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Education

Colorado State University	Natural Resource Management	B.S.	1999
Colorado State University	Forest Ecology	M.S.	2003
Colorado State University	Ecosystem Management	Ph.D.	2009

Professional Appointments

2014-present	<i>Affiliate Faculty</i> , University of Oslo, Norway
2013-present	<i>Affiliate Faculty</i> , University of Buea, Cameroon
2012-present	<i>Associate Professor</i> , Department of Ecosystem Science and Sustainability, CSU
2009-present	<i>Affiliate Faculty</i> , Graduate Degree Program in Ecology (GDPE), CSU
2004-2007	<i>Systems Ecologist</i> , U.S. Secretary of Interior's Advisory Committee for the Grand-Staircase Escalante Monument, Utah
1999-2009	<i>Research Associate</i> , Natural Resource Ecology Laboratory, CSU

Current Research**Building Geospatial Networks for Mapping Infrastructure, Land-use, and Water Resources in Ethiopia**

Principal Investigator; sponsored by U.S. State Department, Humanitarian Information Unit

Mapping and Forecasting Invasive Species and their Impacts on Natural and Social Systems

Principal Investigator; sponsored by U.S. Geological Survey

Development of New Pest Mapping Technologies for Improved Risk Analysis and Support of Field Ops.

Principal Investigator; U.S. Department of Agriculture, Animal and Plant Health Inspection Service

CNH: Assessing Vulnerability of Provisioning Services in the Southern Highlands of Ethiopia

Principal Investigator; sponsored by the National Science Foundation

Sustainable Biofuel Feedstocks from Beetle-killed Wood: Bioenergy Alliance Network of the Rockies (BANR)

Co-Investigator; sponsored by U.S. Department of Agriculture, U.S. Forest Service

Sustaining India's Biological Diversity in the Context of Rapid Environmental Change: Research, Education and Community Outreach

Co-Investigator; sponsored by The U.S.-India Educational Foundation (USIEF), Obama-Singh Initiative

Synergistic Activities**IUCN Species Survival Commission, Equid Specialist Group**

2016-present, *Advising Member*: The long range goal of the Equid Specialist Group (<http://www.equids.org/index.php>) is to conserve biological diversity by developing and executing programs to study, save, restore, and manage wisely wild equids and their habitats. In the short-term, the specific goals are 1) to identify and work with scientists, government personnel, and local residents

in the countries where wild zebras, asses, and horses exist, 2) to help raise funds for equid conservation and training projects, and 3) to coordinate with and assist other Species Survival Groups.

Africa Center for Sustainable Ecosystems and Societies under Global Change

2013-present, Co-Investigator: Formally the Sustainable African Ecosystems and Societies (SAES) (<http://saes.colostate.edu/>), the Africa Center's mission is to enhance biodiversity, advance human and animal health, empower communities, and promote environmental, economic and social sustainability in Africa. Activities are generally focused on fostering collaborative partnerships between CSU students, faculty and scientists with their counterparts in African countries.

Warner College of Natural Resources and Ethiopia Strategic Alliance

2012-present, Program Director: The mission of the WCNR-Ethiopia Strategic Alliance (<http://www.nrel.colostate.edu/projects/csu-ethiopia/>) is to foster stewardship, conservation and sustainable-use of natural resources through international education, research and engagement. We achieve this through scholar exchange programs, collaborative research and academic capacity building (e.g. see <http://www.ethiopia-gis.nrel.colostate.edu>).

NASA DEVELOP

2011-present, Principal Investigator/Scientific Advisor: The NASA DEVELOP Program (<http://develop.larc.nasa.gov/>) is a nationwide program that provides funding for student interns to work within selected U.S. institutions to build applied skills in remote sensing research. The Fort Collins DEVELOP Program in Colorado is jointly administered by the Natural Resource Ecology Laboratory and the USGS Fort Collins Science Center. Student interns are actively engaged in short- and long-term research projects related to forest health, invasive species, hydrology and other ecological issues in Colorado and across the globe.

The Murulle Foundation

1999-present, Co-founder/Chair: The Murulle Foundation is 501(c)(3) non-profit organization. Its mission of The Murulle Foundation's mission is to build an enduring coexistence of people and threatened ecosystems in sub-Saharan Africa. The foundation fosters grassroots projects, based on human and organizational development, and scientific research to promote social, economic, and environmental well-being.

Current Graduate Students

Antony Vorster	(Advisor) PhD, Graduate Degree Program in Ecology, CSU
Lee O'Brien	(Advisor) PhD, Graduate Degree Program in Ecology, CSU
Gericke Cook	(Co-Advisor) PhD, Graduate Degree Program in Ecology, CSU
Cara Steger	(Co-Advisor) PhD, Graduate Degree Program in Ecology, CSU
Bethlehem Abebe	(Co-Advisor) PhD, Dept. of Human Dimensions, CSU
Oliver Miltenberger	(Advisor) MS, Graduate Degree Program in Ecology, CSU
Brian Woodward	(Co-Advisor) MS, Dept. of Forest and Rangeland Science, CSU
Stephen Chignell	(Committee) MS, Dept. of Ecosystem Services and Sustainability, CSU
Misganaw Tamrat	(Committee) PhD, Faculty of Mathematics and Natural Sciences, University of Oslo, Norway
Ejigu Alemayehu	(Committee) PhD, Faculty of Mathematics and Natural Sciences, University of Oslo, Norway

Graduates

Kendra Vandree	(2013-2016), MS, Dept. of Food Science & Nutrition, CSU/Peace Corp Master's International (Ethiopia)
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Zerihun Girma	(2013-2016) PhD, Dept. of Botany and Plant Physiology, University of Buea, Cameroon
Emma Richardson	(2013-2016), MS, Dept. of Forest and Rangeland Science, CSU
Tewodros Wakie	(2011-2015) PhD, Graduate Degree Program in Ecology, CSU
Matthew Luizza	(2011-2015) PhD, Graduate Degree Program in Ecology, CSU
Amanda West	(2011-2015) PhD, Graduate Degree Program in Ecology, CSU
Antony Vorster	(2012-2015) MS, Graduate Degree Program in Ecology, CSU
Ben Wilson	(2012-2014) MS, Graduate Degree Program in Ecology, CSU
Carl Reeder	(2009-2013) MS, Dept. of Forest, Range and Watershed Stewardship, CSU/Peace Corp Master's International (Ethiopia)
Grant Firl	(2011-2013) PhD, Dept. of Atmospheric Science, CSU
Austin Jurgensmeyer	(2010-2011) MS, College of Engineering, CSU
Ted Manahan	(2010-2011) MS, Dept. of Forest, Range and Watershed Stewardship, CSU
Nicholas Young	(2009-2010) MS, Dept. of Forest, Range and Watershed Stewardship, CSU

Journal Referee

Biological Conservation, Current Zoology (Guest Editor on Invasive Species; 2011), Ecology, Ecological Monitoring, Endangered Species Research, Forest Ecology and Management, Journal of Arid Environments, Journal of Wildlife Research, Professional Geographer

Peer-reviewed Publications

Chung, W. A. Vorster, N. Anderson, P. Evangelista, H. Han, and R. Sturtevant (In Review). Estimating aboveground tree biomass for beetle-killed lodgepole pine in the Rocky Mountains of Northern Colorado. *Forest Science*.

Chignell, S.M., M. Luizza, S. Skach, P. Evangelista, N. Young (In Review). An integrative modeling approach to mapping wetlands and riparian areas in a heterogeneous Rocky Mountain watershed. *Remote Sensing in Ecology and Conservation*.

West A.M., P.H. Evangelista, C.S. Jarnevich, S. Kumar, A. Swallow, M.W. Luizza, and S. Chignell (In Review). Developing distribution maps for invasive species in post-wildfire landscapes using methods relevant to land management. *Environmental Management*.

Young, N.E., R. Anderson, S. Chignell, A. Vorster, R. Lawrence, P. Evangelista (In Press). A survival guide to Landsat preprocessing. *Ecology*.

Vorster, A., P. Evangelista, T. Stohlgren, S. Kumar, C. Rhoades, R. Hubbard, A. Cheng and K. Elder (In Press). Severity of a mountain pine beetle outbreak across a range of stand conditions in Fraser Experimental Forest, Colorado, United States. *Forest Ecology and Management*.

Young, N.E., W.H. Romme, P.H. Evangelista, T. Mengistu, A. Worede (In Press). Variation in population structure and dynamics of montane forest tree species in Ethiopia: Priorities for conservation and research. *Biotropica*.

West A.M., P.H. Evangelista, C.S. Jarnevich, T. Stohlgren, C. Talbert, M. Talbert, J. Morissette (2016). Integrating remote sensing with species distribution models; mapping tamarisk invasions using the Software for Assisted Habitat Modeling (SAHM) system. *JoVE*.

<http://www.jove.com/video/54578/integrating-remote-sensing-with-species-distribution-models-mapping>

- Evangelista, P., F. Kebede, N. Young and P. Moelman (2016). Species Distribution Models: New Tools and New Approaches for Managing and Conserving Threatened and Endangered Wildlife in Ethiopia. In: A. Alonso Aguirre, editor. Tropical Conservation.
- Evangelista, P. N. Young, P. Schofield and C. Jarnevich (2016). Modeling the suitable habitat of invasive red lionfish (*Pterois volitans*) in the Atlantic and Pacific coasts of North, Central and South America. *Aquatic Invasions* 11(3):313-326.
- Luizza, M.W., T. Wakie, P. Evangelista, and C. Jarnevich (2016). Integrating local pastoral knowledge, participatory mapping, and species distribution modeling for risk assessment of invasive rubber vine (*Cryptostegia grandiflora*) in Ethiopia's Afar region. *Journal of Ecology and Society* 21(1):22
- Luizza, M.W., P. Evangelista, C. Jarnevich, A. West and H. Stewart (2016). "Water is our life": Assessing impacts of invasive *Elodea* spp. potential impact on Native Alaskan subsistence of Chinnok salmon and whitefish. *58(1):144-163*
- Wakie, T., D. Hoag, P. Evangelista, M. Luizza and M. Laituri. (2016). Is utilization a cost effective management strategy for controlling invasive *Prosopis juliflora*? A case study in Afar, Ethiopia. *Environmental Management* 168:74-86.
- Wakie, T., M. Laituri and P. Evangelista. (2016). Assessing the distribution and impacts of *Prosopis juliflora* through participatory approaches. *Applied Geography* 66:132-143.
- Girma, Z., G. Chuyong, P. Evangelista, Y. Mamo (2015). Habitat characterization and preferences of the mountain nyala (*Tragelaphus buxtoni*, Lydekker 1910) and Menelik's bushbuck (*Tragelaphus scriptus Menelik*, Neumann 1902) in Arsi Mountains National Park, Southeastern Ethiopia. *International Journal of Current Research* 7(11):23074-23082.
- Chignell, S., R. Anderson, P. Evangelista, M. Laituri and D. Merritt (2015). Mapping maximum extent of the 2013 Colorado Front Range flood using multi-temporal independent component analyses and Landsat 8. *Journal of Remote Sensing* 7:9822-9843.
- Evangelista P., N. Young, D. Swift and A. Worede (2015). Demographic observations of mountain nyala (*Tragelaphus buxtoni*) in a Controlled Hunting Area, Ethiopia. *Biodiversity and Endangered Species* 3(1).
- Kumar, S., P.H. Evangelista, C.S. Brown, J.C. Moore, T.J. Stohlgren, J.J. Graham and J.R. Hanzlik (2014). Recruiting and Retaining National Needs Fellows in the Area of Sciences for Agricultural Biosecurity. *North American College Teacher Association (NACTA) Journal* 58:66.
- Wakie, T., P. Evangelista, C. Jarnevich and M. Laituri (2014). Mapping current and potential invasion of *Prosopis juliflora* in the Afar Region of Ethiopia. *PLoS ONE* 9(11): e112854. doi:10.1371/journal.pone.0112854
- Kebede, F., A. Bekele, P. Moehlan, and P. Evangelista (2014). Predicting habitat suitability for the critically endangered African wild ass in the Danakil, Ethiopia. *African Journal of Ecology* 52(4):524-542.
- Kumar, S., J. Graham, A. West and P. Evangelista (2014). Using district-level occurrences in MaxEnt for predicting the invasion potential of exotic insect pests in India. *Computers and Electronics in Agriculture* 103:55-62.

- Jarnevich C., P. Evangelista, and J. Graham. (2013). Measuring Extent and Projections of *Tamarix* Distributions in North America. In: Anna Sher and Martin Quigley, editors. *Tamarix: A case study of ecological change in the American West*. Oxford University Press, New York, New York.
- LuiZZa, M., H. Young, C. Kuroiwa, P. Evangelista, A. Worede, R. Bussman, A. Weimer (2013). Local knowledge of plants and their uses among women in the Bale Mountains, Ethiopia. *Ethnobotany Research and Applications* 11:315-339.
- Graham, J., C. Jarnevich, N. Young, G. Newman, P. Evangelista, and T. Stohlgren (2013). Modeling tamarisk (*Tamarix* spp.) habitat at multiple spatial scales with Hyper-Envelope Modeling Interface (HEMI). *Environmental Management* 52(4):929-938.
- Evangelista, P., N.E. Young and J. Burnett (2013). How will climate change spatially effect agriculture production in Ethiopia? Case studies of important cereal crops. *Journal of Climatic Change* On line publication, May 1, 2013
- Kebede, F., A. Bekele, P. Moehlman, and P. Evangelista (2012). Endangered Grevy's zebra in Alledoghi Wildlife Reserve, Ethiopia: species distribution modeling for the determination of optimum habitat for management. *Endangered Species* 17:237-244.
- Evangelista, P., J. Norman, P. Swartzinski and N. Young (2012). Assessing habitat quality of the mountain nyala (*Tragelaphus buxtoni*) in the Bale Mountains, Ethiopia. *Current Zoology* 58(4):525-535.
- Young, N.E., T.J. Stohlgren, P.H. Evangelista, S. Kumar, J. Graham and G. Newman (2012). Regional data refine local predictions: modeling the distribution of plant species abundance on a portion of the Central Plains. *For Environmental Monitoring and Assessment* 184:5439-5451.
- Cross, E., P. Evangelista, M. Laituri and P. Newman. (2011). Creating exploratory maps for wilderness impact surveys: Applications in campsite searches. *Park Science, Special Issue on Wilderness Management*. 28(3):84-88
- Evangelista, P., M.A. Crall and E. Bergquist. (2011). Effects of coal-bed methane development on native and non-native plants, and soil chemistry. In: Naugle, D., editors. *Energy Development and Natural Resource Management*. Island Press.
- Bussmann, R.W., P. Swartzinski, A. Worede and P. Evangelista (2011). Plant use and disease perception in Odo-Bulu and Demaro, Bale Region, Ethiopia. *Journal of Ethnobiology and Ethnomedicine* 7(28).
- Jarnevich, C., P. Evangelista, T.J. Stohlgren and J. Morissette. (2011). Improving national-scale invasion maps: tamarisk in the Western United States. *Western North American Naturalist* 71(2):164-175.
- Stohlgren, T.J., D. Burnett, S. Kumar and P. Evangelista. (2011). Using Maximum Entropy modeling for optimal selection of sampling sites for monitoring networks. *Diversity* 3(2); 252-261
- York, P., P. Evangelista, S. Kumar, J. Graham, C. Flather, and T. Stohlgren (2011). A habitat overlap analysis derived from Maxent for tamarisk and the southwestern willow flycatcher. *Frontiers of Earth Science* 5(2):120-129.

- Evangelista, P., S. Kumar and T. Stohlgren. (2011). Assessing forest vulnerability and the potential distribution of three pine beetles under current and future climate scenarios in the Interior West of the U.S. *Journal of Forest Ecology and Management* 262(3):307-316.
- Malcolm, J. and P. Evangelista (2011) Observations on the status of the mountain nyala: 2000-2005, In Special Edition on the Bale Mountains, Walia; *Journal of the Ethiopian Wildlife and Natural History Society*: 39-52.
- Graham, J., G. Newman, S. Kumar, C. Jarnevich, N. Young, A. Crall, T. Stohlgren and P. Evangelista (2010). Bringing modeling to the masses: A web based system to predict potential species distributions. *Future Internet*.
- Evangelista, P., T.J. Stohlgren, J.T. Morisette and S. Kumar. (2009). Mapping invasive tamarisk (*Tamarix*): a comparison of single-scene and time-series analyses of remotely sensed data. *Remote Sensing, Ecological Status and Change by Remote Sensing special issue* 1:519-533.
- Evangelista, P., R., Engeman and L. Tallents. (2009). Testing a passive tracking index for monitoring the endangered Ethiopian wolf. *Integrative Zoology* 4:172-178.
- Evangelista, P., J. Norman III., L. Behanu, S. Kumar and N. Alley. (2008). Predicting habitat suitability for the endemic mountain nyala (*Tragelaphus buxtoni*) in Ethiopia. *Wildlife Research* 35:409-416.
- Crall, A. W., T.J. Stohlgren, D.A. Guenther, and P.H. Evangelista. (2008). Natural variation in diversity and invasion patterns. . In: van Riper III, C., M. Sogge, editors. *The Colorado Plateau III: cultural, biological, and physical research*. Tucson, AZ: The University of Arizona Press. p 287-306.
- Evangelista, P., S. Kumar, T.J. Stohlgren, C.S. Jarnevich, A.W. Crall, J.B. Norman III and D. Barnett. (2008). Modeling invasion for a habitat generalist and a specialist plant species. *Diversity and Distribution* 14:808-817.
- Evangelista, P., S. Kumar, T. Stohlgren, A. Crall and G. Newman. (2007). Modeling above-ground biomass of *Tamarisk ramosissima* in the Arkansas River Basin of Southeastern Colorado, USA. *Western North American Naturalist* 67(4):503-509.
- Bergquist, E., T. Stohlgren, P. Evangelista and D. Guenther. (2007). Invasive species and coal bed methane development in the Powder River Basin, Wyoming. *Environmental Monitoring and Assessment* 128:381-394.
- Stohlgren, T.J, G. Chong, C. Jarnevich, and P. Evangelista. (2006). Scale and plant invasions: a theory of biotic acceptance. *Presilia* 78: 405-426.
- Chong, G.W., Y. Otsuki, T.J. Stohlgren, D. Guenther, P. Evangelista, C. Villa, M.A. Waters. (2006). Evaluating plant invasions from both habitat and species perspectives. *Western North American Naturalist* 66(1):92-105.
- Crall, A.W., G.J. Newman, T.J. Stohlgren, C.S. Jarnevich, P.H. Evangelista, D. Guenther. (2006). Evaluating dominance as a component of non-Native species invasions. *Diversity and Distributions* 12:195-204
- Engeman, M. R. and P. Evangelista. (2006). Probing the feasibility of a Passive Tracking Index for monitoring wildlife in the lower Omo Valley, Ethiopia. *African Journal of Ecology*. 45:184-188.

Stohlgren, T.J., C. Crosier, G. Chong, D. Guenther, and P. Evangelista. (2005). Life-history habitat matching in invading non-native plant species. *Plant and Soil* 277:7-18.

Stohlgren, T.J., D. Guenther, P. Evangelista, and N. Alley. (2005). Patterns of plant rarity, endemism, and uniqueness in an arid landscape. *Ecological Applications* 15:715-725.

Evangelista, P., D. Guenther, T.J. Stohlgren and S. Stewart. (2004). Vegetation response to fire and Post-burn seeding treatments in juniper woodlands of the Grand Staircase-Escalante National Monument, Utah. *Western North American Naturalist* 64(3): 293-305.

Alley, N.W., T. J. Stohlgren, P. H. Evangelista, and D. A. Guenther. (2004). Iterative model development for natural resource managers: a case example in the Grand Staircase-Escalante National Monument. *Geographic Information Science*. 10(1):1-9.

Evangelista, P., D. Guenther, T.J. Stohlgren and S. Stewart. (2003). Fire effects on cryptobiotic soil crusts in the Grand Staircase-Escalante National Monument, Utah. In: van Riper III, C., K. L. Cole, editors. *The Colorado Plateau: cultural, biological, and physical research*. Tucson, AZ: The University of Arizona Press. p 121-128.

Guenther, D.A., T.J. Stohlgren and P. Evangelista. (2003). A comparison of a near-relict site and a grazed site in Pinyon-Juniper community in the Grand Staircase-Escalante National Monument, Utah. In: van Riper III, C., K. L. Cole, editors. *The Colorado Plateau: cultural, biological, and physical research*. Tucson, AZ: The University of Arizona Press. p 153-162.

Bashkin, M., T.J. Stohlgren, Y. Otsuki, M. Lee, P. Evangelista, and J. Belnap. (2002). Soil characteristics and exotic plant species invasions in the Grand Staircase-Escalante National Monument, Utah, USA. *Applied Soil Ecology* 22(1):67-77.

Technical Reports and White Papers

Young, N., A. West, R. Anderson, S. Chignell, P. Evangelista and C. Jarnevich (2015) Mapping land cover and invasive tamarisk in Havasu National Wildlife Refuge, Arizona. U.S. Department of Interior Technical Report for U.S. Department of Interior, U.S. Geological Survey. 23pp.

Young, N., C. Reeder, A. Cheng, R. Addington and P. Evangelista (2014) Colorado Front Range Collaborative Forest Landscape Restoration Project: Initial Pre and Post-treatment Stand Structure analysis for Phantom Creek Units and Arapaho Roosevelt Projects. Technical Report for U.S. Department of Agriculture, U.S. Forest Service.

Evangelista, P., N. Young, L. Carter, C. Jarnevich, A. Birtwistle, K. Groy (2012). Mapping habitat and potential distributions of invasive plant species on USFWS National Wildlife Refuges. Technical Report for U.S. Department of Interior, Fish and Wildlife Service. 34pp.

Wakie, T., P. Evangelista and M. Laituri (2012). Utilization Assessment of *Prosopis juliflora* in the Afar Region, Ethiopia. Technical Report for U.S. Forest Service, USDA Office of International Programs for USAID Pastoral Livelihoods Initiative II. Addis Ababa, Ethiopia. 15pp.

Boone, R., J. Taylor, D. Swift, P. Evangelista and E. Hollowed (2011). Developing a Resource Management and Monitoring Protocol for a Semi-Arid Landscape with Extensive Oil and Gas Development Potential. Technical Note 439, for U.S. Department of Interior, Bureau of Land Management, White River Field Office, CO. 48pp.

Evangelista, P., D. Barnett, T.J. Stohlgren, P. Stapp, C. Jarnivich, S. Kumar, and S. Rauth. (2009). Field and Costs Assessment for the Fundamental Sentinel Unit (FSU) at the Central Plains Experimental Range, Colorado. Technical Report for National Ecological Observatory Network (NEON), Inc. Boulder, CO. 98pp.

Gass, T., S. Kumar and P. Evangelista. (2009). Ponderosa pine in the interior west: current condition and land management legacies. Technical Report for the U.S. Department of Agriculture, U.S. Forest Service, Missoula, MT. 106pp.

Kalkhan, M., T.J. Stohlgren, J. Schnase, J. Morisette, J. Pedelty and P. Evangelista. (2008). Fingerprinting native and non-native biodiversity in the United States: Phase I-the western U.S. Technical Report for National Aeronautics and Space Administration (NASA), Goddard Space Flight Center, Greenbelt, MD. 78pp.

Evangelista, P. (2008). Range and habitat of the mountain nyala (*Tragelaphus buxtoni*): 2008 update and review. Technical Report for the World Conservation Union (IUCN) Antelope Specialist Group. 35pp.

Evangelista, P. P. Swartzinski and R. Waltermire. (2007). A profile of the mountain nyala (*Tragelaphus buxtoni*). African Indaba 5(2) – Special Report. 48pp.

Evangelista, P. (2006). Range and distribution of the mountain nyala (*Tragelaphus buxtoni*): Technical Report to the Ethiopian Wildlife Conservation Department, Addis Ababa, Ethiopia. 40pp.

Evangelista, P. (2006). Status Report of the mountain nyala (*Tragelaphus buxtoni*). Technical Report for the World Conservation Union (IUCN) Antelope Specialist Group. 12pp

Evangelista, P. (2005). Status of the mountain nyala in the Arsi Mountains, Ethiopia. In: Malcolm, J, editor. The range and status of the mountain nyala (2004). Technical Report for the Ethiopian Wildlife Conservation Department, Addis Ababa, Ethiopia. 39pp.

Bergquist, E., P. Evangelista T. Stohlgren, and N. Alley. (2004). Invasive species and coal bed methane development in the Powder River Basin, Wyoming. Technical Report for the US Geological Survey, Fort Collins Science Center. 28pp.

Waters, M. A., T. J. Stohlgren, P. Evangelista, D. Guenther, N. Alley, G. J. Newman, editors. (2004). Landscape-Scale Assessment of Grand Staircase-Escalante National Monument. Technical Report for the Bureau of Land Management, Kanab, UT. 205pp.