

Montana State Digital Library Combined Report
December 2013/January 2014
Montana Natural Heritage Program
Library Information Services
Geographic Information

Goal One—Content: MSL acquires and manages relevant quality content that meets the needs of Montana library users.

- The Geographic Information Program acquired the 2013 National Aerial Imagery Program's statewide 1 meter resolution color/infrared digital photography from the Farm Services Bureau. Staff is incorporating the data into MSL's multi-year imagery service. The program also acquired over 100 new GPS control points on public land survey system monuments from Missoula County, the U.S. Forest Service and private surveying firms.
- LIS has developed a master spreadsheet that accounts for the print state publications lost in the November 2013 fire at the Internet Archive. The spreadsheet will be the basis for recovering those titles that were unscanned. Meanwhile, LIS just received back 258 recently digitized state publications as it nears early completion of its fiscal year 2014 contract. From June 2008 when we signed our Internet Archive contract to the present (December 2013) 20,098 of our digitized state publications have been downloaded a total of 1,857,716 times. Of the state publications that we digitized in 2013, 3,189 of them have been downloaded a total of 41,464 times.
- Last year the US Government Printing Office (GPO) conducted a Public Access Assessment of the resources provided by MSL as a partial federal depository library. The GPO recommended that LIS look into joining the Cataloging Records Distribution Project (CRDP) to receive monthly MARC records for new electronic, federal publications. LIS has applied and is now on the waiting list. Meanwhile LIS is pursuing how to directly download catalog records from the Catalog of U.S. Government Publications (CGP).
- The Wetland and Riparian Mapping Center of the MTNHP has updated its status map, which can be found at http://mtnhp.org/nwi/NWI_Status_map.asp. To date, over 2.1 million acres of wetlands and riparian areas have been mapped by the Center.
- Since early September, MTNHP Zoology and Information Services staff has added an additional 17,806 observations to the animal point observation databases. Animal point observation databases now have 1,445,220 point observation records (1,040,659 bird records and 404,561 records of other animal species).

Information has been added for an additional 1,361 structured animal surveys; the central database now contains a total of 160,509 structured animal survey locations. Staff effort during this time period focused on running some general QA/QC measures as well as review of individual records; 46,130 records were reviewed for final acceptance into the point observation databases. An additional 180,401 observation records (12% of all records in the database) still need to be reviewed for final acceptance into the database. Observation records and structured surveys are viewable on the Natural Heritage Tracker <http://mtnhp.org/Tracker/NHTMap.aspx> and Natural Heritage MapViewer <http://mtnhp.org/mapviewer/> web applications and generalized observations are viewable on the Montana Field Guide <http://fieldguide.mt.gov/>

- New data tables were created and data entry begun to manage information on Aquatic Invasive Species. This work is being completed in cooperation with the Montana Department of Natural Resources and Conservation.

Goal Two—Access: MSL provides libraries, agencies, and its partners and patrons with convenient, high quality, and cost-effective access to library content and services.

- The Geographic Information Program is working with the MSL IT staff to incorporate the functionality of the existing GIS data portal into the GIS data list. This will allow patrons to enter metadata records into the data list's database using forms and other tools. The two primary goals of this project are to increase efficiency by eliminating the redundant data portal and to increase patron contributions to MSL's metadata repository. The program also acquired the 2014 update to FME Server which is the final piece needed to release the new version of the Data Bundler.
- LIS continues to develop the EBSCO Discover-It search interface. New search box widgets for MT.GOV Connect and the Digital Public Library of America have been added and appear on the search results page. Together these search interfaces form a portal that brings together diverse collections of resources and provides library users a convenient starting point for research. Adding search widgets for now is also a cost-effective alternative to the central indexing of additional collections of resources.
- LIS has met several times to discuss the development and implementation of a Facebook page that supports two-way communication among state agencies, libraries, and the general public to insure permanent public access to state government information. Development discussions centered on the policies and procedures, appropriate content, scheduling and review process for posting, the relationship of site to the main MSL Facebook page, and records management issues. The projected launch date is Monday, February 3rd, 2014.

- Between late December and through January, Montana Field Guide Species accounts have been updated for all Animal Species of Concern so that literature citations used in the species accounts are contained in the Literature Cited Above portion of the References section of the account. This update provides agency personnel and members of the public direct access to literature or holdings for literature on Montana Animal Species of Concern. See Common Loon (*Gavia immer*) as an example http://fieldguide.mt.gov/detail_ABNBA01030.aspx.
- Heritage information staff worked with the Statewide Projects Librarian to format Montana Field Guide content to be made available on the EBSCO Discovery Service. This resource should be made available soon.

Goal Three—Training: MSL provides appropriate trainings and training resources so that the best use can be made of the resources offered.

- The Geographic Information program continues to work in partnership with the Esri State/Local Solutions Team to find a solution for state assumption of custodianship duties associated with coordinate positions of the Public Land Survey System. In January five staff members, along with the Heritage Program's Karen Coleman attended a 2-day training session with Montana Geographic Information staff on ESRI Parcel Fabric tools. This software is intended to be used to manage statewide geodetic control and tax parcel information. MTNHP has traditionally managed Land Management information that is integrated with the parcel database and will likely be incorporated into the Parcel Fabric. Because this effort has potential nationwide implications MSL staff is receiving thousands of dollars of free consulting services from Esri.
- The Geographic Information staff also provided training and presentations at the December Montana Association of Geographic Information Professionals Technical Sessions associated with the State IT Conference in December. Presentation topics included ArcGIS Online, PLSS Stewardship and Map Projections.
- LIS interlibrary loan staff recently met with their counterparts at the Lewis and Clark library in Helena to compare workflow and processes for obtaining materials from other libraries. Although the two libraries have different integrated library systems, serve different patrons, and vary greatly in volume level of requests, both libraries face similar challenges in transitioning to the new OCLC WorldShare Interlibrary Loan platform that will soon replace WorldCat Resource Sharing. The meeting was also an opportunity for better understanding the differences between ILL statistics that were formerly generated in-house and the automated reports generated by OCLC.
- Heritage information staff attended the annual MAGIP Technical Session/Montana Government IT Conference in Helena in December. Sessions

covering topics such as ArcGIS Online, Enterprise Architecture, Python programming, Project Management, and more provided staff with a useful training and networking opportunity for our staff.

Goal Four—Consultation and Leadership: MSL provides consultation and leadership to enable users to set and reach their goals.

- State GIS Coordinator Stu Kirkpatrick has worked with the Federal Geographic Data Commission's Cadastral Subcommittee Co-chair Nancy Von Meyer on a white paper entitled "PLSS CadNSDI Change Management Process" that employs standard IT change management practices to help resolve potential political issues associated with multiple stakeholders managing PLSS data. That document is in the hands of the Bureau of Land Management for review. Stu also has provided the State of North Dakota advice and consultation on first steps to building a statewide cadastral database.
- Allan Cox, MTNHP Lead Program Manager, and Bryce Maxell, MTNHP Senior Zoologist attended the December meeting of Resource Committee of the Montana Wood Products Association (MWPA) in Missoula. At that meeting, they gave an invited presentation on the services of the Montana Natural Heritage Program and participated in discussion on ways the members of the MWPA can make use of MTNHP data and information services.
- During December, Allan Cox, MTNHP Lead Program Manager, participated in a variety of one-on-one consultation meetings with MTNHP partners to continue discussion from our November annual partners meeting. The meetings explored ways the MTNHP can provide service to the partners and ways the partners can support the MTNHP. Participants included the US Forest Service (Region 1, Missoula), US Bureau of Land Management (Billings state office), US Fish and Wildlife Service (Helena state office), Montana Department of Fish, Wildlife and Parks, Montana Department of Environmental Quality, Montana Department of Agriculture, the University of Montana Division of Biological Sciences, Montana Audubon, and the Montana Chapter of The Nature Conservancy.
- In early January, Allan Cox, MTNHP Lead Program Manager, along with Jennie Stapp and Evan Hammer participated in a meeting with Tim Baker, Natural resource Policy Advisor for Governor Bullock. The meeting was an opportunity to familiarize Mr. Baker with the services and information available to him from the State Library (MTNHP, Geographic Information, and Library Services) and for MSL personnel to get an idea of the ideas and needs of his office.

Goal Five—Collaboration: MSL promotes partnerships and encourages collaboration among its users.

- Under a small contract with DNRC the Geographic Information Program is providing support to DNRC to automate the production of evapotranspiration (water use) grids and make them discoverable through MSL.
- As part of the Montana Shared Catalog project to reorganize circulation policies and procedures, LIS ran a report listing its item types and the number of resources in each item type. LIS was able to reduce its number of item types and rely on Item Type categories for specificity where needed. Consolidating item types was also an opportunity to weed low circulating VHS tapes from the collection.
- House Joint Resolution 2 (HJR2) assigned the Legislative Council in 2013 to study electronic records management by state and local government. In turn the Education and Local Government Interim Committee formed a work group comprised of representatives from state, local government, and school boards. Jim Kammerer, LIS manager and MSL records manager, for a couple of months, has represented the Montana State Library on this work group. MSL has a stake in the outcome of HJR2 foremost because of its own agency records and information management obligations.
- LIS staff attended a bi-monthly meeting of the State Social Media Group composed of various state employees responsible for managing social media. This meeting focused on how state agencies are managing their social media channels as records and what software they were using to archive content made or received that documents the transaction of official business, i.e. a public record.
- In commemoration of the 100th anniversary of women's suffrage in Montana, LIS has created a "Women in Montana" web page viewable at <http://research.montanastatelibrary.org/women-in-montana/> that complements the Montana Historical Society's "Women's History Matters" project. The LIS web page highlights the accomplishments and experiences of Montana women as found within the pages of our collection of digitized state publications.
- MTNHP completed a data exchange with the US Forest Service. Forest Service animal observation data from Montana units were incorporated into MTNHP databases and non-Forest Service data located on National Forests were provided to the USFS. This project provided an opportunity to weed duplicate data and address data QC issues, resulting in improved data holdings for both organizations.
- Linda Vance, MTNHP Senior Ecologist, participated in a day-long planning meeting with representatives from the US Fish and Wildlife Service, Montana Fish, Wildlife & Parks, and the Montana Department of Environmental Quality

held at the Lubrecht Experimental Forest in December. The purpose of the meeting was to identify and understand the latest methods, models, and/or tools that partners are using to prioritize and target habitat conservation in the West and Montana and assess opportunities to collaborate, share information and resources on these efforts.

- The MTNHP Zoology Program continues to lead a multi-agency collaborative effort to conduct surveillance on Montana bats and White-Nose Syndrome caused by the fungus *Pseudogymnoascus destructans* which has killed millions of bats in eastern North America. Recent efforts include: (1) development of a method to screen the nearly 7 Terrabytes of bat acoustic call data that has been collected in recent years for the presence of the Spotted Bat (*Euderma maculatum*) http://fieldguide.mt.gov/detail_AMACC07010.aspx , an extremely rare species of bat (2) leading efforts to develop statewide acoustic and roost surveillance plans for Montana bats.
- Karen Newlon, MTNHP Ecologist/Project Manager, gave a webinar for the Wetland Mapping Consortium, an interdisciplinary group of scientists and managers interested in creating and utilizing remote sensing tools and products to map, monitor, and manage wetland resources. The webinar, held on December 18, 2013, was part of a project that developed GIS-based tools and other training materials to create a value-added digital wetlands layer, allowing for a more detailed characterization of wetlands. The webinar had over 60 participants from federal, state, and Tribal agencies, non-governmental organizations, and consulting firms across the country.

Goal Six—Sustainable Success: MSL is efficient and effective (measured against user outcomes), and is engaged in fulfilling its mission.

- Geographic Information Program staff members Diane Papineau (5 years) and Bob Holliday (15 years) have received state service recognition pins.