



[Start](#) | [Author Index](#) | [View Uploaded Presentations](#) | [Meeting Information](#)

## GSA Annual Meeting in Denver, Colorado, USA - 2016

Paper No. 96-11

Presentation Time: 10:45 AM

### UNRAVELING THE MYSTERIES OF THE MOJAVE: AN INNOVATIVE INTERDISCIPLINARY APPROACH TO ECOSYSTEM UNDERSTANDING

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Innovative interdisciplinary research is critical to understanding the varied and relatively well-preserved environments that are National Preserves. Blueprint Earth is conducting interdisciplinary research in a 1km<sup>2</sup> area within the Cane Spring system in the Mojave National Preserve, a site chosen for its relative inaccessibility to the general public and for the apparent biodiversity present in the spring ecosystem. Since 2014, we have been investigating area geology, hydrology, biology, and atmosphere. Preliminary research findings include previously undocumented areas of surface water expression. We present our hydrologic and geologic findings to date, along with results of our ongoing spatial phylogenetic analyses. These will be used to compare and potentially correlate phylogenetic diversity and endemism with georeferenced observations in hydrology, geology, and atmosphere from the study area to look for new and informative connections among these traditionally separate research fields.

Session No. 96

[T71. A Centennial Celebration of Geology and Hydrology in the National Parks: Research, Mapping, and Resource Management I](#)

Monday, 26 September 2016: 8:00 AM-12:00 PM

Mile High Ballroom 4D (Colorado Convention Center)

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[Back to: T71. A Centennial Celebration of Geology and Hydrology in the National Parks: Research, Mapping, and Resource](#)

Management I

[<< Previous Abstract](#) | [Next Abstract >>](#)

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