



Visualization Techniques Applied to Geophysical Sciences Research

Rationale

With increasing in situ and remote-sensing observations and modeling of the earth system, there is a growing need to use visualization techniques and pattern recognition in geophysical sciences research. In particular, the session presentations should include visualizations of modeling results and observational data in atmospheric, hydrological, geological, and biological studies. Cross-discipline studies are specifically encouraged as well as studies addressing how visualization techniques could yield new understanding of physical phenomena.

Topics

- Visualization of atmospheric and dispersion processes including releases of hazardous materials
- Severe weather phenomena
- Air quality observations and modeling
- Fire science
- Hydrological processes and modeling
- Climate evolution
- Satellite detection of clouds, temperature, and water vapor structure in the atmosphere
- Remote sensing of soil, vegetation, and ocean

Additional topics will also be considered for inclusion in the special track.

Organizers

- Darko Koracin, Desert Research Institute, Reno, Nevada
- Robert Rabin, NOAA/National Severe Storms Laboratory, Norman, Oklahoma and University of Wisconsin-Madison
- Joseph Scire, EarthTech, Concord, Massachusetts
- William Sherman, Desert Research Institute, Reno, Nevada

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