PHENOLOGY RESEARCH AND OBSERVATIONS OF SOUTHWEST ECOSYSTEMS SYMPOSIUM (PROSE)

12 October 2012
Catalina Conference Room (2nd Floor, Room 253)
USGS Environment and Natural Resources Building (ENRB), 520 N. Park Ave,
University of Arizona, Tucson, AZ

8:00-8:30: Registration

8:30-8:45: Welcome
PROSE Program Committee (Michaela Buenemann and Cynthia Wallace) & Jake Weltzin
(Executive Director, USA-NPN)

8:45-9:30: Keynote by Dr. Susan Moran
Response of Southwestern Grasslands to Precipitation and Temperature Extremes of the Early 21st Century Drought

9:30-9:50: Travis M. Bean and Steven Smith: Predicting Buffelgrass Greenup based on Antecedent Weather and Ground-Based Remote Sensing

9:50-10:30: Poster Introductions
Dawn Browning and Michelle Mattocks: Phenological Patterns of Chihuahuan Desert Perennial Grasses and Shrubs in Normal and Below-Average Precipitation Years
Maria Pilar Cendrero Mateo Maria Pilar, A. Elizabete Carmo-Silva, Micheal E. Salvucci, M. Susan Moran, Grey Nearing, and Mariano Hernandez: Steady-State Chlorophyll Fluorescence (Fs) as a Tool to Monitor Plant Drought Stress
Ana G. Colodner, Andres F. Cibils, and Michaela Buenemann: Comparison of Existing and Proposed Phenological Products to Describe Vegetation Dynamics of a Semiarid Rangeland
Cesar Duran, Joel B. Sankey, Cynthia S. A. Wallace, Helen Raichle, Susana Rodríguez-Buriticá, and Robert H. Webb: Monitoring Sonoran Desert Vegetation Phenology with Lidar Remote Sensing
Mohamed Abd Salam El Vilaly, Kamel Dida, and Armando Barretto: Validation of Satellite-Derived Land Surface Phenology using Field Observations of Crop Development Stages
Chao Fan and Soe Myint: Characterizing Landscape Fragmentation in an Urban Environment: Comparing Spatial Autocorrelation Indices and Landscape Metrics
Moira Hough, David Chan, Juliet Stromberg, Christopher Scott, and Mitchell Pavao-Zuckerman: Functional Traits as Predictors of Resilience of Riparian Ecosystem
Processes and Services
Shai Kaplan, C. Galletti, and W. Chow: Estimation of High Resolution Land Surface Broadband Albedo for Urban Area from Quickbird
Evan Kipnis, Krystine Nelson, and Shirley A. Papuga: Insights on Ecohydrological Controls of Phenological Events in *Larrea Tridentata* through Continuous Monitoring using Digital Cameras
Grey Nearing, Wade T. Crow, and Hoshin V. Gupta: Simulation Experiments for Agricultural Data Assimilation: Evaluating the Assumptions of Bayes Filters
Nicole Rafferty and Judith Bronstein: Pollination Success Varies with Flowering Time in Pointleaf Manzanita (*Arctostaphylos Pungens*)
Ian Shiach, Mohamed V. Khairy, Joel McCorkel, and David J.P. Moore: Development of a Calibrated Multi-Spectral Imaging System for High-Resolution Monitoring of Landscape Phenology
Jessica Swetish, Shirley A. Papuga, Marcy Litvak, Greg Barron-Gafford, and Bhaskar Mitra: Influence of Understory Greenness on Trace Gas and Energy Exchange in Forested Ecosystems

10:30-11:30: Posters & Break

11:30-12:30: Lunch

13:10-13:30: Jeff Lovich, Mickey Agha, Meaghan Muelblok, Kathie Meyer, Josh Ennen, Caleb Loughran, Sheila Madrak, and Curtis Bjurlin: Climatic Variation Affects Clutch Phenology in Agassiz's Desert Tortoise (*Gopherus agassizii*)

13:30-14:30: Posters & Break

14:30-14:50: Joel Sankey and Cynthia Wallace: Phenology-Based, Remote Sensing Indicator for Post-Burn Disturbance Windows in Rangelands
15:10-15:30: Jake Weltzin and Staff of the USA-NPN National Coordinating Office: The USA National Phenology Network’s National Phenology Database: A Multi-Taxa, Continental-Scale Dataset for Scientific Inquiry

15:30: Student Poster Awards Presentation