



January 31, 2002

data
SOLUTIONS
journal



Search for International
Maps & Datasets



A Publication of LAND INFO International, LLC - Visit Us Online at www.LANDINFO.com

Client Solutions

EXPANDING NATIONAL PARK IN TANZANIA



LAND INFO supports project to expand protected areas in Udzungwa Mountains

[Conservation International's](#) mission is to "conserve the Earth's natural living heritage, our global biodiversity, and to demonstrate that human societies are able to live harmoniously with nature." The group's partners include Ford Motor Company, BP, Nature Conservancy, and the Smithsonian Institution. Since its establishment in 1987, the group of world-class scientists, economists, and educators, has initiated broad reaching environmental projects in 30 countries across four continents. In 1998, with a grant from Intel Corporation, Conservation International launched the [Center for Applied Biodiversity Science \(CABS\)](#) to identify and respond to emerging biological diversity threats.

CABS utilizes a variety of geospatial tools to visually monitor and analyze ecological changes and human impacts in global biodiversity hotspots and wilderness areas. A

The goal of the project is to provide recommendations to the World Wildlife Fund (WWF) and Tanzania National Parks (TANAPA) on the most important habitat locations and forest blocks to include in the extended park boundaries. This required CABS to produce an accurate vegetation and land cover map. This data would then support biodiversity surveys and monitoring of critical habitat areas.

LAND INFO International supported the project by producing [vector contour layers](#) for the region. The contour layer was created by scanning 1:50,000 scale [Tanzania topographic maps](#) at 400 dpi. LAND INFO then extracted the contour lines into a separate vector file. The data was manually "cleaned," and then assembled using a semi-automated vectorization process.

"We explored developing the vector contours in-house," commented **Doug Muchoney Ph.D.**, an Ecologist/Remote Sensing Scientist with CABS. "But we found LAND INFO could produce the terrain data more accurately, efficiently, and quicker, all at about the same cost. **Josie Sanchez** (*LAND INFO Senior Account Manager*) was a tremendous help in defining and costing out the work."

Corporate News

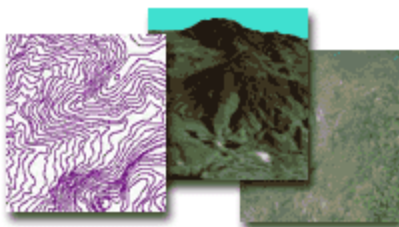
LAND INFO EXTENDS REACH INTO EUROPE

LAND INFO International has launched a distribution alliance with eMapSite.com Ltd. of the United Kingdom. The new relationship will expand LAND INFO's aggressive campaign to acquire and serve clients throughout Europe, Asia, Africa, and the Middle East. The agreement enables eMapSite to distribute LAND INFO geospatial datasets through its online storefront. The two companies will also work together to promote LAND INFO's data production services to eMapSite's clients.

"This is a very important step to strengthening our focus on the growing overseas market," commented **James E. Schiefer**, Executive VP of Sales & Marketing for LAND INFO. "LAND INFO continues to grow our massive archive of digital geospatial datasets, as well as our data extraction services. We are committed to expanding our online and offline access to users in Europe, Asia, Africa, and across the globe."

eMapSite provides users with an online interface to browse, access, view, print, and download satellite imagery, topographic maps, street data, and other geospatial datasets. Its website at www.eMapSite.com contains over 10 terabytes of data by leading producers, including Ordnance Survey, GetMapping.com, Bartholomew Mapping Solutions, Earth Images, Geotechnologies, RADARSAT,

current project involves the expansion of the Udzungwa Mountains National Park in Tanzania. The park represents the only section in East Africa where the natural forest cover is intact from lowlands at 1,000 foot elevations to higher mountainous vistas at 9,000 feet above sea level. This vast elevation range creates one of the most diverse vegetation coverages in the world. This vegetation area has become home for a richly diverse amount of primate habitats. The forests within and surrounding the current park boundaries contain several highly threatened endemic species, including the Udzungwa Red Colobus monkey, Sanje Mangabey, Abbott's duiker, Udzungwa Partridge, and at least eight other bird species.



Click on image for larger view

The contour data was integrated with aerial photography, digital terrain modeling, vegetation data, and habitat data. CABS performed custom fly-over to acquire digital video and photographic imagery of the region.

The project analysis is ongoing. The Tanzania region is one of 25 Global Biodiversity Hotspots that Conservation International is supporting. To learn more, or to donate to the efforts, visit the www.Conservation.org website.

Space Imaging Europe, Geoinformation Group / Cities Revealed, Planetary Visions, and Lovell Johns. Much of the datasets are presented in a seamless mosaic, enabling users to easily identify their specific area of interest. The website also contains special datasets commissioned by eMapSite.

"We are delighted to offer our customers a much larger selection of digital geographic data," commented **Justin Saunders**, eMapSite's Technical Director and co-founder.

[\(more info...\)](#)

HOW ARE YOU USING LAND INFO DATA?

Tell us about your project that used LAND INFO data. It could be the next feature in the Data Solutions Journal. [Email Steve Ebner today.](#)

Coverage Spotlight

KEEPING TIME WITH GIS APPLICATIONS IN SWITZERLAND

The Swiss are well known for their political neutrality, banking secrecy, and quality timepieces.

Switzerland's economy has consistently outperformed Europe's major powers on a per capita basis. The country has also made great efforts to ensure its future success with aggressive education, infrastructure development, and economic development programs. Despite its relatively small size (*slightly less than twice the size of New Jersey*), Switzerland is considered highly progressive on all levels. An excellent example is the Swiss' application of Geographic Information Systems (GIS) and related technology throughout its scientific and commercial sector.

Switzerland is primarily mountainous, with a central plateau of rolling hills, plains, and large lakes. The Alps and Jura ranges contain some of the world's most pristine glacier packs and highest alpine peaks. For years, Swiss scientists, engineers, and environmental professionals were



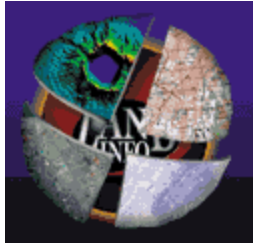
LAND INFO offers full geospatial, coverage of Switzerland.

forced to conduct dangerous studies in the field. This was not only hazardous, but also costly and with limited analysis results.

Today, the Swiss integrate GIS technologies to eliminate human risk, speed project timelines, reduce costs, and improve the overall quality of studies. For example, Swiss scientists are using airborne laser scanning and digital surface modeling to determine the degree of glacier melting throughout the Alps. These measurements are then used to better predict climate changes and other impacts of global warming.

Satellite remote sensing and Global Positioning Satellites (GPS) technologies are also widely used in Switzerland. Forest inventory, protection forest planning, and snow avalanche risk assessment programs employ high-resolution satellite imagery and associated modeling. An extensive GPS reference station network has been developed to serve Switzerland projects in surveying, construction, navigation, and asset management.

LAND INFO International has produced an extensive archive of geospatial data in support of projects in Switzerland. LAND INFO now offers full country coverage of 1:100,000 scale and 1:200,000 scale [topographic maps](#). Extensive [digital elevation model](#) (DEM) coverage is available off-the-shelf for much of the Alps range. LAND INFO is well prepared to deliver [vector feature layers](#), [satellite imagery](#), and other datasets for the region. [Contact a sales representative](#) directly at 1-800-949-5080 (+1 303-369-6800).



LAND INFO International, LLC

- **Aerial & Satellite Imagery**
- **Feature Extraction Services**
- **3D Terrain Maps**
- **Geospatial Services**

LAND INFO International provides digital geospatial information of the world, including satellite imagery, 3D models, and topographic maps. LAND INFO provides clients with the world's largest database of [digital topographic and geospatial services & products](#)...so clients can spend time analyzing the data, not gathering it. The company markets to civil engineers, government planners, project managers, and other international professionals for a variety of GIS, remote-sensing and land-use applications. Please visit the website www.LANDINFO.com to learn more about these products and services.

Contact LAND INFO today at 1-800-949-5080 (+1 303-369-6800) to learn more about our complete geospatial solutions.

[Satellite Imagery](#) - [Aerial Photography](#) - [DEMs](#) - [Topo Maps](#) - [Feature Extraction Layers](#)

Send feedback about this DSJ issue to Steve Ebner at sebner@LANDINFO.com.

Missed a DSJ issue? View past issues at <http://www.LANDINFO.com/dsjarchive.htm>

Copyright © 2002 LAND INFO International, LLC. All rights reserved.

WORLDWIDE TOPO MAPS

LAND INFO produces digital, geo-referenced topographic maps from virtually anywhere on the planet. Contact us today for in-country and Russian Military Series maps for over 125 countries.

- [Egypt Maps](#)

- [Cambodia Maps](#)

- [Bosnia-Herzgovina Maps](#)

- [Greece Maps](#)

[Click Here to Unsubscribe to the Data Solutions Journal](#)

