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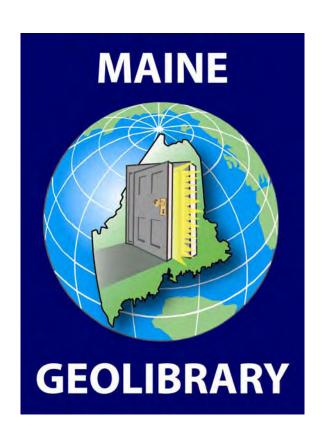
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Maine Library of Geographic Information 2008 Annual Report to the Legislature and

Joint Standing Committees on Natural Resources and State and Local Government



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This Maine Library of Geographic Information Annual Report for calendar year 2008 has been prepared in accordance with 5 M.R.S.A. §2003(I)(L).

Acronyms & Selected Definitions

Board of directors for the Maine Library of Geographic Information

CIO Chief Information Officer for the state

FGDC Federal Geographic Data Committee, sets metadata standards

GeoLibrary Common name for Maine Library of Geographic Information (MLGI)

GIS Geographic Information System

MEDOT Maine Department of Transportation

MEGIS Maine Office of GIS

MEGUG Maine GIS Users Group

MLGI Maine Library of Geographic Information

NGO Non-Government Organization

NMDC Northern Maine Development Commission

OGC Open Geospatial Consortium, a non-profit international organization that

develops standards for geospatial and location based services

OIT Office of Information Technology

Resolve 23 Legislative committee that drafted the plan that resulted in the MLGI

SPO State Planning Office

USGS United States Geological Survey

1. **GEOLIBRARY**

The Maine Library of Geographic Information ("the GeoLibrary") is a partnership of public and private stakeholders created by the Maine Legislature to operate a coordinated, cost effective electronic gateway providing access to data custodians' public geographic information.

At present, the GeoLibrary has no staff or operating budget and relies on the Office of Information Technology (OIT) for administrative and operational support. The GeoLibrary received bond funds totaling \$2.3 million in 2003 to start its work. It was not successful in obtaining either operating funds or additional bonds for development in 2007 or 2008. The initial bond money is nearly depleted, and additional sources of funding are vital if the GeoLibrary is to continue its mission. The GeoLibrary's funding needs are detailed on page 5.

The *mission* of the GeoLibrary is to create an electronic gateway to public geographic information, and to expand and promote the value of geographic spatial data through widespread distribution and innovative use for the benefit of Maine's citizens.

The **vision** of the GeoLibrary is to provide state-of-the-art, comprehensive, and ever expanding access to public geospatial information and services, and to facilitate the availability of geographic information collections and access for all citizens. This vision encompasses:

- the development and subsequent maintenance of an Internet-based GeoLibrary Portal ("The GeoPortal"). This portal will enable discovery of and access to spatial data held by public and private sources. It utilizes nationally recognized standards and techniques that permit these data to easily be combined and aggregated for many uses,
- the stewardship of priority statewide spatial datasets and the associated technology essential for sharing geographic data ensuring that State data is available, up to date and accurate,
- the design and implementation of appropriate spatial data standards to allow it to be used for multiple purposes,
- facilitating the modernization and consistent GIS development of local government land records to make them more accessible and usable by businesses and citizens of Maine,
- support for smart growth and growth management with datasets and techniques that enable state/county/municipal governments to effectively plan land use, location decisions, and site designs in a way that will minimize negative impacts on the social, economic and environmental health of Maine,
- multi-organizational data-sharing that results in significant savings in the cost of creating and maintaining geospatial data,

- budgeting that prioritizes the strategic importance of geospatial information, its maintenance and dissemination,
- promoting innovative uses of public geospatial information that fosters economic development,
 and
- implementing education and outreach programs that advocates for the further development of Maine as a national center for GIS research, education, and industrial growth.

The Board has identified *four areas of Strategic Focus* to realize its mission and vision:

- SF1. The development of a web-based distribution system to facilitate access to statewide data holdings.
- SF2. The development and implementation of statewide data standards to ensure data quality and to enable common use
- SF3. The provision of funding and management for high priority data and database development to support community and regional planning, smart growth, and community preservation.
- SF4. The provision of coordination, outreach, and education in support of better public use of geospatial data and to maintain and enhance Maine's position as a national center for GIS research, education and industrial growth.

2. 2008 GOALS AND ACCOMPLISHMENTS

In 2008 the GeoLibrary undertook the following projects or initiatives in support of its strategic focus:

SF1. To support the development of a web-based distribution system to facilitate access to statewide data holdings:

The GeoLibrary has completed the initial construction of its web-based GeoPortal for public access to statewide spatial data. The GeoPortal is now operational in prototype mode and can be accessed from the GeoLibrary website at http://www.maine.gov/geolib/

- Anyone with an internet browser can use the portal to view geographic information. Unlike most
 viewers, the GeoPortal can convert "raw" geographic data uploaded from data providers to an image
 that can be displayed on its map viewer. This will enable Maine citizens, local governments, academic
 institutions, industry, non-governmental organizations, and others who do not have web servers to
 provide their geographic data for viewing.
- For people not familiar with geographic data, there are pre-set categories of data searches or "channels" available. Specific data searches including advanced searches are available for the more experienced users. This will enable users to type in a word such as "wetlands" and find a description of all data and services registered with the portal on wetlands.
- Organizations wishing to make their data available to the GeoPortal can manually enter metadata (data about data) using Web forms, or upload metadata files directly. The metadata will be reviewed, approved and registered after which the data will be freely available to all users.
- SF 2. To support the development and implementation of statewide data standards to ensure data quality and to enable common use, the GeoLibrary Board:
 - Maintained data standards for municipal parcel data submitted to the GeoLibrary or developed with GeoLibrary managed funds, and
 - collaborated with MEGIS and the state agency GIS Stakeholders Group¹ to ensure cooperation and encourage efficiencies regarding mutual goals.
- SF3. To support the provision of funding and management for high priority data and database development to encourage community and regional planning, smart growth, and economic development the GeoLibrary Board:
 - Completed a \$3.2M project in conjunction with the Federal government to produce high resolution (1 foot and 2 foot pixel) digital orthophotography for Maine's populated areas. Due to an unexpected increase in federal funding, a larger area of the state was covered with the high

¹ The GIS Stakeholders Group is a group of state agency representatives that advises the CIO. It superseded the GIS Executive Council in February of 2007.

resolution imagery than was originally projected. Altogether, 561 townships are now covered and the areas now available are presented in Appendix B. *For cost savings information, please see Appendix A.*

• Completed a \$370,000 municipal grant program for digitizing property tax maps with awards varying from \$1,000 to \$10,000. A total of 114 applications were received and 75 were awarded grants. The parcel grants program was one of the GeoLibrary most popular programs. The GeoLibrary staff frequently receives inquiries from municipalities about future funding for grants for digital parcel data. A number of Maine municipalities who were contemplating setting up their own GIS systems reported that receiving a GeoLibrary grant to help automate their parcel data was exactly the "kick start" needed to proceed with their own investment.

SF4. To support the provision of coordination, outreach, and education in support of better public use of geospatial data and to enhance Maine's position as a national center for GIS research, education and industrial growth, the GeoLibrary:

- Provided \$15,000 in direct funding to help win a federal National Spatial Data Infrastructure grant
 of \$50,000. This grant has two objectives; first, to update and enhance the GeoLibrary Strategic
 Plan and bring it into alignment with the goals of the National States' Geographic Information
 Council (NSGIC) Fifty States Initiative and second, to recommend a conceptual framework and
 functional specification for an Integrated Land Records Information System for the State.
- Sponsored exhibits and demonstrations for GIS Day, November 19th in the Capitol Hall of Flags.
 The theme for the day was Harnessing the Power of GIS to Benefit the Citizens of Maine and in
 particular showcased the contributions of the GeoLibrary to municipalities and the public. Five
 towns and two schools were represented as well as United States Geological Survey, Maine State
 Planning Office, Maine GIS User Group, Maine Department of Transportation, Northern Maine
 Development Commission and the GeoLibrary Board itself.

3. 2009 PRIORITIES AND INITIATIVES

The projects outlined in the GeoLibrary's request for bond funding each move the stakeholders, public and private, closer to the goal of ready, accurate data and information that is essential to planning for Maine's future. The following table summarizes the projects the GeoLibrary Board plans to undertake pending bond funding approval. Each project category is then described in detail following the table.

Table 1. GeoLibrary Board Bond Funded Project List

	Bond Funds			Match	
Project	FY09	FY10	FY11	FY09	FY10
Statewide		\$1,076,250	\$1,680,000		
Digital					
Orthophotos					
High			\$1,575,000		
Resolution					
Topography					
Data					
Parcel Grant		\$210,000	\$210,000		
Program					
Integrated		\$315,000	\$315,000		
Land Records					
Systems					
Municipal &		\$262,500	\$262,500		
Regional Data					
Services					
SUBTOTAL	\$0	\$1,863,750	\$4,042,500	\$0	\$0
TOTAL			\$5,906,250		

Statewide Digital Orthophotos

A digital orthophoto is a digital image of an aerial photograph in which displacements caused by the camera and the terrain have been removed. It combines the image characteristics of a photograph with the geometric qualities of a map. They are often used as a backdrop in a GIS and as a base for creating or updating maps. Unlike a standard aerial photograph, relief displacement in orthophotos has been removed so that ground features are displayed in their true ground position. This allows for the direct measurement of distance, areas, angles, and positions. Also, an orthophoto displays features that may be omitted or generalized on maps.²

² What is a Digital Orthophoto, 2001, Land and Mapping Services, Clearfield. PA

From 2003 to 2008, the GeoLibrary implemented a \$3.2 M project, 50% of the cost of which was provided by the USGS, to produce high resolution digital orthoimagery for the state's organized townships. The resulting cost savings to business, industry, state and local governments and the public has been extraordinary. Some examples of the cost savings and the uses to which the imagery has been put are described in Appendix A.

Past experience has demonstrated that cooperative efforts to purchase *statewide orthophotography is far more cost efficient* than individual towns and organizations purchasing smaller areas of aerial coverage. A large portion of the fixed cost for producing orthophotography is getting a pilot and plane off the ground. This program is designed to meet the minimum needs of state government on a statewide basis, but allows municipal governments to purchase upgrades to meet their needs on an incremental cost basis, thereby saving them significant costs. In addition, by providing quality control and contract administration centrally through the state, a higher overall quality product will result.

High Resolution Topography Data

High resolution topography (elevation) data is used for a number of purposes. Some of the key purposes involve inland flood prevention as well as coastal zone water inundation studies. This work is also used to predict the impact of catastrophic failures of dams and levees and modernize flood plain mapping. Most importantly, the output from its results can be used to save lives and lower economic losses. In addition, this important data can be used by engineering and surveying firms doing work in Maine as part of the site design process for locating new facilities. While parts of Maine already have acquired these data, much of the state only has data with accuracies of + or - 10 feet in elevation. This program would seek to reuse existing data, where possible, and capture new data, where required. This combined data would then be "stitched" together to create a digital elevation model that would accurately depict the elevation changes across the state.

Parcel Grant Program – Integrated Land Records System

One of the major initiatives of the GeoLibrary Board has been the development of an Integrated Lands Records Information System. This system has the capacity to make land records systems in Maine competitive with other states. It establishes an electronic system that integrates tax parcel information kept at the state, county and municipal levels to improve access to it and its overall usefulness to public and private sectors in Maine. It will significantly improve the capabilities of professionals in the legal, environmental, public safety, surveying and engineering communities to *ensure economic growth in Maine in an expedient but open and environmentally responsible manner*. By providing access to this information in a controlled, easy-to-use, organized manner, the state will make real estate transactions easier to perform, reduce the need for professionals to travel to government offices (thereby lowering carbon emissions and improving efficiencies of those professionals) and make government more transparent to its citizens.

As noted above, the conceptual design for the Integrated Land Records Information System was initiated in 2008 by the GeoLibrary Board. The proposed program would build on that design and proceed in three phases: initiate a pilot project involving multiple counties to develop and test a system for several municipalities; continue* a grant program to create electronic tax parcel information for municipalities where that information currently does not exist; and establish a tax parcel maintenance program for municipalities where electronic tax parcel information exists.

(*Note - Under a previous grant program bond funds were made available to municipalities to digitize property tax maps with awards to municipalities varying from \$1,000 to \$10,000, and requiring a minimum 1-1 municipal match for each dollar awarded. All rounds of awards have been completed, with 74 awards granted out of 120 municipal applications.)

Municipal and Regional Data Services

Data Access Improvement Program

The GeoLibrary held informational discussion forums around the state as well as conducted an online survey to gather input for future GeoLibrary Board projects. One of the major themes that appeared was the lack of access to and availability of state and local GIS data. Not knowing where existing GIS data are or not being able to access data easily is costing taxpayers in the state of Maine on a daily basis.

The first phase of the Data Access Improvement Program would identify significant GIS data at all levels, assist state and local governments to make it compatible with national standards, and provide resources to work with data owners to make this data available to users across the state. This program would continue to build on the GeoLibrary's new GeoPortal by providing access to the hosting function of the portal to communities wishing to participate in this program. This will eliminate much of the cost of the hardware and software needed to host this information, enabling smaller towns and organizations to easily share their data.

The second phase of this program would seek to develop a virtual network of GIS nodes with more technologically advanced municipalities, non-governmental organizations, private industry, academia, and more by connecting them through common standards over the internet to the newly constructed GeoPortal.

Develop Municipal Services Applications Program

Another one of the themes that was heard in the Forums and on-line survey was the difficulty in obtaining the software and expertise to effectively use GIS within local communities. This program builds off the GeoPortal's web services and would develop three to five easy-to-use (non-technical) GIS applications that would be made available to communities via a web browser. These applications would be based on a study of overall community needs, but could include services such as: tax mapping, zoning, building permits, planning, economic development, and efficient bus routing. This would enable these communities to use these applications without having to invest in data hosting, software, expert staff or contracting out for the individual development of these applications. In addition, using these applications would encourage the development of local data that meets acceptable standards.

Zoning Map Development Program

A comprehensive regional or statewide zoning data layer is a key component of economic development, development tracking, build-out analyses, smart growth planning, and modeling of zoning options. Zoning data are used by realtors, developers, business development groups, conservation organization and municipalities. While limited regional composites of zoning data have been made, comprehensive zoning data do not exist on a statewide basis. The Board would fund a program of grants modeled on the Parcel Grants Program to upgrade and submit digital zoning to the GeoLibrary in order to begin creation of a statewide zoning data layer. The relevant data falls generally into two types:

- Shoreland zoning data from each community would be automated and compared to an
 established standard and then once approved it would become part of the GeoLibrary.
 Shoreland zoning is comparatively uniform because it is created by state statute and based on
 natural features. This part of the project would therefore lend itself best to a regional approach.
- General Municipal Zoning would be automated with zoning areas represented as polygons that have attribute information describing the municipal zoning classification. Maine municipal zoning does not have a uniform set of zoning codes. Therefore, as with the digital parcel data, standards will need to be developed by the GeoLibrary Board to guide data development. A state standard would not involve removing local codes from the data but would include both municipal and standard zoning information. Again, data from each community would be automated and compared to an established standard and then once approved it would become part of the GeoLibrary.

Land Cover Updating Program

Land cover maps depict the dominant vegetation or ground cover of the landscape down to a scale of two acres in size per cover type. The GeoLibrary provided partial funding for the development of a recently completed Maine Land Cover dataset that is tightly integrated with federal efforts to map land cover and imperviousness nationwide with tremendous cost savings. Data users include:

- biologists modeling species habitat for population management,
- public and private planners studying growth and site location,
- environmental specialists looking at storm water issues,
- forestry planners studying forest composition and change,
- · emergency management planners, and
- meteorologists modeling air emissions.

These users' tasks can be carried out in a more cost effective manner through remote sensing than by field mapping, with a statewide effort to provide an added level of consistency. Updates every two to five years to assess change is essential, and with the last effort completed in 2007 there should be an update scheduled for 2009.

Comprehensive Conservation Lands Maps Development Program

The state does not currently have an overarching mechanism to track conservation lands that are in state, federal, municipal or private ownership. Efforts are underway to address this, but without additional resources tracking ownership of conservation lands is impossible. This program will use funds to update the current conserved lands data and will develop a mechanism to increase and update these data annually. Efforts will include coordination with a steering committee, discovery and review of documents held by state and local entities, input of attributes into a database (i.e. owner name, ownership type, contact information, etc.), geo-location of sites as necessary, development of FGDC compliant metadata, and a mechanism to update the database.

The stakeholders interested in the status and quality of conserved lands in Maine is large and varied, but it includes:

- legislators, municipal officials, planners, policy makers, the public, and members of non-profit conservation groups who need to assess current programs in order to invest resources effectively;
- permit reviewers for conserved lands who, under Maine statutes and rules, need to know the location and attributes including size, location, type of easements or restrictions, habitat types and viewsheds to analyze the potential effects of new development;
- conservation organizations working under new policy directives such as the Maine Coast
 Protection Initiative (MCPI) and the Coastal and Estuarine Land Conservation Plan who are
 challenged to choose projects that address multiple objectives such as public access, conservation
 of working lands and protection of high priority habitat types. Each of the seventy MCPI partners
 has committed to a new framework for strategic land conservation, so a variety of public and
 private conservation organizations would benefit strongly from better evaluative tools; and
- the increasingly *more sophisticated eco-tourist who desires additional information* about conserved lands beyond simple location information. With more visitors using the internet, a web-based coastal access guide would complement Maine's efforts to claim additional market share of nature-based travelers.

4. FINANCIAL EXPENDITURES THROUGH 2008

The GeoLibrary Board is composed of volunteers. Its staffing is funded by an arrangement with OIT. The Board was given authority to administer \$2,300,000 in state bond funds for GIS capital investments in November 2002. The Board has entered a series of cooperative agreements with federal agencies to garner the required \$1.6 million federal match for the approved bond funds for a total of \$3.2 million. The table below totals bond expenditures to date.

Table 2. GeoLibrary Board Bond Expenditures.

the state of the s				
Bond Total	\$2,300,000.00			
Amount expended through 12/31/08	\$2,135,502.50			
Amount encumbered by contract through 12/31/08	\$69,500.00			
Total expended or encumbered through 12/31/08	\$2,224,629.50			
Bond funds remaining	\$75,370.50			

5. ORGANIZATION

Legislative Background

In 2001, the Legislature instructed the State Planning Office to convene what came to be called the Resolve 23 Steering Committee to study the use of GIS in statewide strategic planning. The Committee developed a needs assessment- the conclusion of which recommended the GeoLibrary, its method of governance, and strategic focus. The Legislature and Governor concurred, and the Maine Library of Geographic Information Act 5 M.R.S.A. Section 2001 *et seq* became effective April 2002.

Governance

The GeoLibrary is governed by a board of directors, and its members are appointed by the Governor, the President of the Senate, the Speaker of the House, the Chancellor of the University of Maine System, the Director of the State Planning Office, and professional organizations representing major stakeholder groups. The Board is independent, term-limited (with the possibility of reappointment), and drawn from the public and private sectors. Therefore, it is uniquely positioned to represent all stakeholders fairly and in a way most likely to foster efficient cooperation and mission success. The current membership is:

Table 3. Membership.

Sector	Name	Title	Affiliation
Commissioner of	Nancy Armentrout	Agency IT Director for DOT	Office of Information
Administrative and			Technology
Financial Services			
Environmental Interests	Dan Coker (Vice-Chair)	GIS Manager	The Nature Conservancy in
			Maine
GIS Vendors	Jon Giles, PLS	GIS Manager / Surveyor	Sebago Technics
GIS Vendors	Stu Rich		Penobscot Bay Media
Municipalities	Gregory Copeland, PLS	Eng. Programs Manager /	City of Biddeford
		GIS Coordinator	
Municipalities	Gretchen Heldmann	GIS/IT Specialist	Town of Hampden
Public	Aimee Dubois	GIS Coordinator	Town of Scarborough & City
			of Saco
Real Estate and	William Hanson, Esq. (Chair)	Attorney	Rudman & Winchell, LLC
Development Interests			
State GIS Interests	Christopher Kroot	GIS Manager	Department of
			Environmental Protection
State GIS Functions	Robert Marvinney, Ph.D.	State Geologist and Director	Maine Geological Survey
State Government	Michael Smith, representing	State GIS Manager	Office of Information
	Richard Thompson, CIO		Technology
Statewide Association of	Paul Hoffman	Consultant	Sheepscot Valley
Counties			Conservation Association
Statewide Association of	Ken Murchison	GIS Specialist	Northern Maine
Regional Councils			Development Corporation
UMaine System	Marilyn Lutz	Director of Library	Maine InfoNet / UMS
		Information Technology	Libraries
		Planning	
Utility Interests	Greg Davis	Project Manager	Time Warner Cable

The GeoLibrary Board meets monthly. Agendas and meeting notes can be found on the GeoLibrary website: http://www.maine.gov/geolib/. The Board is organized into three standing subcommittees:

- 1) Finance Committee, with responsibility for:
 - budget oversight;
 - recommending budget or other financial actions to the Board for approval;
 - primary interaction with outside entities on financial issues.
- 2) Policy Committee, with responsibility for:
 - policy oversight;
 - recommending policy adoptions and amendments to the Board;
 - memorializing approved GeoLibrary policies;
 - primary interaction with external entities on policy issues.
- 3) Technical Committee, with responsibility for:
 - advising the Board on all technical matters;
 - oversight of all Board projects;
 - primary interaction with outside entities on technical issues.

Library Structure

The GeoLibrary is staffed by agreement with the Office of Information Technology (OIT). OIT/MEGIS manages and operates the GeoLibrary website, GIS database, and data access facilities. The GeoLibrary's GeoPortal is the central node in a distributed system linking its stakeholders via the web as well as providing the central point of connection between state agencies and the public and other public entities.

As a simplified schematic it looks like this:

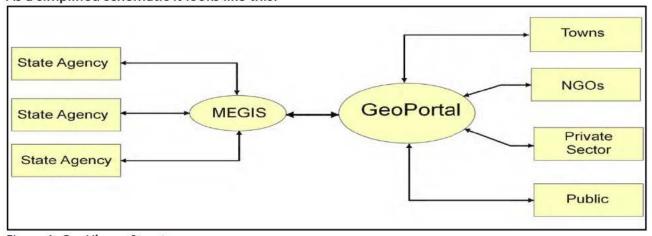


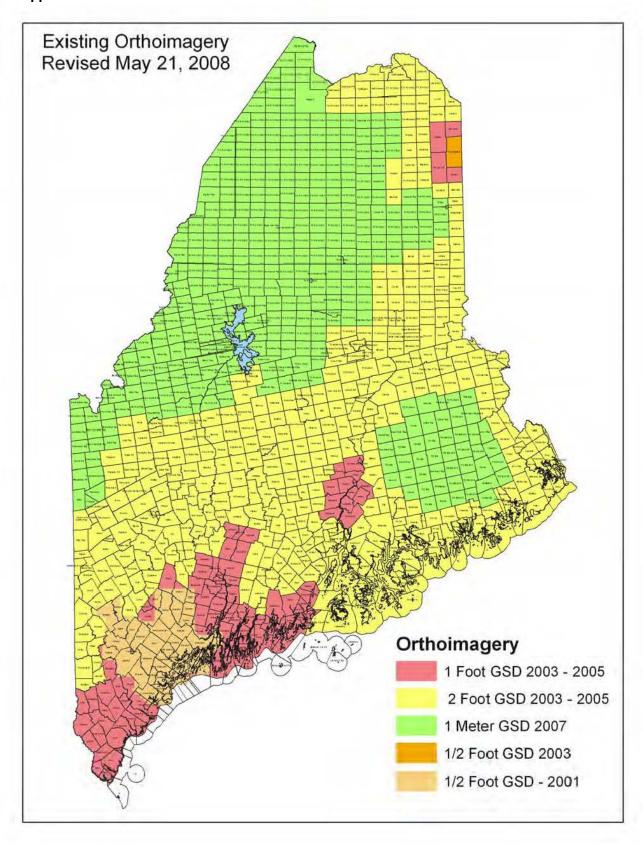
Figure 1. GeoLibrary Structure.

6. Appendix A

Cost Savings from the Use of Orthoimagery

- Based on an online survey, orthoimagery users were 46% businesses and corporations, 12% state government, 12% educational institutions, 11% municipal government, 7% non-profits, 5% federal agencies and 7% all other. About 48% of the respondents reported measurable cost savings.
- A municipal mapping company: "We estimate that for a town of approximately 2,000 parcels, the savings in a tax mapping project is \$20,000 or more by using the orthoimagery."
- An academic institution: "...using the orthoimagery for mapping wetlands saved over three weeks of intensive manual labor by two individuals, ...240 hours or \$12,000."
- A surveying company: "By using your information we reduce travel time to each site as well as time spent in the field."
- Site design consultants: "We use orthophotos available on the site all the time for pre-project planning and for overview of site area and general viewing."
- A large grocery chain: "(We) use the imagery to verify household counts in certain zip codes and pull imagery into a GIS so they can be shown with our town boundary files."
- A state agency: "...one overnight trip from Augusta to Houlton by an employee at \$15 per hour costs the state a minimum of \$560. In most cases, a trip like this would have to be extended for at least a week in order to approach the amount of information contained in one recent, high resolution aerial image."
- Many state agencies use orthoimagery for regulatory and enforcement activities, permitting and zoning. As budgets are stretched, high resolution imagery refreshed on a regular basis has become a necessity for these activities.

7. Appendix B



8. Appendix C

Aroostook Considers Options for LiDAR Acquisition in Wake of 2008 Spring Flood Event

On the heels of record flooding in Northern Aroostook County where we see the Federal Emergency Management Agency (FEMA) still on the ground doing emergency mitigation and residents of Fort Kent are already seeing snow on the ground and wondering what's in store for this coming spring, we are noticing an increased interest in light detection and ranging (LiDAR) technology and its application to forecast and to create modeling for future flood events and planning.

LiDAR quite simply is down pointed radar which when applied like traditional aerial photography yields hyper accurate imagery of the Earth's surface which would in turn yield a very accurate digital elevation model (DEM) and the foundation for the types of analysis that form sound planning practices.

Northern Maine Development Commission (NMDC) noted an influx of inquiries and communiqués regarding a FEMA proposal for a LiDAR project initially covering the Fish River from Eagle Lake to the confluence of the Fish River in Fort Kent and subsequently a reduced area including the flood inundation area of the town of Fort Kent. As the conversation continued and interest spread to include several federal, international (Canadian), state and local entities even larger projects, perhaps as large as individual sub-watersheds, entire watersheds and even county wide projects, and partnering were being discussed.

It was clear to NMDC at this point that it was time to assemble the interested parties and provide the forum for a "Telcon Handshake" so that all parties could express their potential participation in such a project. A conference call for 3:00 pm Friday October 31st was arranged to discuss the concept of LiDAR as it relates to the original Fish River project proposed for the Fort Kent area, and the possibility of a larger LiDAR program in Aroostook County.

The following stakeholders were indentified and were invited to join our conference.

Holly Dominie, Federal Emergency Management Agency (FEMA)

Mike Geotz, Federal Emergency Management Agency (FEMA)

Kevin Merli, Federal Emergency Management Agency (FEMA)

Dan Walters, United States Geological Society (USGS)

Mark Turner, National Oceanic and Atmospheric Administration (NOAA) National Weather Service

Skip Babineau, United States Department of Agriculture (USDA)

Elizabeth Barton, Maine Emergency Management Agency (MEMA)

Verne Ouellette, Aroostook County Emergency Management

Joe Young, Maine Floodplain Management Program

John Bannen, Town of Fort Kent

Roland Gagnon, Irving Woodlands

Robert Clark, Northern Maine Development Commission (NMDC)

Alain Ouellette, Northern Maine Development Commission (NMDC)

Denis Berube, Northern Maine Development Commission (NMDC) Ken Murchison, Northern Maine Development Commission (NMDC)

The discussion points consisted of introductions, establishment of a DEM for area to be covered, derived uses for each agency, strategy for securing funding and management of the project. However, our talking points were soon out raced as Mark Turner from the National Weather Service reported that our Canadian counterparts had already implemented a project that may be coincident to areas of interest of our application.

A follow-up meeting was held, again via conference call, to discuss the potential of partnering with Canada and piggy backing the Aroostook project with the ongoing Canadian project and the potential cost savings that could be realized, the scope of the Fish River Project, the possibility of a larger project, and possible sources of funding.

We added to our stakeholders list Bill Kidman of Leading Edge Geomatics, and Lori Moffard for Emergency Measures New Brunswick.

This conversation is ongoing and we have scheduled a conference call for 3:00 pm Friday November 7 with NMDC again hosting and serving as a conduit in joining these agencies and entities into a working partnership.

Written by Ken Murchison, NMDC, for *Maine State Planning Office Maine Floodplain Management and Mapping News*, November 2008 (vol. I, Issue 7).