HPWREN Users Meeting 2005 San Diego State University Field Station Programs

- Sky Oaks Link Established
- •Intra-SMER Expansion to Highlands
- •Fire Sensor Project
- Web Content
- •HPWREN at SDSU
- •Intra-SMER Backbone Upgrade
- Emergency Response

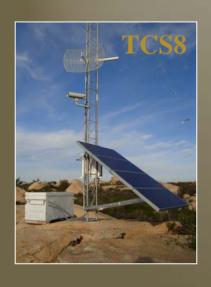


SMER Highlands Install

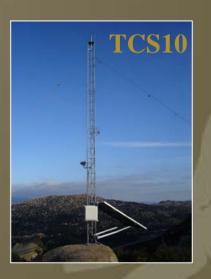


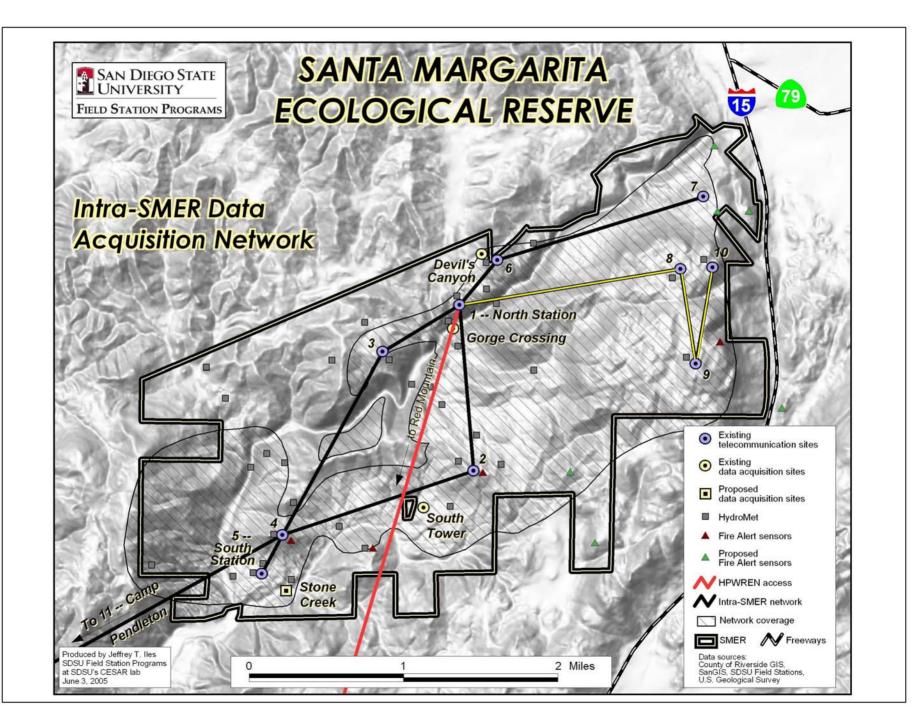












- Demonstrate and evaluate early warning system and community education website
- \$1.2 million project funded by the National Telecommunications and Information Administration
- Collaboration among community groups, business, universities, public agencies













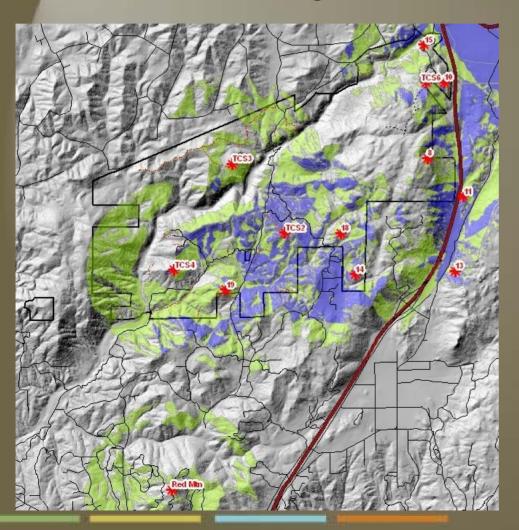


high performance wireless research and education network



FireAlert by Ambient Control Systems

- 360 degree rotating eye
- 45 degree vertical view
- 20 year field life
- Detect 4x4' fire from 1/4 mile
- Reports direction of fire in 10 degree increments
- Radio & satellite communication

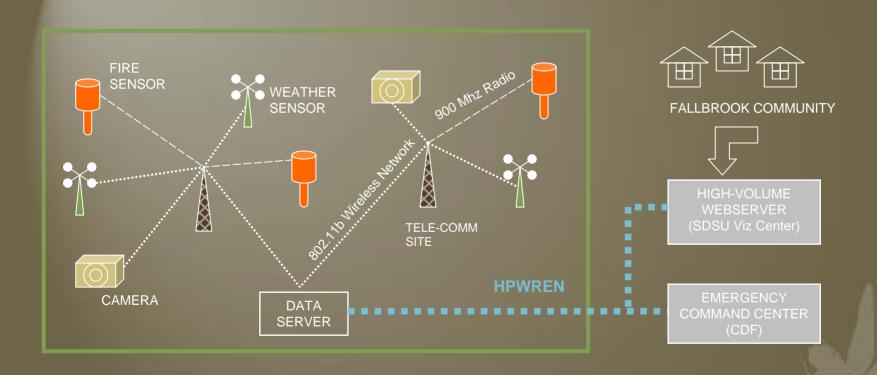


Coverage of rugged backcountry & urbanwildland interface using:

- 13 fire sensors
- 9 webcams
- 20 weather stations

Products:

- Early warning system for CDF
- Community Education website
- Evalutation of community response



FSP Web Site, RoadNet and HPWREN

- •Field Station Programs Web Site.

 Real Time Data, REMO
- •RoadNet Support and Web Display.

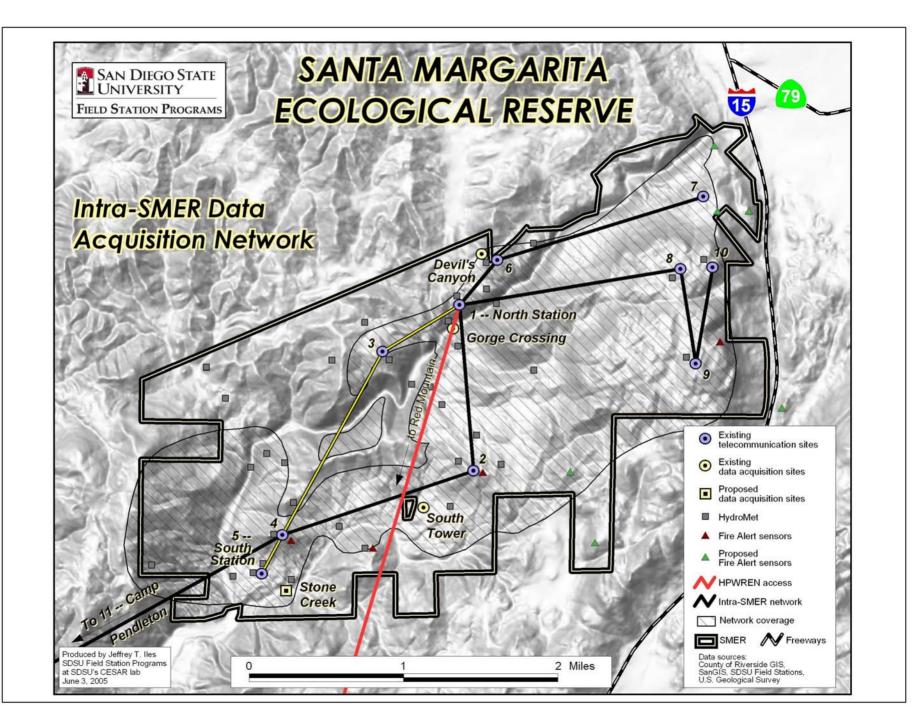
 Nagios
- •HPWREN Photo Page. Cameras

HPWREN at SDSU

- Upgraded links to Licensed 11GHz radios.
- •Telecommunication and Network Services (TNS) routing HPWREN subnet 172.16.139.n on campus. (Karen Anderson and John Denune)
- •Exploring the possibilities of using SDSU's 2.5GHz spectrum for future research.

Intra-SMER Backbone Upgrade

- •Replace Lucent 2.4 GHz radios with Trango Atlas 5.3 5.8GHz radios.
- •Augment solar power systems at TCS3 and TCS4 with the addition of two 80 watt PV panels and two 100ah batteries.



How do we respond to a regional disaster?

- How important is voice and data communications for operation of large scale emergency response?
- Identify sources of Internet access: HPWREN, Intra-SMER, Starbucks, Borders, home based cable...etc?

•What hardware is needed; Radios, VolP, cameras, tripods, enclosures, generators...etc?

- •What are the mechanisms for training, deployment?
- •Where is the funding?

Sky Oaks Link

