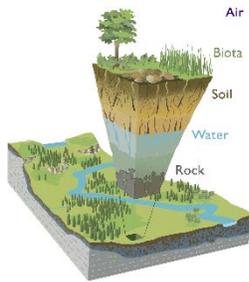


## Critical Zone and Society



The Critical Zone (CZ) is the uppermost layer of Earth's continents that provides all of the terrestrially based resources and services required for sustaining healthy and functioning natural environments and human communities. CZ science provides the framework for a holistic systems approach to Earth surface and environmental science by considering the complex interactions between rock, soil, water, air and terrestrial organisms that influence Earth as a habitable system.

A primary tenet of this webinar series is that to achieve environmental sustainability, society must first understand the CZ system and the coupled physical, chemical, and biological processes and services of the CZ. Understanding how such processes operate, especially those that are of value to society, with and without the presence of humanity, and how they may be altered due to global climate and land-use change, is essential for developing environmental management protocols and sustainable resource-consuming practices.

### 2017 CZO Webinar Series

|                               |   |
|-------------------------------|---|
| <i>February 28</i><br>3PM EST | <b>The Most Critical CZ Problems</b><br>Susan Brantley, Penn State University                       |
| <i>March 14</i><br>3PM EST    | <b>Critical Zone Services</b><br>David Breshears & Jason Field, University of Arizona               |
| <i>March 28</i><br>3PM EST    | <b>Blue Revolution: Water scarcity in a changing world</b><br>Praveen Kumar, University of Illinois |
| <i>April 11</i><br>3PM EST    | <b>Drought resilience and water security</b><br>Roger Bales, University of California-Merced        |
| <i>April 25</i><br>3PM EST    | <b>Forecasting of Earth surface processes</b><br>Jon Pelletier, University of Arizona               |
| <i>May 9</i><br>3PM EST       | <b>Policy Relevance of Critical Zone Science</b><br>Steve Banwart, University of Leeds              |

**CZO webinar series meeting room:** <https://psu.zoom.us/j/191430314>  
*Please visit [CriticalZone.org](http://CriticalZone.org) for information on how to participate via telephone.*