

Southwest HYDROLOGY

The Resource for Semi-Arid Hydrology

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Remote Data
Acquisition

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Southwest HYDROLOGY

A bimonthly trade magazine for hydrologists, water managers, and other professionals working with water issues.



From the
Publisher



Southwest Hydrology Merges with SAHRA

We're pleased to announce the merger of **Southwest Hydrology** with the National Science Foundation's Science and Technology Center for Sustainability of semi-Arid Hydrology and Riparian Areas (SAHRA), based at the University of Arizona. As of this issue, we are combining resources to improve the quality of both the magazine and the Web site. More good news: although we continue to rely on our advertisers/sponsors to sustain production of the magazine, we are returning to free subscriptions, boosting our distribution back up to 4,000. (Paid subscribers will receive prorated refunds.)

Southwest Hydrology will continue to be the same magazine with the same focus, except it will become bigger and better. This merger brings more staff, a larger reporting network, and new departments to cover international water issues and water education. We will also expand coverage of water law and economic issues, and soon, back issues will be available on our Web site. In addition, we will regularly survey our readers for feedback, all to further our primary goal, to be the voice of the semi-arid water community.

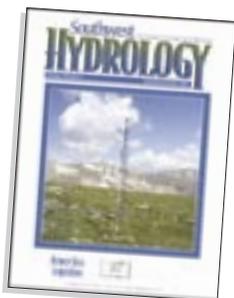
Our focus in this edition is remote data acquisition...it's not just for big-budget researchers anymore! We examine a variety of data transmission types and applications ranging from simple to complex.

We thank all the contributors to this issue, listed on the opposite page, and encourage your comments and contributions, particularly as we implement our improvements.

Southwest Hydrology remains a magazine by and for you, our readers.

Betsy Woodhouse
SWH Publisher

Gary Woodard
SAHRA Knowledge Transfer



D1 meteorological station, Niwot Ridge, Front Range, Colorado, elevation 12,300 feet, has the longest high-elevation climate record of any station in North America. Hourly data are transmitted by spread-spectrum radio and may be viewed at www.colorado.edu/mrs/. Funding provided by NSF-LTER current program #DEB 9810218 with additional support from Mountain Research Station, Institute of Arctic and Alpine Research (INSTAAR), University of Colorado. Photo by Mark Losleben, INSTAAR.



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Remote Data Acquisition

Remote water resource monitoring systems are now being used in applications as simple as monitoring soil moisture at a golf course to as complex as multi-sensored systems that provide snow melt, stream discharge, reservoir level, meteorological, and water quality data in order to adjust flow through a regional water distribution system. Recent advances in sensor and data transmission technologies have made these systems more feasible than ever. Furthermore, Internet capabilities allow widespread access to the data. Our feature authors discuss various kinds of remote monitoring systems and their applications.

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With the click of a mouse, real-time environmental conditions throughout the San Rafael River Basin can be obtained.

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Editorial Contribution

Southwest Hydrology welcomes letters and contributions of news, project summaries, product announcements and items for The Calendar. Send submissions by mail or email as listed at bottom. Visit www.swhydro.arizona.edu for additional guidelines for submissions.

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