The following text was prepared by CZO PIs to include in proposals due Feb. 5, 2013 to describe proposed cross-CZO network activities.

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# CZO National cross-network activities

The six original CZOs together have proposed the following five activities to facilitate and promote cross-site science among the CZOs. This text was placed on the national CZO website on 12-20-12 to enable other CZO proposers to include in their proposals.

**CZ Network Cyberseminar Series.** The CZOs will work with R. Hooper, Director of CUAHSI, to run six cyberseminars/yr. Seminars will follow the framework established for CUAHSI cyberseminars; all viewers can see the slides; the speaker can point and annotate, and participants can comment and question by voice or text. This cyberseries will build upon the series of six talks run for CZO by CUAHSI in 2011-2012. In the next 5 years, we will highlight scientists, postdocs, and students working on CZ questions, regardless of whether they are a member of a CZO team. In some cases, a cyberseminar may be scheduled as follow-up after one of the cross-network activities outlined below. All CZ topics will be included. INSERT LOCAL TEXT HERE

**CZ Network Research (CZNR) Workshops ($15k/CZO)**. Each observatory will run one ~2.5-day CZNR Workshop on an interdisciplinary topic. Workshop size will be ~12 scientists and students from in and outside of the CZO network. Each CZO host will provide travel allowances, housing, and meals. The intent is to stimulate researchers to work together and across disciplines. The broadly advertised workshops will result in a proposal, synthesis paper, or integrative model. CZO data will be highlighted appropriately in the context of data from other sites. INSERT LOCAL TEXT HERE.

**Drill-the-Ridge (INSERT $ HERE)**. Access to the bottom of the weathered rock zone is difficult to gain but is widely recognized as the CZ region we understand the least. In recognition of this, the CZO network produced a special issue in Earth Surface Processes and Landforms, and ran a special session at AGU. Pilot coring projects have been run at all six original CZOs, and will be extended. The idea, called “Drill the Ridge” was proposed at the International Workshop on Design of Global Environmental Gradient Experiments using International CZO Networks (8-9 Nov 2011, Univ. of Delaware). The goal at each site will be to reach the water table and fresh rock, typically by wireline drilling, extracting core and overburden. Downhole logging will also be pursued, i.e., electrical logging, calipers, acoustic televiewer, optical televiewer, compensated density caliper, thermal neutral (relative porosity), heat pulse flowmeter, and hydrophysical logging. If possible, the borehole will be completed as a well, and instrumented with water level and temperature sensors, and will be used to collect water samples monthly using the method of choice (bailing or pump) at each site. These pilot coring projects will provide training for students in drilling technologies. The data from this initial Drill-the-Ridge campaign will provide preliminary data to be used to inform future proposals to core in more locations, with accompanying geophysical surveys, pump testing, and microbiological sampling. The depth of these initial pilot holes will vary from site to site. Holes will vary from 10 to 300 m in depth. INSERT LOCAL TEXT HERE

**Joint Research Field Campaigns ($15k/CZO).** All observatories will run three 5-day CZ Joint Research Field Campaigns spread over the next five years. Each site will host one field campaign, similar in format but with different foci. The host will support travel and accommodation for a total of 12 students, postdocs or scientists from other CZOs in each campaign. The intent is to stimulate researchers to develop shared data, to work together across disciplines, and to introduce students to new sites and techniques. It is expected that results from each Campaign will become part of the CZO community data resources. If appropriate, the CZOs may use the CZ Network Research Workshops to develop focused questions for the field campaigns, or for the CZ Network Research Workshops. INSERT LOCAL TEXT

**Cross-CZO modeling ($10k/CZO).** Ongoing modeling activities at each of the CZOs will be communicated and integrated across the network through a series of cross site visits to other CZOs. During those visits, modelers will be cross-fertilized in terms of conceptualizations and codes and will learn how to make best use of available data. To facilitate this effort, each CZO is pledging $10k for travel to enable modelers to visit or travel to other CZOs. INSERT LOCAL TEXT HERE.