

OpenTopography Publications Report

Compiled by: Tsurue Sato, Arizona State University

OpenTopography has been cited/used for various disciplines that include earth science, geomorphology, seismology, paleoseismology, environmental science, ecology, hydrology, geography, GIS, remote sensing, geophysical mapping, post-disaster management, tsunami hazard warning, archaeology, computer science, civil engineering, high quality solar potential analysis, military, etc. Many of them appreciate the high quality OpenTopography LiDAR data with excellent resolution and accuracy. OpenTopography data were used for the April 4 2010 magnitude 7.2 El Mayor-Cucapah earthquake in northern Baja, Mexico and for the January 12 2010 magnitude 7.0 Haiti earthquake.

Recent large earthquakes including the March 11 2011 magnitude 9.0 Japan earthquake have made people more concerned, especially with the ones along the San Andreas Fault. OpenTopography data can contribute to more people who would like to know more about the possible earthquakes along the San Andreas Fault.

OpenTopography data has also been used for education materials, such as a lab exercises for GIS and earth science classes. This is an excellent method to spread OpenTopography.

However, softwares such as ArcGIS are expensive. Nowadays, portable tools such as iPods/iPhones and tablets have been widely used. Some kind of applets can advertize the OpenTopography to the public.

Many bloggers have referred to OpenTopography. They are not limited to the United States but include Viet Nam, Spain, Japan, Guinea, etc. Some of them have attended the workshops that were organized by the OpenTopography project members. Some of them recommend the tutorials that the OpenTopography Portal offers.

As some of the bloggers have noted, OpenTopography data only covers parts of Alaska, Washington, Wyoming, Utah, Arizona, and Haiti. More data are awaited.

The methodology I mainly used for searching the following materials is Google Search and Google Scholar Search using the search keywords such as "OpenTopography," and "GEON." Other methodology includes Google Search using the OT user names and using the author names of the materials that I found.

(D = Direct usage, I = Indirect usage)

Domain: Computer Science

- *Type: PR (Peer Review)*

Nandigam, V., Baru, C., and Crosby, C. (2010). Database design for high-resolution LiDAR topography data. Scientific and Statistical Database Management Lecture Notes in Computer Science 6187, 151-159. (D)

- *Type: M (Meeting)*

Crosby, C. J., Nandigam, V., Arrowsmith, R., and Blair, J. L. (2010). Database Objects vs Files: Evaluation of alternative strategies for managing large remote sensing data. *Geophysical Research Abstracts* 12, 12147. (D)

Baru, C. (2010). Cyberinfrastructure for online access to high-quality data: Advances and opportunities. American Geophysical Union, Fall Meeting 2010, Abstract #IN22A-01. (D)

- *Type: T (Thesis)*

Thibault, B. Thesis and independent study topics.

<http://www.mcs.csueastbay.edu/~tebo/ThesisTopics.html>. (Last accessed 15 April 2011). (I)

- *Type: W (Web)*

International Science Grid This Week (iSGTW) (2010). Image of the week: Seeing with lasers.

<http://www.isgtw.org/visualization/image-week-seeing-lasers>. (Last accessed 15 April 2011). (D)

Domain: Earth science

- *Type: PR (Peer Review)*

DeLong, S. B., Prentice, C. S., Hilley, G. E., Ebert, Y. (2011). Multitemporal ALSM change detection, sediment delivery, and process mapping at an active earthflow. *Earth Surface Processes and Landforms* 36, 2234 -. (D)

Cros, E., Roux, P., Vandemeulebrouck, J. and Kedar, S. (2011). Locating hydrothermal acoustic sources at Old Faithful Geyser using Matched Field Processing. *Geophysical Journal International*. (D)

Akciz, S. O., Ludwig, L. G., Arrowsmith, J. R., Zielke, O. (2010). Century-long average time intervals between earthquake ruptures of the San Andreas fault in the Carrizo Plain, California. *Geology* 38, 787-790. (D)

Toke, N., Arrowsmith, J. R., Rymer, M. J., Landgraf, A., Haddad, D. E., Busch, M., Coyan, J., and Hannah, A. (2011). Late Holocene slip rate of the San Andreas fault and its accommodation by creep and moderate-magnitude earthquakes at Parkfield, California. *Geology* 39, 243-246. (D)

Zielke, O., Arrowsmith, J. R., Ludwig, L. G., and Akciz, S. O. (2010). Slip in the 1857 and Earlier Large Earthquakes Along the Carrizo Plain, San Andreas Fault. *Science* 327, 1119-1122. (D)

Arrowsmith, J. R., and Zielke, O. (2009). Tectonic geomorphology of the San Andreas Fault zone from high resolution topography: An example from the Cholame segment. *Geomorphology* 113, 70-81. (D)

McCalpin, J. P. (2009). *Paleoseismology*, 37. (D)

Jaworowski, C., Heasler, H. P., Neale, C. M. U., and Sivarajan, S. (2010). Using thermal infrared imagery and LiDAR in Yellowstone Geyser Basins. *Yellowstone Science*, 8, 8-19. (D)

Prentice, C. S., Crosby, C. J., Whitehill, C. S., Arrowsmith, J. R., Furlong, K. P., and Phillips, D. A. (2009). Illuminating Northern California's active faults. *Eos Trans. AGU*, 90, 55-56. (D)

Smith, J. M., and Pain, C. F. (2009). Applications of remote sensing in geomorphology. *Progress in Physical Geography* 33, 568-582. (I)

- *Type: M (Meeting)*

Leprince, S., Hudnut, K. W., Akciz, S. O., Hinojosa-Corona, A., and Fletcher, J. M. (2011). Surface rupture and slip variation induced by the 2010 El Mayor-Cucapah earthquake, Baja California, quantified using COSI-Corr analysis on pre- and post-earthquake LiDAR acquisitions. American Geophysical Union, Fall Meeting 2011, Abstract #EP41A-0596. (D)

Oskin, M. E., Arrowsmith, R., Hinojosa-Corona, A., Elliott, A. J., Teran, O. J., Fletcher, J. M., Saripalli, S., and Banesh, D. (2011). Near-field coseismic deformation quantified from differential airborne LiDAR of the El Mayor-Cucapah earthquake surface rupture (Invited). American Geophysical Union, Fall Meeting 2011, Abstract #T34C-01. (D)

Perez, F. G., Bryant, W. A., Treiman, J. A., Real, C. R., and Hook, S. J. (2011). Use of integrated MASTER multispectral imagery and LiDAR DEM for active fault detection and evaluation. American Geophysical Union, Fall Meeting 2011, Abstract #NH53A-1728.

Hinojosa-Corona, A. (2011). El temblor M7.2 del 4 Abril 2010 en Baja California, el rompimiento en superficie de la falla: su reconocimiento por levantamientos LiDAR aereos y terrestres. 2011 SELPER Meeting. (D)

Perez, F. G., Bryant, W. A., Treiman, J. A., Real, C. R., and Hook, S. J. (2011). Use of integrated MASTER multispectral imagery and LiDAR DEM for active fault detection and evaluation. 2011 SCEC Annual Meeting, Abstract #A-144.

Crosby, C. J., Nandigam, V., Krishnan, S. Phan, M. Cowart, C. A., Arrowsmith, R., and Baru, C. (2010). A scalable infrastructure for Lidar topography data distribution, processing, and discovery. American Geophysical Union, Fall Meeting 2010, Abstract #/N32A-05. (D)

Crosby, C., Nandigam, V., Arrowsmith, R., and Baru, C. (2010). Enabling access to high-resolution Lidar topography for earth science research. EGU General Assembly 2010, held 2 - 7 May, 2010 in Vienna, Austria, 14544. (D)

Crosby, C. J.; Nandigam, V.; Arrowsmith, R.; Blair, J. L. (2009). Visualization of high-resolution LiDAR topography in Google Earth, American Geophysical Union, Fall Meeting 2009, Abstract #/N33A-1034. (D)

Phillips, D. A., Jackson, M. E., Meertens, C. M., and Miller, M. M. (2009). Airborne and terrestrial laser scanning activities at UNAVCO: From GeoEarthScope to INTERFACE and beyond. American Geophysical Union, Spring Meeting 2009, Abstract #G31A-01. (D)

Crosby, C., Nandigam, V., and Baru, C. (2009). Recommendation systems for geoscience data portals built by analyzing usage patterns. EGU General Assembly 2009, held 19-24 April, 2009 in Vienna, Austria <http://meetings.copernicus.org/egu2009>, p.6620. (D)

Crosby, C. J., Blair, J. L., Nandigam, V., Memon, A., Baru, C., Arrowsmith, J. R. (2008). KML-based access and visualization of high resolution LiDAR topography. American Geophysical Union, Fall Meeting 2008, Abstract #IN41B-1149. (D)

Crosby, C. J., Nandigam, V., Arrowsmith, J. R., Balakrishnan, S., Alex, N., and Baru, C. (2008). A cyberinfrastructure platform for distribution of GeoEarthScope LiDAR topography data. American Geophysical Union, Fall Meeting 2008, Abstract #IN51A-1146. (D)

Arrowsmith, R., and Crosby, C. J. (2010). Meter-scale characterization of surface processes and fault-related deformation using LiDAR topography. Abstract EP44B-04 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 December 2010. (D)

Robinson, S. E., Arrowsmith, R., de Groot, R. M., Crosby, C. J., Whitesides, A. S., and Colonga, J. (2010). Integrating LiDAR data into earth science education. American Geophysical Union, Fall Meeting 2010, Abstract #ED23B-0723. (D)

Robinson, S. E., Arrowsmith, R., and Crosby, C. J. (2009). Wallace Creek virtual field trip: Teaching geoscience concepts with LiDAR. American Geophysical Union, Fall Meeting 2009, Abstract #ED51A-0519. (D)

Cronin, V. S., Lindsay, R., and Dunbar, J. (2009). Finding probable seismogenic faults using EarthScope (and other) data an the seismo-lineament analysis method. Association of Environmental and Engineering Geologists National Meeting, South Lake Tahoe, September 2009. http://www.aegweb.org/files/public/2009_Annual_Meeting_Abstracts_and_Speaker_Index.pdf. (Last accessed 15 April 2011). (I)

Phillips D. A., Jackson M. E., and Meertens, C. M. (2009). Airborne and terrestrial laser scanning activities at UNAVCO: Project highlights and new support resources. 2009 Southern California Earthquake Center Annual Meeting, 12-16 September 2009. <http://www.scec.org/meetings/2009am/2009SCECAAnnualMeetingVolume.pdf>. (I)

Perez, F., Bryant, W., and Wills, C. (2007). Utility of LiDAR and NAIP/ADS40 imagery in updating/revising Alquist-Priolo earthquake fault zone maps. SCEC 2007 Annual Meeting, Palm Springs, California, Abstract, p. 156.

- *Type: R (Report)*

Furgo William Lettis & Associates, Inc. (2011). Paleoseismic investigations of Holocene earthquake recurrence on the peninsula segment of the San Andreas Fault, Woodside, CA: Collaborative research with Furgo William Lettis & Associates and the United States Geological Survey, joint project with Judy Zachariassen, URS Corporation. Final technical report, National Earthquake Hazards Reduction Program, United States Geological Survey, 36 p. <http://earthquake.usgs.gov/research/external/reports/06HQGR0195.pdf> (Last accessed 8 September 2011). (D)

URS Corporation. (2011). Paleoseismic investigations of Holocene earthquake recurrence on the peninsula segment of the San Andreas fault, Woodside, CA: Collaborative research with URS Corporation and the United States Geological Survey; Joint project with John Baldwin and Ozgur Kozaci, Furgo Willima Lettis and Associates. Final technical report, National Earthquake Hazards Reduction

Program, United States Geological Survey, 32 p.

<http://earthquake.usgs.gov/research/external/reports/G09AP00048.pdf> (Last accessed 8 September, 2011). (D)

Rathje, E., Bachhuber, J., Cox, B., French, J., Green, R., Olson, S., Rix, G., Wells, D., and Suncar, O. (2010). Geotechnical Engineering Reconnaissance of the 2010 Haiti Earthquake, Chapter 5.0 Damage Patterns. http://www.geerassociation.org/GEER_Post%20EQ%20Reports/Haiti_2010/0-GEER%20Web%20Report%20Version%201/Haiti%20Report%202010.pdf. (Last accessed 15 April 2011). (D)

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Brandenberg, S. J., Fletcher, J., Gingery, J. R., Hudnut, K. W., McCrink, T., Meneses, J. F., Murbach, D., Rockwell, T., Stewart, J. P., and Tinsley, J. (2010). Preliminary report on seismological and geotechnical engineering aspects of the April 4 2010 Mx 7.2 El Mayor-Cucapah (Mexico) earthquake. http://www.geerassociation.org/GEER_Post%20EQ%20Reports/Baja%20California_2010/Baja10_Ch02.html. (Last accessed 15 April 2011). (D)

Carignan, K. S., Taylor, L. A., Eakins, B. W., Caldwell, R. J., Friday, D. Z., Grothe, P. R., and Lim, E. (2010). Digital Elevation Models of Central California and San Francisco Bay: Procedures, Data Sources and Analysis. http://www.ngdc.noaa.gov/mgg/inundation/tigp/ngdc/data/san_francisco_bay_ca/san_francisco_bay_ca.pdf. (Last accessed 15 April 2011). (D)

USGS, Yellowstone Volcano Observatory (2010). New technologies help characterize hydrothermal activity at Yellowstone. <http://volcanoes.usgs.gov/yvo/publications/2010/jaworowski.php>. (Last accessed 15 April 2011). (D)

Community Surface Dynamics Modeling System (CSDMS) (2009). 2009 CSDMS Semi-annual report. http://csdms.colorado.edu/mediawiki/images/2009_CSDMS_semiannual_report.pdf. (I)

- *Type: T (Thesis)*

Foster, M. (2010). Knickpoints in tributaries of the South Fork Eel River, northern California. A thesis presented to the Faculty of Humboldt State University in partial fulfillment of the requirements for the degree Master of Science. <http://humboldt-dspace.calstate.edu/xmlui/bitstream/handle/2148/623/ThesiswithFigures.pdf?sequence=1>. (Last accessed 15 April 2011). (D)

- *Type: OT (OT publication)*

Zielke, O. (2009). LaDiCaoz: A Matlab graphical user interface to calculate the lateral displacement of offset geomorphic features. http://opentopo.sdsc.edu/shortcourses/09SCEC_course/LaDiCaoz_Tutorial2.pdf. (Last accessed 15 April 2011). (D)

- *Type: ED (Education)*

Harbor, David (2011). Processing and use of LiDAR data;
<http://geology.wlu.edu/harbor/geol260/index.htm>. (Last accessed 15 April 2011). (D)

- *Type: W (Web)*

Arrowsmith, R. (2010). Geomorphological Features in high-resolution data. <http://media.marine-geo.org/image/geomorphological-features-high-resolution-data-2010>. (Last accessed 15 April 2011). (D)

Haddad, D. (2010). High-resolution digital topography in Arizona. Arizona Geology 40.
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Smith, R. B. (2010). Earth science web sites and related information for Yellowstone-Teton area.
http://mms.nps.gov/yell/ofvec/resources/EarthScienceWebSites_Yell-Teton.pdf. (Last accessed 15 April 2011). (I)

EarthScope (2009). EarthScope News.
http://www.usarray.org/files/docs/pubs/onsite/onSite_winter09_Final-lorez.pdf. (Last accessed 15 April 2011). (I)

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<http://www.oregongeology.org/sub/links/lidarLinks.HTM>. (Last accessed 15 April 2011). (I)

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Wheaton, J. M. Research linkinggFluvial geomorphology & ecohydraulics: Web applications, airborne LiDaR. <http://www.joewheaton.org/river-links/web-applications>. (Last accessed 15 April 2011). (I)

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Allison, L. (2010). Arizona Geology: LIDAR topography of El Mayor - Cucapah earthquake region.
<http://arizonageology.blogspot.com/2010/05/lidar-topography-of-el-mayor-cucapah.html>. (Last accessed 15 April 2011). (I)

Dr. Jerque (2010). Google Earth and LiDAR overlay...Bill Williams River, AZ .
<http://geologicfroth.com/google-earth-and-lidar-overlaybill-williams-r-0>. (Last accessed 15 April 2011). (I)

Geomorphometry.org (2009). Data sets. <http://www.geomorphometry.org/content/data-sets>. (Last accessed 15 April 2011). (I)

Donaldson, E. (2010). New Tools in Process-Based Analysis of Lidar Topographic Data.
<http://blog.erictdonaldson.com/?p=68>. (Last accessed 15 April 2011). (I)

The American Geological Institute (2009). LiDAR: Using light to understand our environment.
<http://www.agiweb.org/gap/resources/factsheets/LIDAR-1209.pdf>. (Last accessed 15 April 2011). (I)

Red Arrow Maps. LiDAR links for mappers. <http://www.lidarbasemaps.org/>. (Last accessed 15 April 2011). (I)

Mikulovsky, R. (2010). Topo profile script results. <http://geo.distortions.net/2010/12/topo-profile-script-results.html>. (Last accessed 15 April 2011). (I)

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- *Type V (Video)*

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Domain: Ecology

- *Type: W (Web)*

Luck, M. (2009). Workshop in San Diego. <http://mattluck.com/2009/08/07/workshop-in-san-diego/>. (Last accessed 15 April 2011). (I)

Domain: Geophysical mapping

- *Type: PR (Peer Review)*

Treiman, J. A., Perez, F. G., and Bryant, W. A. (2010) Utility of combined aerial photography and digital imagery for fault trace mapping in diverse terrain and vegetation regimes: Final Technical Report to U. S. Geological Survey, National Earthquake Hazards Reduction Program, award number 08HQGR0096, 57p. (I)

- *Type: M (Meeting)*

Mitchell, G., and Ehling, M. (2010). A Geophysical Stereo Satellite Elevation Mapping System. Proceedings of the ASPRS 2010 Annual Conference, San Diego, California, 26-30 April 2010. ftp://www.asprs.org/sandiego2010_proceedings/Mitchell_1.pdf. (Last accessed 15 April 2011). (D)

Domain: GIS

- *Type: PR (Peer Review)*

Mitasova, H., Harmon, R. S., Weaver, K. J., Lyons, N. J., and Overton, M. F. (2012). Scientific visualization of landscapes and landforms. *Geomorphology* 137, 122-137. (I)

James, L. A., Walsh, S. J., and Bishop, M. P. (2012). Geospatial technologies and geomorphological mapping. *Geomorphology* 137, 1-4. (I)

Bernardin, T., Cowgill, E., Kreylos, O., Bowles, Gold, C. P., Hamann, B., and Kellogg, L. (2011). Crusta: a new virtual globe for real-time visualization of sub-meter digital topography at planetary scale. *Computers and Geosciences* 37, 75-85. (D)

- *Type: M (Meeting)*

Guth, P. L. (2009). Incorporating vegetation in viewshed and line-of-sight algorithms. ASPRS/MAPPS 2009 Specialty Conference, San Antonio, Texas, 16-19 November 2009; <http://www.asprs.org/publications/proceedings/sanantonio09/Guth.pdf>. (Last accessed 15 April 2011). (D)

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Nechero, J. S. (2010). USDA NRCS Elevation Update ESRI Federal User Conference Washington, DC, 18 February 2010, http://proceedings.esri.com/library/userconf/feduc10/papers/user/usda_nrcs_ngcg_elevation_update_for_Esri_fed_uc_18_feb_2010_nechero.pdf. (Last accessed 15 April 2011). (I)

- *Type: R (Report)*

Mitchell, G. (2010). PhotoSat WorldView-2 Stereo Satellite DEM Comparison to a LiDAR DEM over the Garlock Fault in Southeast California, http://www.digitalglobe.com/downloads/case_studies/Case_Study_WV2_LIDAR_Comparison.pdf. (Last accessed 15 April 2011). (D)

Mitchell, G. (2009). PhotoSat GeoEye-1 Stereo Satellite DEM Comparison to a LiDAR DEM over the Garlock Fault in Southeast California, http://www.photosat.ca/pdf/photosat_ge_lidar_comparison_2009dec.pdf. (Last accessed 15 April 2011). (D)

- *Type: ED (Education)*

Wheaton, J. M. (2011). GIS Lab 06 - DEMs; <http://gis.joewheaton.org/assignments/labs/lab06-1>. (Last accessed 15 April 2011). (D)

Liu, H. (2010). Introduction to LiDAR Remote Sensing. Ohio URISA LiDAR Workshop, June 24, 2010. <http://giesn.uc.edu/files/workshops/lidar/lecture.pdf>. (Last accessed 15 April 2011). (I)

- *Type: W (Web)*

GreenInfo Network (2010). A Quick Roundup of GIS, Maps and More from GreenInfo Network. http://www.greeninfo.org/maplines/MapLines_March2010.pdf. (Last accessed 15 April 2011). (I)

Idaho LiDAR Consortium (2010). LiDAR-derived products for the Dry Creek Watershed, Idaho. <http://cloud.insideidaho.org/webapps/search/search.aspx?searchterm=lidar>. (Last accessed 15 April 2011). (I)

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Geographic Information Systems Society of Ethiopia (GISSE). Introducing the OpenTopography Portal. <http://www.gisse.org/news.html>. (Last accessed 15 April 2011). (I)

Nalos, P. (2010). LiDAR storage and analysis: What's next?. <http://blog.safe.com/2010/11/lidar-storage-and-analysis-what%E2%80%99s-next/>. (Last accessed 15 April 2011). (I)

Willox, H. (2011). OpenTopography ouvre Otforge. <http://lac-conakry.blogspot.com/2011/03/opentopography-ouvre-otforge-o.html>. (Last accessed 15 April 2011). (I)

Pawlowicz, L. Free LIDAR data from the OpenTopography Portal. <http://freegeographytools.com/2010/free-lidar-data-from-the-opentopography-portal>. (Last accessed 15 April 2011). (I)

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- *Type: CP (Copy & Paste)*

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Randy (2009). Here comes the LiDAR!. <http://www.cadmaps.com/gisblog/?cat=24>. (Last accessed 15 April 2011). (I)

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Domain: Hazards

- *Type: M (Meeting)*

Elberink, S. O., Shoko, M., Fathi, S. A., Rutzinger, M. (2011). Detection of collapsed buildings by classifying segmented airborne laser scanner data. ISPRS Workshop, Calgary, Alberta, Canada, 29-31 August and 1 September 2011. (D)

Shrestha, R. L., Carter, B., and Glennie, C. (2011). Research-quality LiDAR and high-resolution topographic and bathymetric observations in support of COCONet. http://www.unavco.org/community/meetings-events/2011/coconet/abstracts/NCALM_%20COCONet_White_Paper.pdf. (Last accessed 15 April 2011). (D)

- *Type: R (Report)*

National Oceanic and Atmospheric Administration (NOAA). (2011). West coast digital elevation models: Coastal models supporting our nation's needs through science and technology. http://www.ngdc.noaa.gov/mgg/coastal/us_westcoast_dem_catalog.pdf. (Last accessed 10 January 2012). (I)

Domain: Hydrology

- *Type: M (Meeting)*

Petroselli, A., Nardi, F., Santini, M., and Grimaldi, S. (2009). Modello afflussi-deflussi wfiuh: metodologia innovativa per l'applicazione in bacini non strumentati. IX Convegno Nazionale dell'Associazione Italiana di Ingegneria Agraria. <http://www.aiia2009.it/CD/pdf/3-24.pdf>. (Last accessed 15 April 2011). (D)

- *Type: R (Report)*

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Manners, R., and Kilham, N. (2010). How 1D and 2D models can be used to test design hypotheses related to floodplain inundation. http://cnr.usu.edu/streamrestoration/files/uploads/Part%202%202010%20Resources/Manners_Kilham.pdf. (Last accessed 15 April 2011). (I)

- *Type: W (Web)*

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Fischer, G. (2010). Quantifying channel width changes with HecRAS + video. <http://sinuosity.posterous.com/video-of-channel-changes-along-the-tickfaw>. (Last accessed 10 January 2012). (I)

Domain: Image science

- *Type: W (Web)*

Choate, B. (2010). Imaging science Haiti data usage. <http://www.cis.rit.edu/node/479>. (Last accessed 15 April 2011). (I)

Domain: Information technology

- *Type: M (Meeting)*

Nandigam, V., Crosby, C. J., and Baru, C. (2009). Promoting scientific collaboration and research through integrated social networking capabilities within the OpenTopography portal. Geophysical Research Abstracts 11, EGU2009-9430, EGU General Assembly 2009. (D)

Rizzoli, A. E., Schimak, G., Donatelli, M., Hrebicek, J., Avellino, G., Mon, J. L., Sthanasiadis, I. (2010). TaToo: tagging environmental resources on the web by semantic annotations. International

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