



## Contributed Abstract Themes

**\*\* Indicates new themes with a description at the end of document.**

### A Change Is Gonna Come

Back and Forecasting in Ecology \*\*  
Broadening Participation and Impact \*\*

Interdisciplinary Tools to Advance  
Ecology \*\*  
Socio-Ecological Coupling \*\*

### Ecological Applications, Tools, And Techniques

Biogeochemistry: Experimental Climate  
Change Effects On Biogeo Processes  
Biogeochemistry: Scaling Processes  
From Genes To Ecosystems  
Conservation Management  
Conservation Planning, Policy, And  
Theory  
Ecosystem Management  
Ecosystem Services Assessment  
Education: Community-Based Learning  
Education: Pedagogy  
Education: Research And Assessment  
Education: Tools & Technology  
Environmental Impact And Risk  
Assessment

Fire Management  
Fisheries Management And Models  
Forest And Rangeland Management  
Genetics And Molecular Techniques  
Invasion: Models  
Invasion: Prevention And Management  
Modeling  
Modeling: Communities, Disturbance,  
Succession  
Modeling: Populations  
Remote Sensing And Image Analysis  
Restoration Ecology  
Statistics

### Ecosystem Or Habitat

Agriculture  
Aquatic Ecology: Lakes And Ponds  
Aquatic Ecology: Streams And Rivers  
Arctic, Alpine, Antarctic Systems  
Arid And Semi-Arid Systems  
Estuarine  
Forests: Boreal And Subalpine  
Forests: Temperate

Forests: Tropical  
Grasslands/Steppe  
Mediterranean Ecosystems  
Riparian And Floodplain Habitats  
Soil  
Subalpine  
Urban Ecosystems  
Wetlands



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### Ecological Concepts And Processes

Aquatic-Terrestrial Linkages  
 Behavior  
 Behavior: Foraging And Diet  
 Behavior: Migration And Movement  
 Biodiversity  
 Biodiversity: Effects Of Global Change  
 Biogeochemistry: Aboveground-Belowground Interactions  
 Biogeochemistry: Atmospheric N Deposition Effects  
 Biogeochemistry: Biogeo Patterns Along Environmental Gradients  
 Biogeochemistry: C And N Cycling In Response To Global Change  
 Biogeochemistry: Linking Community Structure And Ecosystem Function  
 Biogeochemistry: New Paradigms In Biogeochem Cycling  
 Climate Change  
 Climate Change: Biogeochem Cycles  
 Climate Change: Communities  
 Climate Change: Plants  
 Climate Change: Ranges And Phenology  
 Evolution: Selection And Adaptation  
 Fire  
 Food Webs  
 Habitat Structure, Fragmentation, Connectivity  
 Herbivory  
 Herbivory: Plant Defenses  
 History and Practice of Ecology\*\*  
 Invasion  
 Invasion: Community Effects  
 Invasion: Dynamics, Population Processes  
 Invasion: Ecosystem Processes  
 Invasion: Invasibility, Stability, And Diversity  
 Invasion: Species Interactions  
 Life History Theory And Evolution  
 Mutualism And Facilitation  
 Communities: Assembly And Neutral Theory  
 Communities: Disturbance And Recovery  
 Communities: Traits And Functional Diversity  
 Communities: Paleoecology And Long-Term Dynamics  
 Communities: Spatial Patterns And Environmental Gradients  
 Communities: Succession  
 Competition  
 Conservation Ecology and Extinction\*\*  
 Detritus And Decomposition  
 Disease And Epidemiology  
 Dispersal And Colonization  
 Distributions And Range Limits  
 Eco-Evolutionary Processes\*\*  
 Ecosystem Function  
 Ecosystem Function: Biodiversity  
 Ecosystem Stability And Resilience  
 Effects Of Multiple Global Changes On Communities And Ecosystems  
 Environmental Gradients  
 Evolution: Genetic Isolation And Differentiation  
 Mycorrhizae  
 Parasitism And Host-Parasite Interactions  
 Phenology  
 Physiological Ecology  
 Plant-Insect Interactions  
 Pollination  
 Population Dynamics And Regulation  
 Population Dynamics: Metapopulations  
 Population Dynamics: Modeling  
 Predation And Predator-Prey Interactions  
 Rhizosphere And Root Function  
 Seed Production, Dispersal, And Predation  
 Species Interactions  
 Trophic Dynamics And Interactions



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### New Theme Descriptions

#### Back and Forecasting in Ecology

Retrospective investigations and projections of conditions that inform temporal dynamics of species interactions.

#### Broadening Participation and Impact

Investigations of strategies and best practices in ecology that improve inclusivity in ecology and impact of ecology.

#### Interdisciplinary Tools to Advance Ecology

Investigations that highlight how integrating approaches, philosophies, and tools from other disciplines advance ecological research and practice.

#### Socio-Ecological Coupling

Investigations on the feedback and interactions between social and ecological processes.

#### Conservation Ecology and Extinction

Investigation of factors that contribute to the vulnerability of species or persistence of diversity at any scale.

#### Eco-Evolutionary Processes

Investigations of feedbacks and interactions among ecological and evolutionary processes.

#### History and Practice of Ecology

Investigations of the discipline of ecology including cultural change, best practices, and historical barriers that shaped knowledge production.