

Ecological Drought – Impacts, Resistance and Recovery

Oregon State University Foundation
707 SW Washington Street, Suite 500
Portland OR 97205

February 7, 2017

Background

The Department of the Interior (DOI) Climate Science Centers (CSCs) and their managing organization, the National Climate Change and Wildlife Science Center (NCCWSC) at the U.S. Geological Survey, have chosen the emerging climate science field of Ecological Drought as a research focus area. Ecological drought is generally defined as the prolonged and widespread deficit in soil moisture, or biologically available water, that imposes multiple stresses in terrestrial and aquatic ecosystems.

This workshop is the sixth in a series of meetings at each of the nation's eight CSCs aimed at collating our existing knowledge of the ecological impacts, resistance, and recovery from drought. The eight CSCs provide a fantastic opportunity to compare the ecological effects of drought, related research activities, and management options at different regions, spatial scales, and biomes.

Agenda

Time	Topic
8.30 – 9.00	Registration
9.00 am – 9.30 am	Workshop overview and introductions (Simon Costanzo, Aaron Ramirez)
9.30 am – 10.00 am	Regional overview activity (Simon Costanzo and Bill Dennison)
10.00 am – 10.20 am	4 x 10 minute (max) presentations on the impacts of ecological drought, research and/or management in the Northwest United States. Speakers to describe 'some' of the effects of the ecological drought on their area. <ol style="list-style-type: none">1. Kathie Dello: Climate change scenarios and drought projections2. Chas Jones: Climate change impacts to water resources
10.20 am – 10.35 am	Break
10.35 am – 11.00 am	<ol style="list-style-type: none">3. Jessica Halofsky: Ecological drought in forested systems4. Jason Dunham: Ecological drought in aquatic systems
11.00 am – 12.00 pm	Value and threat identification and ranking activity <i>Interactive group session identifying what people in the room see as unique and/or valuable about the Northwest ecological drought scenario/situation and what is threatening these values.</i>
12.00 pm – 1.00 pm	Lunch (not provided, will purchase from food carts near meeting location. Please bring cash, \$8-10). <i>Group photo immediately following lunch</i>
1.00 pm – 2.15 pm	State of knowledge activity (round tables) <i>Round table session building upon values and threats exercise – aim is to highlight strengths and weaknesses in knowledge in relation to the top values and threats identified in previous session.</i>
2.15 pm – 2.45 pm	State of knowledge activity – reporting back to group
2.45 pm – 3.00 pm	Break
3.00 pm – 4.15 pm	Messaging and story boarding workshop newsletter
4.15 pm – 4.45 pm	Wrap-up and next steps
5.00 pm	Optional happy hour/dinner

Ecological Drought – Impacts, Resistance and Recovery

USGS Idaho Water Science Center
F.H. Newell Federal Building
230 Collins Road Boise, ID 83702

February 9, 2017

Background

The Department of the Interior (DOI) Climate Science Centers (CSCs) and their managing organization, the National Climate Change and Wildlife Science Center (NCCWSC) at the U.S. Geological Survey, have chosen the emerging climate science field of Ecological Drought as a research focus area. Ecological drought is generally defined as the prolonged and widespread deficit in soil moisture, or biologically available water, that imposes multiple stresses in terrestrial and aquatic ecosystems.

This workshop is the sixth in a series of meetings at each of the nation's eight CSCs aimed at collating our existing knowledge of the ecological impacts, resistance, and recovery from drought. The eight CSCs provide a fantastic opportunity to compare the ecological effects of drought, related research activities, and management options at different regions, spatial scales, and biomes.

Agenda

Time	Topic
8.30 – 9.00	Registration
9.00 am – 9.30 am	Workshop overview and introductions (Simon Costanzo, Shelley Crausbay)
9.30 am – 10.00 am	Regional overview activity (Simon Costanzo and Bill Dennison)
10.00 am – 10.30 am	5 x 10 minute (max) presentations on the impacts of ecological drought, research and/or management in the Northwest United States. Speakers to describe 'some' of the effects of the ecological drought on their area. <ol style="list-style-type: none">1. Kathie Dello: Climate change scenarios and drought projections2. Charlie Luce: Climate change impacts to water resources3. Matt Germino: Ecological drought in sagebrush steppe
10.30 am – 10.45 am	Break
10.45 am – 11.05 am	<ol style="list-style-type: none">4. Doug Shinneman: Ecological drought and fire5. Jason Dunham: ecological drought in aquatic systems
11.05 am – 12.05 pm	Value and threat identification and ranking activity <i>Interactive group session identifying what people in the room see as unique and/or valuable about the Northwest ecological drought scenario/situation and what is threatening these values.</i>
12.05 pm – 1.00 pm	Lunch (not provided, will preorder from local restaurant. Please bring cash, \$8-10). <i>Group photo immediately following lunch</i>
1.00 pm – 2.15 pm	State of knowledge activity (round tables) <i>Round table session building upon values and threats exercise – aim is to highlight strengths and weaknesses in knowledge in relation to the top values and threats identified in previous session.</i>
2.15 pm – 2.45 pm	State of knowledge activity – reporting back to group
2.45 pm – 3.00 pm	Break
3.00 pm – 4.15 pm	Messaging and story boarding workshop newsletter
4.15 pm – 4.45 pm	Wrap-up and next steps
5.00 pm	Optional happy hour/dinner