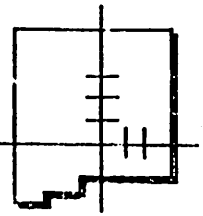


The

# MAP LEGEND

New Mexico Geographic Information Council



Volume 1

Number 3

Fall 1989

## *New Mexico Place Names: Some Observations*

[from Bob Julyan]

**F**or more than two years now I've been working on revising New Mexico Place Names. During that time I've put more than 10,000 miles on my car, visited more local history museums and public libraries than I can easily remember, talked to old-timers on their ranches and newcomers in their real estate offices, and created a 5,500-record database on my computer's hard disk that requires 22 disks to back up.

And while the project is far from completed, it has already taught me several important things about the state's place names:

There are more communities than are on the maps. Especially in Hispanic New Mexico, names settlements exist that have never appeared on maps. The local people all recognize their names, but few others do. For example, near Bernal southwest of Las Vegas are La Piedra and Ojito, inhabited settlements long recognized by the local people

but whose names are absent even on detailed highway maps.

Communities—and their names—can survive after their population centers have disappeared. Drive down NM 206 south of Portales, and eventually you'll come to a sign pointing east toward Garrison. The settlement once had a post office and was an active homesteader settlement. But don't expect to spend much time shopping in Garrison because the village site is now fields; there are no buildings at all. Nonetheless, the farmers and ranchers consider themselves residents of Garrison, and news items from Garrison still appear in the Portales newspaper.

Throughout New Mexico, especially on the east side, are place names that preserve a community identity, even though the original settlement has vanished; Hollene, Norton, Ima, and Hassell are a few examples.

*continued on page 2*

## *Membership Dues*

The NMGIC Steering Committee has elected to collect membership dues to offset the expenses incurred by the *The Map Legend*, announcements, and meetings. Beginning January 1, 1990 the NMGIC dues will be \$15.00 per year, per person. Membership entitles one to attend the two semi-annual general meetings and receive *The Map Legend*, and related announcements. Non-members may attend the semi-annual meetings at \$10 per person per meeting, but will receive no mailings from NMGIC. A sustaining membership is being considered by the committee. Details will be announced in a future newsletter.

*Don't be cut off from  
the New Mexico  
Geographic  
Information  
Council--Become a  
member  
TODAY!!!*

## New Mexico Place Names

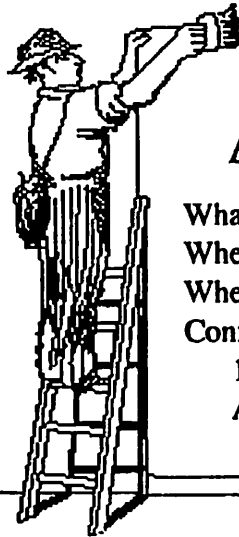
*continued from page 1*

Sources of place name information are where you find them. A postman named Cunico I met on a street in Raton told me that relatives still live in a town that bears their name. A news dealer I met while buying a newspaper in Alamogordo recalled working as a newscaster for a local radio station and getting voting results from Lulu. Realtors specializing in land know which ranches and rural settlements are still active. Genealogists have dates of settlements. And postmark collectors often make a hobby of visiting every site that ever had a post office, as well as knowing the post office dates and the names of the postmasters and postmistresses.

No degrees are required to be an expert in local geography and history; just intelligence, interest, and observation.

New names are still being created. Lee Acres near Farmington. Butterfield Park and Hacienda Acres near Las Cruces. Paradise Hills and Meadow Lake near Albuquerque. Broadview Acres near Grants. Arkansas Junction near Hobbs. New state parks and federal wilderness areas, such as Apache Kid and Aldo

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## Meeting Announcement

What: Fall meeting of NMGIC  
 When: Friday, October 20, 1989  
 Where: UNM Continuing Education  
 Conference Center  
 1634 University Blvd. NE  
 Albuquerque, NM

## NMGIC Fall Meeting

The Fall meeting of NMGIC will feature speakers on a county based GIS and on mapping underwater archeological sites.

Billie Swenson of the Jefferson County Mapping Department in Golden, Colorado will present "GIS Under Construction for Jefferson County", sharing her experiences in establishing a GIS for county applications. They developed their own software and are busy building base layers and a spatial database to surveying accuracies.

Larry Murphy and Dan Lenihan of the Submerged Cultural Resources Unit, National Park Service in Santa Fe will give a presentation on the techniques of mapping underwater archeological sites. Their projects have involved "mapping" in such

areas as the Caribbean.

There is a possibility that this meeting will be available as a video presentation through Technet. The meeting room has equipment for video-taping our meetings.

### Agenda

- 8:30 AM Doors open, coffee
- 9:00 AM Welcome
- 9:15 AM Committee Reports
- 9:45 AM Billie Swenson,  
Jefferson County  
Golden, CO
- 10:30 AM Break
- 11:00 AM Larry Murphy and  
Dan Lenihan, Submerged  
Cultural Resources Unit,  
National Park Service,  
Santa Fe, NM
- NOON Lunch Break
- 1:30 PM Committee Meetings

As in the past, space will be available to display your most recent map products.

## *Soviets Stop Falsifying Maps*

[source: *The Arizona Daily Star*, Sept. 4, 1988]

As many Americans and other travelers in the Soviet Union can attest, it has not been easy in the past to find one's way about using Soviet-produced maps. Rivers and streets are misplaced, boundaries are changed, features can be up to 40 miles off or omitted entirely. American diplomats, for example, know that the most reliable street map of Moscow is produced by the U. S. Central Intelligence Agency.



Viktor R. Yashchenko, the USSR's chief cartographer, acknowledges that maps have been falsified for nearly 50 years, but says authorities are now releasing accurate maps, ones that had been classified as secret since the time of Stalin. Cartographers from around the world hail the move. Even when satellite imagery and photography allowed foreign countries to create their own extremely accurate maps of the Soviet Union, making such secrecy somewhat silly, the Soviets continued to publish the false ones as a "requirement of work" from the producing agency, the Security Police. All that is changing, but slowly.

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***Rivers and streets are misplaced,  
boundaries are changed, features can  
be up to 40 miles off or omitted entirely.***

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The first maps to be declassified are at a scale of 1:1,000,000, about 15 miles to the inch. Mapping of the country has recently been completed at 1:25,000 (requiring 240,000 sheets!), but Yashchenko would not say when, if ever, these would be available. Upcoming accessible projects will be maps of political boundaries and geographical regions, once again at a fairly small scale. So for just the time being, tourists are advised to take along their trusty British or American maps when they visit the USSR.

## *Update on NMGIC Incorporation*

[from Mike Inglis]

NMGIC is now a non-profit corporation within the state of New Mexico. The Articles of Incorporation have been filed with the New Mexico State Corporation Commission in Santa Fe. Copies of the Articles and Bylaws will be made available at the semi-annual meetings. As stated in the Articles of Incorporation the purposes of NMGIC are: To encourage and contribute to the education of the general public about the nature of, and benefits to be realized from, geographic information and related technologies, including but not limited to geographic information systems, modern positioning technologies, state mapping priorities, and geographic names. To foster a spirit of cooperation among local, State, and Federal agencies, and the private sector in addressing geographic data and information needs and services within the State. To provide recommendations and propose strategies to local, State, and Federal agencies and offices regarding New Mexico geographic needs, priorities, and standards. To hold meetings and seminars for the exchange of information and for the exhibit of products and services.

*continued on page 4*

## **NMGIC Incorporation**

*continued from page 3*

To publish documents and produce educational materials pertaining to geographic information and related technologies.

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## **New Mexico Place Names**

*continued from page 2*

Leopold. Some features are named now that never were before. with the popularity of rafting, for instance, have come names for rapids: Boat Reamer, Screaming Left Hand Turn, Powerline, Rock Garden, etc.

New caves are being discovered and named.

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***Many places have disappeared  
from human consciousness,  
their names only  
footnotes...***

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Other names have died. Many places have disappeared from human consciousness, their names only footnotes. Canta Recio. Tuerto. Hyder. Logville. Russia. Tokay. Lewis. Trenton. Some, such as Bonito and Rosa, have been drowned beneath man-made reservoirs.

Nonetheless, even terminal names die slowly. Old-timers

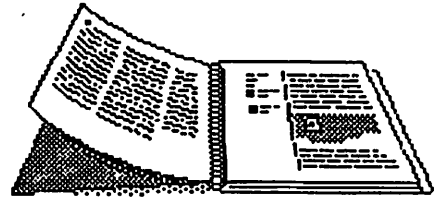
around Truth or Consequences stubbornly cling to the town's original name of Hot Springs, even though it hasn't been called that for 30 years. Bibo near Laguna has been called that for more than half a century, yet many Hispanic residents resent the name as a usurper, preferring the earlier Cebolletita.

This is a reminder that place names aren't merely abstract labels generated at random but rather are part of the personal history of the people who created the names and who have lived with them.

As I mentioned, researching New Mexico's place names is an ongoing effort. And again, I am appealing to persons with information or observations about the state's place names to contact me. Any help is appreciated.

Bob Julyan  
Rural Route 5  
31 Avenida Almendro  
Albuquerque, NM  
87123  
tel. 298-8420

## **GIS/LIS Videos and Texts**



The American Congress on Surveying and Mapping (ACSM) is offering several new products dealing with geographic/land information systems. Prices listed are for members or students/non-members.

- o "GIS Today", a video filmed at the GIS/LIS '88 Conference in San Antonio, November, 1988. \$50.90/\$90.90
- o Fundamentals of GIS: a compendium, text. \$30/\$50
- o GIS/LIS Compendium for Practicing Surveyors \$25.90/\$30.90
- o Multipurpose Cadastre: Terms and Definitions \$5/\$5

Order from ACSM, 210 Little Falls St., Falls Church, VA 22046. To order with a credit card call (703) 241-2446.

## Global Evaluation Data Available

[from  
*Wisconsin Mapping Bulletin*]



Global land evaluation data at a resolution of 10 minutes

(1/6 degree) are available from the National Geophysical Data Center (NGDC). These data, which include 2.3 million observations, were originally compiled by the U. S. Navy from navigational and aeronautical charts. Error checks and refinements have been made by the National Center for Atmospheric Research and the NGDC.

The data set includes modal, minimum, and maximum elevations; orientation of ridges; terrain characteristics; and percentages of water surfaces and urban development for each 10-minute area. (Ten minutes of latitude is approximately 12 miles.)

The data are available on magnetic tape in a variety of geographical divisions. All tapes are 9-track, 1600 6pi, ASCII, except that the entire world data set is also available at 6250 6pi. In addition custom searches on the data set are available, with output on IBM-PC compatible floppy diskettes (5 1/4" double-sided double density).

Prices range from \$140 to \$420 per tape. Disk prices vary

depending on search area. For details, contact:

National  
Geophysical Data Center,  
NOAA, Code E/GC4,  
325 Broadway,  
Boulder, CO 80303  
or phone 303/497-6900.

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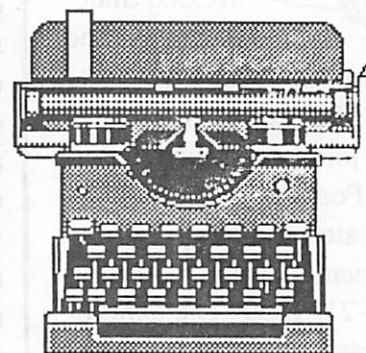
## LANDSAT Program Supported

[from *Landsat World Update*,  
vol.2, no.6; *Science*, vol.224]

On June 1, President Bush announced that he had approved funding for the continued operations of Landsats 4 and 5, and for the completion and launch of Landsat 6 (expected in June, 1991). This approval endorsed the actions of the National Space Council which recommended such support at its first meeting in May, 1989. The Department of Commerce (NOAA) budget currently includes funding for the projects, but a home for Landsat activities remains undetermined.

Improvements in technology are such that the new sensors will allow for more data collection in one year than is currently available from the entire history of the Landsat program. Questions remain about storage, price, and dissemination of the new data.

# The Map Legend



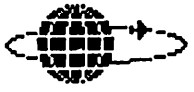
Editor: **Heather Rex**  
Assembly: **Amy Budge**,  
Mailing: **Dave Love**  
Desktop Publishing:  
**Mike Dwyer**

Articles published in *THE MAP LEGEND* may be accepted from any reader. The opinions expressed are those of the contributors and do not necessarily represent the views of the New Mexico Geographic Information Council except where specifically noted. The mention of trade names or products does not constitute an endorsement of the NMGIC. Please direct all correspondence to:

**Heather Rex**  
MAGIC/ Centennial Library  
University of New Mexico  
Albuquerque, NM 87131

## ***Kinematic GPS Experiment Conducted in Santa Fe***

[from Tom Henderson]



The New  
Mexico State  
Highway and

Transportation Department and the National Geodetic Survey jointly conducted a Global Positioning System (GPS) satellite surveying experiment in Santa Fe during July 17-21, 1989. The experiment was funded by a research grant through the National Cooperative Highway Research Program. It was overseen by the NGS with logistics support provided by the NMSHTD.

The purpose of the experiment was to assess the accuracy, efficiency, and cost-effectiveness of kinematic GPS satellite positioning techniques for meeting transportation surveying needs. Kinematics is the GPS observing mode which fixes a base GPS receiver and antenna at a known survey point while a roving receiver and antenna determine accurate positions on unknown points by simply moving to those points and observing there for two to three minutes. The final experiment report will document the attainable accuracy and efficiency of kinematic GPS over separations between

the base and roving receivers of as much as two miles.

The test course consisted of twelve survey monuments distributed around a six-mile closed loop within the City of Santa Fe. All of the monuments were pre-measured by conventional ground surveys and also by static GPS observations. Therefore, a direct comparison of the costs and time required for these methods and kinematic GPS will be possible. The monuments will remain as a supplement to Santa Fe's control system.

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*The purpose of the experiment was to assess the accuracy, efficiency, and cost-effectiveness of kinematic GPS satellite positioning...*

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GPS receiver manufacturers who participated in the experiment included Aero Service, Ashtech Inc., Motorola Corporation, and Trimble Navigation. All manufacturers completed at least two complete circuits around the test course.

A final report on the experiment should be available by the end of this year. Further information may be obtained from Tom Henderson at 827-5185.

## ***New Mexico Acquires a Geodetic Advisor***

[from Tom Henderson]

New Mexico finally has a National Geodetic Survey Geodetic Advisor. The GPS Committee of NMGIC and the State Highway and Transportation Department have been working for the past two years to establish and fill the position.

Mr. William Stone reported on the board August 9. He is located in the City of Albuquerque City Surveyor's office in the Plaza del Sol Building. Bill may be reached at 764-1584.

The Geodetic Advisor Program is sponsored by the NGS as a cooperative effort with state governments. Half of the expense of the program is borne by the NGS while the remainder is supported by the states. To date, twenty-four states have Geodetic Advisors. The purpose of the program is to provide expertise in geodetic positioning matters to the states and to provide a direct liaison to NGS to address particular problems in the state. Each state defines to a great extent the specific responsibilities of the Advisor.

Responsibilities in New Mexico include assistance to

*continued on page 7*

## ***GPS Advisor***

*continued from page 6*

local governments in transitioning to the North American Datum 1983 (NAD83), support in establishing and maintaining the GPS Reference Network, eventual assistance in bringing the first GPS Active Base Station on line, providing a central clearinghouse for the distribution of geodetic control data in the state, and assisting local governments in planning and building the geodetic foundations for geographic information systems. The advisor is a public resource for the state, available to the private citizen as well as all levels of government.

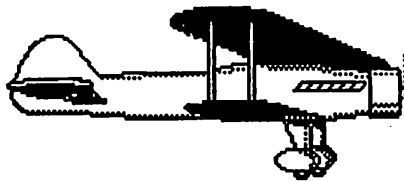
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### ***Responsibilities in New Mexico include assistance to local governments...***

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Bill comes to New Mexico from a remote sensing analysis position with the Navy Department in Monterey, California. Prior to that he worked as a geodesist for the Defense Mapping Agency's Geodetic Squadron in Cheyenne, Wyoming where he conducted projects involving high-order conventional horizontal and vertical surveying, GPS surveying, and gravimetric surveying, and inertial surveying.

Bill and his wife Carolyn will reside in Albuquerque.



## ***National Aerial Photography Program (NAPP)***

[from Amy Budge]

The National Aerial Photography Program (NAPP) is an effort to obtain national aerial coverage using high resolution color infrared film at a scale of 1:20,000. The project is quarter-quad centered, meaning that for each 7' map area there are two flightlines (north-south) and that a frame of photography centers on each quadrant of that map. Stereo coverage is available. Each of the contiguous 48 states is considered for coverage every 5 years. New Mexico is scheduled to be flown in two parts: the northern half in FY 91 and the southern half in FY 92.

State agencies are being encouraged to participate in NAPP through cooperative funding. Matching 50-50 contributions by a state agency will guarantee that the state will be flown according to the cyclic plan. Those agencies contributing funds to the funds are not available for the whole program, states that provide matching funds will be flown. If no state funds are available, only those areas within the state will be flown

to satisfy federal requirements and the state will not be rescheduled until the next 5 year rotation.

If you see a need for the coverage in your area and are willing to express support for the program contact Dave Love, chairman of the State Mapping Advisory Committee, NMGIC or your local state agency or state representatives to express your need and interest in having the photography flown. Organizations and agencies that could benefit from the availability of the NAPP coverage should consider a cooperative effort to help fund the program. It is important to make these contacts soon so that funds for FY 91 and FY 92 can be considered to support NAPP.

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### ***GIS Evaluation Report Available***

USGS Open File Report 88-105 provides a good summary of the factors involved in evaluating a geographic information system. The report was prepared by the Technology Exchange Working Group of the Federal Interagency Coordinating Committee on Digital Cartography. Containing 140 pages, it includes procedures for a User Requirements Analysis, a set of topics for technical evaluation, a reference guide

*continued on page 8*

## **GIS Evaluation** *continued from page 7*

and a 14-page glossary.  
\$21.25 paper copy, \$4.00  
microfiche copy.

USGS

Books and Open-File

Reports Section

Federal Center, Box 25425

Denver, CO 80225

Phone 303/236-7476 (with  
credit card)



### **Steering Committee**

**Michael Inglis**, Chairperson  
Technology Application Center  
Albuquerque 277-3622

**Scott Bradshaw**  
Bureau of Indian Affairs  
Albuquerque 766-3003

**Amy Budge**  
Technology Application Center  
Albuquerque 277-3622

**Bill Chapel**  
NM State Forestry  
Santa Fe 827-583

**Bob Czerniak**  
New Mexico State University  
Las Cruces 646-2708

**Mike Dwyer**  
Bureau of Land Management  
Santa Fe 988-6190

**Tom Henderson**  
New Mexico State Highway  
Dept.  
Santa Fe 827-5185

**Dave Love**  
New Mexico Bureau of Mines  
Socorro 835-5146

**Blain Maw**  
U.S. Forest Service  
Albuquerque 842-3858

**Dan Sutcliffe**  
New Mexico Game and Fish  
Santa Fe 827-7885

### **Committees and Chairpersons**

**Public Awareness Committee**  
**Heather Rex**, Chairperson  
University of New Mexico  
Albuquerque 277-5513

**State Mapping Advisory  
Committee**  
**Dave Love**, Chairperson (see  
above)

**Geographic Information Sys-  
tems Committee**  
**Michael Zeiler**, Chairperson  
Envision Utility Software Corp.  
Santa Fe 471-2170

**Local Government Land Rec-  
ords**  
(Subcommittee of GIS Commit-  
tee)

**Gretchen L. Coles**, Chairper-  
son  
City of Albuquerque  
Albuquerque 768-3920

**Global Positioning Systems  
Committee**  
**Tom Henderson**, Chairperson  
(see above)

**Geographic Names Committee**  
**Bob Julyan**, Chairperson  
Writer  
Albuquerque 298-8420



## **Calendar**

**Oct. 5-7**

### **ANNUAL FALL MEETING**

Southwest Association of American  
Geographers

La Posada de Albuquerque

Contact Dr. Brad Cullen,

Geography Dept.

UNM

**Oct. 20**

### **NMGIC FALL MEETING**

UNM Continuing Education

Center University Blvd. and

Indian School Road

Albuquerque

Contact Amy Budge,

505/277-3622.

**Nov. 12-15**

### **NCGA Mapping and Geographic Information Systems '89.**

Western Bonaventure Hotel,  
Los Angeles, CA.

**Nov. 26-30**

### **GIS/LIS '89.**

ACSM, ASPRS, AAG,  
URISA.

Orlando, FL. Contact ACSM,  
210 Little Falls St., Falls Church,  
VA 22046.

703/241-2446 or

fax: 703/533-9614.

**Dec. 4-8**

### **Short Course for Managers, "GIS Technology and Resource Management"**

Colorado State University,

Fort Collins, CO

Contact

Office of Conference Service,

Rockwell Hall, CSTJ,

Fort Collins, CO 80523.