Presentations and Publications

Journal Articles


Conference Abstracts/Papers


New Projects

Assessment of Flood Risk for the Steamboat Ditch / UNR: Pre-Disaster Mitigation 2012 Risk Assessment/Update

PI: Greg Pohll
CoPI: Rosemary Carroll
Agency: University of Nevada, Reno
Amount: $29,581
Summary: The primary goal of this project is to develop a standardized procedure for a hydrologic analysis to determine the potential flood risk for the Steamboat Ditch system. Once complete, it is expected that the procedure could then be applied to the remaining five irrigation ditches within the Truckee Meadows.

CESU Identifying Riparian Habitats within Nevada utilizing Landsat

PI: Justin Huntington
CoPI(s): Charles Morton & Kenneth McGwire
Agency: DOI - Bureau of Land Management
Amount: $165,000
Summary: This proposal aims to utilize the entire Landsat archive from 1984 to present, to identify and map the history and change of riparian habitat area, vegetation vigor, and associated water use over the entire state of Nevada. In essence we are “back-casting” the presence of sensitive water dependent habitat and identifying which areas are persistent and changing over time over a wide range of climate. These high spatial and temporal resolution products and associated databases will serve as excellent decision support tools to assist management agencies to better understand spatially explicit habitat conditions, disturbance patters, make science-informed decisions about resource allocation, and fill critical information needs for greater sensitive species management.
New Hires

- Allison Flickinger - Graduate Research Assistant (NNSC)
- Karen Gastineau - Graduate Research Assistant (NNSC)
- Susan Rybarski - Graduate Research Assistant (NNSC)
- Luke Pickman - Graduate Research Assistant (NNSC)
- Richard Donohoe - Affiliate Research Scientist (NNSC)
- Austin Chapman - Hourly Technical (NNSC)
- Blake Minor - Hourly Technical (NNSC)
- Lisa Wable - Hourly Technical (NNSC)
- John Volk - Hourly Technical (NNSC)
- Andrew Joros - Staff Research Scientist Hydrometeorology (NNSC)

DHS Announcements

- Hal Voepel successfully defended his dissertation titled “Drivers of Spatial Dispersion and Residence Time of Coarse Sediment in Gravel-Bed Rivers” under Rina Schumer for Doctor of Philosophy in Hydrologic Sciences at University of Nevada, Reno on August 9, 2013.
- DHS received the 2013 Friends of UCOWR Award for organizing the UCOWR Conference. Congratulations!

Proposals (submitted July thru September 2013)

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<th>Date Submitted</th>
<th>PI, Co-PI</th>
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<tr>
<td>9-Jul-13</td>
<td>Apambire, Braimah CoPI(s): Alex Lutz, Clay Cooper, Jim Thomas</td>
<td>Coastal Salinity Prevention Cell</td>
<td>Action Research on Long-Term Sustainability of Coastal Watersheds in the State of Gujrat, India</td>
<td>$250,000</td>
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<td>15-Aug-13</td>
<td>Berli, Markus CoPI(s): Duane Moser, Lynn Fenstermaker, Navin Twarakavi, Prof TBD</td>
<td>National Aeronautics &amp; Space Administration</td>
<td>Soil Carbon Dynamics in Arid Ecosystems: Experimental and Numerical Analysis of C-Fluxes</td>
<td>$1,265,965</td>
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<td>5-Sept-13</td>
<td>McGraw, David S</td>
<td>State of Nevada - Department of Transportation</td>
<td>Traffic Prediction, Response, and Management through Data Mining and Data Stream Processing</td>
<td>$119,225</td>
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<td>10-Sept-13</td>
<td>Russell, Chuck E CoPI(s): Jeff Daniels, Jenny Chapman, John Healey, Karl Pohlmann, Matt Reeves, Ron Hershey</td>
<td>DOE - Albuquerque</td>
<td>Underground Test Area (UGTA) project</td>
<td>$2,215,495</td>
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<td>10-Sept-13</td>
<td>Miller, Julie J CoPI(s): Colleen Beck, Vic Etyemezian</td>
<td>DOE - Albuquerque</td>
<td>Soils project</td>
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<td>12-Sept-13</td>
<td>Schmidt, Casey</td>
<td>State of Nevada - Dept of Conservation and Natural Resources</td>
<td>Assessment of Pinion Juniper-derived biochar as a soil amendment to improve survivability of urban trees in Nevada</td>
<td>$181,370</td>
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<td>12-Sept-13</td>
<td>Pohll, Greg M CoPI(s): Justin Huntington, Matt Reeves</td>
<td>National Science Foundation</td>
<td>WSC-Category 2, Collaborative: Water Sustainability in Snow-Fed Arid Land River Systems</td>
<td>$1,998,690</td>
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<td>16-Sept-13</td>
<td>Carroll, Rosemary W</td>
<td>University of Illinois at Urbana-Champaign</td>
<td>WSC-Category 3: The Groundwater Futures Project</td>
<td>$80,012</td>
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