


SNAMP Science Team: Water



Water Team Members

Principal Investigators:

- Roger Bales
- Martha Conklin

Graduate Student:

- Sarah Martin

Staff

- Phil Saksa

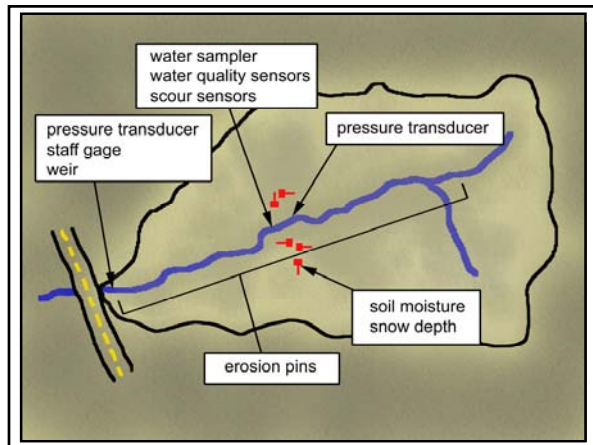
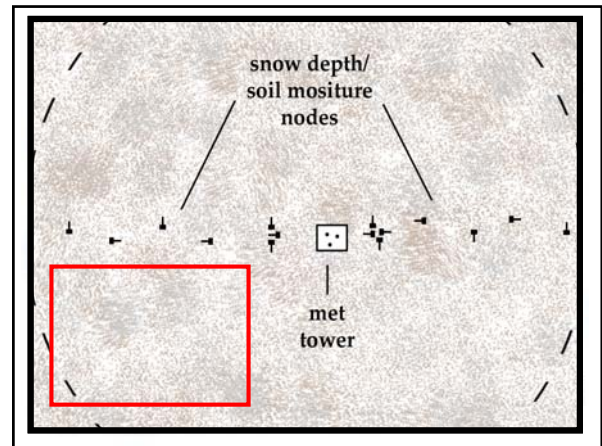
Water Team Goals

- Water team members will be monitoring water quality and quantity across treatment and control catchments prior to, and after, treatments. They are investigating impacts of strategic fuel treatments in SNAMP study areas on water quantity and quality.

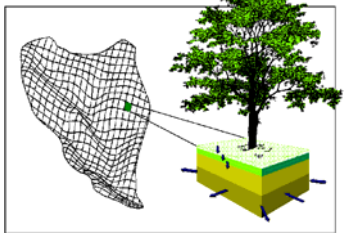
Water Team Activities

- Instrumentation
 - Meteorological tower & snow depth/soil moisture nodes
 - Sediment, streamflow, snow depth/soil moisture & water chemistry
- Modeling
 - Distributed Hydrology-Soils-Vegetation Model: DHVSM

SNAMP Public Meeting Nov 5 2008 Sierra Nevada Adaptive Management Project stamp.cnr.berkeley.edu




Hydrologic modeling: DHVSM
Distributed Hydrology-Soils-Vegetation Model



- Topography: digital elevation data
- Spatial distributions: soil moisture, ET & runoff
- Components: 2-layer canopy model, energy-balance model, & 2-layer subsurface flow model

SNAMP Science Team: Public Participation



Public Participation Team Members

Principal Investigators:

- Lynn Huntsinger
- Maggi Kelly
- Kim Rodrigues

Postdoctoral Researchers:

- Adriana Salak

Cooperative Extension Staff:

- Susie Kocher
- Ann Lombardo (south)
- Kim Ingram (north)

Graduate Student:

- Shasta Ferranto

Public Participation Team Goals

- Monitor the Forest Service Public participation processes, working to increase stakeholder involvement in the project through regular open meetings and reporting, an interactive website to facilitate stakeholder contact with project scientists, and joint monitoring programs.

Public Participation Team Activities


- Integration Team Coordination
- Field Trips
- Outreach Presentations
- Outreach Materials
- Media
- Research

SNAMP Public Meeting Nov 5 2008 Sierra Nevada Adaptive Management Project stamp.cnr.berkeley.edu

PPT: The Short Story

Details from each of these activities is available as a handout.

- Integration Team Coordination
- Field Trips
- Outreach Presentations
- Outreach Materials
- Media
- Research



Facilitate SNAMP process through:

- *strategic facilitation of meetings*
- *creating strong relationships among stakeholders, agencies, and researchers for mutual learning*
- *maintaining open and transparent process and two-way communication*
- *maintaining commitment of all parties to outreach and participation.*

Research and monitor program process and participation efforts.

Track creation and use of scientific results and participant input.

Focus: SNAMP website

SNAMP Public Meeting Nov 5 2008 Sierra Nevada Adaptive Management Project stamp.cnr.berkeley.edu

SNAMP Public Website

We've re-designed the website and added:

- multiple ways to find documents
- more live information about the teams
- more useful information about meetings
- updated timeline, including Forest Service events
- more photographs
- interactive maps
- discussion board:
 - With normal comment driven interface, and
 - Place-based commenting



SNAMP Public Meeting Nov 5 2008 Sierra Nevada Adaptive Management Project stamp.cnr.berkeley.edu


SNAMP: Place-based Discussion

When you have a discussion point that can be linked place, consider adding a **place**, or **polygon** to your comment. These locations will be with your comment.



SNAMP Public Meeting Nov 5 2008 Sierra Nevada Adaptive Management Project stamp.cnr.berkeley.edu

SNAMP Science Team: Spatial



Spatial Team Members

Principal Investigators:

- Qinghua Guo, UC Merced
- Maggi Kelly, UC Berkeley

Graduate Students:

- Marek Jakubowski, UCB
- Alessandro Montagni, UCB
- Wenkai Li, UCM

Staff:

- Hong Yu, UCM

Spatial Team Goals

- Developed to assist in the GIS and remote sensing technology that all teams require.
- Members of the spatial team have the responsibility for supporting all other teams' GIS, remote sensing and spatial analysis needs.

Spatial Team Activities

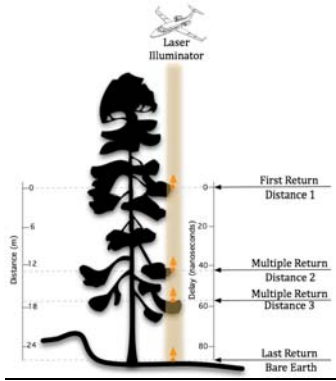
- LIDAR Data Acquisition and Processing
- Field Campaign

SNAMP Public Meeting Nov 5 2008 Sierra Nevada Adaptive Management Project stamp.cnr.berkeley.edu

Spatial Team Update: Lidar

Lidar = Light Detection and Ranging

The measurement of the speed which a pulse of light returns to a sensor is converted to elevation above sea level.



We want to use Lidar to characterize forest structure and topography across scales:

- Vertical and horizontal

Image modified from Leiky et al. 2004 with tree graphic from globalforestmonitoring.org

SNAMP Public Meeting Nov 5 2008 Sierra Nevada Adaptive Management Project stamp.cnr.berkeley.edu

