

















2009 International Symposium on Geo

John P. Wilso

- Multi-layer data set (raster & vector)
- National Albers projection
- 30 m resolution

Slide Courtesy of Kris Verdin

GIS Interaction







SRTM Datasets

- 11-day mission aboard Space Shuttle Endeavor in February 2000
- Collected interferometric SAR data for 80% of Earth's land surface (60° N to 56° S latitude)
- JPL processed SAR data into DEMs
- Provides 1-arc-sec data over U.S. and 3-arc-sec (90-m) data other places

GIS Interaction



<text>

























































Enduring Challenges Role of scale & landscape hierarchies Complex process feedbacks . Sensitivity of MIKE BASIN to model design decisions and inputs Dynamic character of key processes Inclusion of cloud cover in solar radiation models Quasi-dynamic topographic wetness index Role of measurement, calibration, validation, and uncertainty Difficulty of handling scale mismatches and possibility that process regimes change with time John P. Wils GIS research laboratory

2009 International Symposium on Geo-computa







Final Thoughts Need to rethink our research paradigms Think of new ways to represent, measure and interpolate variables of interest, build and apply models, & inform decisions Geocomputation has major role to play here Computing, modeling, sensor networks, etc. And with that, I will stop and take questions ... John P. Wilso GIS Interaction 2009 International Symposium on Geo-computation and Analysi