

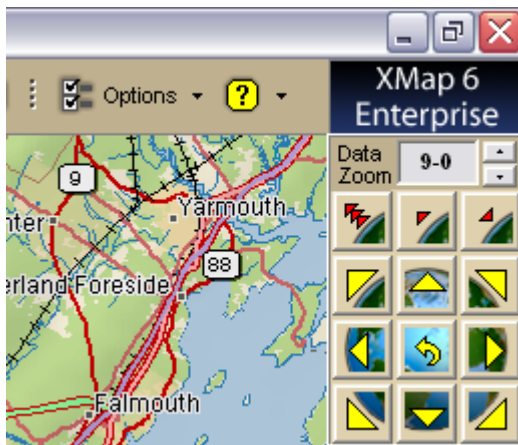


## DeLorme Professional Newsletter - August 2008

### Introducing XMap 6 - A New Generation of GIS

XMap 6 software is a three-tiered offering designed to automate GIS data distribution and synchronization while providing robust GIS analysis capabilities. The three product levels are XMap 6 GIS Enterprise, XMap 6 GIS Editor, and XMap 6 Professional.

- While each is targeted to a specific user level, all three versions include the following:
- SQL Server 2005 locally installed for full database management in the office or on the field
- MrSID and GeoTIFF support, providing access to libraries of aerial imagery
- A searchable database of over 150 million residential and business phone numbers for the U.S. and Canada
- The latest advancements in-vehicle GPS navigation
- Enhanced support for the handheld Earthmate GPS PN-20 & PN-40



XMap 6 provides advanced GIS capability to businesses of every size from one-person offices to large scale operations and has been designed to optimize deployment of data to those involved in field operations. Using XMap 6, GIS managers can efficiently provide a mobile field force with controlled access to centrally stored GIS data, in remote, connected, or disconnected environments. In addition, XMap provides mobile technicians with powerful tools to visualize critical datasets overlaid on DeLorme topographic maps, aerial imagery, or a virtually any other base map. XMap 6 can be leveraged to facilitate the distribution of GIS data stored in ESRI, AutoCAD, GE Smallworld and other GIS systems.

#### GIS Data Management for IT Administrators

**XMap 6 GIS Enterprise** is a full-featured GIS software program with advanced database management tools offering support for Microsoft Windows Vista and XP (for easy set-up of user permissions, user roles, and Windows Groups). Employing the innovative synchronization process, the Enterprise version of XMap is used to manage data distribution and access to required data layers for field technicians and to collect and process field-collected observations and red-line updates. XMap 6 GIS Enterprise also includes:

- Customizable network deployment options, including MSI support
- SQL Server 2008 64 bit support
- Arc SDE 9.2 import for more efficient access to Corporate GIS databases
- API access to optimized routing, GPS navigation, and map controls

#### Extensive GIS Analysis Tools

**XMap 6 GIS Editor** provides spatial analysts with fully functional GIS toolkit for a fraction of the cost of traditional GIS software. Version 6 incorporates a series of enhancements designed to improve the GIS user experience.

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## Introducing XMap 6

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These new features include:

- Stationing support for linear analysis with user-defined distance measures
- The ability to append or replace GIS layers during import
- Multi-point image registration for raster data creation
- Expanded large layer support
- Improved attribute editing tools
- Added attribute management options
- Improved handling of self-intersecting polygons for easy data clean-up
- Access to DeLorme's library of high resolution imagery, USGS 1:24,000 quads, NOAA nautical charts, and other raster datasets using the program's Netlink tool
- Enhanced shortcut keys for efficient keyboard input

### Improved Data Delivery to Mobile Technicians

**XMap 6 Professional** provides advanced mapping software for the mobile professional. As a standalone application, XMap can be used to build compelling maps from geo-coded addresses or lat/long databases. In conjunction with an Enterprise installation of XMap, field workers can import or subscribe to read-only versions of GIS data layers in Openspace format and can create red-line layers for communicating field observations to the corporate GIS administrator.

- Includes USA/Canada Phone Data
- Expanded 3-D profile options
- The latest DeLorme GPS navigation enhancements
- Free data options – PLSS Township, Range, and Section, Zip Code Polygons

### Improved Productivity, Decision-Making, Efficiency and Analysis

XMap 6 software promotes business efficiency in a number of key areas, including:

- Asset Management – field technicians can collect or update field asset information and overlay this data on an accurate topographic base map or aerial image.
- Improved GIS return on investment and decision making – GIS and aerial imagery can be easily shared with constituents to streamline the decision-making process
- Savings through efficient GPS navigation – work flow productivity and fuel economy can be improved through the application of GPS navigation and routing tools
- GIS analysis – informative representations of environmental or infrastructure plans can be developed against a backdrop of topographic maps, aerial imagery, and elevation models.

XMap remains the most affordable and easiest-to-use GIS software available, and is interoperable with ESRI and other GIS applications. Customized training programs are available on request. To learn more, request a risk-free trial, or upgrade immediately, call DeLorme Professional Sales at 800-293-2389 or visit [www.xmap.com](http://www.xmap.com).



## XMap at Work

### Cape Elizabeth, Maine Land Trust adopts XMap for GIS Needs

*Christopher Franklin, Executive Director Cape Elizabeth Land Trust*

When our local land trust began looking at potential GIS and GPS products to assist our conservation efforts, we considered both the ESRI family of products (ArcView, ArcEditor...) and several other products. Partially due to our southern Maine location, we also explored the DeLorme products, as their global headquarters are only 20 minutes up the road.



From the outset, our experience with DeLorme was very encouraging. Their XMap software contained all of the functionality we desired and appeared to be more intuitive than the products I had used during an ESRI training program. After receiving a comprehensive "tour" of the program's functionality at the DeLorme headquarters we signed on.

Over the past nine months, this program has literally revolutionized the way we communicate with property owners and the way we approach conservation planning, mapping and property monitoring.

While the learning curve for any powerful program such as XMap exists, we have found both the user guides and technical support to be very accessible. During a recent follow-up meeting with one of the program's developers, we were both pleasantly surprised to see how much of the functionality of the program we had been able to access.

Like many other land trusts, we knew there was a great deal of geographical data regarding our service area that we had seen on other maps and in reports. The ability for us to access this information has been remarkably simple. On a single CD provided to us by our local town hall, we were able to instantly access the town's zoning districts, wetland boundaries, tax parcel data (which when linked to the assessors database provides owner names for each parcel), town roads, trails, and even building footprints.

This data, when combined with state and federal layers for rare and threatened species, soil types, and much more, enables us to create a wide variety of maps depicting the entire town down to individual parcels. Coupled with the native data included with XMap (topo data, points of interest, contour shading, and roads) we are able to portray the same areas in multiple formats and styles.

While the graphic ability of these programs are somewhat limited in terms of font styles and other design elements, we have rarely found ourselves wanting a design feature that we could not add or import from another program.

Since becoming operational, there has not been a week that has passed that we have not created or modified a map for new purposes. The ability of maps to convey large amounts of complex information quickly and clearly cannot be underestimated. Listed below are some of the ways we are utilizing our new GIS mapping software:

#### **Land Stewardship**

- **Property Maps:** Utilizing XMap, our land trust now has detailed maps for each of our 22 properties. These maps include local tax lot lines, wetland designation, accurate trail overlays, and aerial photos. These maps also have a series of waypoints demarking property corners and other points of interest.

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## Cape Elizabeth, Maine Land Trust adopts XMap for GIS Needs

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- **Property Monitoring:** For years, our property monitoring visits included many sites lacking proper monumentation, surveys, or reliable landmarks. For the most part, we were able to approximate boundaries when necessary and ultimately pay for proper surveys for certain properties. With the XMap product and any number of handheld GPS devices, we are now able
- to assign geographical positions, or waypoints, to our maps created in XMap and export these to our hand held unit. Once in the field, the handheld GPS will now navigate the user to within 30 feet of each property boundary or property corner. This functionality has enabled us to become much more accurate in our property monitoring.
- **Documenting Property Resources:** The ability to add waypoints to our maps while in the field has also been an extremely helpful tool. Using our handheld GPS unit, we can now capture the geographic
- Location of our vernal pools, nesting sites, photo documentation points, rare species sites, and various other natural resource points of interest. Once back in the office, we can transfer these waypoints to our maps.
- **Trails Data:** Using our GPS, we can now accurately capture accurate trail data. We also have the ability to combine the data of all local trails as a comprehensive trails layer that we can overlay on the entire town.



### Land Acquisition

While we knew that mapping would strengthen our ability to monitor, and document our properties, we had no idea how useful it would be when working with a landowner considering conservation. Much of a successful negotiation with a landowner centers on our ability to educate the landowner about the benefits of conservation and to make them feel comfortable with the idea of permanent conservation restrictions.

- **Landowner Outreach and Education:** When introduced to a new potential project, the very first thing we do now is to create a map. These maps clearly define the property boundary lines (subject to local tax lot map accuracy — typically not very good), convey a sense of vegetation type and/or cover, clearly delineate any existing trails, waterways, and habitat areas, and, importantly, a clear sense of how this property relates to those surrounding it. These maps are essential tools when working with a landowner; for many it is the first time they have ever seen their property depicted in such detail. This process also instills a sense of legitimacy to the land trust as a knowledgeable entity that is clearly considering how the parcel meets land acquisition criteria and conservation goals.
- **Strategic Conservation Planning:** Our mapping was initiated by our organization's commitment to strategic conservation planning. Through the use of these maps, we are attempting to document the remaining open undeveloped areas within our service area to further prioritize the proactive landowner outreach we do each year. The maps we have created have been absolutely essential to this process. Again, the ability to see the big picture and to overlay various geographical information data has given us a perspective that previously had been unobtainable.

In summary, the functionality provided through our new mapping software has forever changed the way we approach land planning, property monitoring, and even public outreach. The ability of this software to display such a wide variety of geospatial data and the user's ability to layer and symbolize this data

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## Cape Elizabeth, Maine Land Trust adopts XMap for GIS Needs

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in infinite variations is truly remarkable. As we look forward, we are already contemplating how to incorporate interactive maps on our website, as well as developing a workstation to be available for member to map their own properties, bike routes, and/or hiking routes.

In our geographic region, southern Maine, there are several GIS service centers offering low or even no cost mapping services. While these centers may be called upon for some of our more challenging applications, we have found that the ease with which we now create our own maps to be invaluable and the timeliness with which we can produce these maps indispensable.

### About the Cape Elizabeth Land Trust

Since its inception in 1985, the Cape Elizabeth Land Trust (CELT) has permanently protected over 560 acres of land for public benefit. As a community-based organization, CELT strives to maintain neighborhood trail access to protected lands and to provide new and lasting protection of valued lands in Cape Elizabeth. For more information visit [www.capelandtrust.org](http://www.capelandtrust.org)

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## Special Offer

### Buy an Earthmate Blue Logger GPS for under \$100 - 33% off the regular price

The Earthmate Blue Logger is arguably the most versatile GPS receiver that DeLorme has ever produced. This remarkable device can wirelessly transmit a GPS signal to virtually any Bluetooth enabled computer or PDA, turning your laptop, Palm, or Windows Mobile device into a portable navigation tool.

The pocket-sized Blue Logger is also a powerful standalone data collector. Simply turn it on and, as soon as it picks up a GPS fix, it will begin to record its location, speed, and more, at a distance or time interval that is established using the included Blue Logger Manager software. The collected data is downloaded wirelessly in one of a number of formats and can be easily imported, displayed, and managed in XMap.

The Blue Logger GPS has been used in a wide variety of applications including:

- Monitoring fleet movements
- Creating trail and road networks
- Managing highway maintenance crews
- Mapping forest stands
- Recording vehicle location and speed



Actual size  
1.75" x 3.25" x 0.75"

For more information on the Earthmate Blue Logger GPS or to order yours today, visit:

[www.delorme.com/bluelogger](http://www.delorme.com/bluelogger)



## XMap Q&A

I noticed that you have Public Land Survey Data for most of the country; do you plan to add the Texas Public Land Survey data to this list?

The Texas Public Land Survey is distinct from the Public Land Survey System (PLSS) that covers most of the rest of the U.S. and was originally designed as a hybrid of the PLSS and the Spanish land grants system. While PLSS data can often be downloaded at no cost from various federal and state agencies, the Texas data is not as readily available.



DeLorme recently entered into an agreement with the Railroad Commission of Texas, a state agency that regulates the energy and utility sectors and that provides a variety of datasets for these industries. Through this agreement, DeLorme will make available several GIS layers preformatted in XMap OpenSpace format. These include oil and gas pipelines, well locations, and Public Survey polygons.

The Public Survey data is available for use in any edition of XMap 5.x or 6 and includes clearly defined boundaries and labels. Users of XMap Professional cannot change the color of the polygons, the style of the label, or any of the other characteristics of the layer; however, users of either the GIS Editor or Enterprise versions of XMap can modify the layer in

numerous ways. For instance, the polygon color can be changed, the labels can be removed or edited, additional queries can be built, and selected areas within the layer can be highlighted and used to create a new layer. For details on how to perform any of these functions, refer to the Help system in XMap.

For more information visit [www.xmap.com/texasdata](http://www.xmap.com/texasdata)

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## Where on Eartha?

After a short summer hiatus, the DeLorme Professional Newsletter is back, along with the much-requested Where on Eartha contest. In May [link], we asked you to identify the capital city and the corresponding country indicated by the red push pin and, as always there was an overwhelming response.

The first randomly selected entrant who correctly named the city of Djibouti in the country of the same name was Debbie Hannah of Hannah & Hannah Petroleum Geologists from Cookville, TN. Debbie will shortly be receiving a copy of the newly released XMap 6 Professional along with an Earthmate USB GPS receiver.

This month we travel to a national capital with a renowned seafaring tradition, whose historic influence on cultural, political, and economic geography is evident around the globe. If you think you know the name of the city and the country within which it lies, send your response in an e-mail to [contest@delorme.com](mailto:contest@delorme.com) before August 31, 2008, and you could be the next XMap winner.



## Need Imagery for use in XMap?

Visit any GIS data archive and you will soon learn how important aerial imagery has become as a resource for GIS applications. XMap 6 offers access to imagery in the most commonly used formats, MrSID and GeoTIFF, with additional formats likely to be added in future releases of XMap.

A good starting point for locating imagery is the Geospatial Data Gateway (<http://datagateway.nrcs.usda.gov/>) hosted by the USDA. Click the Get Data button and walk through the wizard to select an area of interest and the specific datasets required. Imagery is downloaded in MrSID format, which can be added to your XMap project using the Map Data tab.








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## Did You Know...?

### Did you know that you can talk to XMap and it can talk back to you?

While it may not pass muster as stimulating conversation, and it's unlikely to provide company during the monotony of a long road trip, the voice command capability of XMap allows you to control certain components of the software using verbal instructions.



|                |   |
|----------------|---|
| on next turn.  |  Center on finish. |
| the next stop? |  Directions.       |
| ext stop.      |  Where am I?       |
| on next stop.  |  Coordinates.      |
| at.            |  Shush.            |
| there yet?     |  Voice nav off.    |
| nish.          |  Show route.       |

Most of the voice commands recognized by XMap relate to in-vehicle routing and GPS tracking and offer the opportunity to use the navigation capabilities of the software without touching your laptop's keyboard or track pad or even looking at the screen. Quite literally, you can keep your hands on the wheel and your eyes on the road while being efficiently directed to your destination.

In order to make use of the voice command function, your laptop computer should be equipped with speakers and a microphone and they need to be enabled using the appropriate control panel. In the Options area of XMap, accessed from the toolbar at the top of the screen, the Voice Settings tab offers several setup choices. For instance, you can select from a list of

voices that XMap will use to communicate routing and location information. Both male and female voices are available. Also, you can choose to begin each command with a designed word or phrase. Selecting this option is recommended as it reduces the likelihood of the voice recognition engine hearing a command from another sound source such your car radio.

Before venturing out to try the voice recognition feature within XMap, take some time to walk through the DeLorme voice training system in the Options window. This allows the voice recognition engine to learn the nuances of your speech and will significantly improve voice recognition performance.



DELORME

XMap 6 GIS

## We Want to Meet You

Visit us at these upcoming events:

**Railway Engineering-Maintenance Suppliers Association – World Rail Expo** ([www.remsa.org](http://www.remsa.org))  
Salt Lake City, UT  
September 21- 23, 2008

**GITA Oil & Gas Conference** ([http://gita.org/events/oil\\_gas/08/index.asp](http://gita.org/events/oil_gas/08/index.asp))  
Houston, TX  
September 21-24, 2008