travis S. Schmidt, USGS Fort Collins Science Center

David M. Walters, USGS Fort Collins Science Center

OOS 14-5

Shifting variance structure as an indicator of large-scale ecological change

Tuesday, August 12, 2014 | 2:50 PM

203, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper45670.html>

Brian Irwin, USGS Georgia Cooperative Fish & Wildlife Research Unit

Tyler Wagner, USGS Pennsylvania Cooperative Fish & Wildlife Research Unit

OOS 14-4

ARkStorm@Tahoe: Addressing social and ecological resilience to extreme winter storm events in the Sierra Nevada

Tuesday, August 12, 2014 | 2:30 PM

203, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper46510.html>

Michael Dettinger, USGS, La Jolla, CA

Dale A. Cox, USGS, Sacramento, CA

COS 36-5

Channel geomorphology and riparian vegetation development following dam construction on the Bill Williams River, AZ, USA

Tuesday, August 12, 2014 | 2:50 PM

301, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper48840.html>

Patrick B. Shafroth, USGS Fort Collins Science Center

COS 41-5

Influence of wildfire and post-fire seeding treatments on vegetation and insects in sagebrush-steppe habitats

Tuesday, August 12, 2014 | 2:50 PM

Regency Blrm B, Hyatt Regency Hotel

<http://eco.confex.com/eco/2014/webprogram/Paper49069.html>

Ashley T. Rohde, USGS Survey Forest and Rangeland Ecosystem Science Center

David S. Pilliod, USGS Forest & Rangeland Ecosystem Science Center

COS 51-5

Biocrust mosses from diverse localities exhibit plastic response to watering and may be successfully cultivated ex situ

Tuesday, August 12, 2014 | 2:50 PM

315, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper49661.html>

Troy Wood, USGS Colorado Plateau Research Station

OOS 14-6

A structured decision framework to identify shared opportunities for decision making among multiple resource management agencies

Tuesday, August 12, 2014 | 3:20 PM

203, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper45666.html>

Evan H. Campbell Grant, USGS Patuxent Wildlife Research Center

Michael Runge, USGS Patuxent Wildlife Research Center

Rachel Katz, Massachusetts Cooperative Fish and Wildlife Research Unit

Benjamin H. Letcher, USGS Patuxent Wildlife Research Center

Allison Roy, University of Massachusetts Amherst, USGS Cooperative Research Unit

COS 37-7

A national synthesis of atmospheric nitrogen deposition relationships with herbaceous plant diversity

Tuesday, August 12, 2014 | 3:40 PM

302/303, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper49707.html>

Jayne Belnap, USGS Southwest Biological Science Center

Matthew L. Brooks, USGS Western Ecological Research Center

USGS Powell Center Working Group on Diversity and N Deposition

OOS 16-8

Next generation of warming experiments in tropical forests

Tuesday, August 12, 2014: 4:00 PM

304/305, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper45618.html>

Sasha C. Reed, USG Southwest Biological Science Center

COS 39-9

Ecological novelty in space and time: Pattern, process and the drivers of late-glacial no-analog plant associations

Tuesday, August 12, 2014 | 4:20 PM

311/312, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper49101.html>

Stephen T. Jackson, Southwest Climate Science Center

OOS 14-10

Responding to sea level rise and extreme events through climate change adaptation strategies: A case study using the network of Atlantic National Wildlife Refuges

Tuesday, August 12, 2014 | 4:40 PM

203, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper45674.html>

Mary J. Ratnaswamy, Northeast Climate Science Center

Michelle D. Staudinger, Northeast Climate Science Center

Gerard McMahon, Southeast Climate Science Center

Fred Johnson, USGS Southeast Ecological Science Center

Addie R. Holland, Northeast Climate Science Center

Mitchell J. Eaton, Southeast Climate Science Center

TUESDAY – POSTERS

Table shows USGS **lead authors** only. Detailed list includes coauthored posters.

Title	USGS Presenter	Time	Room
Ocean Biogeographic Information System-USA: A data-centric view of our oceans	Alexa McKerrow	4:30 – 6:30 PM	Exhibit Hall, Sacramento Convention Center
Domestic grazing on saline soils: Run-off, erosion, and implications for Colorado River water quality	Michael C. Duniway	4:30 – 6:30 PM	Exhibit Hall, Sacramento Convention Center
Restoration of Greater Sage-Grouse habitat: A framework for landscape and site-specific decisions	David A. Pyke	4:30 – 6:30 PM	Exhibit Hall, Sacramento Convention Center

OPS 2-1

Modeling long-term continuous stream metabolism across the continent: NEON opportunities and approaches

Tuesday, August 12, 2014 | 4:30 – 6:30 PM

Exhibit Hall, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper45298.html>

Jerard Bales , United States Geological Survey

OPS 2-16

Using Essential Biodiversity Variables (EBVs) as a framework for coordination across research and monitoring networks: A case study with phenology

Tuesday, August 12, 2014 | 4:30 – 6:30 PM

Exhibit Hall, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper45426.html>

Carolyn A.F. Enquist, USA National Phenology Network

Alyssa Rosemartin, USA National Phenology Network

Jake Weltzin, USA National Phenology Network/USGS

Jesslyn F. Brown, USGS, Sioux Falls, SD

PS 20-30

Optimizing spatial monitoring for rare plants: An example from the California Channel Islands

Tuesday, August 12, 2014 | 4:30 – 6:30 PM

Exhibit Hall, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper48494.html>

Kathryn McEachern, USGS Western Ecological Research Center

PS 21-35

A spatial analysis of biophysical watershed characteristics affecting stream response to land-use changes in Maine, U.S.A.

Tuesday, August 12, 2014 | 4:30 – 6:30 PM

Exhibit Hall, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper49330.html>

Cynthia S. Loftin USGS Maine Cooperative Fish and Wildlife Research Unit

PS 22-50

Ocean Biogeographic Information System-USA: A data-centric view of our oceans

Tuesday, August 12, 2014 | 4:30 – 6:30 PM

Exhibit Hall, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper47375.html>

Abigail L. Benson, USGS Core Science Systems

Mark Fornwall, USGS Core Science Systems

Alexa McKerrow, USGS Core Science Systems

PS 24-63

Imazapic increases resistance to annual grass invasions after fuels reduction treatments in arid Wyoming big sage sites

Tuesday, August 12, 2014 | 4:30 – 6:30 PM

Exhibit Hall, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper46620.html>

David A. Pyke, USGS Forest & Rangeland Ecosystem Science Center

Scott E. Shaff, U.S. Geological Survey, Corvallis, OR

PS 24-68

Domestic grazing on saline soils: Run-off, erosion, and implications for Colorado River water quality

Tuesday, August 12, 2014 | 4:30 – 6:30 PM

Exhibit Hall, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper49316.html>

Michael C. Duniway, USGS, Moab, UT

Jayne Belnap, USGS Southwest Biological Science Center

PS 27-119

Restoration of Greater Sage-Grouse habitat: A framework for landscape and site-specific decisions

Tuesday, August 12, 2014 | 4:30 – 6:30 PM

Exhibit Hall, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper48113.html>

David A. Pyke, USGS Forest & Rangeland Ecosystem Science Center

Steven T. Knick, USGS Forest & Rangeland Science Center

WEDNESDAY – PRESENTATIONS

Table shows USGS **presenters** only. Detailed list includes coauthored talks.

Title	USGS Presenter	Time	Room
Preparing for climate change in northern Great Plains national parks: Lessons learned from various approaches	Amy J. Symstad	8:40 AM	306, Sacramento Convention Center
Insect outbreak and resource pulses in understory plants and soil	Stephanie G. Yelenik,	1:30 PM	302/303, Sacramento Convention Center
Macroclimatic controls on tidal wetland ecosystems: Variation in foundation plant community zonation across abiotic gradients in three northern Gulf of Mexico estuaries	Christopher A. Gabler	2:10 PM	309/310, Sacramento Convention Center
Potential effects of wind energy development on the spatial population dynamics of the Indiana bat	Richard A. Erickson	2:10 PM	Regency Blrm F, Hyatt Regency Hotel
Model averaging and muddled multimodel inferences	Brian S. Cade	2:10 PM	Beavis, Sheraton Hotel
Recruiting and retaining an army of observers: Innovative approaches to understanding ecological responses to environmental change	Jake F. Weltzin	2:30 PM	304/305, Sacramento Convention Center
Prioritization of avian species impacted by wind energy development	Julie A. Beston	3:40 PM	Regency Blrm F, Hyatt Regency Hotel
Triggers, thresholds, disturbance regime shifts, and state changes in forest ecosystems with climate warming	Craig D. Allen	3:40 PM	203, Sacramento Convention Center

COS 69-2

Grass-shrub spatial pattern response to a moisture gradient in Great Basin sagebrush communities

Wednesday, August 13, 2014 | 8:20 AM

314, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper46487.html>

David A. Pyke, USGS Forest & Rangeland Ecosystem Science Center

OOS 24-3

Preparing for climate change in northern Great Plains national parks: Lessons learned from various approaches

Wednesday, August 13, 2014 | 8:40 AM

306, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper45825.html>

Amy J. Symstad, USGS Northern Prairie Wildlife Research Center

COS 55-5

Soil microbial enzyme responses to changes in temperature and nutrient additions across Hawaiian gradients in mineralogy and nutrient availability

Wednesday, August 13, 2014 | 9:20 AM

302/303, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper48313.html>

Sasha C. Reed, USGS Southwest Biological Science Center

COS 60-7

Using current salt marsh bird distributions to project vulnerability to sea level rise

Wednesday, August 13, 2014 | 10:10 AM

Regency Blrm B, Hyatt Regency Hotel

<http://eco.confex.com/eco/2014/webprogram/Paper48907.html>

Clinton T. Moore, USGS Patuxent Wildlife Research Center, Athens, GA

COS 61-7

Linking aggregation patterns to pathogen seroprevalence: Are there multiple ways to be dense and spread disease?

Wednesday, August 13, 2014: 10:10 AM

Regency Blrm C, Hyatt Regency Hotel

<http://eco.confex.com/eco/2014/webprogram/Paper49160.html>

Paul Chafee Cross, USGS Northern Rocky Mountain Science Center

COS 71-10

Greenhouse gas emissions and carbon sequestration potential in restored freshwater marshes in the Sacramento San-Joaquin Delta, California

Wednesday, August 13, 2014 | 11:10 AM

Beavis, Sheraton Hotel

<http://eco.confex.com/eco/2014/webprogram/Paper49398.html>

Frank Anderson, USGS California Water Science Center

COS 73-1

Insect outbreak and resource pulses in understory plants and soil

Wednesday, August 13, 2014 | 1:30 PM

302/303, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper47090.html>

Stephanie G. Yelenik, USGS Pacific Island Ecosystems Research

Paul C. Banko, USGS Pacific Island Ecosystems Research Center

Daniel McCamish, USGS Pacific Island Ecosystems Research Center

Linda W. Pratt, USGS Pacific Island Ecosystems Research Center

COS 88-1

Non-linear mixed model analysis of photosynthetic-light response of sugar maple to calcium and nitrogen addition in the Catskills Mountains, NY

Wednesday, August 13, 2014 | 1:30 PM

Beavis, Sheraton Hotel

<http://eco.confex.com/eco/2014/webprogram/Paper48348.html>

Gregory B. Lawrence, USGS New York Water Science Center

COS 75-2

The relationship between recent climate, biogeography, and phenology of trembling aspen (*Populus tremuloides* Michx.) communities of the Rocky Mountain region

Wednesday, August 13, 2014 | 1:50 PM

311/312, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper48879.html>

Gretchen A. Meier, Ecology, USGS, Sioux Falls, SD

Jesslyn F. Brown, Geography, USGS, Sioux Falls, SD

James P. Vogelmann, Geography, USGS, Sioux Falls, SD

Birgit Peterson, Geography, USGS, Sioux Falls, SD

COS 74-3

Macroclimatic controls on tidal wetland ecosystems: Variation in foundation plant community zonation across abiotic gradients in three northern Gulf of Mexico estuaries

Wednesday, August 13, 2014 | 2:10 PM

309/310, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper48723.html>

Christopher A. Gabler, Gabler Groundwork/USGS National Wetlands Research Center

Michael J. Osland, USGS National Wetlands Research Center

James B. Grace, USGS National Wetlands Research Center

Camille L. Stagg, USGS National Wetlands Research Center

Richard H. Day, USGS National Wetlands Research Center

Stephen B. Hartley, USGS National Wetlands Research Center

Nicholas Enwright, USGS National Wetlands Research Center

Andrew S. From, Five Rivers Services, LLC/USGS National Wetlands Research Center

COS 81-3

Potential effects of wind energy development on the spatial population dynamics of the Indiana bat

Wednesday, August 13, 2014 | 2:10 PM

Regency Blrm F, Hyatt Regency Hotel

<http://eco.confex.com/eco/2014/webprogram/Paper47503.html>

Richard A. Erickson, USGS Upper Midwest Environmental Sciences Center

Wayne E. Thogmartin, Upper Midwest Environmental Sciences Center

Robin E. Russell, USGS National Wildlife Health Center

Jay E. Diffendorfer, USGS Rocky Mountain Geographic Science Center

COS 88-3

Model averaging and muddled multimodel inferences

Wednesday, August 13, 2014 | 2:10 PM

Beavis, Sheraton Hotel

<http://eco.confex.com/eco/2014/webprogram/Paper47725.html>

Brian S. Cade, USGS Fort Collins Science Center

OOS 29-4

Recruiting and retaining an army of observers: Innovative approaches to understanding ecological responses to environmental change

Wednesday, August 13, 2014 | 2:30 PM

304/305, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper45732.html>

Jake F. Weltzin, USA National Phenology Network/USGS

Theresa M. Crimmins, USA National Phenology Network

Alyssa Rosemartin, USA National Phenology Network

COS 77-4

A bird's eye view of western juniper management: Assessing multi-objective policies for sage-grouse habitat conservation and rangeland productivity

Wednesday, August 13, 2014 | 2:30 PM

Regency Blrm B, Hyatt Regency Hotel

<http://eco.confex.com/eco/2014/webprogram/Paper47283.html>

Peter S. Coates, USGS Western Ecological Research Center

COS 76-5

Understanding neighborhood effects on growth and competition in a temperate forest

Wednesday, August 13, 2014 | 2:50 PM

Regency Blrm A, Hyatt Regency Hotel

<http://eco.confex.com/eco/2014/webprogram/Paper48163.html>

Adrian Das, USGS Western Ecological Research Center

COS 88-5

Exploring changes to the northern San Francisco Estuary phytoplankton community by probing a 40-year monthly monitoring record

Wednesday, August 13, 2014 | 2:50 PM

Beavis, Sheraton Hotel

<http://eco.confex.com/eco/2014/webprogram/Paper49395.html>

James E. Cloern, USGS, Menlo Park, CA

COS 81-7

Prioritization of avian species impacted by wind energy development

Wednesday, August 13, 2014 | 3:40 PM

Regency Blrm F, Hyatt Regency Hotel

<http://eco.confex.com/eco/2014/webprogram/Paper49936.html>

Julie A. Beston, USGS, Denver, CO

Jay E. Diffendorfer, USGS, Denver, CO

COS 82-7

Influence of inflows into and exports from the Sacramento-San Joaquin Delta on survival and migration routes of Chinook salmon smolts

Wednesday, August 13, 2014 | 3:40 PM

Golden State, Hyatt Regency Hotel

<http://eco.confex.com/eco/2014/webprogram/Paper49878.html>

Russell Perry, USGS Western Fisheries Research Center

OOS 27-7

Triggers, thresholds, disturbance regime shifts, and state changes in forest ecosystems with climate warming

Wednesday, August 13, 2014 | 3:40 PM

203, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper45288.html>

Craig D. Allen, USGS, Los Alamos, NM

WEDNESDAY – POSTERS

OPS 3-5

History of the United States National Vegetation Classification System

Wednesday, August 13, 2014 | 4:30 – 6:30 PM

Exhibit Hall, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper45453.html>

Alexa McKerrow, USGS Core Science Systems

PS 30-14

Initial riparian vegetation response following dam removal on the Elwha River, Washington

Wednesday, August 13, 2014 | 4:30 – 6:30 PM

Exhibit Hall, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper49838.html>

Patrick B. Shafroth, USGS Fort Collins Science Center

THURSDAY – PRESENTATIONS

Table shows USGS **presenters** only. Detailed list includes coauthored talks.

Title	USGS Presenter	Time	Room
Tolerance of the invasive apple snail <i>Pomacea maculata</i> to low temperatures	Jacoby Carter	8:20 AM	309/310, Sacramento Convention Center
Temperate forest patterns, gradients in ¹⁵ N/ ¹⁴ N, and N fixation effects	Steven S. Perakis	8:40 AM	203, Sacramento Convention Center
Tree species effects on belowground biogeochemistry in diverse tropical rain forests	Sasha C. Reed,	10:10 AM	204, Sacramento Convention Center
Assessing the fate of N deposition on the Colorado Plateau	Carla M. Roybal,	10:10 AM	302/303, Sacramento Convention Center
Spatial and temporal patterns in occupancy and density of the pathogenic amphibian fungus, <i>Batrachochytrium dendrobatidis</i> , in waters of North America	Tara Chestnut	10:30 AM	301, Sacramento Convention Center
Current and projected distributions of <i>Tamarix</i> in North America	Catherine Jarnevitch	1:30 PM	203, Sacramento Convention Center
Spatial and temporal variation in vital rates of an endangered fish in a desert stream	Maria C. Dzul	2:10 PM	314, Sacramento Convention Center
Resistance and resilience of a grassland ecosystem to varying drought intensities and durations	David L. Hoover	2:30 PM	Gardenia, Sheraton Hotel
Evidence that reciprocal interactions between productivity and richness operate in natural grasslands	James B. Grace	3:20 PM	Regency Blrm D, Hyatt Regency Hotel

Threshold responses to cold and drought in tree seedlings vary among species at and above alpine treeline, but can they help explain establishment patterns?	Brynne Lazarus	4:00 PM	301, Sacramento Convention Center
Introduced <i>Rangifer</i> alter above and belowground ecosystem processes in maritime-tundra on sub-arctic islands	Mark A. Ricca	4:20 PM	301, Sacramento Convention Center

COS 99-1

Pikas under fire: Responses to disturbance

Thursday, August 14, 2014 | 8:00 AM

Regency Blrm F, Hyatt Regency Hotel

<http://eco.confex.com/eco/2014/webprogram/Paper46888.html>

Erik A. Beever, USGS Northern Rocky Mountains Science Center

COS 92-2

Tolerance of the invasive apple snail *Pomacea maculata* to low temperatures

Thursday, August 14, 2014 | 8:20 AM

309/310, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper49670.html>

Jacoby Carter, USGS National Wetlands Research Center

OOS 34-3

Temperate forest patterns, gradients in $^{15}\text{N}/^{14}\text{N}$, and N fixation effects

Thursday, August 14, 2014 | 8:40 AM

203, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper45343.html>

Steven S. Perakis, USGS Forest and Rangeland Ecosystem Science Center

COS 104-6

Shifting patterns of nest density and predation risk: A spatial analysis of 15 years of duck nesting data from California

Thursday, August 14, 2014 | 9:50 AM

315, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper48102.html>

Joshua T. Ackerman, USGS Western Ecological Research Center

OOS 35-7

Tree species effects on belowground biogeochemistry in diverse tropical rain forests

Thursday, August 14, 2014 | 10:10 AM

204, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper45440.html>

Sasha C. Reed, USGS Southwest Biological Science Center, U.S. Geological Survey, Moab, UT

COS 91-7

Assessing the fate of N deposition on the Colorado Plateau

Thursday, August 14, 2014 | 10:10 AM

302/303, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper49120.html>

Carla M. Roybal, USGS Southwest Biological Science Center

Sasha C. Reed, USGS Southwest Biological Science Center

Jayne Belnap, USGS Southwest Biological Science Center

COS 94-8

Linked decisions and uncertainty in ex-situ conservation planning

Thursday, August 14, 2014 | 10:30 AM

Regency Blrm A, Hyatt Regency Hotel

<http://eco.confex.com/eco/2014/webprogram/Paper49943.html>

Sarah J. Converse, USGS Patuxent Wildlife Research Center

COS 90-8

Spatial and temporal patterns in occupancy and density of the pathogenic amphibian fungus, *Batrachochytrium dendrobatidis*, in waters of North America

Thursday, August 14, 2014 | 10:30 AM

301, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper49556.html>

Tara Chestnut, USGS Oregon Water Science Center

Chauncey W. Anderson, USGS Oregon Water Science Center

Julie D. Kirshtein, USGS National Research Program

OOS 41-1

Current and projected distributions of *Tamarix* in North America

Thursday, August 14, 2014 | 1:30 PM

203, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper45746.html>

Catherine Jarnevitch, USGS Fort Collins Science Center

COS 108-3**Hydrologic controls on stream microbial mat abundance over two decades in the McMurdo Dry Valleys, Antarctica**

Thursday, August 14, 2014 | 2:10 PM

301, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper48014.html>

Joshua C. Koch, USGS Alaska Science Center

COS 110-3**Size-based dominance and resource use in an inland American alligator population**

Thursday, August 14, 2014 | 2:10 PM

309/310, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper48458.html>

Francisco J. Vilella, USGS Mississippi Cooperative Fish & Wildlife Research Unit

COS 121-3**Spatial and temporal variation in vital rates of an endangered fish in a desert stream**

Thursday, August 14, 2014 | 2:10 PM

314, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper48000.html>

Maria C. Dzul, USGS Grand Canyon Monitoring and Research Center

Charles B. Yackulic, Grand Canyon Monitoring and Research Center

SYMP 20-3**Resistance and resilience of a grassland ecosystem to varying drought intensities and durations**

Thursday, August 14, 2014 | 2:30 PM

Gardenia, Sheraton Hotel

<http://eco.confex.com/eco/2014/webprogram/Paper45545.html>

David L. Hoover, USGS, Moab, UT

COS 109-4**Post-fire recovery of biological soil crusts in the Great Basin: Cornerstone increased site resistance**

Thursday, August 14, 2014 | 2:30 PM

302/303, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper48903.html>

David A. Pyke, USGS Forest & Rangeland Ecosystem Science Center

COS 115-6

Evidence that reciprocal interactions between productivity and richness operate in natural grasslands

Thursday, August 14, 2014 | 3:20 PM

Regency Blrm D, Hyatt Regency Hotel

<http://eco.confex.com/eco/2014/webprogram/Paper47364.html>

James B. Grace, USGS National Wetlands Research Center

COS 116-7

Examining the ecosystem-level consequences of local adaptation in Trinidadian guppies across natural levels of environmental heterogeneity in montane streams of northern Trinidad

Thursday, August 14, 2014 | 3:40 PM

Regency Blrm E, Hyatt Regency Hotel

<http://eco.confex.com/eco/2014/webprogram/Paper49989.html>

Mary Freeman, U. S. Geological Survey

COS 108-8

Threshold responses to cold and drought in tree seedlings vary among species at and above alpine treeline, but can they help explain establishment patterns?

Thursday, August 14, 2014 | 4:00 PM

301, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper49607.html>

Brynne Lazarus, USGS Forest and Rangeland Ecosystem Science Center

Matthew J. Germino, USGS Forest and Rangeland Ecosystem Science Center

COS 108-9

Introduced *Rangifer* alter above and belowground ecosystem processes in maritime-tundra on sub-arctic islands

Thursday, August 14, 2014 | 4:20 PM

301, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper49826.html>

Mark A. Ricca, USGS Western Ecological Research Center

A. Keith Miles, USGS Western Ecological Research Center

COS 109-9

Local extinction, unintentional rewilding, and the historical biogeography of islands in the Gulf of California

Thursday, August 14, 2014 | 4:20 PM

302/303, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper48642.html>

Julio L. Betancourt, USGS National Research Program

OOS 41-10

***Tamarix* invasion and fire in desert riparian ecosystems**

Thursday, August 14, 2014 | 4:40 PM

203, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper50019.html>

Matthew L. Brooks, USGS Western Ecological Research Center

J.R. Matchett, USGS Western Ecological Research Center

COS 121-10

Forecasting climate change impacts on plant population dynamics at large spatial extents:

A test case with sagebrush (*Artemisia*) species

Thursday, August 14, 2014 | 4:40 PM

314, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper49726.html>

Cameron L. Aldridge, USGS Fort Collins Science Center

Collin G. Homer, USGS-EROS

THURSDAY – POSTERS

Table shows USGS **lead authors** only. Detailed list includes coauthored posters.

Title	USGS Presenter	Time	Room
Field-based autochamber measurements of soil net CO ₂ exchange in experimentally warmed biological soil crusts	Anthony Darrouzet-Nardi	4:30-6:30 PM	Exhibit Hall, Sacramento Convention Center
Does species richness drive community production or vice versa? A causal analysis	Donald R. Schoolmaster Jr.	4:30-6:30 PM	Exhibit Hall, Sacramento Convention Center
Adaptation to freezing-induced photoinhibition in blackbrush along the warm/cold desert boundary, from the Mojave to Colorado Plateau	Matthew J. Germino	4:30-6:30 PM	Exhibit Hall, Sacramento Convention Center

PS 49-53

Field-based autochamber measurements of soil net CO₂ exchange in experimentally warmed biological soil crusts

Thursday, August 14, 2014 | 4:30-6:30 PM

Exhibit Hall, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper49248.html>

Anthony Darrouzet-Nardi, USGS Canyonlands Research Station

Sasha C. Reed, Southwest Biological Science Center

Edmund E. Grote, USGS, Moab, UT

Jayne Belnap, USGS Southwest Biological Science Center

PS 56-105

Does species richness drive community production or vice versa? A causal analysis

Thursday, August 14, 2014 | 4:30-6:30 PM

Exhibit Hall, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper49209.html>

Donald R. Schoolmaster Jr., Five Rivers Services/USGS National Wetlands Research Center

James B. Grace, USGS National Wetlands Research Center

PS 57-116

Adaptation to freezing-induced photoinhibition in blackbrush along the warm/cold desert boundary, from the Mojave to Colorado Plateau

Thursday, August 14, 2014 | 4:30-6:30 PM

Exhibit Hall, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper48035.html>

Matthew J. Germino, USGS Forest and Rangeland Ecosystem Science Center

Brynne Lazarus, USGS Forest and Rangeland Ecosystem Science Center

PS 57-118

Big sagebrush in a changing climate context: The effects of genotype and climate variability on success of sagebrush seedlings

Thursday, August 14, 2014 | 4:30-6:30 PM

Exhibit Hall, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper48376.html>

Matthew J. Germino, USGS Forest and Rangeland Ecosystem Science Center

Jessica Vander Veen, USGS Forest and Rangeland Ecosystem Science Center

Brynne Lazarus, USGS Forest and Rangeland Ecosystem Science Center

FRIDAY – PRESENTATIONS

Table shows USGS **presenters** only. Detailed list includes coauthored talks.

Title	USGS Presenter	Time	Room
Biodiversity Information Serving Our Nation (BISON): Mapping species occurrence data with ITIS-enabled search	Annie Simpson	8:40 AM	Regency Blrm A, Hyatt Regency Hotel
A novel approach to mapping and quantifying age classes of forest habitat to support avian habitat management in the upper Great Lakes	Brian G. Tavernia	10:30 AM	317, Sacramento Convention Center
Dryland responses to climate change: Assessing the biogeochemical consequences of <i>Syntrichea caninervis</i> mortality resulting from altered precipitation regimes	Kristina Young	10:30 AM	302/303, Sacramento Convention Center

COS 142-2

Spatial and temporal characteristics of recent bark beetle outbreaks and wildfire in the forests of the western United States

Friday, August 15, 2014 | 8:20 AM

317, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper47436.html>

Craig D. Allen, USGS Jemez Mountains Field Station

COS 131-3

Biodiversity Information Serving Our Nation (BISON): Mapping species occurrence data with ITIS-enabled search

Friday, August 15, 2014 | 8:40 AM

Regency Blrm A, Hyatt Regency Hotel

<http://eco.confex.com/eco/2014/webprogram/Paper47507.html>

Annie Simpson, USGS Core Science Analytics, Synthesis, & Libraries (CSASL)

Elizabeth Sellers, USGS Core Science Analytics, Synthesis, & Libraries (CSASL)

Elizabeth Martin, USGS Core Science Analytics, Synthesis, & Libraries (CSASL)

COS 142-8

A novel approach to mapping and quantifying age classes of forest habitat to support avian habitat management in the upper Great Lakes

Friday, August 15, 2014 | 10:30 AM

317, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper49454.html>

Brian G. Tavernia, USGS Patuxent Wildlife Research Center

COS 127-8

Dryland responses to climate change: Assessing the biogeochemical consequences of *Syntrichea caninervis* mortality resulting from altered precipitation regimes

Friday, August 15, 2014: 10:30 AM

302/303, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper49112.html>

Kristina Young, USGS Southwest Biological Science Center

Jayne Belnap, USGS Southwest Biological Science Center

Sasha C. Reed, USGS Southwest Biological Science Center

FRIDAY – POSTERS

PS 64-61

Assessing desert aquatic habitat under varying management and climate scenarios

Friday, August 15, 2014 | 8:30-10:30 AM

Exhibit Hall, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper50219.html>

Gary Scopettone, USGS Western Fisheries Research Center

PS 75-164

Legacy ecological data from the northern plains: Adding historical context to NEON data

Friday, August 15, 2014 | 8:30-10:30 AM

Exhibit Hall, Sacramento Convention Center

<http://eco.confex.com/eco/2014/webprogram/Paper50256.html>

Jane E. Austin, USGS Northern Prairie Wildlife Research Center

ATTENDEE DIRECTORY

Including agency representatives and non-presenting researchers.

<u>FIRST LAST</u>	<u>USGS OFFICE</u>	<u>EMAIL</u>
Craig Allen	USGS Jemez Mountains Field Station	craig_allen@usgs.gov
Matthew Andersen	USGS National Center, Ecosystems Mission Area	mandersen@usgs.gov
Adam Backlin	USGS Western Ecological Research Center	abacklin@usgs.gov
Jill Baron	USGS Fort Collins Science Center (<i>Current ESA President</i>)	jill_baron@usgs.gov
Douglas Beard	USGS National Climate Center and Wildlife Science Center/National Center, Climate and Land Use	dbeard@usgs.gov
Janye Belnap	USGS Southwest Biological Science Center	jayne_belnap@usgs.gov
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Matthew Brooks	USGS Western Ecological Research Center	mlbrooks@usgs.gov
Kristin Byrd	USGS Western Geographic Science Center	kbyrd@usgs.gov
Brian Cade	USGS Fort Collins Science Center	cadeb@usgs.gov
Tara Chestnut	USGS Oregon Water Science Center	chestnut@usgs.gov
Elizabeth Colvard	USGS Menlo Park	ecolvard@usgs.gov
James Cronin	USGS National Wetland Research Center	jcronin@usgs.gov
Anthony Darrouzet-Nardi	USGS Southwest Biological Science Center	Adarrouzet-nardi@usgs.gov

<u>FIRST LAST</u>	<u>USGS OFFICE</u>	<u>EMAIL</u>
Michael Dodrill	USGS Grand Canyon Monitoring and Research Center	mdodrill@usgs.gov
Michael Duniway	USGS Canyonlands Research Station	mduniway@usgs.gov
Maria Dzul	USGS Grand Canyon Monitoring and Research Center	mdzul@usgs.gov
Joseph Fleskes	USGS Western Ecological Research Center	joe_fleskes@usgs.gov
Angela Fuller	USGS New York Cooperative Fish and Wildlife Research Unit	afuller@usgs.gov
Christopher Gabler	USGS National Wetlands Research Center	cgabler@usgs.gov
Jill Gannon	USGS Northern Prairie Wildlife Research Center	jjgannon@usgs.gov
Matt Germino	USGS Forest and Rangeland Ecosystem Science Center	mgermino@usgs.gov
James Grace	USGS National Wetlands Research Center (<i>New ESA Fellow 2014</i>)	gracej@usgs.gov
Evan Grant	USGS Patuxent Wildlife Research Center	ehgrant@usgs.gov
Theodore Grantham	Center for Watershed Sciences, University of California, Davis	tgrantham@usgs.gov
Jennifer Gremer	USGS Colorado Plateau Research Station	jgremer@usgs.gov
David Hoover	USGS Canyonlands Research Station	dlhoover@usgs.gov
Vivian Hutchison	USGS Center for Biological Informatics, Core Science Systems	vhutchison@usgs.gov
Brian Irwin	USGS Georgia Cooperative Fish & Wildlife Research Unit	bjirwin@usgs.gov
Stephen Jackson	USGS Southwest Climate Science Center (<i>New ESA Fellow 2014</i>)	stjackson@usgs.gov
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