



# JASON J. TAYLOR

## Director

Aldo Leopold Wilderness Research Institute  
Rocky Mountain Research Station  
U.S. Forest Service  
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## EDUCATION

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### **Ph.D., University of Michigan, Ann Arbor, Michigan**

School of Natural Resources and Environment

Degree: August 2008

Dissertation: *Avian populations in human-dominated landscapes: An analysis of spatio-temporal dynamics at the urban-rural interface.*

### **M.S., University of Michigan, Ann Arbor, Michigan**

School of Natural Resources and Environment

Degree: August 2004

Thesis: *Linking land-cover change to local land-use policy: A GIS-based analysis.*

### **B.S., University of Michigan-Flint, Flint, Michigan**

Degree: April 1997

## CERTIFICATIONS

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### **Certified GIS Professional (GISP)**

GIS Certification Institute

Certification Number 47280: Date Certified 1/25/2005-1/25/2010

## PROFESSIONAL EXPERIENCE

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### *Government & Consulting Positions:*

**Director** (GS-0401-15), U.S. Dept. of Agriculture, U.S. Forest Service, Rocky Mountain Research Station, Aldo Leopold Wilderness Research Institute, Missoula, MT; July 2020 – Present

**Superintendent** (GS-0025-13), U.S. Dept. of the Interior, National Park Service, Klondike Gold Rush National Historical Park, Skagway, AK; March 2019 – July 2020

**Regional Chief of Natural Resources** (GS-0401-14), U.S. Dept. of the Interior, National Park Service, Alaska Regional Office; Resources Directorate, Anchorage, AK; May 2016 – March 2019

**Landscape and Arctic Initiatives Coordinator** (GS-0401-13), U.S. Dept. of the Interior, Bureau of Land Management, Alaska State Office; Division of Resources, Anchorage, AK; June 2015 – May 2016

**Chief of Natural Resource Management and Science** (GS-0401-13), U.S. Dept. of the Interior, National Park Service, Cape Cod National Seashore, Wellfleet, MA; Jan. 2013 – June 2015

**Landscape Ecologist/ Assessment, Inventory, and Monitoring Implementation Lead** (GS-0408-12/13), U.S. Dept. of the Interior, Bureau of Land Management, National Operations Center, Branch of

**Deputy Director, Acting** (GS-13), North Slope Science Initiative, U.S. Dept. of the Interior, Bureau of Land Management, Alaska State Office, Anchorage, AK; Jan. 2011- Apr. 2011

**Renewable Resources Supervisor** (GS-0340-12), U.S. Department of the Interior, Bureau of Land Management, White River Field Office, Meeker, CO; Nov. 2009-May 2010

**Natural Resources Specialist/ Geospatial Coordinator** (GS-0401-11), U.S. Department of the Interior, Bureau of Land Management, White River Field Office, Meeker, CO; Aug. 2008-Nov. 2009

**Founder & Consulting Partner**, North Arrow Technologies, Inc., Fenton, MI; 2003-2009

**President/ Founder**, North Arrow Technologies, Inc., Fenton, MI; 2000-2003

**GIS Coordinator/ IT Manager**, Charter Township of Grand Blanc, Grand Blanc, MI; 1997-2001

*Teaching Positions:*

**Instructor** (*Interdisciplinary Resource Protection and Law*), NPS Learning and Development, national course; 2018-2019

**Adjunct Professor** (*Introduction to Geographic Information Systems*), Colorado Mountain College – West Garfield, Rifle, CO; 2010 (Spring)

**Lecturer** (*Principles of Geographic Information Systems*), School of Natural Resources and Environment, University of Michigan, Ann Arbor, MI; 2006 (Winter)

**Lab Instructor** (*Principles of Geographic Information Systems*), School of Natural Resources and Environment, University of Michigan, Ann Arbor, MI; 2007, 2005, 2004, and 2001 (Winter semesters)

**Discussion Leader** (*General Ecology*), Program in the Environment, University of Michigan, Ann Arbor, MI; 2006 (Fall)

## **PROFESSIONAL ACTIVITIES**

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IUCN World Commission on Protected Areas, Wilderness, and Science of Management and Biodiversity, Specialty Groups, Member; 2020-present

National Park Service, Alaska Leadership Council, Chair; 2020 (co-chair, 2019)

Alaska Park Science Editorial Board, Member; 2018-2019

National Park Service, Natural Resource Advisory Group, Member; 2016-2019

Arctic Council, Conservation of Arctic Flora and Fauna, Circumpolar Biodiversity Monitoring Program, Co-lead; 2016-2017

Alaska Climate Change Exec Roundtable, Long-term Monitoring Working Group, Co-chair; 2015-2016

NPS Excellence in Science, Integrating Science into National Parks Workgroup, Member; 2014-2016

Arctic Council, Conservation of Arctic Flora and Fauna, Circumpolar Biodiversity Monitoring Program Terrestrial Steering Group, U.S. Lead/Member; 2011-2016  
U.S. Regional Assoc, International Association for Landscape Ecology, Councilor-at-Large; 2011-2013  
Natural Resources Program Advisory Council, Colorado NW Community College, Member; 2009-2010  
BLM Peer Review Policy Development Committee, Member; 2009-2010  
SNRE Promotion and Tenure Committee, Ph.D. Student Member; 2007-2008  
Complex Systems Advanced Academic Workshop, Center for the Study of Complex Systems, University of Michigan, Core Member; 2005-2006  
Mott Community College GIS Advisory Committee, Member; 2002-2006

## HONORS & AWARDS

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Contribution Award; 2017 (in recognition of dedication and leadership for planning and facilitating the DOI *Arctic Cumulative Impacts Interagency Workshop*)  
NPS Inventory and Monitoring Division Commendation; 2016 (in recognition of dedication and contributions toward integrating science into park management)  
BLM Director Letter of Commendation; 2012 (for contributions to the west-wide solar plan)  
AAAS Science Program for Excellence in Science Award; 2007  
Rackham Outstanding Graduate Student Instructor Award; 2006-2007  
NASA-MSU Professional Enhancement Award; 2006  
Student Honor Awards for Outstanding Teachers in the School (SNRE), nominee; 2004-2005  
IMAGIN Student Paper Competition, 1<sup>st</sup> place; 2004  
IMAGIN Forum Map Gallery, Analytical Presentation, 3<sup>rd</sup> place; 2003

## PUBLICATIONS

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### *\*Peer-reviewed literature*

- 2020\*. Christensen, T., T. Barry, J.J. Taylor, M. Doyle, S. Heiðmarsson, M. Aronsson, C. Cuyler, M. Soloviev, et al. Developing a circumpolar program for the monitoring of Arctic terrestrial biodiversity. *Ambio* vol. 49(3), 655-665. <https://doi.org/10.1007/s13280-019-01311-w>.
- 2020\*. Jenkins, L.K., T. Barry, K.R. Bosse, W.S. Currie, T. Christensen, S. Longan, R.A. Shuchman, D. Tanzer, and J.J. Taylor. Satellite-based decadal change assessments of pan-Arctic environments. *Ambio* vol. 49(3), 820-832. DOI: 10.1007/s13280-019-01249-z.
- 2020\*. Taylor, J.J., J.P. Lawler, M. Aronsson, T. Barry, A.D. Bjorkman, T. Christensen, S.J. Coulson, C. Cuyler, et al. Arctic terrestrial biodiversity status and trends: A synopsis of science supporting the CBMP State of Arctic Terrestrial Biodiversity Report. *Ambio* vol. 49(3), 833-847. <https://doi.org/10.1007/s13280-019-01303-w>.
2018. Reynolds, J.H., E.J. Trammell, and J.J. Taylor. Migration's Foundation: Ecological Intactness of Alaska's Ecosystems. *Alaska Park Science* 17(1), 85-91
- 2018\*. Trammell, E.J., S.K. Carter, T. Haby, and J.J. Taylor. Evidence and opportunities for integrating landscape ecology into natural resource planning across multiple-use landscapes. *Current Landscape Ecology Reports* 3(1), 1-11.
2017. Welling, L., J. Taylor, D. Payer, L. Phillips, and T. Jones. National Park Service Participation in the Arctic Council. *Alaska Park Science* 16(1), 100-105.

2016. Bennetts, R.E., N. Chambers, J. Comiskey, K. James, J. Lawler, K. Legg, E. Matthews, L. Mazzu, R. Ohms, C. Schreier, and J.J. Taylor. 2016. *Integration of science and park management: a framework for partnership*. Natural Resource Report NPS/NRSS/NRR—2016/1230. National Park Service, Fort Collins, Colorado.
- 2016\*. Taylor, J.J., C.A. Lepczyk, and D.G. Brown. Patch and matrix level influences on forest birds at the rural-urban interface. *Landscape Ecology* 31, 1005-1020 (available online at <http://dx.doi.org/10.1007/s10980-015-0310-5>).
- 2014\*. Karl, J.W., J. Taylor, and M. Bobo. A double-sampling approach to deriving training and validation data for remotely-sensed vegetation products. *International Journal of Remote Sensing* 35(5), 1936-1955.
- 2014\*. Haines, S.S., Diffendorfer, J.E., Balistrieri, Berger, Cook, DeAngelis, Doremus, Gautier, Gallegos, et al. A Framework for Quantitative Assessment of Impacts Related to Energy and Mineral Resource Development. *Natural Resources Research* 23(1), 3-17.
2014. Taylor, J.J., E.J. Kachergis, G.R. Toevs, J.W. Karl, M.R. Bobo, M. Karl, S. Miller, and C.S. Spurrier. *AIM-Monitoring: A Component of the BLM Assessment, Inventory, and Monitoring Strategy*. BLM Technical Note 445. U.S. Department of the Interior, Bureau of Land Management, National Operations Center, Denver, CO.
2013. Christensen, T., J. Payne, M. Doyle, G. Ibarguchi, J. Taylor, N.M. Schmidt, M. Gill, M. Svoboda, et al. *Arctic Terrestrial Biodiversity Monitoring Plan*. CAFF Monitoring Series Report No. 7. CAFF International Secretariat, Akureyri, Iceland. ISBN 978-9935-431-26-4.
2012. Svoboda, M., T. Christensen, E.T. Jorgenson, J.J. Taylor, J.F. Payne, N.M. Schmidt, M. Doyle, J. Madsen, J. Nymand, and D. Walker. *Terrestrial Biodiversity Monitoring Group: Designing an Arctic terrestrial biodiversity monitoring plan: 1<sup>st</sup> workshop, Hvalsø, Denmark, October 11-13, 2011*. CAFF International Secretariat, CAFF Proceedings Series, Report No. 7. ISBN: 978-9935-431-17-2.
2012. Taylor, J., G. Toevs, J. Karl, M. Bobo, M. Karl, S. Miller, and C. Spurrier. 2012. *AIM-Monitoring: A Component of the BLM Assessment, Inventory, and Monitoring Strategy*. U.S. Department of the Interior, Bureau of Land Management, National Operations Center, Denver, CO. Report No. BLM/OC/ST-13/001+1735.
2011. Boone R.B., J.J. Taylor, D.M. Swift, P.H. Evangelista, and E. Hollowed. *Developing a Resource Management and Monitoring Protocol for Semiarid Landscapes with Extensive Energy Extraction Potential*. BLM Technical Note 439. U.S. Department of the Interior. Bureau of Land Management, National Operations Center, Denver, Colorado. Available online at: <http://www.blm.gov/nstc/library/techno2.htm>.
2011. Christensen, T., J.F. Payne, N.M. Schmidt, J. Madsen, J.J. Taylor, M. Doyle, M. Gill, J. Nymand, et al. *Terrestrial Expert Monitoring Plan – background paper*. A supporting publication to the CBMP Framework Document. CAFF International Secretariat, CAFF Monitoring Series Report No. 6. ISBN 978-9935-431-11-0.
2011. Mackinnon W.C., J.W. Karl, G.R. Toevs, J.J. Taylor, M. Karl, C.S. Spurrier, and J.E. Herrick. *BLM Core Terrestrial Indicators and Methods*. BLM Technical Note 440. U.S. Department of Interior, Bureau of Land Management, National Operations Center, Denver, CO. Available online at: <http://www.blm.gov/nstc/library/techno2.htm>.

2011. Streever, B., R. Suydam, J.F. Payne, R. Shuchman, R.P. Angliss, Greg Balogh, J. Brown, J. Grunblatt, et al. Environmental Change and Potential Impacts: Applied Research Priorities for Alaska's North Slope. *Arctic (InfoNorth)* 64(3), 390-397.
2011. Toevs, G.R., J.J. Taylor, C. Spurrier, W.C. MacKinnon, and M. Bobo. *BLM National Assessment, Inventory and Monitoring Strategy for Integrated Renewable Resources Management*. U.S. Department of Interior Bureau of Land Management, Washington, D.C.
- 2011\*. Toevs, G.R., J.W. Karl, J.J. Taylor, C.S. Spurrier, M. Karl, M.R. Bobo, and J.E. Herrick. Consistent Indicators and Methods and a Scalable Sample Design to Meet Assessment, Inventory and Monitoring Information Needs Across Scales. *Rangelands* 33(4), 14-20.
- 2007\*. Taylor, J.J., D.G. Brown, and L. Larsen. Preserving natural features: A GIS-based evaluation of a local open-space ordinance. *Landscape and Urban Planning* 82(1-2), 1-16.

## **CONTRIBUTED REPORTS**

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2018. *Circumpolar Biodiversity Monitoring Program Strategic Plan: 2018-2021*, CAFF Monitoring Series Report No. 29. Conservation of Arctic Flora and Fauna, Akureyri, Iceland. ISBN: 978-9935-431-71-4. Available online at <https://caff.is/monitoring-series/all-monitoring-documents/455-circumpolar-biodiversity-monitoring-program-strategic-plan-2018-2021-arctic>.
2016. *Arctic Cumulative Impacts Workshop Final Report*. U.S. Department of the Interior, 41 pp. Available online at <https://irma.nps.gov/DataStore/Reference/Profile/2257935>.
2016. *Arctic Research Plan 2017-2021*, Interagency Arctic Research Policy Committee (IARPC), National Science and Technology Council, Executive Office of the President, Washington, DC, 76 pp. (*Research Goal 7: Advance an Integrated, Landscape-scale Understanding of Arctic Terrestrial and Freshwater Ecosystems and the Potential for Future Change.*) Available online at <https://www.iarpcollaborations.org/plan/index.html>.
2013. *Mojave Basin and Range Rapid Ecoregional Assessment*. Available online at <https://www.nrc.gov/docs/ML1521/ML15211A622.pdf>.
2012. *A.2.4 Framework for Developing a Monitoring and Adaptive Management Plan* for the BLM's Solar Energy Program in Final Programmatic Environmental Impact Statement (PEIS) for Solar Energy Development in Six Southwestern States. Available online at <http://solareis.anl.gov/documents/fpeis/index.cfm>.
2012. *Central Basin and Range Rapid Ecoregional Assessment*. Available online at [https://landscape.blm.gov/REA\\_General\\_Docs/CBR\\_1\\_ReportBody.pdf](https://landscape.blm.gov/REA_General_Docs/CBR_1_ReportBody.pdf).
2012. *Seward Peninsula – Nulato Hills – Kotzebue Lowlands Rapid Ecoregional Assessment*. Available online at [https://landscape.blm.gov/REA\\_General\\_Docs/SNK\\_REA\\_Final\\_Report.pdf](https://landscape.blm.gov/REA_General_Docs/SNK_REA_Final_Report.pdf).

## MEETING TALKS & POSTERS - \*PRESENTERS

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2020. "Past, current, and future research at the Aldo Leopold Wilderness Research Institute." *European Wilderness Society, International Wilderness Week*. Virtual workshop; October 2020 (\*J. Taylor, \*C. Miller, \*S. Parks, \*L. Holsinger, \*K. Zeller, and \*C. Armatas).
2020. "National Wilderness Workshop, why is this year's workshop important...?" *Society for Wilderness Stewardship, National Wilderness Workshop*. Virtual workshop; October 2020 (\*H. MacSillarow, \*R. Welsh, \*K. Killian, \*P. Mali, \*K. Bliss, \*J. Taylor, \*P. Keller, \*N. Roeper, and \*R. Semler).
2018. "State of the Arctic Biodiversity Terrestrial Report: Key Findings Panel/Roundtable." *Arctic Biodiversity Congress*. Rovaniemi, Finland; October 2018 (J. Taylor - Moderator).
2018. "Latitude matters! Toward a new paradigm for assessing integrity of intact northern ecosystems (AB558)." *North American Congress for Conservation Biology*. Toronto, Ontario, Canada; July 2018 (\*J. Trammel, J. Reynolds and J. Taylor).
2017. "Trends in Arctic falcon populations—a preliminary overview for Circumpolar Biodiversity Monitoring Programme." *4th International Peregrine Conference*. Budapest, Hungary; September 2017 (\*A. Franke, K. Falk, S. Møller, K. Burnham, C. McIntyre, O.K. Nielsen, T. Olilla, J. Taylor, and T. Christensen).
2017. "The State of the Arctic Terrestrial Biodiversity Report: From data inventories to analyses and reporting." *Circumpolar Biodiversity Monitoring Program Terrestrial Steering Group Annual Meeting*. Akureyri, Iceland; March 2017 (\*J. Taylor).
2017. "Circumpolar Biodiversity Monitoring Program: Strategy 2018-2021." *Conservation of Arctic Flora and Fauna Working Group Board Meeting*. Kautokeino, Norway; February 2017 (\*T. Christensen and \*J. Taylor).
2016. "The CBMP Strategy 2018-2021, lessons learned and key issues." *Conservation of Arctic Flora and Fauna Working Group Board Meeting*. Longyearbyen, Svalbard; September 2016 (\*J. Taylor and \*T. Christensen).
2016. "The CAFF Landcover Change Initiative and applications to the State of the Arctic Terrestrial Biodiversity Report." *Circumpolar Biodiversity Monitoring Program Terrestrial Steering Group Annual Meeting*. Uppsala, Sweden; April 2016 (\*J. Taylor).
2016. "Managing at Landscape Scales: How does landscape science inform resource management and planning?" *Landscape Change: US-IALE 2016 Annual Meeting*. Asheville, NC; April 2016 (\*E.J. Trammell and J. Taylor).
2015. "Detection, understanding, and communication: science for parks and the park for science at Cape Cod National Seashore." *Science for Parks, Parks for Science: The Next Century*. Berkeley, CA; March 2015 (\*M. Adams, J. Taylor, and M. Tyrrell).
2014. "Herbivory and the Circumpolar Biodiversity Monitoring Plan." *Arctic Biodiversity Congress*. Trondheim, Norway; Dec. 2014 (\*J. Taylor).

2014. “National Park Service Inventory and Monitoring Program and the Arctic Network.” *Implementing the Arctic Terrestrial Biodiversity Monitoring Plan: Workshop 1*. Akureyri, Iceland; Feb. 2014 (\*J. Taylor).
2013. “The Circumpolar Biodiversity Monitoring Program Terrestrial Plan.” ArcticNet Annual Scientific Meeting (ASM2013). Halifax, Nova Scotia; Dec. 2013 (\*T. Christensen, J. Payne, M. Doyle, G. Ibarguchi, J. Taylor, N.M. Schmidt, M. Gill, M. Svoboda, M. Aronsson, C. Behe, C. Buddle, C. Cuyler, A.M. Fosaa, A.D. Fox, S. Heiðmarsson, P.H. Krogh, J. Madsen, D. McLennan, J. Nymand, C. Rosa, J. Salmela, R. Shuchman, M. Soloviev, M. Wedege).
2012. “Basic approach and fundamentals for a circumpolar vegetation-biodiversity monitoring plan.” *Designing an Arctic Terrestrial Biodiversity Monitoring Plan: Workshop 3*. Akureyri, Iceland; Sept. 2012 (\*M. Doyle and \*J. Taylor).
2012. “Progress on the development of an arctic vegetation-biodiversity monitoring conceptual model and associated key elements, attributes, and parameters.” *Designing an Arctic Terrestrial Biodiversity Monitoring Plan: Workshop 2*. Anchorage, Alaska; May 2012 (\*J. Taylor and \*M. Doyle).
2012. “The Bureau of Land Management Landscape Approach—REAs and AIM.” *National Landscape Conservation Cooperatives Workshop 2012*. Denver, Colorado; March 2012 (\*T. Haby and \*J. Taylor).
2011. “Standardization and/or harmonization of biodiversity monitoring methods.” *Designing an Arctic Terrestrial Biodiversity Monitoring Plan: Workshop 1*. Hvalsø, Denmark; Oct. 2011 (\*J. Taylor).
2011. “The Bureau of Land Management’s Landscape Approach for managing public lands.” *Interagency Collaboration for Sustainable Landscapes*. Denver, Colorado; November 2011 (K. Muller, K. Prentice, J. Tague, \*T. Haby, G. Toevs, J. Taylor, \*F. Quamen, and \*M. Bobo).
2011. “Index of ecological integrity for the Colorado Plateau.” *11th Biennial Conference of Research on the Colorado Plateau--Cultural and Natural Resource Management on the Colorado Plateau: Science and Management at the Landscape Scale*. Flagstaff, Arizona; October 2011 (\*K. Ford, J. Taylor, N. Carr, Z. Bowen, S. Bryce, and \*J. Strittholt).
2011. “Applied science priorities for Alaska’s North Slope: Improving understanding of environmental change and potential impacts, as established by NSSI Science Technical Advisory Panel and other members.” *Science, Natural Resources, and Subsistence in Alaska’s Arctic Lands and Waters: A Continuing Dialogue on Working Together to Understand our Changing Arctic*. Barrow, Alaska; March 2011 (\*B. Streever, \*J. Payne, \*R. Schuchman, \*R. Suydam, \*J. Taylor, \*et al.).
2011. “Uses and benefits of consistent indicators and a scalable, integrate sample design for BLM local-to-national data needs.” *Society of Range Management Annual Meeting, 64th Annual Meeting*. Billings, Montana; 2011 (G. Toevs, \*J. Karl, J. Taylor, et al.).
2009. “Resource Management & Monitoring Protocol: Achieving balanced stewardship of public lands.” *2<sup>nd</sup> Wyoming Landscape Conservation Initiative Science and Management Workshop*. Laramie, Wyoming; May 2009 (\*J. Taylor and D. Sylvia).
2008. “COS 12-3: Bioacoustic versus expert-birder point counts of forest songbirds along an urban to rural gradient in Southeastern Michigan.” *Ecological Society of America, 93<sup>rd</sup> Annual Meeting*. Milwaukee, Wisconsin; August 2008 (\*J. Taylor and D. Brown).

2008. "Bioacoustic versus expert-birder point counts of forest songbirds along an urban to rural gradient in Southeastern Michigan." *Michigan Bird Conservation Initiative 2<sup>nd</sup> Annual Ornithological Congress*. Petoskey, Michigan; April 2008 (\*J. Taylor and D. Brown).
2006. "Songbird-habitat relationships in human-dominated landscapes of exurban Southeastern Michigan, U.S.A." *4<sup>th</sup> North American Ornithological Conference: Wings Without Borders*. Veracruz, Mexico; October 2006 (\*J. Taylor, D. Brown, and C. Lepczyk).
2006. "Songbird trends in relation to human-induced landscape changes in exurban Southeast Michigan." *Conserving Birds in Human-Dominated Landscapes*. Center for Biodiversity and Conservation Spring Symposium, American Museum of Natural History, New York, NY; April 2006 (\*J. Taylor, D. Brown, and C. Lepczyk).
2006. "Breeding-bird trends in relation to land-use and land-cover changes in exurban Southeastern Michigan." *United States Regional - International Association for Landscape Ecology*. San Diego, CA; March 2006 (\*J. Taylor, D. Brown, and C. Lepczyk).
2005. "Avian communities and local landscape composition in Southeast Michigan." *SLUCE Symposium*. University of Michigan, Ann Arbor, MI; April 2005 (\*J. Taylor).
2004. "Linking land-cover change to local land-use policy - a GIS-based analysis." *GIScience 2004*. University of Maryland, College Park, MD; October 2004 (\*J. Taylor).
2004. \*\* "Linking land-cover change to local land-use policy - a GIS-based analysis." *IMAGIN Conference*. Lansing, MI; May 2004 (\*J. Taylor).