

January 2021

CURRICULUM VITAE

Douglas A. Stow

**Department of Geography
San Diego State University
619-594-5498
stow@mail.sdsu.edu**

Areas of Specialization: Remote sensing, image processing, biophysical geography, geographic information systems, land cover and land use change, semi-arid and coastal ecosystems, post-hazard damage assessment, and wildfire fuels and spread analyses.

Education:

<u>Institution</u>	<u>Years Attended</u>	<u>Degree</u>	<u>Major Field</u>
University of California, Santa Barbara	1974-1985	BA, MA, PhD	Geography
Scripps Institution of Oceanography, University of California, San Diego	1981	Intercampus Transfer	Satellite Oceanography/ Coastal Processes

Title of Dissertation:

Numerical Derivation of the Ocean Surface Velocity Field from Time Sequential Remote Sensing Methods

Academic Positions:

<u>Institution</u>	<u>Rank</u>	<u>Date</u>	<u>Department</u>
Santa Barbara City College	Lecturer	1978-79	Earth Science
University of California Santa Barbara	Lecturer	1978-82	Geography
San Diego State University	Assistant Professor	1983-87	Geography
	Associate Professor	1987-91	Geography
	Full Professor	1991-2016	Geography
	Distinguished Professor	2016-2019	Geography
	Distinguished Emeritus Professor	2019-	Geography

Other Professional Appointments:

<u>Institution</u>	<u>Position</u>	<u>Date</u>
University of California, Santa Barbara Remote Sensing Research Unit	Staff Research Associate	1978-83
San Diego State University, Center for Earth Systems Analysis Research	Co-Director	1987-present
San Diego State University, Geography	Department Chair	1992-1997
San Diego State University, Academic Affairs	Special Assistant	2011-present
San Diego State University, Geography	Interim Department Chair	2019

Courses Taught:

SDSU

GEOG 101	Principles of Physical Geography
GEOG 104	Geographic Information Science
GEOG 504	Coastal and Submarine Physiography
GEOG 587/591(&L)	Remote Sensing of the Environment/Laboratory
GEOG 588/592(&L)	Intermediate Remote Sensing of the Environment/Laboratory
GEOG 687	Seminar in Remote Sensing
GEOG 688	Advanced Remote Sensing: Integration of RS with GIS
GEOG 688L	Advanced Remote Sensing Lab
GEOG 780	Seminar in Techniques of Spatial Analysis
GS 250	University Seminar

UCSB

GEOG 115A	Aerial Photographic Interpretation
GEOG 115C	Intermediate Remote Sensing of Environment
GEOG 163	Environmental Pollution

SBCC

ES 200	Remote Sensing of Environment
--------	-------------------------------

Courses Developed:

SBCC

ES 200	Remote Sensing of Environment
--------	-------------------------------

SDSU

GEOG 104	Introduction to Geographic Information Science (w/ M. Tsou and S. Rey)
GEOG 488/587/591-591L	Introductory Remote Sensing of Environment
GEOG 588/592-592L	Intermediate Remote Sensing of Environment
GEOG 688	Advanced Remote Sensing: Integration of RS with GIS
GEOG 688L	Advanced Remote Sensing Laboratory

Graduate and Undergraduate Theses and Special Studies (C = completed) (I = in progress):

Doctoral Degree

Chair (14)

Dongmei Chen (C), Mary Freeman (C), Yuki Hamada (C), Caitlin Lippitt (C), Christopher Lippitt (C), Andrew Loerch (I), Stuart Phinn (C), Hsaio-Chien Shih (C), Emanuel Storey (C), Sory Toure (C), Yu-Hsin Tsai (C), Kellie Uyeda (C), Sally Westmoreland (C), Krista West (I).

Second Member (11)

Michael Beland (C), Magdalena Benza-Fiocco (C), Luc Claessens (C), Jie Dai (C), Ryan Engstrom (C), Debbie Fugate (C), Kristopher Kuzera (C), Anna Lopez (C), John Rogan (C), Kris Taniguchi (C), Huijie Zhang (I).

Outside Member (6)

Simon Benger, Australian National University (C), Gabriele Caccamo, University of Wollongong (C), Napoleon Gudino Elizondo, Center for Scientific Research and Higher Education, Ensenada (C), Kasper

Johansen, The University of Queensland (C), Joshua Kelly SDSU-UCSD Geodynamics (I), Michael Nielsen, Stockholm University (C).

Master's Degree

Chair (66)

Zlatina Anguelova (C), Eric Augenstein (C), Patsy Bearden (C), John Bennett (C), Nell Blodgett (C), Brian Bradshaw (C), Alice Brewster (C), Blake Burns (C), Michael Caldwell (C), Lina Cao (C), Caitlin Chason (C), Christopher Chavis (C), Doretta Collins (C), Kevin Contreras (C), Lauren Cooper (C), Jeff Duncan (C), Arman Eshraghi (C), Dillon Fitch (C), Elena Gantcheva-Tarnavsky (C), Keith Greer (C), Yuki Hamada (C), Liana Herberer (I), Heidi Hudak (C), Andrew Kerr (C), Jeff LaMantia-Bishop (C), Christian Langevin (C), Steve Lathrop (C), Anna Lieberman (C), Pauline Longmire (C), Martin Lowenfish (C), Martin Miles (C), Betsy Miller (C), Blair Mirka (C), Raghuram Narasimhan (C), Joel Nathanson (C), Bruce Nyden (C), Aaron Petersen (C), Seth Peterson (C), Heather Pray Minnoch (C), Matthew Plummer (C), Kathryn Prosser (C), Diane Rachels (C), Melissa Rosa (C), Chandler Ross (I), John Ryan (C), Gavin Schag (C), Eugene Schweizer (C), Keaton Shennan (I), Hsiao-chien Shih (C), Holly Smit (C), Thomas Smith (I), Rachel Snavelly (C), Emanuel Storey (C), Rick Sturm (C), Timothy Tidwell (C), Sory Toure (C), Yu Hsin Tsai (C), David Van Mouwerik (C), Kelsey Warkentin (C), Christopher Webb (C), Richard Weiler (C), Sally Westmoreland (C), Jenny Williams (C), Elizabeth Witzum (C), Jeff Yen (C), Noah Young (I).

Second Member (39)

Andres Abeyta (C), Jason Allen (C), Lisa Baer Wynn (C), Magdalena Benza-Fiocco (C), William Boynton (C), Anders Burvall (C), Lloyd Coulter (C), Dean Daniels (C), Heather Davis (C), Katy Dalton (C), Derren Duburguet (C), Ryan Engstrom (C), Jeff Fleming (C), Lynn Ford (C), Grant Fraley (C), Clint Garrison (C), Liang Guo (C), Nao Hisakawa (C), Joel Kramer (C), John Kimball (C), Kathryn Kozcot (C), Rasmus Larsen (C), Rebecca Leshner (C), Thomas McDowell (C), David McKinsey (C), Christine McMichael (C), Keith Pence (C), Meaghan Salinas (C), Ian Schmidt (C), Dawn Service (C), Timothy Schempp (I), David Shaari (C), Joseph Shandley (C), Debbie Turner (C), Milo Vejraska (C), Weidong Wang (C), Shannon Webber (C), Zachary Werner (C).

Third Member (31)

Joseph Adler - Geological Sciences (C), Alex Boisvert - Geological Sciences (C), Kathryn Boyer - Biology (C), Julie Desmond - Biology (C), Swati Dua – Elect. Eng. (C), Stacie Fetjek – Biology (C), Geoffrey Galvin - Geological Sciences (C), Lawrence Gurrola - Geological Sciences (C), Charles Hauser - Geological Sciences (C), Isabelle Kay - Biology (C), Leigh Klatsky - Biology (C), Wendy Kozlowsky – Biology (C), Danielle Lipski - Biology (C), Bernard Loveless – Elect. Eng. (C), Thien Mai - Biology (C), David Mark - Geological Sciences (C), Jean Meltzer - Physical Education (C), Kevin O'Connor – Biology (C), Lorraine Parsons - Biology (C), Jessica Plein - Biology (C), Azeem Rahman - Biology (C), Christopher Ross - Geological Sciences (C), Susan Rutherford - Biology (C), Martha Shaw - Geological Sciences (C), Linnea Spears - Biology (C), Gregson Taylor - Geological Sciences (C), Emma Tomaszewski - Biology (C), Brendon Walker – Geological Sciences (C), Donald Wells - Geological Sciences (C), Dustin Wood - Biology (C), Jinhong Zhou - Civil Engineering (C).

Senior Theses (2):

Shawn Burkhart (C), Shelly Evans (C).

Ph.D. Dissertations Supervised (completed):

1. Chen, Dongmei. 2001. Multi-resolution Image Analysis and Classification for Improving Urban Land Use/Cover Mapping Using High Resolution Imagery.

2. Freeman, Mary Pyott 2012. An Analysis of Tree Mortality Using High Resolution Remotely-Sensed Data for Mixed-Conifer Forests in San Diego County.
3. Hamada, Yuki. 2010. Characterizing Conditions of California Sage Scrub Communities in Mediterranean-Type Ecosystems Using Remote Sensing.
4. Lippitt, Caitlin. 2013. Remote-Sensing Based Characterization of Herbaceous Vegetation in California Shrublands.
5. Lippitt, Christopher. 2012. Time Sensitive Remote Sensing.
6. Phinn, Stuart. 1997. Remote Sensing and Spatial-Analytic Techniques for Monitoring Landscape Structure in Disturbed and Restored Coastal Environments.
7. Shih, Hsiao-chien. 2020. The Relative Timing of Human Migration and Land Cover and Land Use Change — An Evaluation of Northern Taiwan from 1990 to 2015.
8. Storey, Emanuel. 2019. Uncoupling Impacts of Drought and Short-interval Fire on Southern California Chaparral Using Time-sequential Landsat Imagery.
9. Toure, Sory. 2017. Urban Land Cover and Land Use Change in Ghana: Connections to Demography and Health.
10. Tsai, Yu-Hsin. 2018. Monitoring Forest Cover and Land Use Change in Forest Reserves —Connecting Satellite Imagery to Anthropogenic Impacts.
11. Uyeda, Kellie. 2015. Spatial and Temporal Variation in Biomass Accumulation in Southern California Chaparral.
12. Westmoreland, Sally. 2001. Radiometric Correction of Multisensor Imagery.

M.A. Theses Supervised (completed):

1. Anguelova, Zlatina. 2007. Integrating Fire Behavior and Trafficability Models to Assess Fire Danger to Pedestrians within the San Diego-Mexico Border Zone.
2. Augenstein, Eric. 1989. Evaluation of SPOT/HRV Data for Kelp Inventories
3. Bearden, Patsy. 1988. Use of Satellite Remote Sensing to Determine the Distribution of the Pacific Mackerel (*Scomber Japnicus*) in the Eastern North Pacific.
4. Bennett, John. 1999. The Effect of Topography and Vegetation on Highway traffic Noise: An Investigation of Sound Levels in the Alvarado Canyon Transit Corridor of San Diego.
5. Blodgett, Nell. 2007. Investigating the Relationship Between Post-Fire Remnant Vegetation, Fire Behavior, and Fuel Age in Southern California Shrublands.
6. Bradshaw, Brian. 1997. Integrating High Resolution Digital Imagery and Digital Terrain Data for Mapping Restored Salt Marsh Habitat.

7. Brewster, Alice. 1996. Utilizing Geographic Technologies to Analyze the Nesting Habitat Preferences of the Belding's Savannah Sparrow
8. Burns, Blake. 1989. Spectral Reflectance and Spatial Characterization on Arctic Tundra Albedo in Northern Alaska.
9. Caldwell, Michael, 2011. Semi-automated Trail Delineation Based on Aerial Lidar and High Resolution Digital Imagery.
10. Cao, Lina. 2004. Updating Maps of Undocumented Immigrant Trails Along the U.S.-Mexico border Using Airborne Digital Multispectral Imagery.
11. Chason, Caitlin. 2007. Examining the Influence of Short-interval Fire Occurrence on Post-fire Recovery Patterns in Chamise Chaparral.
12. Chavis, Christopher, 2015. Assessing the Accuracy and Repeatability of Automated Photogrammetrically Generated Digital Surface Models from Unmanned Aerial System Imagery.
13. Collins, Doretta. 1991. Determining Land Use Change Through an Integration of Remote Sensing and GIS Technologies.
14. Contreras, Kevin. 2000. The Effects of Wildfire Suppression on Vegetation Type and Patch Pattern in Central Coastal California.
15. Cooper, Lauren. 2003. Testing Very-Low Altitude Digital Imaging for High Resolution Three-Dimensional Modeling.
16. Duncan, Jeff. 1991. Assessing the Relationship Between Spectral Vegetation Indices and Proportional Shrub Cover in Semiarid Environments.
17. Esraghi, Arman. 1995. An Evaluation of ADAR Image Based Methods for Estimating Cover Composition of Major Plant Forms in Restored Riparian Habitats
18. Fitch, Dillon. 2008. The link Between MODIS Vegetation Metrics and Hydrological Response Variables for Watersheds in Mediterranean-type Climate Zones
19. Greer, Keith. 2001. Vegetation Type Conversion in Los Penasquitos Lagoon: An Examination of the Role of Watershed Urbanization
20. Hamada, Yuki. 2005. Detecting Invasive Plant Species in Riparian Habitats of Southern California Using Airborne Hyperspectral Remote Sensing.
21. Hudak, Heidi. 2002. Assessing the Utility of High Resolution Airborne Digital Imagery to Map Benthic Cover for Shallow Waters of St. Vincent and the Grenadines.
22. Kerr, Andrew, 2017. Optimizing Radiometric Fidelity to Enhance Aerial Image Change Detection Utilizing Digital Single Lens Reflex (DSLR) Cameras.

23. Lamantia-Bishop, Jeff. 2010. Hurricane Emergency Response: Detecting Residential Damage Using Object Based Image Analysis.
24. Lathrop, Steve. 2010. Updating Maps of Foot Trail Networks for the US-Mexico Border Zone Using Semi-automatic Feature Extraction Methods and Very High Resolution Remotely Sensed Imagery.
25. Langevin, Chris. 2001. A Neutral Network Approach for Remote Sensing-based Change Detection and Identification: Map-updating in a Dynamic Urban Landscape in Southern California.
26. Lieberman, Anna. 2004. Mapping Fire Effects in Southern California Mediterranean Vegetation Using Remote Sensing Data.
27. Longmire, Pauline. 2001. Use of Very High Spatial Resolution Remotely Sensed Imagery for Assessment of Land Cover Change in the Coastal Shrubland Vegetation of Southern California
28. Lowenfish, Martin. 2003. Using Remote Sensing and Landscape Metrics to Predict the Health of a Semi-Arid Wyoming Rangeland.
29. Miles, Martin. 1990. Incorporating Spatially Varying Parameters Methods Into Remote Sensing Based Water Quality Statistical Modeling.
30. Miller, Betsy, 2005. Detection and Delineation of Vernal Pools Using High Resolution, Multispectral Digital Imagery.
31. Mirka, Blair, 2020. Evaluation of Thermal Infrared Imaging from Unmanned Aerial Vehicles for Arboreal Wildlife Surveillance.
32. Narasimhan, Raghuram, 2009. The Utility of Daily MODIS Products for Analyzing Early Season Vegetation Dynamics within the North Slope of Alaska.
33. Nathanson, Joel. 1992. The Effectiveness of Generating Regional-Scale Land Use GIS Layers from Remotely Sense Data.
34. Nyden, Bruce. 2001. Multi-Temporal Change Analysis of a Southern California Salt Marsh Using Airborne Digital Imagery
35. Petersen, Aaron. 2004. Interannual Arctic Tundra Vegetation Productivity Trends Estimated Using AVHRR-NDVI Datasets with Different Spatial Sampling Schemes.
36. Peterson, Seth. 2000. Using a Multiple Endmember Linear Mixture Model to Study Chaparral Regrowth on MCAS Miramar.
37. Plummer, Mathew. 2018. The Effect of Shadow Removal on the Co-registration Accuracy of Aerial Image Pairs
38. Pray, Heather. 1997. How Sensitive is Environmentally Sensitive Lands Mapping?
39. Prosser, Kathryn. 1995. An Analysis of Image Processing Techniques for Regional Vegetation Mapping in Coastal Southern California.

40. Rosa, Melissa. 2009. Mapping Fuels at the Wildland-Urban Interface for Wildfire Modeling Using Color Ortho-Images and LiDAR Data.
41. Rachels, Diane 2013. Comparison of Chaparral Re-growth Patterns between Santa Ana Wind-Driven and Non-Santa Ana Fire Areas.
42. Ryan, John. 2003. The Human Tide: An Assessment of Procedures for Estimating Daily Peak Beach Attendance.
43. Schag, Gavin. 2020. Evaluating Landscape-level Controls of Wildfire Spread Rates Using Repetitive Airborne Thermal Infrared Imagery
44. Schweizer, Eugene, 2017. Automating Near Real-Time, Post-Hazard Detection of Crack Damage to Critical Infrastructure.
45. Shih, Hsiao-chien. 2015. Determining the Type and Starting Time of Land Cover and Land Use Change in Ghana Based on Discrete Analysis of Dense Landsat Image Time Series.
46. Smit, Holly. 2001. Remote Sensing of Deforestation in the Mosquitia Region of Honduras.
47. Snavely, Rachel. 2017. Mapping Vegetation Community Types in a Highly-disturbed Landscape: Integrating Hierarchical Object-based Image Analysis with Digital Surface Models.
48. Storey, Emanuel. 2015. Postfire Regrowth Trajectories of Chamise Chaparral Based on Multi-temporal Landsat Imagery.
49. Sturm, Richard. 1991. Mapping of Pleistocene-Age Shoreline in the Seismically-Active Salton Trough Using Remotely Sensed Thermal Infrared Multispectral Scanning (TIMS) Data.
50. Tarnavsky, Elena. 2003. Spatial and Radiometric Fidelity of High Resolution Airborne Multispectral Imagery in the Context of Land-Cover Change Analyses.
51. Tidwell, Timothy. 2012, Image classification approaches for mapping *Arundo donax* along the San Diego River using high spatial resolution imagery
52. Toure, Sory. 2011. Histogram Curve Matching Approaches for Object-based Image Classification of Land Cover and Land Use.
53. Tsai, Yu-Hsin. 2011. Delineation of New Buildings in Accra, Ghana Using Multitemporal Quickbird Satellite Imagery.
54. Van Mouwerik, David. 1993. Assessing Vegetation Abundance of *Spartina Foliosa* in a Southern California Salt Marsh Using Remote Sensing.
55. Warkentin, Kelsey. 2020. Multi-temporal Fractional Cover Estimation of Shrubs on San Clemente Island.
56. Webb, Christopher. 1989. Inlet Dynamics for Southern California.

57. Weiler, Richard. 1988. Spatial Analysis of Land Use Cover: An Investigation into the Scale and Surface Cover Class Divisions.
58. Westmoreland, Sally. 1990. Use Satellite Imagery and Ancillary Data to Update Vector-Coded Geographic Information System.
59. Williams, Jennifer. 2005. Environmental and Forest Fragmentation Effects on Overwintering Monarch Butterflies in Central Mexico.
60. Witzum, Elizabeth. 2001. Analyzing Direct Impacts of Recreation Activity on Coastal Sage Scrub Habitat with Very High-Resolution Multi-spectral Imagery.
61. Yen, Jeff, 2020. Histogram Curve Matching Approach for Geographic Object-Based Image Change Analysis of Urban Land Use.

Senior Theses

1. Burkhardt, Shawn. 2005. Comparative Analysis of IFAR and Photogrammetrically Derived Digital Elevation Models.
2. Evans, Shelly. 1987. Stream Runoff in Southern California.

Refereed Publications:

1. Stow, D.A. and J.E. Estes, 1981. Landsat and Digital Terrain Data for County-Level Resource Management, *Photogrammetric Engineering and Remote Sensing*, 47(2): 215-222.
2. Estes, J.E., D.A. Stow and J.R. Jensen, 1982. Present and Future Directions for Monitoring Land Use Changes by Remote Sensing Techniques, *Remote Sensing for Resource Management*, J.L. Sanders (ed.), Soil Conservation Society of America.
3. Stow, D.A., 1983. Temporal Analysis section of Manual and Digital Analysis in the Visible and Infrared Regions, Chapter 24, in : J.E. Estes, E.J. Hajic and L.R. Tinney (eds.), *Manual of Remote Sensing*, 2nd ed., Vol. I, Falls Church, VA: American Society of Photogrammetry.
4. Stow, D.A., 1985. Eulerian Velocity Measurements of Hydrodynamic Surfaces Using Optical Flow Methods, *International Journal of Remote Sensing*, 6(12): 1855-1860.
5. Stow, D.A. and H.H. Chang, 1987. Magnitude-Frequency Relationship of Coastal Sand Delivery by a Southern California Stream, *Geo-Marine Letters*, 7(4): 217-222.
6. Stow, D.A., and H.H. Chang, 1987. Coarse Sediment Delivery by Coastal Streams to the Oceanside Littoral Cell, California, Shore and Beach, 55(1): 30-40.
7. Stow, D.A., 1987. Numerical Derivation of a Hydrodynamic Surface Flow Field from Time Sequential Remotely Sensed Data, *Remote Sensing of Environment*, 23(1): 1-22.
8. Stow, D.A., 1987. Remotely Sensed Tracers for Hydrodynamic Surface Flow Estimation, *International Journal of Remote Sensing*, 8(3): 261-278.

9. Stow, D.A., 1988. Remote Sensing and Image Processing Requirements for Eulerian Flow Field Estimation, *International Journal of Remote Sensing*, 9(3):351-364.
10. Chang, H.H. and D.A. Stow, 1988. Sediment Delivery in a Semi-Arid Coastal Stream, *Journal of Hydrology*, 99: 201-214.
11. Stow, D., B. Burns and A. Hope, 1989. Mapping Arctic Tundra Vegetation Types Using Digital SPOT/HRV-XS Data: A Preliminary Assessment, *International Journal of Remote Sensing*, 10(8): 1451-1457.
12. Webb, C.K., D.A. Stow and K. Baron, 1989. Morphologic Response of an Inlet-Barrier Beach System to a Major Storm, *Shore and Beach*, 57(4): 37-40.
13. Chang, H.H. and D.A. Stow, 1989. Mathematical Model of Fluvial Sand Delivery, *Journal of Waterway, Port, Coastal, and Ocean Engineering*, 115(3): 311-326.
14. Stow, D.A. and R.C. Smith, 1989. Coastal and Marine Water Resources section of Remote Sensing chapter, in: *Geography in America*, G.L. Gaile and C. J. Willmott (eds.), Columbus: Merrill Publishing.
15. Stow, D., D. Collins and D. McKinsey, 1990. Land Use Change Detection Based on Multi-date Imagery From Different Satellite Sensor Systems, *Geocarto International*, 5(3): 1-12.
16. Webb, C.K., D.A. Stow and H.H. Chang, 1990. Morphodynamics of Southern California Inlets, *Journal of Coastal Research*, 7(1): 167-187.
17. Augenstein, E., D. Stow and A. Hope, 1991. Kelp Inventories Using SPOT Multi-spectral Data, *Photogrammetric Engineering and Remote Sensing*, 57(5): 501-509.
18. Davis, F., D. Quattrochi, M. Ridd, N. Lam, S. Walsh, J. Michaelsen, J. Franklin, D. Stow, C. Johannsen and C. Johnston, 1991. Environmental Analysis Using Integrated GIS and Remotely Sensed Data: Some Research Needs and Priorities, *Photogrammetric Engineering and Remote Sensing*, 57: 689-697.
19. Weiler, R.A. and D.A. Stow, 1991. Characterizing Spatial Scales of Remotely Sensed Surface Cover Variability, *International Journal of Remote Sensing*, 12(11): 2237-2257.
20. Westmoreland, S. and D.A. Stow, 1992. Category Identification for Changed Land-Use Polygons in Integrated Image Processing/ Geographic Information Systems, *Photogrammetric Engineering and Remote Sensing*, 58: 1593-1599.
21. Hope, A., J. Fleming, D. Stow and E. Aguado, 1992. Characterizing Tussock Tundra Albedo on the North Slope of Alaska, *Journal of Applied Meteorology*, 30(8): 1200-1206.
22. Miles, M.M., D.A. Stow and J.P. Jones III, 1992. Incorporating Spatially-Varying Parameter Methods into Remote Sensing-based Water Equality Modeling, in: *Applications of the Expansion Method*, E. Casetti and J.P. Jones, III (eds.), 279-298, London: Routledge.

23. Stow, D.A., 1992. Shoreline Structures section of Structures and Cultural Features chapter, *in: Manual of Air Photo Interpretation*, W. Philipson (ed.)
24. Stow, D., B. Burns and A. Hope, 1993. Spatial, Spectral and Temporal Characteristics of Arctic Tundra Vegetation, *International Journal of Remote Sensing*, 14: 2445-2462.
25. Stow, D., A. Hope and T. George, 1993. Reflectance Characteristics of Arctic Tundra Vegetation from Aerial Radiometry and Videography, *International Journal of Remote Sensing*, 14: 1239-1244.
26. Stow, D., A. Hope, D. McKinsey, H. Pray, 1993. Deriving Dynamic Information on Fire Fuel Distributions in Southern California Chaparral from Remotely Sensed Data, *Landscape and Urban Planning*, 24: 113-127.
27. Hope, A., J. Kimball and D. Stow, 1993. The Relationship Between Tussock Tundra Spectral Reflectance Properties and Biomass, and Vegetation Composition, *International Journal of Remote Sensing*, 14: 1861-1874.
28. Duncan, J., D. Stow, J. Franklin and A. Hope, 1993. Assessing the Relationship Between Spectral Vegetation Indices and Shrub Cover in the Jornada Basin, New Mexico, *International Journal of Remote Sensing*, 14: 3395-3416.
29. Hope, A. and D. Stow, 1993. An Analysis of Tree Mortality in Southern California Using High Spatial Resolution Remotely Sensed Spectral Radiances: A Climatic Change Scenario. *Landscape and Urban Planning*, 24: 87-94.
30. Zhou, J., H. Chang and D. Stow, 1993. A Model for Phase Lag of Secondary Flow in Rivers, *Journal of Hydrology*, 146: 73-88.
31. Hope, A. and D. Stow, 1995. Shortwave Reflectance Properties of Arctic Tundra, *in: Landscape Function and Disturbance in Arctic Tundra*, J. Reynolds and J. Tenhunen (eds.), Ecological Studies, Vol. 120, Springer-Verlag, Heidelberg.
32. Hope A., J. Fleming, G. Vourlitis, D. Stow, W. Oechel and T. Hack, 1995. Relating CO₂ Fluxes to Spectral Vegetation Indices in Tundra Landscapes: Importance of Footprint Definition, *Polar Record*, 31: 245-250.
33. Stow, D., 1995. Monitoring Ecosystem Response to Global Change: Multitemporal Remote Sensing Analyses, J. Moreno and W. Oechel (ed.s), Ecological Studies, Vol. 117, Springer-Verlag, Heidelberg, 254-286.
34. Phinn, S., D. Stow and J. Zedler, 1996. Monitoring Wetland Habitat Restoration Using Airborne Multi-spectral Image Data in Southern California, *Ecological Applications*, 4: 412-422.
35. Phinn, S., J. Franklin, A. Hope and D. Stow, 1996. Biomass Distribution Mapping Using Airborne Digital Video Imagery and Spatial Statistics in a Semi-arid Environment, *Journal of Environmental Management*, 47: 139-164.

36. Phinn, S. and D. Stow, 1996. Use of Remote Sensing to Monitor Vegetation Properties, in: *Restoring Tidal Wetlands: A Scientific Perspective and Southern California Focus*, J. Zedler, (Ed.) La Jolla, California: California Sea Grant College, pp. 88-98.
37. Parrott, R., S. Carnevale, and D. Stow, 1996. Updating Vector Land Use Inventories Using Multi-date Satellite Imagery, in *Raster Imagery in Geographic Information Systems*, S. Morain and S Lopez Baros (eds.), Onward Press, Santa Fe, N.M., pp. 313-321.
38. Stow, D., A. Hope, A. Nguyen, S. Phinn and C. Benkelman, 1996. Monitoring Detailed Land Surface Changes from an Airborne Multispectral Digital Camera System, *IEEE Transactions on Geoscience and Remote Sensing*, 34: 1191-1202.
39. Stow, D., D. Chen, and R. Parrott, 1996. Enhancement, Identification, and Quantification of Land Cover Change, in *Raster Imagery in Geographic Information Systems*, S. Morain and S Lopez Baros (eds.), Onward Press, Santa Fe, N.M., pp. 307-312.
40. Sturm, R., D. Stow and T. Rockwell, 1996. Mapping Pleistocene Shorelines with Thermal Infrared Multispectral Scanner Data in the Seismically-active Salton Trough, *International Journal of Remote Sensing*, 17: 553-575.
41. McMichael, C.E., A.S. Hope, D.A. Stow, and J.B. Fleming, 1997. The Relation Between Active Layer Depth and a Spectral Vegetation Index in Arctic Tundra Landscapes of the North Slope of Alaska, *International Journal of Remote Sensing*, 18: 2371-2382.
42. Stow, D., A. Hope, W. Boynton, S. Phinn, D. Walker and N. Auerbach, 1998. Satellite-Derived Vegetation Index and Cover Type Maps for Estimating CO2 Flux for Arctic Tundra Regions, *Geomorphology*, 21: 313-327.
43. Coulter, L., D. Stow, B. Kiracofe, C. Langevin, D. Chen, S. Daeschner, D. Service, and J. Kaiser, 1999. Deriving Current Land Use Information for Metropolitan Transportation Planning Through Integration of Remotely Sensed Data and Data Layers in Geographic Information Systems, *Photogrammetric Engineering and Remote Sensing*, 65: 1293-1300.
44. Stow, D., 1999. Reducing Misregistration Effects for Pixel-level Analysis of Landcover Change, *Remote Sensing Letters - International Journal of Remote Sensing*, 20: 2477-2483.
45. Stow, D., S. Daeschner, W. Boynton, and A. Hope, 1999. Arctic Tundra Functional Types by Classification of Single Date and AVHRR Bi-weekly NDVI Composite Data Sets, *International Journal of Remote Sensing*, 21: 1773-1779.
46. Hope, A., K. Pence, and D. Stow, 1999. Response of the Normalized Difference Vegetation Index to Varying Cloud Conditions in Arctic Tundra Environments, *International Journal of Remote Sensing*, 20: 207-212.
47. Hope, A., L. Coulter, and D. Stow, 1999. Estimating Lake Area in an Arctic Landscape Using Linear Mixture Modelling with AVHRR Data, *International Journal of Remote Sensing*, 20: 829-835.

48. McMichael, C., A. Hope, D. Stow, J. Fleming, G. Vourlitis and W. Oechel, 1999. Estimating CO₂ Exchange in Arctic Tundra Ecosystems Using a Spectral Vegetation Index, *International Journal of Remote Sensing*, 20: 683-698.
49. Phinn, S., D. Stow, and D. Van Mouwerik, 1999. Remotely Sensed Estimates of Vegetation Structural Characteristics in Restored Wetlands, Southern California, *Photogrammetric Engineering and Remote Sensing*, 65: 485-493.
50. Coulter, L., D. Stow, J. O'Leary, A. Hope, P. Longmire and S. Peterson, 2000. Comparison of High Spatial Resolution Imagery for Efficient Generation of GIS Vegetation Layers, *Photogrammetric Engineering & Remote Sensing*, 66: 1329-1335.
51. Oechel, W., G. Vourlitis, J. Verfaillie, Jr., T. Crawford, S. Brooks, E. Dumas, A. Hope, D. Stow, B. Boynton, V. Nosov, and R. Zulueta, 2000. A Scaling Approach for Quantifying the Net CO₂ Flux of the Kuparuk River Basin, Alaska, *Global Change Biology*, 6: 1-14.
52. Stow, D., A. Hope, D. Richardson, D. Chen, C. Garrison, and D. Service, 2000. Potential of Colour-Infrared Digital Camera Imagery for Inventory and Mapping of Alien Plant Invasions in South African Shrublands, *International Journal of Remote Sensing*, 21: 2965-2970.
53. Vourlitis G., W. Oechel, A. Hope, D. Stow, W. Boynton, J. Verfaillie, Jr., R. Zulueta, and S. Hastings, 2000. Physiological Models for Scaling Plot Measurements of CO₂ Flux Across an Arctic Tundra Landscape, *Ecological Applications*, 10: 60-72.
54. Chen, D., D. Stow, J. Kaiser, and S. Daeschner, 2001. Detecting and Enumerating New Building Structures Utilizing Very-high Resolution Image Data and Image Processing, *Geocarto International*, 16: 69-81.
55. Longmire, P. and D. Stow, 2001. Use of Very High Spatial Resolution Remotely Sensed Imagery for Assessing Land-Cover Changes in Shrub Habitat Preserves of Southern California, *Geocarto International*, 16: 47-57.
56. Means, J., P. Hopkins, J. Jensen, S. Schill, J. Chipman, R. Ramsey, and D. Stow, 2001. ARC Partnerships: Industry and Academia Explore Remote Sensing Applications, *Journal of Forestry*, 99: 4-12.
57. Stow, D, A. Brewster, and B. Bradshaw, 2001. The Utilization of Airborne Digital Multispectral Camera Dynamics and Kinematic Global Positioning Systems for Assessing and Monitoring Salt Marsh Habitats in Southern California, in *GIS and Remote Sensing Applications in Biogeography and Biology*. Kluwer, A. Millington, S. Walsh, and P. Osborne, eds., Kluwer Academic Publishers, Norwell, Mass., 23-45.
58. Chen, D. and D. Stow, 2002. The Effect of Training Strategies on Supervised Classification at Different Spatial Resolutions, *Photogrammetric Engineering & Remote Sensing*, 68: 1155-1161.
59. Chen, D. and D. Stow, 2002. Multi-resolution classification framework for improving land use/cover mapping, chapter in *Remote Sensing and GIS Applications for Linking People, Place, and Policy*, Kluwer Academic Press, eds. S. Walsh and K. Crews-Meyer, pp 236-261.

60. Engstrom, R., A. Hope, D. Stow, G. Vourlitis, and W. Oechel, 2002. Co-variability of the Priestly-Taylor Alpha Coefficient and Regional NDVI in Arctic Landscapes. *Journal of the American Water Resources Association*, 38: 1647-1659.
61. Stow, D. and D. Chen, 2002. Sensitivity of Multitemporal NOAA-AVHRR Data for Detecting Land Cover Changes, *Remote Sensing of Environment*, 80: 297-307.
62. Chen, D. and D. Stow, 2003. Strategies for Integrating Information from Multiple Spatial Resolutions Into Land Use/Cover Classification Routines, *Photogrammetric Engineering & Remote Sensing*, 69: 1279-1287.
63. Coulter, L., D. Stow, and S. Baer, 2003. A Frame Center Matching Technique for Precise Registration of Multitemporal Airborne Frame Imagery: Methods and Software Approaches. *IEEE Transactions of Geoscience and Remote Sensing*, 41: 2436-2444.
64. Greer, K. and D. Stow, 2003. Vegetation Type Conversion in Los Penasquitos Lagoon, California: An Examination of the Role of Watershed Urbanization, *Environmental Management*, 31: 489-503.
65. Hope, A., W. Boynton, D. Stow, and D. Douglas, 2003. NOAA-AVHRR Estimates of Vegetation Production for Three Arctic Tundra Ecosystems, 1989 to 1996. *International Journal of Remote Sensing*, 24: 3413-3425.
66. LeDizes, S., B.L. Kwiatkowski, E.B. Rastetter, A.S. Hope, J.E. Hobbie, and D. Stow, 2003. Modeling Biogeochemical Responses of Tundra Ecosystems to Temporal and Spatial Variations in Climate in the Kuparuk River Basin (Alaska). *Journal of Geophysical Research*, 108(D2): ALT6 1-20.
67. Peterson, S. and D. Stow, 2003. Using a Multiple Endmember Linear Mixture Model to Study Chaparral Regrowth, *International Journal of Remote Sensing*, 24: 4481 – 4504.
68. Phinn, S., D. Stow, J. Franklin, L. Mertes, and J. Michaelsen, 2003. Remotely Sensed Data for Ecosystem Analyses: Combining Hierarchy Theory and Scene Models, *Environmental Management*, 31: 429–441.
69. Rogan, J., J. Miller, D. Stow, J. Franklin, L. Levien, and C. Fischer, 2003. Land Cover Change Monitoring in Southern California Using Multitemporal Landsat TM and Ancillary Data, *Photogrammetric Engineering & Remote Sensing*, 69: 793-804.
70. Stow, D., L. Coulter, and Sebastian Baer, 2003. Frame Center Matching Approach to Registration for Change Detection, *International Journal of Remote Sensing*, 24: 3873-3879.
71. Stow, D., A. Hope, L. Coulter, J. Kaiser, D. Service, S. Redlin, K. Schutte and A. Walters, 2003. Image-based Mapping of Irrigated Vegetation in Urban Environment, *Photogrammetric Engineering & Remote Sensing*, 69: 381-290.
72. Stow, D., S. Daeschner, A. Hope, D. Douglas, A. Petersen, R. Myneni, L. Zhou, and W. Oechel, 2003. Variability of the Seasonally Integrated Normalized Difference Vegetation Index Across the North Slope of Alaska in the 1990s, *International Journal of Remote Sensing*, 24: 1111-1117.

73. Vourlitis, G., J. Verfaillie, Jr., W. Oechel, A. Hope, D. Stow, and R. Engstrom, 2003. Spatial variation in regional CO₂ exchange for the Kuparuk River Basin, Alaska over the summer growing season, *Global Change Biology*, 9:1-12.
74. Tsou, M.H., L. Guo, and D. Stow, 2003. Web-based Remote Sensing Applications and Java Tools for Environmental Monitoring, *Journal of Space Communication*, 3: <http://satjournal.tcom.ohiou.edu/issue03/applications.html>.
75. Chen, D., D. Stow, and P. Gong, 2004. Examining the Effect of Spatial Resolution on Classification Accuracy: An Urban Environmental Case, *International Journal of Remote Sensing*, 25: 2177-2192.
76. Kaiser, J. D. Stow, L. Cao, and L. Coulter, 2004. Evaluation of Remote Sensing Technologies for Mapping Trans-border Trails, *Photogrammetric Engineering & Remote Sensing*, 70: 1441-1447.
77. Langevin, C. and D. Stow, 2004. Identifying Change in a Dynamic Urban Landscape: A Neural Network Approach to Map Updating, *Progress In Planning*, 61:327-348.
78. Lulla, K., Warner, T.A., M.D. Nellis, and D. A. Stow, 2004. Remote Sensing, Geospatial Analysis, and Geographers at the Centennial of the Association of American Geographers, *Geocarto International*, 19: 5-12.
79. Stow, D., L. Coulter, A. Johnson, and A. Petersen, 2004. Monitoring Detailed Land-Cover Changes in Shrubland Habitat Reserves Using Multi-temporal IKONOS Data, *Geocarto International*, 19: 95-102.
80. Stow, D., A. Hope, D. McGuire, D. Verbyla, J. Gamon, K. Huemmrich, S. Houston, C. Racine, M. Sturm, K. Tape, K. Yoshikawa, L. Hinzman, C. Tweedie, B. Noyle, C. Silapaswan, D. Douglas, B. Griffith G. Jia, H. Epstein, D. Walker, S. Daeschner, A. Petersen, L. Zhou, and R. Myneni, 2004. Remote sensing of vegetation and land-cover changes in Arctic tundra ecosystems, *Remote Sensing of Environment*, 89: 281-308.
81. Tarnavsky, E., D. Stow, L. Coulter, and A. Hope, 2004. Spatial and Radiometric Fidelity of Airborne Multispectral Imagery in the Context of Land-cover Change Analyses, *GIScience and Remote Sensing*, 41: 62-80.
82. Warner, T.A., M.D. Nellis, D. A. Stow, , and K. Lulla, 2004. From the Co-editors of this Special Issue of *Geocarto International* Celebrating the Centennial of the Association of American Geographers (AAG), *Geocarto International*, 19: 3-4.
83. Witzum, E. and D. Stow, 2004. Analyzing Direct Impacts of Recreation Activity on Coastal Sage Scrub Habitat with Very High-Resolution Multi-spectral Imagery, *International Journal of Remote Sensing*, 25: 3477 – 3496.
84. Hope, A., R. Engstrom, and D. Stow, 2005. Relationship Between AVHRR Surface Temperature and NDVI In Arctic Tundra Ecosystems, *International Journal of Remote Sensing*, 26: 1771-1776.
85. Hinzman, L. N. Bettez, F. S. Chapin, M. Dyurgerov, C. Fastie, B. Griffith, B. Hollister, A. Hope, H. P. Huntington, A. Jensen, D. Kane, G. Kofinas, A. Lynch, A. Lloyd, A. D. McGuire, F. Nelson, T. Osterkamp, W. Oechel, C. Racine, V. Romanovsky, J. Schimel, D. Stow, M. Sturm, C. Tweedie, G.

- Vourlitis, M. Walker, P. Webber, J. Welker, K. Winker, and K. Yoshikawa, K. 2005. Evidence and Implications of Recent Climate Change in Terrestrial Regions of the Arctic, *Climate Change*, 72: 251-298.
86. Engstrom, R., A. Hope, H. Kwon, D. Stow, and D. Zamolodchikov, 2005. Spatial Distribution of Near Surface Soil Moisture and its Relationship to Microtopography in the Alaskan Arctic Coastal Plain, *Nordic Hydrology*, 36: 219-234.
87. Rashed, T., J. Weeks, D. Stow, and D. Fugate, 2005. Measuring Temporal Compositions of Urban Morphology through Spectral Mixture Analysis: Toward a Soft Approach to Change Analysis in Crowded Cities, *International Journal of Remote Sensing*, 26: 699-718.
88. Stow, D, J. Kaiser, J., and M. Niphadkar, 2005. MODIS-derived Visible Atmospheric Resistant Index for monitoring chaparral moisture content, *International Journal of Remote Sensing*, 26: 3867-3873.
89. Stow, D., M. Niphadkar, and J. Kaiser, 2006. Time Series of Chaparral Live Fuel Moisture Maps Derived from MODIS Satellite Data, *International Journal of Wildland Fire*, 15: 347-360.
90. Weeks, J., A. Hill, A. Getis, and D. Stow, 2006. Ethnic Residential Patterns as Predictors of Intra-Urban Child Mortality Inequality in Accra, Ghana, *Urban Geography*, 27: 526-548.
91. Cao, L., D. Stow, J. Kaiser, and L. Coulter, 2007. Monitoring Cross-border Trails Using Airborne Digital Multispectral Imagery and Interactive Image Analysis Techniques, *Geocarto International*, 22:107-125.
92. Hamada, Y., D. Stow, L. Coulter, J. Jafolla, and L. Hendricks, 2007. Mapping Tamarisk Species (*Tamarix* spp.) in Riparian Habitats of Southern California Using High Spatial Resolution Hyperspectral Imagery, *Remote Sensing of Environment*, 109: 237-248.
93. Stow, D., A. Petersen, J. Rogan, and J. Franklin, 2007. Mapping Burn Severity of Mediterranean Type Vegetation Using Satellite Multispectral Data, *GIScience and Remote Sensing*, 44: 1-23.
94. Stow, D., A. Petersen, A. Hope, R., Engstrom, and L. Coulter, 2007. Greenness Trends of Arctic Tundra Vegetation in the 1990s: Comparison of Two Normalized Difference Vegetation Index Data Sets from NOAA Advanced Very High Resolution Radiometer Systems, *International Journal of Remote Sensing*, 28: 4007-4822.
95. Stow, D. and M. Niphadkar, 2007. Stability, Normalization and Accuracy of MODIS-derived Estimates of Live Fuel Moisture for Southern California Chaparral, *International Journal of Remote Sensing*, 28: 5175-5182.
96. Stow, D., A. Lopez, C. Lippitt, S. Hinton, and J. Weeks, 2007. Object-based classification of residential land use within Accra, Ghana based on QuickBird satellite data, *International Journal of Remote Sensing*, 28: 5167-5173.
97. Weeks, J. A. Hill, D. Stow, A. Getis, and D. Fugate, 2007. Can We Spot a Neighborhood From the Air? Defining neighborhood structure in Accra, Ghana, *GeoJournal*, 69:9-22.

98. Williams, J., D. Stow, and L. Brower, 2007. The Influence of Forest Fragmentation on the Location of Overwintering Monarch Butterflies in Central Mexico, *Journal of the Lepidopterist's Society*, 61: 90-104.
99. Coulter, L. and D. Stow, 2008. Assessment of the Spatial Co-registration of Multitemporal Imagery from Large Format Digital Cameras in the Context of Detailed Change Detection, *Sensors*, 8, 2161-2173.
100. Engstrom, R., A. Hope, H. Kwon, and D. Stow, 2008. The Relationship Between Soil Moisture and NDVI for the Coastal Plain of Alaska, *Physical Geography*. 29: 38-53.
101. Rogan, J., J. Franklin, D. Stow, J. Miller, C. E. Woodcock and D. A. Roberts, 2008. Mapping land cover modifications over large areas: A comparison of machine learning algorithms, *Remote Sensing of Environment*, 112: 2272-2283.
102. Stow, D., Y. Hamada, L. Coulter, and Z. Anguelova, 2008. Monitoring shrubland habitat changes through object-based change identification with airborne multi-spectral imagery, *Remote Sensing of Environment*. 112: 1051-1061.
103. Coulter, L. D. Stow, Z. Anguelova, and Y. Hamada, 2009, Monitoring Habitat Preserves in Southern California Using High Spatial Resolution Multispectral Imagery, *Environmental Monitoring and Management*, 152: 343–356.
104. Stow D., L. Coulter, and C. Benkleman, 2009. Airborne Digital Multispectral Imaging Sensors, chapter in *Handbook of Remote Sensing*, T. Warner, G. Foody, D. Nellis, eds., Sage., Ch. 11, pp. 151-165.
105. Stow, D., 2009. Geographic Object-Based Image Change Analysis, in *Handbook of Spatial Analysis*, M. Fischer and A. Getis, eds., Springer, Berlin, chapter D.3.
106. Anguelova, Z., D. Stow, J. Kaiser, P. Dennison, and T. Cova, 2010. Integrating Fire Behavior and Trafficability Models to Assess Fire Danger to Pedestrian Within the San Diego-Mexico Border Zone, *Professional Geographer*, 62: 230-247.
107. Blodgett, N., D. Stow, J. Franklin, and A. Hope, 2010. Inferring Behavior of the Catastrophic Cedar Fire from Remotely Sensed Distributions of Unburned Vegetation. *International Journal of Wildland Fire*, 19:415-426.
108. Fitch, D., Stow, D., Hope, A. and Rey, S., 2010. MODIS Vegetation Metrics as Indicators of Hydrological Response in Watersheds of California Mediterranean-type Climate Zones. *Remote Sensing of Environment*, 114: 2513-2523.
109. Fugate, D., E. Tarnavsky, and D. Stow, 2010. A Survey of the Evolution of Remote Sensing Imaging Systems and Urban Remote Sensing Applications, chapter in Remote Sensing of Urban and Suburban Areas, T. Rashed and C. Juergens, eds., Springer, Ch.7, pp. 119-139.
110. Hamada, Y., D. Stow, and J. Franklin, 2010. Quantifying Biological Integrity of California Sage Scrub Communities Using Plant Life-form Cover. *Journal of Mediterranean Ecology*, 10: 19-32.

111. Lathrop, S., D. Stow, 2010. Updating Maps of Foot Trail Networks for the US-Mexico Border Zone Using Semi-automatic Feature Extraction Methods and Very High Resolution Remotely Sensed Imagery. *Journal of Spatial Science*, 55: 81-100.
112. Narasimhan, R. and D. Stow, 2010. Daily MODIS Products for Analyzing Early Season Vegetation Dynamics across the North Slope of Alaska. *Remote Sensing of Environment*, 114: 1251-1262.
113. Stow, D., 2010, Remote Sensing as a Primary Data Source for Geographic Research, chapter in *Research Methods in Geography*, B. Gomez and J.P. Jones, eds., Wiley-Blackwell, Ch. 10, pp. 155-172.
114. Stow, D., C. Lippitt, and J. Weeks, 2010. Geographic Object-based Delineation of Neighborhoods of Accra, Ghana Using QuickBird Satellite Imagery. *Photogrammetric Engineering & Remote Sensing*, 76: 907-914.
115. Coulter, L., A. Hope and D. Stow, 2011. Time-Space Radiometric Normalization of TM/ETM Scenes for Land-Cover Change Detection, *International Journal of Remote Sensing*, 32: 7539-7556.
116. Hamada, Y, D. Stow, and D. Roberts, 2011. Estimating Life-form Cover Fractions Within California Sage Scrub Communities Using Remote Sensing. *Remote Sensing of Environment*. 115: 3056-3068.
117. Tsai, Y-H, D. Stow, and J. Weeks, 2011 Delineation of New Buildings in Accra, Ghana Using Multi-temporal QuickBird Satellite Imagery, *Remote Sensing*, 3: 1-x manuscripts; doi:10.3390/rs30x000x
118. Lippitt, C., L. Coulter, J. Lamantia-Bishop, M. Freeman, W. Pang, and D. Stow, 2012. The Effect of Input Data Transformations on Object-based Image Analysis, *Remote Sensing Letters*, 3(1): 21-29.
119. Stow, D., S. Toure, C.L. Lippitt, C.D. Lippitt, and C.-R. Lee, 2012. Frequency Distribution Signatures and Classification of Within-object Pixels, *International Journal of Applied Earth Observation and Geoinformation*, 15: 49-56.
120. Hamada, Y. D. Stow, D. Roberts, J. Franklin and P. Kyrakidis, 2013. Assessing and Monitoring Semi-arid Shrublands Using Object-based Image Analysis and Multiple Endmember Spectral Mixture Analysis, *Environmental Monitoring and Assessment*, 185: 3173.
121. Lippitt, C.D., D. Stow S. Toure and M. Vejraska, 2013. Mapping Neighborhoods From Earth Observation Satellites, chapter in J. Weeks and J. Stoler, Eds., pp. 57-72.
122. Lippitt C.L., D. Stow, J. O'Leary and J. Franklin, 2013. Examining the Influence of Short-interval Fire Occurrence on Post-fire Recovery of Chamise Chaparral, *International Journal of Wildland Fires*. 22: 184–193.
123. Rosa, M. and D. Stow, 2013. Mapping Fuels at the Wildland-Urban Interface Using Color Ortho-Images and LiDAR Data, *Geocarto International*, 29: 570-588.

124. Stoler, J., D. Daniels, J. Weeks, D. Stow, L. Coulter and B. Finch, 2013. Assessing the Utility of Satellite Imagery with Differing Spatial Resolutions for Deriving Proxy Measures of Slum Presence in Accra, Ghana, *GIScience & Remote Sensing*, 49: 31-52.
125. Stow, D., J. Weeks, S. Toure, C. Lippitt, L. Coulter and E. Ashcroft, 2013. Urban Vegetation Cover and Change in Accra, Ghana: Connection to Quality of Life, *Professional Geographer*, 65: 451-465.
126. Toure, S., D. Stow, J. Weeks, and S. Kumar, 2013. Histogram Curve Matching Approaches for Object-Based Image Classification of Land Cover and Land Use, *Photogrammetric Engineering and Remote Sensing*. 79: 433-440.
127. Weeks, J., A. Getis, D. Stow, A.G. Hill, D. Rain, R. Engstrom, J. Stoler, C. Lippitt, M. Jankowska, A. C. Lopez-Carr, L. Coulter and C. Ofiesh, 2013. Connecting the Dots Between Health, Poverty and Place in Accra, Ghana. *Annals Association of American Geographers*, 102: 932-941.
128. Lippitt, C.D. D. Stow and K. Clarke, 2014. On the Nature of Models for Time-sensitive Remote Sensing. *International Journal of Remote Sensing*. 35: 6815-6841.
129. Stow, D., Y. Tsai, L. Coulter and C. Lippitt, 2014. Detecting and Measuring Moving Objects with Airborne Repeat Station Imaging in Rapid Succession Mode, *Remote Sensing Letters*, 5: 213-220.
130. Stow, D., P. Riggan, E. Storey and L. Coulter, 2014. Measuring Fire Spread Rates from Repeat Pass Airborne Thermal Infrared Imagery, *Remote Sensing Letters*, 5: 803-812.
131. Stow, D., H. Shih and L. Coulter, 2014. Discrete Classification Approach to Land Cover and Land Use Change Identification Based on Landsat Image Time Series: Initial Results for a Ghanaian Study Area, *Remote Sensing Letters*, 5: 922-931.
132. Coulter, L., D. Stow, C.D. Lippitt and G. Fraley, 2015. Repeat Station Imaging for Rapid Airborne Change Detection, book chapter in *Time Sensitive Remote Sensing*, Springer-Verlag, pp. 29-43.
133. Lippitt, C.D. D. Stow and L. Coulter, 2015. *Time Sensitive Remote Sensing*, Springer-Verlag, 298 pp.
134. Lippitt, C.D. and D. Stow, 2015. Remote Sensing Theory and Time-Sensitive Information Requirements, book chapter in *Time Sensitive Remote Sensing*, Springer-Verlag, pp. 1-9.
135. Stow, D., C.D. Lippitt, L. Coulter and B. Davis, 2015. Time Sensitive Remote Sensing Systems for Post-Hazard Damage Assessment, book chapter in *Time Sensitive Remote Sensing*, Springer-Verlag, pp. 13-28.
136. Toure, S., D. Stow, L. Coulter, A. Sanborn, D. López-Carr, 2015. Land Cover/Land Use Change Analysis using Multi-spatial Resolution Data and Object-based Image Analysis. *Plurimondi. An International Forum for Research and Debate on Human Settlements Special Issue: Proceedings of The XIX European Colloquium in Theoretical and Quantitative Geography (ECTQG2015)*, 7: 1-5.
137. Uyeda, K., D. Stow and P. Riggan, 2015. Tracking MODIS NDVI Time Series to Estimate Fuel Accumulation, *Remote Sensing Letters*, 6: 587-596.

138. Benza, M., J. Weeks, D. Stow, D. López-Carr and K. Clarke, 2016. Pattern Based Definition of the Urban Context using Remote Sensing and GIS: A Case Study in West Africa, *Remote Sensing of Environment*. 183: 250-264.
139. Coulter, L. L., D. Stow, Y.H. Tsai, N. Ibanez, H.C. Shih, M. Benza, A. Kerr, J.R. Weeks and F. Mensah, 2016. Classification and Assessment of Land Cover and Land Use Change in Southern Ghana using Dense Stacks of Landsat 7 ETM+ Imagery, *Remote Sensing of Environment*, 183: 396-409.
140. Crook, S., L. An, J. Weeks and D. Stow, 2016. Latent Trajectory Modeling of the Spatiotemporal Relationships between Land Cover, Socioeconomics, and Obesity in Ghana, *Spatial Demography*, DOI 10.1007/s40980-016-0024-6, 1-24.
141. Freeman, M., D. Stow and D. Roberts, 2016. Object-based Image Classification of Conifer Tree Mortality in San Diego County, California Based on a Time Series of High Spatial Resolution Ortho-imagery, *Photogrammetric Engineering and Remote Sensing*, 82: 571-580.
142. Lippitt, C.D., P. Riggan and D. Stow, 2016. An Application of the Remote Sensing Communication Model: A time-sensitive Wildfire Remote Sensing System, *International Journal of Remote Sensing*, 37: 3272-3292.
143. Rachels, D., D. Stow, J. O’Leary and P. Riggan, 2016. Chaparral Recovery Following a Major Fire with Variable Burn Conditions, *International Journal of Remote Sensing*, 37: 3836-3883.
144. Schmidt, I., J. O’Leary, D. Stow, K. Uyeda and P. Riggan, 2016. Use of Ultra-high Resolution Aerial Imagery in the Estimation of Chaparral Wildfire Fuel Loads, *Environmental Monitoring and Assessment* , 188:697 DOI 10.1007/s10661-016-5656-x.
145. Shih, H.C., D. Stow, J. Weeks and L. Coulter, 2016. Determining the Type and Starting Time of Land Cover and Land Use Change in Ghana Based on Discrete Analysis of Dense Landsat Image Time Series, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 9: 2064-2073.
146. Storey, E., D. Stow and J. O’Leary, 2016. Assessing postfire recovery of chamise chaparral using multi-temporal spectral vegetation index trajectories derived from Landsat imagery, *Remote Sensing of Environment*, 183: 53-64.
147. Stow, D., J. Weeks, H. Shih, L. Coulter, H. Johnson, Y-H Tsai, A. Kerr and M. Benza and F. Mensah, 2016. Inter-regional Pattern of Urbanization in Southern Ghana in the First Decade of the New Millennium, *Applied Geography*.71: 32-43.
148. Stow, D.A., L.L. Coulter, G.R. MacDonald and C.D. Lippitt, 2016, Evaluation of Geometric Capture and Processing Elements in the Context of a Repeat Station Imaging Approach to Registration and Change Detection, *Photogrammetric Engineering and Remote Sensing*, 82: 775-788.
149. Toure, S., D. Stow, H-C Shih, L. Coulter, J. Weeks, R. Engstrom and A. Sandborn , 2016. An Object-based, Temporal Inversion Approach to Urban Land Cover and Land Use Change Analysis, *Remote Sensing Letters*, 7: 503-512.

150. Tsai, S., D. Stow, L. An, and R. Lewison, 2016. Quantifying Canopy Fractional Cover and Change in Fanjingshan National Nature Reserve, China Using Multi-temporal Landsat Imagery, *Remote Sensing Letters*, 7: 671-680.
151. Uyeda, K., D. Stow, J. O'Leary, I. Schmidt and P. Riggan, 2016. Spatial Variation of Fuel Loading in Chaparral Within Stands of Varying Ages, *Applied Vegetation Science*, 19: 267-279.
152. Uyeda, K., D. Stow, J. O'Leary, C. Tague and P. Riggan, 2016. Chaparral Growth Ring Analysis as an Indicator of Stand Biomass Development, *Research Note – International Journal of Wildland Fire*, <http://dx.doi.org/10.1071/WF16080>
153. Benza, M., J. Weeks, D. Stow, D. López-Carr and K. Clarke, 2017. Fertility and urban context: A case study from Ghana, West Africa, using remotely sensed imagery and GIS, *Population, Place and Space*. <https://doi.org/10.1002/psp.2062>
154. Freeman, M., D. Stow and L. An, 2017. Patterns of Mortality in a Montane Mixed-conifer Forest in San Diego County, California, *Ecological Applications*. doi: 10.1002/eap.1601, 27: 2194–2208.
155. Storey, E., D. Stow, C. Chen, L. Coulter and S. Kumar, 2017, Automated Detection and Restoration of Shadows in Aerial Images to Support Visual and Automated Change Detection in Urban Environments, *GIScience & Remote Sensing*, 54: <http://dx.doi.org/10.1080/15481603.2017.1279729>
156. Kerr, A. and D. Stow, 2018. Optimizing Radiometric Fidelity to Enhance Aerial Image Change Detection Utilizing Digital Single Lens Reflex (DSLR) Cameras, *Photogrammetric Engineering & Remote Sensing*, 84: 149-158.
157. Lippitt, C.L., D. Stow, D. Roberts and L. Coulter, 2018. Multitemporal MESMA for Monitoring Herbaceous and Other Vegetation Growth Forms in Southern California Shrublands, *International Journal of Remote Sensing*, 9 (3):655–683.
158. Schweizer, E., D. Stow and L. Coulter, 2018. Automating Near Real-Time, Post-Hazard Detection of Crack Damage to Critical Infrastructure, *Photogrammetric Engineering & Remote Sensing*, 84: 75-86.
159. Uyeda, K., D. Stow, P. Riggan, and D. Roberts, 2017. Combining Ground-based Measurements and MODIS-based Spectral Vegetation Indices to Track Biomass Accumulation in Post-fire Chaparral, *International Journal of Remote Sensing* 38: 728–741.
160. Dai, J., D. Roberts, P. Dennison and D. Stow, 2018. Spectral-radiometric Differentiation of Non-photosynthetic Vegetation and Soil Within Landsat and Sentinel 2 Wavebands, *Remote Sensing Letters*. 9: 733-743
161. Shih, H., D. Stow, and Y. Tsai, 2018. Guidance on and Comparison of Machine Learning Classifiers for Landsat-based Land Cover and Land Use Mapping, *International Journal of Remote Sensing*.40: 1248-1274.
162. Storey, E., D. Stow, and M. Plummer, 2018. Normalizing Shadows in Multi-temporal Aerial Frame Imagery Using Relative Radiometric Adjustments to Support Near-real-time Change Detection,

163. Stow, D.A., C.D. Lippitt, L.L. Coulter and A.D. Loerch, 2018. Towards an End-to-end Airborne Remote Sensing System for Post-Hazard Assessment of Damage to Hyper-Critical Infrastructure: Research Progress and Needs, *International Journal of Remote Sensing*, 39 (5): 1441-1458.
164. Toure, S., D. Stow, J. Weeks and D. Lopez-Carr, 2018. Land Cover and Land Use Change Analysis Using Multi-spatial Resolution Data and Object-based Image Analysis, *Remote Sensing of Environment*, 210: 259-268.
165. Toure, S., D. Stow, K. Clarke and J. Weeks, 2018. Patterns of Land Cover and Land Use Change Within the Two Major Metropolitan Areas of Ghana, *Geocarto International*, published online <https://doi.org/10.1080/10106049.2018.1516244>.
166. Tsai, Y.-H., D. Stow, H.-L. Chen, R. Lewison, L. An and L. Shi, 2018. Mapping Vegetation and Land Cover Types in Fanjingshan National Nature Reserve Using Google Earth Engine, *Remote Sensing*, 10: 927, <https://doi.org/10.3390/rs10060927>.
167. Weeks, J.R., D.A. Stow and L. An, 2018. Demographics, Health Drivers & Impacts on Land Cover and Land Use Change in Ghana, Chapter in *Comprehensive Remote Sensing, Vol. 9 - Remote Sensing Applications for Societal Benefits*, Edited by Stephen J. Walsh.
168. Arndt, K., M. Santos, S. Ustin, S. Davidson, D. Stow, W. Oechel, T. Tran, B. Graybill and D. Zona, 2019. Arctic Greening Associated with Lengthening Growing Seasons in Northern Alaska, *Environmental Research Letters*, 14: doi.org/10.1088/1748-9326/ab5e26
169. Coulter, L., M. Plummer, N. Zamora, D. Stow and R. McCreight, 2019. Assessment of Automated Multitemporal Image Registration using Repeat Station Imaging Techniques, *GIScience & Remote Sensing*, doi: [10.1080/15481603.2019.1629378](https://doi.org/10.1080/15481603.2019.1629378)
170. Snavely, R., K. Uyeda, D. Stow, J. O'Leary and J. Lambert, 2019. Mapping Vegetation Community Types in a Highly-disturbed Landscape: Integrating Hierarchical Object-based Image Analysis with Lidar-derived Canopy Height Data *International Journal of Remote Sensing*, 40: 4384-4400.
171. Stow, D., P. Riggan, G. Schag, W. Brewer, R. Tissell, J. Coen, and E. Storey, 2019. Assessing Uncertainty and Demonstrating Potential for Estimating Fire Rate of Spread at Landscape Scales Based on Time Sequential Airborne Thermal Infrared Imaging, *International Journal of Remote Sensing*, 40: 487-497.
172. Tsai, Y.-H., D. Stow, D. Lopez-Carr, J. Week, K. Clarke and F. Mensah, 2019. Monitoring forest cover change within different reserve types in southern Ghana, *Environmental Monitoring and Assessment*, 191: 281. <https://doi.org/10.1007/s10661-019-7450-z>.
173. Tsai, Y.-H., D. Stow, L. An, H.-L. Chen, R. Lewison, and L. Shi, 2019. Monitoring Land-Cover and Land-Use Dynamics and the Effects of Payment for Ecosystem Service Policies in Fanjingshan National Nature Reserve, *Applied Geography* doi.org/10.1016/j.apgeog.2019.102077.
174. Uyeda, K., K. Warkentin, D. Stow, J. O'Leary, R. Snavely, J. Lambert, L. Bolick, K. O'Connor, B. Munson, A. Loerch, 2019. Alliance-level Vegetation Mapping Using Hierarchical Object-based

Image Analysis Applied to Aerial V/NIR and Lidar Data, *Applied Vegetation Science*. doi: 10.1111/avsc.12467.

175. An, L., J. Mak, S. Yang, R. Lewison, D. Stow, H.-L. Chen, W. Xu, L. Shi, W. Zhang, Y.-H. Tsai, 2020. Cascading impacts of payments for ecosystem services in complex human-environment systems, *Journal of Artificial Societies and Social Simulation*, 23: doi: 10.18564/jasss.4196.
176. Chen, H. L., RR. Lewison, L. An, Y.H. Tsai, D. Stow, L. Shi and S. Yang, 2020. Assessing the Effects of Payments for Ecosystem Services Programs on Forest Structure and Species Diversity, *Biodiversity and Conservation*. <https://doi.org/10.1007/s10531-020-01953-3>
177. Dai, J., D. Roberts, D. Stow, L. An, P. Kyriakidis, and S. Hall, 2020. Mapping Understory Invasive Plant Species with Field and Remotely Sensed Data in Chitwan, Nepal, *Remote Sensing of Environment*, 250: <https://doi.org/10.1016/j.rse.2020.112037>
178. He, J., Y. Chen, J. Wu, D. Stow, and G. Christakos, 2020. Space-Time Chlorophyll-a Retrieval in Optically Complex Waters that Accounts for Remote Sensing and Modeling Uncertainties and Improves Remote Estimation Accuracy, *Water Research* doi.org/10.1016/j.watres.2019.115403.
179. Mu, Y., T. Biggs, D. Stow and I. Numata, 2020. Mapping Land Cover of Heterogeneous Forest-pasture Mosaics in the Brazilian Amazon Using a Novel Spectral Vegetation Variability Index and Google Earth Engine: Comparing Spectral Mixture Analysis and Tasseled Cap Transformation in a Random Forest Classification Context, *International Journal of Remote Sensing*, 41, 8682 - 8692, DOI: [10.1080/2150704X.2020.1802529](https://doi.org/10.1080/2150704X.2020.1802529).
180. Plummer, M., D. Stow, L. Coulter, E. Storey and N. Zamora, A. Loerch, 2020. Reducing Shadow Effects on the Co-registration of Aerial Image Pairs, *Photogrammetric Engineering and Remote Sensing*, 86: 177-186, doi.org/10.14358/PERS.86.4.177.
181. Shih, H.C., D. Stow and D. Roberts, 2020. Estimating the starting time and identifying the location of urbanization based on dense time series of Landsat-derived Vegetation-Impervious-Soil (VIS) maps, *International Journal of Applied Earth Observation and Geoinformation*. 85: <https://doi.org/10.1016/j.jag.2019.101987>
182. Storey, E., D. Stow, J. O'Leary, D. Roberts and F. Davis, 2020. Evaluating Uncertainty in Landsat-derived Postfire Recovery Metrics Due to Soil Background, Terrain, and Shrub Vegetation Types in Southern California, *GIScience & Remote Sensing*, 57: doi.org/10.1080/15481603.2019.1703287.
183. Storey, E., K. West, and D. Stow, 2020. Utility and Optimization of Landsat-derived Burned Area Maps for Southern California, *International Journal of Remote Sensing*. doi: [10.1080/15481603.2019.1703287](https://doi.org/10.1080/15481603.2019.1703287)
184. Storey, E., D. Stow, J. O'Leary, D. Roberts and F. Davis, 2020. Does Short-interval Fire Inhibit Postfire Recovery of Chaparral Throughout southern California? *Science of the Total Environment*, 751: <https://doi.org/10.1016/j.scitotenv.2020.142271>
185. Storey, E., D. Stow, D. Roberts, J. O'Leary, and F. Davis, 2020. Evaluating Drought Impact on Postfire Recovery of Chaparral Across Southern California, *Ecosystems*. doi.org/10.1007/s10021-020-00551-2.

186. Toure, S., J. Weeks, D. Lopez-Carr and D. Stow, 2020. Does Urban Land Change Kill Children? Evaluating Links between Dynamic Urban Landscapes and Under-five Child Mortality in Accra, Ghana, *Demographic Research*, 42: 589-614.
187. Uyeda, K., D. Stow, and C. Richart, 2020. Assessment of volunteered geographic information for vegetation mapping, *Environmental Monitoring and Assessment*. 192(8):554. doi: 10.1007/s10661-020-08522-9.
188. Warkentin, K., D. Stow, K. Uyeda, J. O’Leary, J. Lambert, A. Loerch, and L. Coulter, 2020. Shrub Fractional Cover Estimation and Mapping of a Recovering Island Shrubland Based on Airborne Multispectral Imagery and Lidar Data, *Remote Sensing*. 12: 3608-3623; [doi:10.3390/rs12213608](https://doi.org/10.3390/rs12213608)
189. Yen, C.-F., D. Stow and S. Toure, in press. A Histogram Curve Matching Approach for Object-based Image Change Analysis of Urban Land Use, *GI_Forum*.
190. Dai, J., D. Roberts, D. Stow, L. An, Q. Zhao, accepted. Community Forests Continuously Green-up Since Their Establishments in Chitwan, Nepal, *Remote Sensing*.
191. Schag, G., D. Stow, P. Riggan, R. Tissell, and J. Coen, accepted. Evaluating Landscape-scale Controls of Wildfire Spread Rates Using Repetitive Airborne Thermal Infrared (ATIR) imagery. *Fire*.

Manuscripts Submitted to Refereed Journals or Books

1. Mirka, B., D. Stow, G. Paulus, A. Loerch, L. Coulter, and L. An, revised and resubmitted. Evaluation of Thermal Infrared Imaging from Unmanned Aerial Vehicles for Arboreal Wildlife Surveillance, *GIScience & Remote Sensing*.
2. Schag, G., D. Stow, P. Riggan, and A. Nara, in preparation. Spatial Analysis of Landscape-level Wildfire Rate of Spread, *Landscape Ecology*.
3. Shih, H.-C., D. Stow, K.-C. Chang, D. Roberts, and K. Goulias, submitted. From Land-cover to Land-use: Applying Random Forest on Landsat Imagery for Urban Land-use Mapping, *Geocarto International*.
4. Shih, H.-C., D. Stow, J. Weeks, and K. Goulias, submitted. The Relative Timing of Population Growth and Land Use Change – A Case Study of North Taiwan from 1990 to 2015, *Applied Geography*.
5. Shih, H.-C., L. An, J. Weeks, and D. Stow, submitted. What Spatial Neighborhood Is Appropriate? A Case Study of Southeastern Ghanaian Women’s Obesity, *International Journal of Geographic Information Systems*.
6. Stow, D., K. Warkentin, K. Uyeda, J. O’Leary, A. Loerch, L. Coulter, and L. Bolick, in preparation. Potential for Aerial Image-based Monitoring of Changes in Shrub Cover, *International Journal of Applied Earth Observation and Geoinformation*.

Papers Published in Symposium Proceedings:

1. Stow, D.A., 1979. An Analysis of Landsat and Digital Terrain Data in a Geographic Information Systems Context, Proceedings of Machine Processing of Remotely Sensed Data Symposium, West Lafayette, Indiana, November 1979.
2. Stow, D.A., L.R. Tinney and J.E. Estes, 1980. Deriving Land Use/Land Cover Change Statistics from Landsat: A Study of Prime Agricultural Land., Proceedings of the 14th International Symposium on Remote Sensing of Environment, 2: 1,227-1,238, San Jose, Costa Rica, April 1980.
3. Strahler, A.H., J.E. Estes, P. Maynard, F.C. Mertz and D.A. Stow, 1980. Incorporating Collateral Data in Landsat Classification and Modeling Procedures, Proceedings of the 14th International Symposium on Remote Sensing of the Environment, 2: 1,009-1,026, San Jose, Costa Rica, April 1980.
4. Stow, D.A. and J.E. Estes, 1983. An Assessment of Coastal Management Information Requirements in the Context of Utilizing Remote Sensing Technology in the State of California, Proceedings of the Third Symposium on Coastal and Ocean Management, Coastal Zone 83, 1: 565-574, San Diego, California, March 1983.
5. Stow, D.A., 1984. Combined Remote Sensing and Numerical Modeling Methods for Measuring Hydrodynamic Surface Circulation, Proceedings of the 18th International Symposium on Remote Sensing of Environment, 3: 1,983-1,992, Paris, France, October 1984.
6. Westmoreland, S. and D. Stow, 1990. Use of Satellite Imagery and Ancillary Data to Update a Vector-Coded GIS, Proceedings of GIS/LIS '90, 383-391, Anaheim, California, November 1990.
7. Stow, D., S. Westmoreland, D. McKinsey, F. Mertz, J. Nathanson, S. Sperry and D. Nagel, 1990. Efficient Creation, Correction and Updating of Vector-Coded GIS Coverages Using Remotely Sensed Data, Proceedings of GIS/LIS '90, 209-218, Anaheim, California, November 1990.
8. Stow, D., S. Westmoreland, D. McKinsey, F. Mertz, D. Collins, S. Sperry and D. Nagel, 1990. Raster-Vector Integration for Updating Land Use Data, Proceedings of the 23rd International Symposium on Remote Sensing of Environment, 837-844, Bangkok, Thailand, May 1990.
9. Stow, D., S. Westmoreland, D. McKinsey, R. Parrott, S. Carnevale, D. Collins and S. Sperry, 1991. Processing Flows for Correcting and Updating Vector-Coded GIS Layers Using Remotely Sensed Data, Proceedings of the Initiative Twelve Symposium, American Society of Photogrammetry and the National Center for Geographic Information Analysis, Baltimore, MD., April 1991.
10. Benkelman, C., W. Cohen, D. Stow, and A. Hope, 1992. High-resolution digital imagery applied to vegetation studies, Proceedings of the American Society of Photogrammetry and Remote Sensing Spring Conference, Washington, D.C., March 1992.
11. Deysner, L., D. Stow and C. Surbey, 1992. Evaluation of an Airborne Video System (ADAR 5000) for Monitoring Giant Kelp Populations, *Macrocystis Pyrifera*, in Southern California, Proceedings of the First Thematic Conference on Remote Sensing for Marine and Coastal Environments, New Orleans, Louisiana, June 1992.

12. Benkleman, C., W. Cohen, D. Stow and A. Hope, 1992. High Resolution Digital Imagery Applied to Vegetation Studies, American Society of Photogrammetry and Remote Sensing Spring Meeting, Albuquerque, NM, May 1992.
13. Mertz, F., S. Westmoreland, D. Stow and A. Hope, 1993. A Model for Computing In-band Reflectance Data Sets from Digital Satellite Image Data, Proceedings of the Workshop on Atmospheric Correction of Landsat Imagery, Torrance, CA, June, 1993.
14. Hope, A., C. McMichael, D. Stow, J. Fleming, G. Vourlitis, W. Oechel and S. Hastings, 1995. Direct Estimates of CO₂ Flux in Arctic Environments Using a Spectral Vegetation Index, Proceedings of the International Geoscience and Remote Sensing Symposium, Firenze, Italy, July, 1995.
15. Hope, A.S. and D.A. Stow, 1995. Biophysical remote sensing for global change studies in Arctic terrestrial ecosystems. Proceedings, International Conference on Global Change and Arctic Terrestrial Ecosystems, Oppdal, Norway, August 11-17, 1995.
16. Phinn, S., D. Stow and J. Zedler, Monitoring Wetland Habitat Restoration Using Airborne Digital Multi-spectral Video Data in Southern California, Second Thematic Conference on Remote Sensing for Marine and Coastal Environments, Seattle, Sept. 18-21, 1995.
17. Stow, D., A. Hope, A. Nguyen, D. Shaari, C. Benkelman and D. Mulawa, 1995. Monitoring Detailed Land Surface Changes from an Airborne Multispectral Digital Camera System, Proceedings of the International Geoscience and Remote Sensing Symposium, Firenze, Italy, July 1995.
18. Bradshaw, B.K., D.A. Stow and A.E. Brewster, 1996. High Resolution Digital Imagery and Digital Terrain Data for Mapping Southern California Coastal Salt Marshes, Proceedings of the Second International Airborne Remote Sensing Conference and Exhibition, San Francisco, CA, 24-27 June 1996.
19. Brewster, A.E., D. A. Stow and L. Deysher, 1996. Integrating Airborne Multispectral Digital Image Data, Kinematic GPS and GIS to Analyze the Habitat Preferences of the Belding's Savannah Sparrow, Proceedings of the Second International Airborne Remote Sensing Conference and Exhibition, San Francisco, CA, 24-27 June 1996.
20. Nguyen, A.T., D.A. Stow, A.S. Hope and C. Benkelman, 1996. A Simple Method for Vignette Correction of Airborne Digital Camera Data, Proceedings of the Second International Airborne Remote Sensing Conference and Exhibition, San Francisco, CA, 24-27 June 1996.
21. Nyden, B.B., D.A. Stow and J.B. Zedler, 1996. Tracking an Invasive Plant Species in a Southern California Wetland Using High Resolution Digital Multispectral Imagery, Proceedings of the Second International Airborne Remote Sensing Conference and Exhibition, San Francisco, CA, June 1996.
22. Phinn, S., D.A. Stow and J.B. Zedler, 1996. Spatial, Spectral, Radiometric and Temporal Dimensions of Remotely Sensed Data for Monitoring Wetland Vegetation in Southern California, Proceedings of the Second International Airborne Remote Sensing Conference and Exhibition, San Francisco, CA, 24-27 June 1996.

23. Stow, D., S. Phinn, B. Bradshaw, A. Brewster, B. Nyden, A. Nguyen, A. Hope, and J. Zedler, 1996. Monitoring Restored and Disturbed Salt Marshes Using Airborne Multispectral Digital Camera, Proceedings of the ERDAS User's Group Meeting, Atlanta, March 10-14, 1996.
24. Stow, D., A. Hope, S. Phinn, A. Brewster and B. Bradshaw, 1997. Assessing the Accuracy of High Spatial Resolution Image Data and Derived Products, Proceedings of the International Geoscience and Remote Sensing Symposium, Singapore, August 1997.
25. Stow, D., S. Phinn, A. Hope and C. Benkelman, 1997. An "End-to-end System" Based on Airborne Multispectral Camera Image Data for Monitoring Detailed Vegetation Changes, Proceedings of the Third International Airborne Remote Sensing Conference and Exhibition, 7-10 July 1997, Copenhagen, Denmark.
26. Phinn, S. and D. Stow, 1997, Monitoring Coastal Wetland Dynamics in Southern California Using High Spatial Resolution Image Data, Proceedings of the Third Thematic Conference on Remote Sensing for Marine and Coastal Environments, Orlando, FL, March 1997.
27. Nyden, B., J. Desmond, D. Stow, and J. Callaway, 1998. How Useful is the DCS in Characterizing Reference Wetlands for Restoration Projects, Proceedings of the Fifth Thematic Conference on Remote Sensing for Marine and Coastal Environments, San Diego, CA, October 1998.
28. Stow, D., L. Coulter, A. Hope, J. Kaiser, L. Kaiser, and A. DeNoble, 1998. Frame-based Radiometric Normalization of Multispectral Digital Camera Data for Kelp Monitoring: A Project of the NASA Affiliated Research Center at San Diego State University, Proceedings of the Annual Meeting of the American Society of Photogrammetry, Tampa, FL, April 1998.
29. Hope, A., L. Coulter, D. Stow, S. Peterson, and D. Service, 1999. Root Rot Detection in Sugar Beet Using Digital Multispectral Video, Proceedings of the 20th Asian Conference on Remote Sensing, Hong Kong, China, November 1999.
30. Stow, D., D. Chen, and L. Coulter, 2001. Detection of Pixel-Level Land-Cover Changes with Multi-temporal Imagery: Theory and Examples With Imagery of 1 Meter and 1 Kilometer Spatial Resolutions. Proceedings of MULTITEMP 2001 Workshop, Trento, Italy, September 2001.
31. Rogan, J., J. Franklin, D. Stow, L. Levien, and C. Fischer, 2001. Toward Operational Monitoring of Forest Cover Change in California Using Multitemporal Remote Sensing Data, Proceedings of the International Geoscience and Remote Sensing Symposium, Sydney, Australia, July 2001.
32. Stow, D., S. Daeschner, A. Hope, D. Douglas, R. Myneni, and L. Zhou, 2001. Spatial-Temporal Trend of Seasonally-integrated Normalized Difference Vegetation Index as an Indicator of Changes in Arctic Tundra Vegetation in the 1990s. Proceedings of the International Geoscience and Remote Sensing Symposium, Sydney, Australia, July 2001.
33. Coulter, L., D. Stow, A. Hope, D. Service, T. Schutte, J. Kaiser, and A. Walters, 2001. Mapping Urban Irrigated Vegetation for Water Demand Assessment, Proceedings of the Annual Meeting of the American Society of Photogrammetry, St. Louis, MO, April 2001.

34. Cao, L., D. Stow, J. Kaiser, L. Coulter, and D. Johnson, 2002. Mapping Illegal Immigrant and Smuggler Trails along U.S-Mexico Border Using ADAR 5500 Imagery, Proceedings of the ESRI User's Conference, San Diego, CA, July, 2002.
35. Rashed, T., J. Weeks, D. Stow, and D. Fugate, Measuring Temporal Compositions of Urban Morphology through Spectral Mixture Analysis: Toward a Soft Approach to Change Analysis in Crowded Cities, Proceedings of the Third International Symposium on Remote Sensing of Urban Areas, Istanbul, Turkey, June 11-13, 2002.
36. Rogan, J., Miller, J., Stow, D., Franklin, J., Levien, L. and Fischer, C., 2002. Operational Detection of Changes in Forest and Shrub Cover in California Using Multitemporal Landsat Data, Proceedings of the Ninth Biennial Remote Sensing Applications Conference, San Diego, California, April 8-12.
37. Stow, D., L. Coulter, A. Johnson, and A. Petersen, 2002. Monitoring Habitat Reserves Using High Spatial Resolution Image Data, Proceedings of the Ninth Biennial Remote Sensing Applications Conference, San Diego, California, April 8-12, 2002.
38. Stow, D., and L. Coulter, 2003. Detection of Meter-Scale Land Cover Changes in the Presence of Highly Variable Terrain, Proceedings of the International Geoscience and Remote Sensing Symposium, Toulouse, France, July 2003.
39. Stow, D., J. Kaiser, M. Niphadkhar, and E. Tarnavsky, 2004. Monitoring Changes in Fuel Moisture Conditions of Southern California Chaparral Based on Time Series of MODIS-derived Indices, Proceedings of the American Society of Photogrammetry and Remote Sensing, Denver, CO, May 2004.
40. Stow, D., L. Coulter, Y. Hamada, A. Lieberman, J. Kaiser, J. Jafolla, and L. Hendricks, 2004. Airborne Multispectral and Hyperspectral Imaging for Management of Invasive Plants in Southern California, Proceedings of MEDECOS 2004 Symposium, Rhodes, Greece, May 2004.
41. Coulter, L. and D. Stow, 2007. Classifying Vegetation Fire Fuels Using Multispectral Imagery and Lidar-derived Vegetation Height and Density, 21st Biennial Workshop on Aerial Photography, Videography, and High Resolution Digital Imagery for Resource Assessment , Terra Haute, Indiana, May 2007.
42. Neubert, M. S. Kropp, L. Coulter, D. Stow, 2008. Vegetation Fire Fuels Mapping in the San Diego City Canyons – A Method Comparison, GEOBIA 2008, Calgary, August 2008.
43. Coulter, L., C. Lippitt, D. Stow, and R. McCreight, 2011. Near real-time change detection for border monitoring. *Proceedings from the ASPRS Annual Conference*, Milwaukee, WI, May 1-5, 2011.
44. Coulter, L. D. Stow, S. Kumar, S. Dua, B. Loveless, G. Fraley, C. Lippitt, and V. Shrivastava, 2012a. Automated co-registration of multitemporal airborne frame images for near real-time change detection. *Proceedings of the ASPRS 2012 Annual Conference*, Sacramento, CA, March 19-23, 2012.
45. Coulter, L., D. Stow, Y. H. Tsai, C. Chavis, C. Lippitt, G. Fraley, and R. McCreight, 2012b. Automated detection of people and vehicles in natural environments using high temporal resolution airborne remote sensing. *Proceedings of the ASPRS 2012 Annual Conference*, Sacramento, CA, March 19-23, 2012.

46. Coulter, L., D. Stow, Y.H. Tsai, C. Chavis, R. McCreight, C. Lippitt, and G. Fraley, 2012c. A New Paradigm for Persistent Wide Area Surveillance. *Proceedings of the IEEE International Conference on Technologies for Homeland Security*, Waltham, MA, November 13-15, 2012.
47. Engstrom, R., A. Sandborn, Q. Yu, J. Burgdorfer, D. Stow, J. Weeks and J. Graesser, 2015. Mapping Slums Using Spatial Features in Accra, Ghana. *Proceedings Joint Urban Remote Sensing Event March - 1 April 2015*, Lausanne, Switzerland.
48. Stow, D., H.C. Shih and L. Coulter, 2015. Identification of Urbanization in Ghana Based on a Discrete Classification Approach to Analyzing Dense Landsat Image Stacks, *Proceedings Joint Urban Remote Sensing Event March - 1 April 2015*, Lausanne, Switzerland.

Unpublished Paper or Poster Presentations at Professional Conferences :

(Presentations associated with published conference papers not cited here - see above.)

1. Stow, D.A., 1984. Geophysical Fluid Dynamic Processes by Combining Numerical Modeling and Remote Sensing Methodologies, Association of American Geographers Annual Meeting, Washington, DC, April 1984.
2. Stow, D.A., 1984. Numerical Derivation of an Ocean Surface Velocity Field Using Time Sequential Remote Sensing Methods. American Geophysical Union Ocean Sciences meeting, New Orleans, Louisiana, January 1984.
3. Stow, D.A., 1986. River Mouth Processes in Southern California. Association of American Geographers Annual Meeting, Minneapolis, Minnesota, May 1986.
4. Chang, H.H. and D.A. Stow, 1987. Fluvial Sand Delivery and Flushing of Inlet Channels, California Sea Grant Coastal Resources Subject Area Meeting, La Jolla, California, May 1988.
5. Stow, D.A., 1987. Numerical Simulation of Coastal Entrance Channel Processes, Association of American Geographers Annual Meeting, Portland, Oregon, April 1987.
6. Stow, D. A., 1987. Spatial Sampling Considerations for Remote Sensing/Geographic Information Systems, R4D Data Extrapolation Workshop, State College, Pennsylvania, February, 1987.
7. Stow, D.A., 1988. Role of Remote Sensing and GIS in Landscape Biology Studies, Association of Pacific Coast Geographers Annual Meeting, San Diego, California, September 1988.
8. Stow, D.A., 1988. Arctic Tundra Vegetation Mapping on the North Slope of Alaska Using Digital SPOT Multispectral Data, Association of American Geographers Annual Meeting, Phoenix, Arizona, April 1988.
9. Stow, D.A. and R. Weiler, 1988. Spatial Relationship Between Classified Units and Image Brightness of Surface Cover, Third Annual Landscape Biology Symposium, University of New Mexico, Albuquerque, New Mexico, March 1988.
10. Hope, A. and D. Stow, 1989. Effects of Disturbances on Landscapes: The Use of Remote Sensing in Assessment, Arctic Sciences Conference, Fairbanks, Alaska, September, 1989.

11. Stow, D., T. George, A. Hope, and C. Benson, 1989. Aerial Videography and Radiometry for Spatial Biophysical Studies in Alaska, Arctic Sciences Conference, Fairbanks, Alaska, September, 1989.
12. Stow, D.A., 1989. Efficient Updates of Vector-Coded GIS Using Satellite Remote Sensing Techniques, ERDAS Users Group Meeting, Atlanta, Georgia, October 1989.
13. Stow, D.A. and D. Collins, 1989. Remote Sensing Updates of a Land Use Component for a Vector-Coded GIS, Association of American Geographers Annual Meeting, Baltimore, Maryland, March 1989.
14. Stow, D.A., 1989. Role of Remote Sensing and GIS for Scientific Landscape Biology Studies, Workshop on Landscape Biology and Spatial Information Systems, University of Nottingham, Nottingham, UK, January 1989.
15. Stow, D. and A. Hope, 1990. Temporal Variability of a Spectral Vegetation Index for Three Biomes, Landscape Biology Meeting, Oxford, Ohio, March, 1990.
16. Westmoreland, S. and D. Stow, 1990. Incorporating Ancillary Data in Remote Sensing-based Updating of Vector GIS, Annual Meeting of the Association of American Geographers, Toronto, Canada, April, 1990.
17. Stow, D. S. Westmoreland and F. Mertz, 1991. Satellite Image Data as a Base for Registering GIS Coverages, AAG Annual Meeting, Miami, FL, April, 1991.
18. Stow, D., 1992. Monitoring Ecosystem Response to Global Change: Multitemporal RemoteSensing Analyses, Symposium on Anticipated Effects of a Changing Global Environment in Mediterranean Type Ecosystems, Valencia, Spain, Sept., 1992.
19. Stow, D. and A. Hope, 1992. Arctic Tundra Reflectance Characteristics from Airborne Radiometry and Videography, AAG Annual Meeting, San Diego, CA, April, 1992.
20. Hope, A., D. Stow, J Kimball and J. Fleming, 1992. Short-wave Reflectance Properties of Tussock Tundra on the North Slope of AAG Annual Meeting, San Diego, CA, April, 1992.
21. Phinn, S., J. Franklin, A. Hope, D. Stow and Laura Huenneke, 1993. Biomass Distributions of a Semi-Arid Desert From an Airborne Digital Video Imaging, Field Sampling and Spatial Statistics, NSF Long Term Ecological Research Workshop, Estes Park, CO, Sept. 1993.
22. Stow and D. Van Mouwerik, 1993. Pre-processing of Multi-temporal Digital Video Data Acquired for Monitoring Habitat Restoration Sites, Ray Jackson Honorary Symposium on Remote Sensing of Soil, Water and Vegetation, USDA, Phoenix, AZ, Jan., 1993.
23. Stow, D., A. Hope, D. McKinsey and H. Pray, 1993. Deriving Dynamic Information on Fire Fuel Distributions in Southern California Chaparral from Remotely Sensed Data, Landscape Biology of Mediterranean-type Ecosystems, Montecatini, Italy, April, 1992.
24. Hope, A. and D. Stow, 1993. An Analysis of Tree Mortality in Southern California Using High Spatial Resolution Remotely Sensed Spectral Radiances: A Climatic Change Scenario, Landscape Biology of Mediterranean-type Ecosystems, Montecatini, Italy, April, 1992.

25. Phinn, S., D. Stow and J. Zedler, 1994. Remote Sensing for Monitoring Wetland Restoration Projects in San Diego County, California Shore and Beach Preservation Association Annual Conference, San Diego, CA, Nov., 1994.
26. Phinn, S., D. Stow and D. Van Mouwerik, 1994. Assessing Vegetation Abundance of *Spartina Alterniflora* Using Remote Sensing, AAG Annual Meeting, San Francisco, CA, April, 1994.
27. Hope, A., D. Duburguet, D. Stow and G. Peterson, 1994. Arctic Landscape Wetness Derived from Landsat Thematic Mapper Satellite Data, AAG Annual Meeting, San Francisco, CA, April, 1994.
28. Stow, D., S. Phinn, A. Eshraghi, D. Van Mouwerik and A. Hope, 1994. Environmental Monitoring with an Airborne Digital Multispectral Imaging System, AAG Annual Meeting, San Francisco, CA, April, 1994.
29. Stow, D., A. Hope, S. Phinn and A. Nguyen, 1995. Radiometric and Geometric Processing Requirements for Environmental Monitoring via Airborne Remote Sensing, AAG Annual Meeting, Chicago, IL, April, 1995.
30. Stow, D. A., A.S. Hope, W.L. Boynton and S.R. Phinn, 1996. Spatial Variation of NDVI and Vegetation Cover Types in the Context of Estimating Carbon Flux for Arctic Tundra Regions, American Geophysical Union Fall Meetings, San Francisco, CA, Dec., 1996.
31. Hope, A.H., D.A. Stow, W.L. Boynton and Keith Pence, 1996. Estimating CO₂ Flux for the Kuparuk Rive Basin Based on a Spectral Vegetation Index, American Geophysical Union Fall Meetings, San Francisco, CA, Dec., 1996.
32. Stow, D. A. Hope, J. Fleming and W. Boynton, 1996. Spatial Variability of Arctic Tundra Landscapes in Relation to CO₂ Flux: A satellite Remote Sensing Approach, AAG Annual Meeting, Charlotte, NC, April, 1996.
33. Hope, A.S., D.A. Stow, D. Richardson, R. Cowling and A. Lombard. A Strategy for Monitoring Alien Invasive Plants in the Coastal Fynbos of South Africa. MEDECOS Conference, San Diego, CA, October, 1997. Hope, A., C. Garrison, D. Stow and C.
34. McMichael, 1997. A Direct Comparison of Color Infrared Digital Imagery Collected Using a Three Camera CCD System and a Single Camera Over Landscapes in Southern California, Third International Airborne Remote Sensing Conference and Exhibition, July 1997, Copenhagen, Denmark.
35. Stow, D., 1997. Reducing the Influence of Spatial Registration Errors on Pixel-level Change Detection, AAG Annual Meeting, Ft. Worth, TX, April, 1997.
36. Stow, D., A. Hope, S. Daeschner, R. Engstrom, and D. Douglas, 1998, Spatial-Temporal Trends of Seasonally Integrated NDVI as Indicators of Arctic Tundra Primary Productivity and Carbon Assimilation, American Geophysical Union, 1998 Fall Meeting, San Francisco, CA, December 1998
37. Stow, D.A., A.S. Hope and D. Richardson, 1997, Airborne Monitoring of Invasive Plants Coastal Fynbos, South Africa. MEDECOS Conference, San Diego, CA, October, 1997.

38. Hope, A., C. Garrison, D. Stow and C. McMichael, 1997, A Direct Comparison of Color Infrared Digital Imagery Collected Using a Three Camera CCD System and a Single Camera Over Landscapes in Southern California, Third International Airborne Remote Sensing Conference and Exhibition, Copenhagen, Denmark, July 1997.
39. Hope, D., W. L. Boynton, and D.A. Stow, 1998, Remotely Sensed Inter-Annual Variations in Arctic Vegetation Productivity: Relation of Air Temperature, Carbon Dioxide Flux and Stratospheric Aerosol Optical Depth, American Geophysical Union Conference, San Francisco, CA, December, 1998
40. Stow, D., D. Chen, C. Garrison, P. Longmire, and Allen Hope, 1998, Misregistration Effects and Adjustments in the Context of Monitoring Coastal Wetlands and Watersheds, Fourth ERIM Marine and Coastal Remote Sensing Conference, San Diego, CA, October, 1998.
41. Stow, D., A. Brewster, P. Longmire, and E. Almanza, 1998, Habitat Monitoring Using ADAR Image Data, So. California Academy of Sciences Annual Meeting, Pomona, CA, May, 1998.
42. Vourlitis G., W. Oechel, J. Verfaillie, Jr., A. Hope, D. Stow, W. Boynton, R. Zulueta, and S. Hasting, 1998, Scaling Plot Measurements of CO₂ Flux Across an Arctic Tundra Landscape, American Geophysical Union, 1998 Fall Meeting, San Francisco, CA, December, 1998.
43. Engstrom, R., A. Hope, and D. Stow, 1999, The Priestly-Taylor Evaporation Coefficient: Variability in Arctic Landscapes, Annual Meeting of the Association of American Geographers, Honolulu, HI, March 1999.
44. Hope, A., K. Pence, and D. Stow, 1999, Validation of Satellite Time Series Data for Arctic Biogeographical Studies, Annual Meeting of the Association of American Geographers, Honolulu, HI, March 1999.
45. Stow, D., W. Boynton, A. Hope, and S. Daeschner, 1999, Arctic Tundra Functional Types by Classification of AVHRR Bi-weekly NDVI Composite Data Sets, Annual Meeting of the Association of American Geographers, Honolulu, HI, March 1999.
46. Hope, A., W. Boynton, D. Stow, D. Douglas, and G.Drew, 1999, Inter-Annual Variations in Vegetation Seasonal Growth Characteristics of Tundra Ecosystems Using Satellite Time-Series Data. Annual Meeting of the Institute of British Geographers, Leicester, U.K., January, 1999.
47. Lloyd, J., D. Richardson, A. Hope, D. Stow, D. Service, B. Swanepoel, E. van den Berg, and L. van Wyk, 2000. The Challenge of Mapping Invasive Alien Plants in Mediterranean-type Ecosystems Using Remote Sensing Technologies, MEDECOS Conference, Cape Town, South Africa, September, 2000.
48. Stow, D., L. Coulter, J. O'Leary, A. Hope, and J. Franklin, 2000, Monitoring of Habitat Reserve System Using Remotely Sensed Data with Very High Spatial Resolution Imagery, MEDECOS Conference, Cape Town, South Africa, September, 2000.
49. Stow, D., 2000, Advances in Remote Sensing Research Enable Real-World Applications for the Private and Public Sectors. Calif. Geographical Society Annual Meeting, San Diego, CA, April 2000.

50. Stow, D., L. Coulter, E. Witztum, A. Johnson, A. Wall, J. O'Leary, and A. Hope, 2001, Land Cover Changes Within Habitat Reserve Systems Observed With High Spatial Resolution Image Data. Annual Meeting of the Association of American Geographers, N.Y., March 2001.
51. Engstrom, R. N., Hope, A.S., Stow, D.A., and Kwon, H. 2002. Characteristics of the Spatial Distribution of Surface Moisture in an Eddy Flux Tower Footprint in Arctic Coastal Plain Ecosystems. Poster, American Geophysical Union Fall Meeting. San Francisco, CA.
52. Stow, D. and L. Coulter, 2002, Detection of Pixel level Changes in Habitat Preserves with Meter-resolution Multi-temporal Imagery, Annual Meeting of the Association of American Geographers, Los Angeles, CA., March 2002.
53. Coulter, L., D. Stow, A. Hope, D. Service, T. Schutte, J. Kaiser, and A. Walters, 2002, Landscaped Vegetation Assessment in Urban Environments, High Spatial Resolution Commercial Imagery Workshop, co- sponsored by NASA, NIMA, and USGS, Reston, Virginia, March 25-27, 2002.
54. Coulter, L., D. Stow, A. Johnson, and A. Petersen, 2002, Regional Change Monitoring of Habitat Reserve Systems Using Very High Resolution Remotely Sensed Data, High Spatial Resolution Commercial Imagery Workshop, co- sponsored by NASA, NIMA, and USGS, Reston, Virginia, March 25-27, 2002.
55. Rashed, T., J., Weeks, D. Stow, and D. Fugate, 2002. Measuring Temporal Compositions of Urban Morphology through Spectral Mixture Analysis: Toward a Soft Approach to Change Analysis in Crowded Cities, Third International Symposium on Remote Sensing of Urban Areas, Istanbul, Turkey, June 2002.
56. Engstrom, R.N., Hope, A.S., Stow, D.A., Zulueta, R. Verfaillie, J., Kwon, H, and Oechel, W.C., 2003. Surface Moisture-NDVI Relationship in Arctic Coastal Plain Tundra Ecosystems: Effects of Scale and Controlling Factors, Association of American Geographers Annual Meeting. New Orleans, LA, February/March, 2003.
57. Stow, D. and L. Coulter, 2003, Application of IKONOS Multispectral Imagery for Habitat Change Analyses of Southern California Shrublands, Annual Meeting of the Association of American Geographers, New Orleans, LA., February/March, 2003.
58. Stow, D., D. Fugate, T., Rashed, J., Weeks, and A. Getis., 2004, Validation of Satellite Derived End-Member Fraction Maps of Cairo, Egypt Using Quickbird Imagery, Annual Meeting of the Association of American Geographers, Philadelphia, March 2004.
59. Stow, D., 2004, A Spatial Decision Support System for Border Security, University Consortium for Geographic Information Science, Congressional Breakfast presentation, February, 2004.
60. Tarnavsky, E. and D. Stow, 2004, Fidelity of Scanned and Direct Digital Imagery in a Land-cover Change Context, Annual Meeting of the Association of American Geographers, Philadelphia, March 2004.
61. Weeks, J. D. Larson, D. Stow and T. Rashed, 2004, Contrast or Continuum: The Creation and Application of an Urban Gradient Index Using Remotely Sensed Imagery and GIS. Annual Meeting of the Population Association of America, Minneapolis, 2004.

62. Weeks, J. A. Getis, D. Stow, D. Fugate, and A. Lopez, 2004, Neighborhood Predictors of Fertility Levels in Amman, Jordan, Combining RS and Census Data into a GIS, Annual Meeting of the Association of American Geographers, Philadelphia, March 2004.
63. Hamada, Y., D. Stow, and Lloyd Coulter, 2005, Detecting Invasive Plants in Riparian Habitats of Southern California using Hyperspectral Remote Sensing, Annual Meeting of the Association of American Geographers, Denver, April 2005.
64. Stow, D., M. Niphadkar, and J. Kaiser, 2005, Monitoring Chaparral Fuel Moisture Based on MODIS Reflectance Data, Annual Meeting of the Association of American Geographers, Denver, April 2005.
65. Stow, D. Border Security Decision Support System, 2005, Annual Meeting of the American Society of Photogrammetry and Remote Sensing, Baltimore, March 2005.
66. Weeks, J., A. Hill, A. Getis, and D. Stow, 2005, Residential Segregation as a Predictor of Intra-Urban Health Inequality in Accra, Ghana, Annual Meeting of the Association of American Geographers, Denver, April 2005.
67. Hamada, Y., D. Stow, and S. Rey, 2006, Methods for Assessing Thematic Map Accuracy of Classification Maps from Remotely Sensed Imagery, Annual Meeting of the Association of American Geographers, Chicago, March 2006.
68. Stow, D., A. Lopez, and J. Weeks, 2006, Semi-automated Delineation and Classification of Residential Land Use Types in Accra, Ghana Based on Quickbird Satellite Data, Annual Meeting of the Association of American Geographers, Chicago, March 2006.
69. Stow, D., L. Coulter, Y. Hamada, and Z. Anguelova, 2006, Detailed Assessment of Shrubland Habitat Change Based on Hierarchical Segmentation and Classification of Airborne Multispectral Imagery, Annual Meeting of the U.S. International Association of Landscape Ecology, San Diego, April 2006.
70. Weeks, J., A. Hill, D. Stow, A. Getis, and D. Fugate, 2006, The Impact of Neighnorhood Structure on Health Inequalities in Accra, Ghana, Annual Meeting of the Population Association of America, Los Angeles, March 2006.
71. Stow, D., Y. Hamada, L. Coulter, and Z. Anguelova. Comparison of Per-Pixel and Object-based Approaches for High Spatial Resolution Monitoring of Vegetation Changes, Annual Meeting of the Association of American Geographers, San Francisco, April 2007.
72. Stow, D., Y. Hamada, L. Coulter, and C. Lippitt, Object-Based Monitoring of Fine-Scale Vegetation Changes in Shrubland Habitat, Object-based Image Analysis Symposium, Berkeley, June 2007.
73. Stow, D., C. Lippitt, and J. Weeks, Delineation of Neighbourhoods of Accra, Ghana Based on Segmentation of Quickbird Imagery, GEOBIA 2008, Calgary, August 2008.
74. Stow, D., D. Fitch, A. Hope, and S. Rey, MODIS Vegetation Metrics as Indicators of Hydrological Response in Watersheds of California Mediterranean-type Climate Zones, American Geophysical Union Fall Meeting, San Francisco, December 2008.

75. Stow, D., C. Chason, and C-R Lee, Multiple-pixel Classification Strategies in Support of Object-based Image Analyses, Annual Meeting of the Association of American Geographers, Las Vegas, March 2009.
76. Stow, D. (Moderator), S. Ambrose, V. Ambrosia, and M. Rosenberg, Disaster Technologies: Problems and Solutions With a Focus on Night Time Imaging and Fire Response, Panel Discussion, Thermal Sensing Workshop, Monterey Naval Postgraduate School, Monterey, September 2009.
77. Stow, D., G. Fraley, C. Lippitt, and R. McCreight, Flexible and Inexpensive Airborne Color Infrared Imaging System, Association of Pacific Coast Geographers Annual Meeting, October 2009.
78. Stow, D., S. Toure, C. Lee, C. Chason, and C. Lippitt, Frequency Distribution Signatures and Classification of Within-Object Pixels, GEOBIA 2010, Ghent, Belgium, June 2010.
79. Stow, D., S. Toure, J. Weeks, C.D. Lippitt, and L. Coulter, Vegetation and Building Changes in Accra, Ghana Based on Multitemporal QuickBird Satellite Image Data, Annual Meeting of the Association of American Geographers, Seattle, April 2011.
80. Stow, D. C. Lippitt, S. Toure, L. Coulter and J. Weeks, Object-based Delineation of Urban Neighborhoods of Accra, Ghana from QuickBird Imagery, Annual Meeting of the American Society of Photogrammetry and Remote Sensing, Milwaukee, May, 2011.
81. Stow, D., Lessons Learned on Border Area Projects. San Diego, Workshop on Remote Sensing Applications for US-Mexico Border Water Management, June, 2011.
82. Stow, D., L. Coulter, C.D. Lippitt , G. Fraley, and S. Kumar, Delineation and Classification of Urban Neighborhoods of Accra, Ghana from QuickBird Imagery: Manual vs. Semi-automated Approaches, Annual Meeting of the Association of American Geographers, New York, March 2012.
83. Stow, D., C. Lippitt, S. Toure, L. Coulter and J. Weeks, Detection of Earthquake Damage to Critical Infrastructure with Flexible, Repeat-pass Imaging, Annual Meeting of the American Society of Photogrammetry and Remote Sensing, Sacramento, May, 2012.
84. Coulter, L., D. Stow, C. Chavis, C. D. Lippitt, G. Fraley, R. McCreight, S. Kumar, S. Dua, B. Loveless, Rapid High Spatial Resolution Image Assessment of Post-Earthquake Damage, Annual Meeting of the American Society of Photogrammetry and Remote Sensing, Baltimore, March, 2013.
85. Stow, D., C.L. Lippitt, L. Coulter, Y. Hamada, S. Strahm, D. Deutschman, and K. Greer, Monitoring Ecosystem Conditions Based on Changes in Vegetation Growth Form Fractions Estimated Using SPOT Satellite Data and Spectral Mixture Analysis , Association of American Geographers, Los Angeles, April 2013.
86. Stow, D., L. Coulter, Y-H Tsai, C.D. Lippitt, G. Fraley, and R. McCreight, Detecting Moving Objects with Rapid Succession Airborne Imaging, Annual Meeting of the American Society of Photogrammetry and Remote Sensing, Baltimore, March, 2013.
87. Stow, D., L. Coulter, Y-H Tsai, C.D. Lippitt, and R. McCreight, Implementations of a Repeat Station Imaging Approach for Precise Image Registration and Detailed Change Detection at Varying Temporal Resolutions and Durations, Multitemp 2013, Banff, Canada, June 2013.

88. Stow, D., L. Coulter, J. Weeks, M. Benza-Fiocco, S. Toure, and N. Ibanez. The Urban Transition in Ghana and Its Relation to Land Cover and Land Use Change Through Analysis of Multi-scale and Multi-temporal Satellite Image Data, Annual Meeting of the American Society of Photogrammetry and Remote Sensing, Louisville, March, 2014.
89. Stow, D., Y-H Tsai and L. An. Forest Canopy Cover Change in Fanjingshan National Nature Reserve Annual Meeting of the Association of American Geographers, Tampa, April 2014.
90. Stow, D., L. Coulter, N. Ibanez, M. Benza, Y.-H. Tsai and J. Weeks. Land Cover and Land Use Change in Ghana from 2000 to 2010: Multi-temporal Landsat ETM+ Image Processing Approaches for a Cloud Prone Limited Study Area, Pecora 19 Symposium, Denver, CO, November 2014.
91. Weeks, J., D.A. Stow, D. Lopez-Carr, R. Engstrom, L. Coulter, S. Toure, N. Ibanez, F. Mensah, and S. Taugher. Environmental Drivers of Internal Migration in Ghana, Annual Meeting of the Association of American Geographers, Tampa, April 2014.
92. Benza, M., J. Weeks, D. Stow, D. Lopez-Carr and K. Clarke. Fertility and Urban Context: A case study from West Africa using remotely sensed imagery and GIS, Annual Meeting of the Association of American Geographers, Chicago, April 2015.
93. Shih, H.C. and D. Stow. Determining the Type and Starting Time of Land Cover and Land Use Change Based on Discrete Analyses of Dense Landsat Imagery, Annual Meeting of the Association of American Geographers, Chicago, April 2015.
94. Toure, S. and D. Stow. Land Cover and Land Use Change Analysis Using Multi-Spatial Resolution Data and Object-Based Image Analysis, Annual Meeting of the Association of American Geographers, Chicago, April 2015.
95. Engstrom, R., A. Sandborn, Q. Yu, J. Burgdorfer, D. Stow, J. Weeks and J. Graesser, 2015. Mapping Slums Using Spatial Features in Accra, Ghana. Proceedings Joint Urban Remote Sensing Event March - 1 April 2015, Lausanne, Switzerland
96. Stow, D., H.-C. Shih and L. Coulter, Identification of Urbanization in Ghana Based on a Discrete Approach to Analyzing Dense Landsat Image Stacks, Joint Urban Remote Sensing Event, Lausanne, Switzerland, March, 2015.
97. Storey, M., D. Stow and J. O'Leary, Assessing postfire recovery of chamise chaparral based on spectral vegetation index trajectories derived from multi-temporal Landsat imagery, Annual Meeting of the Association of American Geographers, San Francisco, April 2016.
98. Stow, D., J. Weeks, H.-C. Shih and L. Coulter, Urbanization in Southern Ghana in the First Decade of the New Millennium, Annual Meeting of the Association of American Geographers, San Francisco, April 2016.
99. Toure, S., J. Weeks, D. Lopez-Carr and D. Stow, Understanding the Impacts of Built Environment on Health from Perspectives of Residential Spatial Differentiation, Annual Meeting of the Association of American Geographers, San Francisco, April 2016.

100. Stow, D., L. Coulter, J. Weeks, Y-H Tsai and F. Mensah. Changes in Agricultural Land Use in Southern Ghana in the First Decade of the New Millennium. Annual Meeting of the Association of American Geographers, Boston, March 2017.
101. Stow, D., C. Lippitt, L. Coulter, and A. Loerch. An End-to-end Airborne Remote Sensing System for Post-hazard Assessment of Damage to Hypercritical Infrastructure, Annual Meeting of the American Society of Photogrammetry and Remote Sensing, Denver, February, 2018.
102. Stow, D. Drone Imaging for Science and Public Service Applications, Annual Meeting of the American Association for the Advancement of Science, Austin, February, 2018.
103. Stow, D. Repeat Station Imaging: An Approach to Highly-accurate and Time-sensitive Change Detection, Annual Meeting of the Association of American Geographers, New Orleans, April 2018.
104. Stow, D., G. Schag and P. Riggan. Remote sensing approach and geoprocessing tools for estimating wildfire rate of spread, ESRI poster competition, Annual Meeting of the Association of American Geographers, Washington D.C., April 2019.

Other Articles and Project Reports:

1. Hope, A. and D. Stow (eds.), 1987. Response, Resistance, Resilience and Recovery from Disturbance in Arctic Ecosystems, Report of The R4D Data Extrapolation Workshop, Department of Energy.
2. Stow, D., S. Sperry, R. Parrott, S. Camarata and F. Mertz, 1991. Efficient Updates of Vector-Coded Geographic Information Systems Using Remotely Sensed Data, NASA Earth Observations Commercialization and Application Program Final Report.
3. Franklin, J. and D. Stow, 1993. An Examination of the Utility of Satellite Imagery for Mapping Vegetation in San Diego County, San Diego Associations of Government Final Report.
4. Stow, D. and A. Eshraghi, 1993. High Resolution Digital Imaging for Habitat Restoration Projects, State of California Department of Transportation Final Report.
5. Stow, D., S. Phinn, L. Deysher and J. Zedler, 1995. High Resolution Digital Imaging for Environmental Monitoring Applications, Southern California Edison Final Report.
6. Stow, D. L. Coulter, A. Hope, J. Kaiser, A. DeNoble and L. Deysher, 1997. Frame-based Radiometric Normalization of Multispectral Digital Camera Data for Kelp Monitoring: A Project of the NASA Affiliated Research Center at SDSU, Coastal Resources Associates Partnership, December, 1997.
7. Atchison, P., D. Turner, D. King, W. Barto, D. Stow, J. O’Leary, A. Hope, L. Coulter, P. Longmire, S. Peterson and J. Kaiser, 1998. Use of High Spatial Resolution Multispectral Data to More Efficiently Generate Detailed Vegetation GIS Layers: A Project of the NASA Affiliated Research Center at SDSU, Ogden Energy and Environmental Services, Inc. Partnership, December, 1998.
8. Bamberger, W., D. Stow, V. Franck, L. Coulter, D Chen, A. Hope and J. Kaiser, 1998. New Products from Digital Orthophotographic Quadrangles Using Data Compression: A Project of the NASA Affiliated Research Center at SDSU, San Diego Data Processing Corporation Partnership, January, 1998.

9. Brewster, A., D. Stow, V. Frank, E. Almanza and D. Kamada, 1998. An ADAR Based Habitat Monitoring System, Report for Southern California Edison, July, 1998.
10. Davidson, R., R. Miles, D. Stow, K Yanow, A. Hope and J. Kaiser, 1998. 3-D Virtual Reality Modeling of Digital Elevation, Remotely Sensed and GIS Data for Rapid Wireless Communications Network Design and Display: A Project of the NASA Affiliated Research Center at SDSU, Qualcomm, Inc. Partnership, February, 1998.
11. Stow, D., L. Coulter, C. Langevin, D. Service and J. Kaiser, 1998. Contextual Classification of Changing Land Use Using Multiple Geo-spatial Data Sources: A Project of the NASA Affiliated Research Center at SDSU, Shenandoah Mountain Geographics Partnership, December, 1998.
12. Wesser, A., L. Tucker, D. Stow, D. Chen, S. Daeschner, and J. Kaiser, A. DeNoble, 1998. A Microfeature Change-Detection System Utilizing Very-high Resolution Image Data and Image Processing: A Project of the NASA Affiliated Research Center at SDSU, Aerial Fotobank Partnership, December, 1998.
13. Hope, A., L. Coulter, D. Stow, D. Service, S. Peterson, J. Kaiser, A. Telck, P. Hickman, J. Svejksky, and J. Conger, 2000. Application of High Spatial Resolution Remotely-sensed Imagery to the Management of Sugarbeet Complexes in California's Imperial Valley: A Project of the NASA Affiliated Research Center at SDSU, Holly Agricultural Research Center Partnership, February, 2000.
14. Stow, D., L. Coulter, M. Lowenfish, S. Peterson, A. Hope, and J. Kaiser, 2000. Assessment of the Utility of Image-based Methods for Efficient and Objective Rangeland Monitoring: A Project of the NASA Affiliated Research Center at SDSU, Ranchers Management Corporation partnership, February, 2000.
15. Hope, A., L. Coulter, D. Stow, D. Service, T. Schutte, S. Redlin, S. Peterson, M. Lowenfish, J. Kaiser and A. Walters, 2001. Irrigated Vegetation Assessment in Urban Environments: A project of the NASA Affiliated Research Center at SDSU, AgriCast Incorporated Partnership, May, 2001
16. Lukinbeal, C., J. Kaiser, J. Ryan, D. Stow, K McCurdy and W. Jones, 2001. Using Remote Sensing, GIS and Visualization Techniques to Optimize Location Management for a Regional Film Production Market: A project of the NASA Affiliated Research Center at SDSU, San Diego Film Commission Partnership, January, 2001.
17. Stow, D., A. Hope, L. Coulter, J. Kaiser, D. Service, S. Redlin, K. Schutte and A. Walters, 2001. Utility of ERDAS Imagine Expert Classifier to Improve Image-based Mapping of Irrigated Vegetation in Urban Environments: A project of the NASA Affiliated Research Center at SDSU, AgriCast Incorporated Partnership, May, 2001.
18. Coulter, L., A. Hope, D. Stow, J. Ryan, and J. Kaiser, 2001. The Utility of High Spatial Resolution Multispectral Imagery for Mapping and Monitoring Vernal Pool Habitat in Transitional Urban Environments A project of the NASA Affiliated Research Center at SDSU, City of San Diego Partnership, August, 2002.
19. O'Leary, J.F. and D. Stow, 2002. Vegetation and Land Cover Mapping on Marine Corps Air Station Miramar, San Diego, California. Final Report produced for Marine Corps Air Station Miramar, Environmental Management Department and Southwest Division, Naval Facilities Engineering

Command, San Diego, CA. Produced by the Center for Earth Systems Analysis and Research, Department of Geography, San Diego State University. 65 p., August, 2002.

20. Stow, D., J. Kaiser, L. Coulter, L. Cao, J. Ryan, K. Krauss, 2002. Evaluation and Use of Helicopter Collected High Resolution, Multispectral Imagery to Map Smuggler Trails into the U.S. across the Mexican Border. A project of the NASA Affiliated Research Center at SDSU, Blackhawk Helicopters, Inc. Partnership, April, 2002.
21. Tsou, M., L. Guo, J. Kaiser, E. Almanza, and D. Stow, 2002. Web-based Geospatial Information Services and Analytic Tools for Natural Habitat Conservation and Management A project of the NASA Affiliated Research Center at SDSU, Ed Almanza and Associates, Inc. Partnership, August, 2002.
22. Cao, L., D. Stow, J. Kaiser, L. Coulter, and D. Johnson, 2003. Smuggler's Blues: Mapping Border Trails with Multispectral Imagery, Geospatial Solutions, 32-38.
23. Coulter, L., D. Stow, A. Hope, J. O'Leary, J. Franklin, A. Johnson, E. Witztum, A Petersen, P. Longmire, A. Wall, J Rogan, and E. Almanza, 2003. Regional change monitoring of habitat reserve systems with very high resolution remotely sensed data. NASA Earth Science Directorate Final Report, Food and Fiber Applications of Remote Sensing, Grant # NAG13-99017, 173 pp.
24. Kaiser, L. Cao, L. Coulter, and D. Stow, 2003. Evaluation of a Semi-automated Feature Extraction Method to Delineate and Map Smuggler Trails into the U.S. From Across the Mexican Border, A project of the NASA Affiliated Research Center at SDSU, Conservation Biology Institute Partnership, February, 2003.
25. Stow, D. E. Tarnavsky, L. Coulter, and S. Carnevale, 2003. Optimum Image Acquisition Procedures for Generating Very High Resolution Multi-temporal Data Sets. A project of the NASA Affiliated Research Center at SDSU, San Diego Association of Governments Partnership, August, 2003.
26. Stow, D., M. Niphadkhar, and J. Ryan, 2003. Determining the User Community and Commercial Market for High Resolution Image-Derived Products in Support of Detailed Vegetation Monitoring. A project of the NASA Affiliated Research Center at SDSU, Conservation Biology Institute Partnership, May, 2003.
27. Coulter, L., D. Stow, Y. Hamada, A. Lieberman, S. Lathrop, J. Kaiser, J. Jafolla, L. Hendricks, J. Gilfillan, and J. Giessow, 2004. Assessment of Hyperspectral and Multispectral Imagery for Mapping Invasive Plant Species within Southern California, A project of the NASA Affiliated Research Center at SDSU, Santa Margarita and San Luis Rey Weed Management Area Partnership, April, 2004.
28. Stow, D., J. Kaiser, M. Niphadkhar, E. Tarnavsky, A. Lieberman, L. Coulter, and L. Guo, 2004. Monitoring Changes in Fuel Moisture Conditions of Southern California Chaparral Based on Time Series of MODIS-Derived Indices, a project of the NASA Affiliated Research Center at SDSU, California Department of Forestry and Fire Protection Partnership, March, 2004.
29. Coulter, L., Kropp, S., Stow, D. and Eddie Villavicencio, 2005. Mapping Vegetation Fire Fuels in San Diego City Canyons Using Remotely Sensed Imagery. A project of the NASA Affiliated Research Center at SDSU, City of San Diego Fire-Rescue Department Partnership, June 2005.

30. Hamada, Y., D. Stow, L. Coulter, A. Lieberman, S. Lathrop, J. Kaiser, J. Jafolla, L. Hendricks, J. Gilfillan, and J. Giessow, 2005. Assessment of Hyperspectral and Multispectral Imagery for Mapping Invasive Plant Species within Southern California. A project of the NASA Affiliated Research Center at SDSU, Surface Optics Corporation, Inc. and Santa Margarita and San Luis Rey Weed Management Area Partnership, March, 2005.
31. Stow, D., M. Niphadkar, J. Kaiser, P. Scully and T. Porter, 2005. Monitoring Changes in Live Fuel Moisture Conditions of Southern California Chaparral Based on Time Series of MODIS-derived Indices. A project of the NASA Affiliated Research Center at SDSU, California Department of Forestry and Fire Protection, San Diego Unit Partnership, June 2005.
32. Coulter, L., D. Stow, M. Rosa, S. Lathrop, T. Dougherty, and D. Ochoa, 2009. Assessment of Commercial High Spatial Resolution Imagery for Border Monitoring NASA Research, Education, Application Solutions Program Final Report, June 2009.
33. Coulter, L., D. Stow, M. Tsou, A. Hope, P. Jankowski, and J. Weeks, 2009. A Border Security Spatial Decision Support System Driven by Remotely Sensed Data Inputs, NASA Research, Education, Application Solutions Program Final Report, June 2009.
34. Coulter, L., D. Stow, M. Tsou, A. Hope, P. Jankowski, Spatial-temporal Patterns of Smuggling and Migration, National Center for Border Security and Immigration SDSU Year 1 Report, August 2009.
35. Coulter, L., D. Stow, C. Tsai, M. Caldwell, and J. Metcalf, Assessment of High Spatial Resolution Satellite Imagery for Mapping Airport Features, Federal Aviation Administration, Technical Report, September, 2010.
36. Stow, D., J. Weeks, R. Engstrom, L. An, L. Coulter, D. López-Carr, M. Benza, S. Toure, H. Shih, Y. Tsai, F. Mensah, A. Sandborn, S. Crook, Q. Yu, N. Ibanez, H. Taflin, A. Kerr, A. Copenhaver, Yang Qi, J. Burgdorfer, and K. Clarke. The Urban Transition in Ghana and Its Relation to Land Cover and Land Use Change Through Analysis of Multi-scale and Multi-temporal Satellite Image Data, NASA Land Cover and Land Use Change Interdisciplinary Science Program Earth Science Division, Science Mission Directorate, NASA Award Number: NNX12AM87G, Summary of Research Results, October 2016.

Scholarly Awards and Honors:

1. SDSU Summer Faculty Fellow, 1984.
2. Remote Sensing Society; Best letter for 1985, for "Eulerian Velocity Measurements of Hydrodynamic Surfaces using Optical Flow Methods." In *Remote Sensing Letters - International Journal of Remote Sensing*.
3. SDSU Meritorious Performance and Professional Promise (MPPP) Award, 1987-88 for Professional Growth.
4. SDSU Meritorious Performance and Professional Promise (MPPP) Award, 1989-90 for Professional Growth, Teaching Effectiveness and Service.
5. SDSU Alumni Outstanding Faculty Award for the University, 1996.

6. 2004 Leica Geosystems Award for Best Scientific Paper in Remote Sensing (*Photogrammetric Engineering and Remote Sensing* journal) awarded by American Society of Photogrammetry and Remote Sensing (John Rogan, lead author).
7. 2004 Leica Geosystems Third Place Award for Best Applications Paper in Remote Sensing (*Photogrammetric Engineering and Remote Sensing* journal) awarded by American Society of Photogrammetry and Remote Sensing (Dongmei Chen, lead author).
8. Association of American Geographers (AAG) Remote Sensing Specialty Group (RSSG), Outstanding Contributions in Remote Sensing Award, 2004.
9. SDSU President's Top 25 Award, April, 2004.
10. Phi Beta Kappa – SDSU Faculty Lecturer 2008-09
11. Presidential Leadership Award, San Diego State University, 2009
12. SAIC John Estes Memorial Teaching Award – American Society for Photogrammetry and Remote Sensing, 2013
13. American Society for Photogrammetry and Remote Sensing, ASPRS Fellow Award 2014.
14. Albert W. Johnson University Research Lectureship, SDSU, 2016.
15. John Jensen Distinguished Lecture Series, Annual Lecturer (second in series), New Orleans, LA, 2018.

Research Contracts and Grants:

1. California Institute of Technology President's Fund (NASA) grant; Mapping Pleistocene Shoreline Deposits from Multi-spectral Thermal Infrared and other Remotely Sensed Data for Seismically-active Salton Trough, \$36,000. 1986-1987
2. Principal Investigator, SDSU Grants-in-Aid for Faculty Research; An Assessment of Pacific Mackerel Habitat Using Remotely Sensed Data, \$2,000. 1987.
3. Co-Investigator, California Sea Grant Program (NOAA) grant; Maintenance of Entrance Channels of Coastal Lagoons and River Mouths, \$180,000. 1986-1989.
4. Co-Investigator, Department of Energy subcontract; R4D Arctic Tundra Project, \$460,000. 1987-1991.
5. Co-Investigator, State of California Department of Parks and Recreation Contract; Ecological Monitoring at Rancho Cuyamaca State Park, \$65,000. 1987-93.
6. Principal Investigator, NASA EOCAP Contract, Efficient Updates of Vector-Coded Geographic Information Systems Using Remotely Sensed Data, \$600,000. 1988-1991.
7. Collaborator, NSF Grant, Jornada Long Term Ecological Research Program, \$700,000. 1989-93
8. Principal Investigator, High Resolution Digital Imaging for Habitat Restoration Projects (Riparian Ecosystems), \$35,000, California Dept. of Transportation. 1992-94.

9. Principal Investigator, High Resolution Digital Imaging for Coastal Wetland Restoration Projects, \$300,000, Southern California Edison. 1992-95.
10. Co-Investigator, Regional Estimates of CO₂ Flux for Arctic Tundra Ecosystems, NSF Grant, (Walt Oechel, P.I.), \$1,400,000. 1993-1998.
11. Co-Investigator, GIS Mapping Project for Bi-national Coordinated Land-Use Planning and Education in the Tijuana River Watershed, NOAA Contract, (Richard Wright, P.I.) \$136,000. 1994-1995.
12. Co-Investigator, High Resolution Multispectral Imaging for Environmental Monitoring Applications, NASA and Positive Systems, Inc. Subcontract, (Cody Benkelman, P.I.), \$195,000. 1994-1996.
13. Principal Investigator, Estuarine Wetland and Watershed Inventory Using NOAA's CoastWatch Change Analysis Project Protocol in California's Central Coast, NOAA and Calif. Coastal Commission, \$13,000. 1995-96.
14. Principal Investigator, Use of High Resolution Digital Camera Data to Map Wildlife Habitat in the Torrey Pines State Park Reserve, State of California Parks and Recreation and Los Penasquitos Lagoon Foundation, \$12,000. 1996-1997.
15. Co-Investigator, Geo-spatial Technologies for Monitoring Shrubland Habitats in Southern California, Electrical Power Research Institute Contracts, (Ed Almanza, P.I.), \$60,000. 1997-1999.
16. Principal Investigator, NASA Visiting Investigator Program Affiliate Center, NASA Contract, \$475,000, 1997-1999.
17. Co-Investigator, NSF/DOE/NASA TECO Program, Patterns and Controls of Temporal Variation in CO₂ Sequestration and Loss from Arctic Ecosystems, National Science Foundation, (Walt Oechel, P.I.). \$260,000, 1998-2000.
18. Co-Investigator, Regional Variability in Carbon and Energy Fluxes: Towards a Global Synthesis, NSF Land-Air-Ice-Interactions ATLAS Study Grant, (Walt Oechel, P.I.), \$2,100,000 1999 – 2004.
19. Principal Investigator, US Department of Transportation, Subcontract for Shenandoah Mountain Geographics, Inc., Updating Land Use Information in Support of Transportation Planning, \$32,000, 1999-2000.
20. Principal Investigator, NASA Remote Sensing Applications Research in Agriculture, Forestry and Range Resources Management, Regional Change Monitoring of Habitat Reserve Systems with Very High Resolution Remotely Sensed Data, \$190,000/yr., 1999-2003.
21. Principal Investigator, California Department of Fish & Game – Subcontract to the City of San Diego, Application of Digital Imaging Technologies for Monitoring and Managing MSCP/NCCP Reserves, \$141,000 1999-2001.
22. Co-Investigator, Operational Monitoring of Alteration in Regional Land Cover Using Multitemporal Remote Sensing Data, NASA Land-Cover and Land-Use Change Program Grant (Janet Franklin, P.I.), \$360,000, 1999–2003.

23. Co-Investigator, Applying Remote Sensing/GISA to Arab Fertility, NSF Geography and Regional Science Program Grant (John Weeks, P.I.), \$350,00, 2001-2004.
24. Co-Investigator, San Diego County-Baja California Water Quality Prediction and Monitoring Program. California State Water Resources Control Board. (Richard Wright, P.I.), \$190,000. 6/2001 through 8/2003.
25. Principal Investigator, City of San Diego, Vernal Pool Change Detection at the Otay Mesa Vernal Pool Restoration Site and Habitat Quality Evaluation in Marron Valley, \$53,000, 2002-2003.
26. Principal Investigator, NASA Affiliated Research Center, Earth Science Applications Division, \$992,000 2000-2006.
27. Principal Investigator, Spatial Decision Support System for Border Security, NASA Research Applications and Education Solutions Network, Earth Science Applications Division, \$1,800,000, 2003-2008.
28. Co-Investigator, Intra-urban Health Assessed by Remote-sensing and GIS, National Institute of Child Health and Human Development, (John Weeks, P.I.), \$208,000, 2004-2006.
29. Co-Investigator, Regional Hydrological Response of Semi-Arid Mediterranean Climate Watersheds to Land-Cover/Land-Use Variability, NASA Land-Cover and Land-Use Change, (Allen Hope, P.I.), \$586,000, 2005-2008.
30. Co-Investigator, Health, Poverty and Place: Modeling Inequalities in Accra Using Remote Sensing and GIS, National Institute of Child Health and Human Development, (John Weeks, P.I.), \$2,500,000, 2007-2013.
31. Co-Investigator, Office of National Drug Control Policy, Counter-Drug Technology Assessment Center Target Mapping System (Eric Frost, P.I.), \$2,200,000, 2007-2008.
32. Co-Investigator, Department of Homeland Security, Spatial-temporal Patterns of Smuggling and Migration, National Center for Border Security and Immigration, University of Arizona, \$430,000, July 2008- June 2014.
33. Principal Investigator, Federal Aviation Administration, Satellite Imagery Assessment, \$111,000, January – December 2010.
34. Principal Investigator, US Forest Service, Airborne Remote Sensing to Enable Hazardous Fuels Reduction, Forest Health Protection, Rehabilitation and Hazard Mitigation Activities on Federal Lands, \$435,000, March 2010 – February 2013.
35. Principal Investigator, Department of Homeland Security, Rapid, High Spatial Resolution Image Assessment of Post-Earthquake Damage Assessment, \$245,000, July 2011 – February 2013.
36. Co-Investigator, Evaluation and Refinement of Vegetation Monitoring Methods for the San Diego Multispecies Conservation Program (MSCP), San Diego Association of Governments, (Douglas Deutschman, P.I.), \$200,000, January 2012-December 2013.

37. Principal Investigator, NASA Interdisciplinary Science, Earth Science Division, The Urban Transition in Ghana and Its Relation to Land Cover and Land Use Change Through Analysis of Multi-scale and Multi-temporal Satellite Image Data, \$992,960 2012-2015.
38. Co-Investigator, NSF Dynamic Coupled Natural-Human Systems Program, Impacts of Ecosystem Service Payments in Coupled Natural and Human Systems (Li An, P.I.), \$1,500,000, 2012-2017.
39. Principal Investigator, NSF Infrastructure Management and Extreme Events, Rapid and Detailed Assessment of Post-hazard Damage to Critical Infrastructure, \$365,320, 2014-2016.
40. Co-Principal Investigator, US Department of Transportation, Development of a Remote Sensing Network for Time-sensitive Detection of Fine Scale Damage to Transportation Infrastructure, \$146,500, 2014-2016.
41. Principal Investigator, NSF Geography and Spatial Sciences, Landscape-level Measurements of and Controls on Wildfire Spread Rates, \$295,000, 2016-2020.
42. Co-Principal Investigator, US Forest Service, Extension of MODIS-based drought-stress product and automation of airborne imagery processing, \$12,865, 2016.
43. Co-Principal Investigator, US Navy, Vegetation Mapping at NALF San Clemente Island, \$345,700, 2015-2018.
44. Principal Investigator, NASA, Earth Science Fellowship, Emanuel Storey, \$82K.
45. Co-Principal Investigator, US Forest Service, Effects of Drought Stress and Forest Management on Fire Behavior and Post-Fire Forest Structure in a Western Coniferous Forest, \$112,000, 2018 – 2024.
46. Principal Investigator, US Navy, Shrub Cover Monitoring and Sensitivity Analyses of Vegetation Community Maps for San Clemente Island, CA, \$226,861, 2018-2020.
47. Co-Investigator, National Science Foundation Award “CNH-L: People, Place, and Payments in Complex Human-Environment Systems, Impacts of Ecosystem Service Payments in Coupled Natural and Human Systems (Li An, P.I.), \$1,450,000, 2018-2022.
48. Co-Investigator, California Strategic Growth Council, Climate Smart Connectivity Planning for Southern California Communities, \$1,800,000, 2019-2023.

Patents and Intellectual Property

COULTER L 2: Systems, methods and devices for repeat pass imaging for wide area intermittent video" patent number 9,756,293 (Contributor)

COULTER L 2 CON: WIDE AREA INTERMITTENT VIDEO USING NON-ORTHORECTIFIED FEATURE MATCHING IN A LONG PERIOD AERIAL IMAGE CAPTURE WITH PIXEL-BASED GEOREFERENCING, U.S. Patent Application no 15695821 (Contributor)

STOW D 1: IMAGE STATION MATCHING, PREPROCESSING, SPATIAL REGISTRATION AND CHANGE DETECTION WITH MULTI-TEMPORAL REMOTELY-SENSED IMAGERY, Patent no. 9977978 (Co-inventor)

STOW D 1 CON: IMAGE STATION MATCHING, PREPROCESSING, SPATIAL REGISTRATION AND CHANGE DETECTION WITH MULTITEMPORAL REMOTELY-SENSED IMAGERY, Application No. 15/960,298; pending claims (Co-inventor)

Journal Editorial Responsibilities:

Associate Editor, *International Journal of Remote Sensing*, 2009 – present.

Editorial Board Member, *GIScience and Remote Sensing*, 2005– present.

Participation in Professional Associations:

American Association of Geographers, Washington D.C.; Full Member.

American Geophysical Union, Washington D.C.; Full Member.

American Society of Photogrammetry and Remote Sensing, Falls Church, Virginia; Full Member.

NASA Land Processes Distributed Active Archive Center, Science Panel Member, 1995-2007.

Phi Kappa Phi Scholarly Association, Faculty Member

Phi Beta Delta International Scholars Society, Faculty Member

SPOT Image Corporation (SICORP) Academic Advisor Committee, Reston, Virginia; Council Member.

Remote Sensing Specialty Group - Association of American Geographers, Regional Councilor, 1992-1995, Chair, Awards Committee, 2004 to present, Program Chair, 1992 and 2003.

Co-Chair and Student Volunteer Coordinator, American Society for Remote Sensing and Photogrammetry Annual Meeting, San Diego, November 2008 – June 2010.

Adviser, SDSU Student Chapter, American Society for Remote Sensing and Photogrammetry, 2009-present.

Consultant Services

Analysis of the Reliability of Photogrammetric Estimates of Culvert Sizes Using Stereo Ground Photographs, Higgs, Fletcher & Mack, Attorneys-at-Law; expert witness; legal ramifications of photogrammetric measurements of engineering structures, 1986.

Interpretation of Aerial Photographs to Measure Off-Road Vehicle (ORV) Disturbance in the California Desert District, U. S. Bureau of Land Management; principal consultant, designer of field and image sample design, supervisor of student intern; learned how to develop sampling strategies for large area estimates of ORV-related disturbances of deserts, 1989.

Remote sensing system evaluation for the development of an inland wetland monitoring system. Scientific and technical consultant to Environmental Science and Engineering, Inc. of Tampa, Florida for the West Coast Regional Water Supply Authority in Florida, 1996-98.

Precise Automatic Image Co-registration Tools to Enable Pixel-level Change Detection, scientific and technical consultant to Positive Systems, Inc. for NASA Small Business Innovative Research project, Contract NNS04AA28C, 2004-06.

Committee Assignments and Other University Service

California State University System:

Chair, Remote Sensing Committee, State-wide GIS Specialty Center, 2003-2014.

San Diego State University:

Member, Areas of Excellence Cluster Hiring – Faculty Review Committee April to May 2013.

Special Assistant for Enrollment Management, Academic Affairs, January 2011 to August 2012.

Reviewer, Department of Geological Sciences Program Review Committee, 2008.

Member, Intercollegiate Athletics Authority, 1998-present.

Member, Campanile Foundation, Athletics Sub-committee, 2008-09.

Member, Enrollment Management Committee, 2004 - present Chair, Intercollegiate Athletics Authority Board, 2000 – 2006.

Chair, Governance and Compliance Subcommittee, NCAA Athletics Program Review, 2004-06.

Reviewer, Ad hoc Committee for Review of Joint Doctoral Program in Ecology, SDSU-UC Davis, Spring 2005.

Chair, Associate Vice President of Research and Dean of Graduate Studies Search Committee, AY 2002-03.

Associate Vice President of Research and Dean of Graduate Studies Search Committee, AY 2001-02 and 2004-05.

SDSU Foundation General Manager Search Committee, AY 1999-2000.

Chair, Academic Progress & Eligibility Committee, Intercollegiate Athletics Authority, 1998-2000.

Faculty Merit Increase Appeals Committee for AY 1998-99, Dec. 1999.

Middle East Desert Development Program, Advisor to SDSU Foundation and Workshop Facilitator.

Instructor, University (Freshman) Seminar, Fall Semesters 1994-1996.

Panel Member, Formation of a Center for Applied Lands Research at SDSU.

Presented “The CESAR lab as an integrated instructional and research facility” to San Diego high school councilors, 1994.

Presented “The CESAR lab as an integrated instructional and research facility” to Executive Vice Chancellor Molly Broad, 1993.

Panel discussion on the Teacher-Scholar Model at San Diego State University, WASC Accreditation Visit, 1993.

Associate Dean of Graduate Division Search Committee, 1991-1992.

Graduate Council and Graduate Curriculum Committee, Fall 1988 -present.

Center for Marine Studies, Fall 1986 - Spring 1988; member of Executive Committee.

Systems Biology Research Group, Fall 1988 - 1999; faculty member of Advisory Committee.

Commencement Marshall, 1987, 1989, 1991, 1997, 1999, 2000-2003, 2005-2008.

Graduate Division, Spring 1987, reviewer of summer faculty fellowship proposals.

College of Arts & Letters:

Academic Policy and Planning, 2018

Research and Teaching Awards, 2017

Instructionally-Related Activities, 2016

Sabbatical and Professional Leaves Committee, 2006-2008.

Research Committee, Fall 1984- Spring 1986, Fall 1997 - Spring 1999.

Outstanding Professor Selection Committee, 1992-1995, 1997-1999.

Presentation of College of Arts & Letters Showcase, Counselors’ Conference, 1994.

Personnel Committee (Promotions and Tenure), 1991-92, 2010-11.

SSRL Steering Committee, Spring 1985 (sabbatical replacement).

Department of Geography:

Department Chair, Fall 1992 - Fall 1997.

Interim Department Chair, Spring-Summer 2019.

Doctoral Program Adviser, Fall 1998 – 2013; Interim Adviser 2017.

PhD Committee, Fall 1991 – 2015.

Masters Program Advising Committee, ex-officio member, 1998 – 2013.

Center for Earth Systems Analysis Research, Fall 1986 - present; Co-director and a principal investigator; oversee purchases of equipment and supplies, training, etc.
Computing Committee, 2002 - 2010.

Assessments Committee, Fall 2000 - 2003.

Policy Advisory Committee (elected member): Fall 1985 - Spring 1987, Fall 1988 - Spring 1989; chair Fall 1988 - Spring 1989; Fall 2002 - 2004; Fall 2006-2008; Fall 2014-16, Fall 2017-Spring 2018; advise Department Chair, initiate and enforce departmental policy, select graduate assistants.

Personnel Committee; 1990 - 2018.

Hiring Committee; Fall 2013-Fall 2015.

Colloquium presentation "Commercial and Public Sector Applications of Remote Sensing: Results from Two NASA Projects", Spring 2000.

Scholarships and Awards Committee, AY 1999-2000, 2010-2011.

Colloquium presentation (with others associated with CESAR): What's Up in the Way of Geographic Technologies at the Center for Earth Systems Analysis Research (CESAR)?," October 1992.

Geojaunt (informal bag lunch slide presentation), "What do Egypt and Thailand have in Common?" May, 1990.

Geojaunt , "What Do South Africa and Spain Have in Common?," April, 1990.

Ad Hoc Committee on Joint Doctoral Program, Spring 1988 1990; member; assisted in generation of proposal, curriculum and catalog copy, and have attended meetings in San Diego and Santa Barbara for proposed program with U.C.-Santa Barbara.

Ad Hoc Committee on Journals, Fall 1989; member; update University library holdings.

Budget Committee, Fall 1983 - Spring 1990; member; chair Fall 1985 - Spring 1986, Fall 1989 - Spring 1990.

Internal Operations Committee, Fall 1983- Spring 1985, Fall 1990; chair Fall 1984 - Spring 1985, Fall 1998 to 2000.

Service to the Community:

Articles in Newspapers

Article in San Diego Union Tribune Quest section on NASA project pertaining to habitat monitoring in San Diego County, November, 2001.

Supplied information and graphics for Maps, Bytes and the Revolution in Geography, College of Arts and Letters Alumni Newsletter, Fall 2000.

Supplied information for article on commercial satellites in San Diego Union Tribune, Fall 1999.

Supplied information and graphics for Satellite, Computers New Tools of Discovery for SDSU Geographers, CSU Stateline, April 1989.

Supplied information and graphics for Remapping an Ancient Science: The New Face of Geography, SDSU Alumni Newsletter.

XTRA News Radio Interview on remote sensing and GIS technology and related research projects at SDSU, 1987.

Supplied information/interview for Daily Aztec Articles on Geography Program/weather station.

Supplied information/interview for Daily Aztec Articles on Geography Program/weather station.

Television

Interviewed on CW6 Channel 6 TV, Televisa Tijuana Channel 12 and San Diego Union-Tribune – UAV imaging for post-disaster assessment 2/2015

Interviewed on KFMB Channel 8 TV News – San Diego wildfires 10/2008

Interviewed on KUSI Channel 51 News - CESAR Laboratory, 6/2002 and 11/2005

Interviewed on Fox Channel 6 News - Launch of IKONOS commercial satellite, 12/1999.

Other Services to Community

Presenter, Geography Awareness Week Presentations on GIScience Applications: Patrick Henry H.S. November 2011 - 2015; Hoover H.S. November 2010, Francis Parker School November 1999, 2000, 2001.

Member, Vegetation Mapping Subcommittee, Transnet Environmental Task Force, San Diego Association of Governments, 2008 – present.

Speaker, Current Technologies and Applications, Technologies for Monitoring Habitats and Preserves, June 2006.

Speaker, Applications of Remote Sensing to Land Use Changes in San Diego County, San Diego Partners for Biodiversity, May 2003.

Speaker, Serving Imagery in Wireless and Optical Formats Via the Internet in the Context of Monitoring Habitat Reserves and Adjacent Lands presented at SDSU Technology Show and Tell, June 2002.

Speaker, San Diego Urban Regional Information Systems (URISA) Chapter, October 2000.

Speaker, San Diego Women's Environmental Council, October 2000.

Speaker, Technology Advisory Committee of the San Diego Multiple Species Conservation Program, October 2000.

Co-Chair, City of San Diego Multiple Species Conservation Program, Technical Advisory Committee, 1998 to present.

Member Selection Committee, San Diego County Imagery Consortium, July 2000 - May 2001.

City of San Diego Multiple Species Conservation Program, Habitat Tracking Committee, 1998-99.

Speaker, Forest Service Bureau of Land Management 11th Annual Meeting, San Diego, 1993.

Workshop Speaker, Workshop on the Use of Geographic Information Systems and Digital Image Processing Land Use Analysis and Facilities Planning and Monitoring, sponsored by the Center for Earth Systems Analysis Research (CESAR), Department of Geography, 1992.

Contributor, first ERDAS training video for teaching remote sensing, 1992.

Speaker, Meeting on Satellite Imaging and Remote Sensing, sponsored by URISA San Diego, 1992.

Host, California Map Society Meetings, 1991.

Workshop Speaker, Workshop on the Use of Geographic Information Systems (GIS) and Digital Image Processing (DIP) in Land Use Analysis, Planning and Monitoring, for City/County Managers and Land Use Planning Directors, sponsored by the Center for Earth Systems Analysis Research (CESAR), Department of Geography, 1991.

Speaker, Remote Sensing and Image Interpretation for Earth Observations, The Twelve-Thirty Club of La Jolla, April 1990, retired senior citizens.

Basic Concepts of Remote Sensing and Digital Image Processing and the ERDAS - ARC/INFO Live Link, Hungry Valley SVRA GIS Workshop, SDSU, June 1989; lecturer.

ERDAS and Basic Concepts of Remote Sensing/Image Processing, Cuyamaca Ranch State Park GIS Workshop, SDSU, April 1988; organizer and lecturer.

Aerial Photographic Interpretation for Resource Management, Short Course for State of California Resources Agency, Santa Barbara, March 1988; lecturer and lab designer.

Remote Sensing and Physical Geography, Geography Workshop for Secondary Educators, SDSU, August 1984.