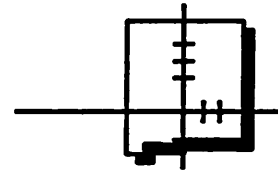


The MAP LEGEND

New Mexico Geographic Information Council, Inc.



Volume 3

Number 1

Fall 1991

State GIS Standards Adopted

by John Peterson

The NMGIC Standards Sub-Committee of the GIS Committee has worked for the last several months in conjunction with the state Geographic Information Systems Advisory Committee (GISAC) Sub-Committee for Standards and Guidelines to produce the first set of GIS standards for the state of New Mexico. We are happy to report that the document was unanimously accepted by the state's Information Systems Council (ISC) on July 25, 1991 when submitted by GISAC Chair, Ted Talmon. We are equally pleased to announce that this same set of Standards and Guidelines was recommended and accepted for endorsement by the NMGIC Executive Board on August 23, 1991.

This landmark document has been designed to serve as broad a set of GIS users as possible. It will serve as a concise and helpful reference for those beginning GIS activities and as a mandatory yet not overly cumbersome set of directions for state agencies. We acknowledge a debt of gratitude to the Oregon State Map Advisory Council whose counterpart document was used as a model. As is stated in the Standards and Guidelines document, "the document will be reviewed and updated as needed" and feedback is encouraged.

The two GIS sub-committees represent a diverse cross sec-

tion of the GIS community. The committees include representatives from federal, state, county, and local governments as well as the University of New Mexico and the private sector. The participants included:

NMGIC Standards Sub-Committee Members

John Peterson, Chair
UNM and RGIS Program

Denise Bleakly
Roy F. Weston, Inc.

Richard Friedman
McKinley County

Mike Kernodle
USGS Water Resources Division

Active GISAC Standards Sub-Committee Members

Tom Henderson, Chair
NMSHTD

Rock Chasko
Office of Cultural Affairs

Ron McBayer
State of New Mexico

Richard Schaefer
Office of Cultural Affairs

Tim Seaman
Office of Cultural Affairs

The Standards and Guidelines document referred to presently pertains to map scales of 1:24,000 and smaller e.g., 1:100,000, 1:500,000, etc.

The Standards Sub-Committee will subsequently be addressing large scale standards and guidelines for the state in the near future. NMGIC members who would like to contribute their experience, time, and energy to the important issue are encouraged to participate.

Copies of "Standards and Guidelines for GIS in New Mexico" will be available at the fall NMGIC meeting. If you would like them sooner, contact John Peterson at 272-7295 or Tom Henderson at 827-5185 for information.

McKinley County Rural Addressing A Very Busy Place

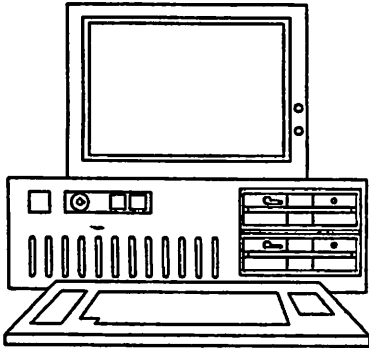
by Richard Friedman

McKinley County Rural Addressing has completed field work in their first target area, addressing over 5,000 homes. The project is now working on their second target area which will include the Zuni Reservation and Ramah, New Mexico. McKinley County and Ramah signed a joint powers agreement earlier this year to allow the County to address the entire reservation. Addressing of the Zuni village was completed in August.

The Department has also been involved in several other projects including the creation of

continued on page 6

The Map Legend



Editor: Heather Rex
Assembly: Amy Budge
Mailing: Dave Love
Desktop Publishing:
Jeanette Albany

The Map Legend is published quarterly by the New Mexico Geographic Information Council and is a benefit of membership in NMGIC. 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. Members are invited to send articles and announcements of interest to the editor by the following deadlines: September 1, December 1, March 1, June 1. Please direct all correspondence to:

Heather Rex
 MAGIC/Centennial Library
 University of New Mexico
 Albuquerque, NM 87131-1486

PRESIDENT'S COLUMN

September 1991

This Fall's General Meeting will again feature a Users Exhibit. First initiated last Fall by the GIS Committee, it turned out to be a very popular feature of our program. As the name implies, it is an opportunity for those members who use GIS or in some other way make use of geographic information show others what they have accomplished. This can be in the form of hard-copy maps or actual demonstrations of their systems on electronic platforms. These are not marketing demonstrations; vendors' marketing materials are specifically excluded from these exhibits. It is a time for users to interact with other users and to proudly display what they have done. The last User Exhibits generated more than a few personal contacts, and I am sure it sparked a few ideas.

Tom Henderson

A SPECIAL THANKS . . .

NMGIC extends its appreciation to the following 1991 corporate members for their support:

Ashtech, Inc.
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Sunnyvale, CA 94086

(408) 737-2400

IBM
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Denver, CO 80237

(303) 773-5623

ESRI
1426 Pearl Street
Suite 210
Boulder, CO 80302

(303) 449-7779

Bohannon-Huston, Inc.
Courtyard I
7500 Jefferson Street NE
Albuquerque, NM 87109

(505) 823-1000

SUBMISSIONS OF ARTICLES
 FOR THE
 WINTER 1992 ISSUE OF
THE MAP LEGEND
 ARE DUE BY
 DECEMBER 2, 1991

NMGIC Sponsors GIS Workshop

by Rich Friedman

On November 13, 1991, NMGIC will be sponsoring the Urban and regional Information Systems Association's (URISA) most popular workshop, GIS Management and Operations. This will provide an excellent opportunity for people throughout the state to attend this highly acclaimed URISA workshop right in Albuquerque.

The workshop will address management strategies, organizational issues, legal issues, system management, and project success factors. A basic understanding of GIS is assumed. The registration fee for the workshop is \$150.00, which includes all workshop materials and a full day of instruction. NMGIC is offering this workshop at a significant savings compared to the \$230.00 that URISA charges for a workshop at its national convention.

Please return your registration form before October 11, 1991. Registration for the workshop will be on a first-come, first-served basis, so please return your registration as soon as possible. If you have any questions about this workshop, contact Rich Friedman from McKinley County Rural Addressing at 863-9517. We look forward to seeing you there.

Upcoming Names Issue

by Bob Julyan

This fall the NMGIC Geographic Names Committee expects to deal with at least two major New Mexico name issues. One involves the proposed renaming of 11,180-foot Spring Mountain in the Sangre de Cristo Range, in northwestern San Miguel County.

Spring Mountain has been known by that name for generations, but recently a member of the Barker family has proposed renaming it Mount Barker, to honor Elliot S. Barker, distinguished New Mexico conservationist and for many years state game warden.

The Barker family ranch was at the base of the mountain. "Squire" Barker settled in northwestern San Miguel County in the late 1800s and was prominent in the history of the area. His sons, S. Omar Barker and Elliot, went on to become well-known writers about the west and especially New Mexico.

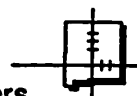
The name Spring Mountain is derived from a little spring near the mountain's summit, a spring that Elliot Barker described in one of his books as being higher on the mountain than any other spring he knew.

Then in the Chuska Mountains north of Gallup, Navajos increasingly are interested in renaming Washington Pass, the major pass through the mountains, because its present name honors Col. John Washington, a military commander whose troops killed Narbona, a Navajo leader and proponent for peace, at the pass in 1849.

Some Navajos want the pass renamed Narbona Pass, others want Copper Pass—a translation of the pass' traditional Navajo name.

NMGIC

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Albuquerque, NM 87102
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Envision Utility Software
Santa Fe, NM 87505
Telephone: 471-2170

Geographic Names Committee

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Rural Route 5
31 Avenida Almendro
Albuquerque, NM 87123
Telephone: 298-8420

Local Government Land Records Committee

Gretchen Coles
2940 Calle del Res
Santa Fe, NM 87505
Telephone: 984-6632

Below is NMGIC President Tom Henderson's Annual Report to the Governor, slightly condensed to save space.

New Mexico Geographic Information Council, Inc.

Annual Report to the Governor of New Mexico

August 1991

Introduction

The New Mexico Geographic Information Council, Inc. (NMGIC) was formed in 1984 to bring together persons in New Mexico interested in the collection, use, and sharing of geographically-related information. In 1987, NMGIC was recognized as a State Advisory Body and coordination point through Executive Order 87-19. It was incorporated as a non-profit organization in 1989. Membership surpassed 200 in 1991, including representatives from all geographic areas of the State and from all levels of government, the private sector, and the academic community.

The Council is governed by an elected Executive Board which oversees six working committees. The current Executive Board is composed of:

President: Thomas Henderson
New Mexico State Highway and Transportation Department

Vice-President: Daniel Sutcliffe
New Mexico Department of Game and Fish

Secretary: Michael Inglis
UNM Technology Application Center

Treasurer: Amelia Budge
UNM Technology Application Center

Member: Richard Friedman
McKinley County

Member: Stan Grochowski
New Mexico State Information Systems Division

Member: David Love
New Mexico Bureau of Mines

Member: Tommie Parham
U.S. Soil Conservation Service

Member: Al Peters
New Mexico State University

The six working committees and their chairs are:

Geographic Information Systems Committee

Chair: Michael Zeiler
Envision Utility Corporation

Geographic Names Committee

Chair: Robert Julyan
Self-employed writer

Global Positioning System Committee

Chair: William Stone
National Geodetic Survey

Local Government Land Records Committee

Co-Chair: Gretchen Coles
City of Santa Fe
Co-Chair: Santiago Romero Jr.
Santiago Romero Jr. and Associates

Public Awareness Committee

Chair: Heather Rex
University of New Mexico

State Mapping Advisory Committee

Chair: David Love
New Mexico Bureau of Mines

Accomplishments

The major accomplishments of NMGIC during the past year are:

- ▶ Improved Semi-Annual General Meetings with nationally known speakers.
- ▶ Continued Coordination Point for the U.S. Geological Survey National Mapping Program.
- ▶ Implementation of the New Mexico GPS Reference Network.
- ▶ Award of the U.S.G.S. Geographic Names Information System (GNIS) Phase II Contract.
- ▶ Western States Geographic Names Conference scheduled for Santa Fe in September 1991.
- ▶ Second Edition of the New Mexico mapping resources catalog.
- ▶ Newsletter Published by NMGIC.
- ▶ Workshops sponsored.
- ▶ Development of State GIS Standards.
- ▶ Sponsorship of Legislative Bill on plat recordation.
- ▶ Memorandum of Understanding with RGIS, ISD.
- ▶ Affiliation with Urban and Regional Information Systems (URISA).

As you can see, NMGIC has been very active in the past year. It is our goal to continually improve our offerings to members and the State of New Mexico. We believe we are successfully meeting our mandate under Executive Order 87-19.

**Julyan and Inglis Awarded
GNIS Contract**

In August Bob Julyan, Chair of the NMGIC Geographic Names Committee, and Mike Inglis, NMGIC Secretary and Associate Director of the UNM Technology Application Center, were awarded the USGS contract to undertake Phase II of the USGS Geographic Names Information System (GNIS) in New Mexico.

GNIS Phase I, already completed, inventoried all names on the USGS 7.5 minute maps and resulted in a file of 26,000 names. Phase II will include many more names from other sources and will add much more information, such as variants of names and names denoting features that no longer appear on maps, such as abandoned settlements. It will also include latitude and longitude coordinates and bibliographic references.

Julyan says that when the three-year project is completed, GNIS Phase II will be of enormous value to map makers, researchers, and GIS users. NMGIC has been a supporter of the project.

**◀◀ REMINDER ▶▶
DUES FOR 1992
MEMBERSHIP TO
NMGIC**

Payment of dues for 1992 membership to NMGIC are being accepted at this time. Membership entitles you to attend both general meetings each year (one in the spring and one in the fall) and includes subscription to *The Map Legend*. If you are not a paid-up member of NMGIC at this time, and you wish to attend the fall meeting on December 6, 1991, you will be charged \$15.00 at the door. This does not include membership for 1992! Membership is on an annual basis...from January 1 through December 31. Dues are \$15.00 per person, per year. Corporate memberships are available at \$100.00 per year. A membership application form is included in this issue of *The Map Legend*.

A Very Busy Place

continued from page 1

a county precinct map, the implementation of Enhanced 911 telephone service for the county and testing data transfer for RGIS.

The Department used the TIGER/Line files and PC ARC/INFO to create a precinct map for the county. Over 3,000 line segments from the TIGER/Line files were used to define the 38 voter precincts in McKinley County. The department can integrate their Rural Address information with the precinct boundaries to make voter precinct assignment much easier for the Bureau of Elections.

Several staff members from Rural Addressing have been given both technical and administrative assistance to help in the implementation of the Enhanced 911 for the county. Addresses are the key to proper Enhanced 911 service. The additional duties related to Enhanced 911 have been a natural extension of the total addressing program.

The Department was selected to assist RGIS to test data transfer procedures. For the initial test, four files were selected for transfer ranging in size from 2MB to 10MB. The files selected were ARC/INFO coverages that were converted to ARC EXPORT format. These initial tests were completely successful. The ARC EXPORT files were converted to PC ARC/INFO coverage with no loss in data integrity.



New Mexico Geographic Information Council, Inc. Executive Board Meeting

A NMGIC Board meeting was held Friday August 23, 1991 at the Technology Application Center. President, Tom Henderson called the meeting to order at 9:00 am. Agenda items included planning for the fall meeting and for the URISA GIS workshop, consideration of the draft of GIS Standards for New Mexico, acceptance of an annual report to the governor, participation in the ASPRS/ACSM national meeting in March 1992, discussion of supporting geographic education in New Mexico, and reports from committee chairs.

Minutes of the previous meeting were accepted with one minor correction. The Treasurer's report revealed a balance of \$3,563.52 and total membership of 203 regular members and 5 corporate members.

The Standards subcommittee worked in cooperation with the GIS Advisory Committee to draft the "Standards and Guidelines For Geographic Information Systems in New Mexico". The draft document was presented to the Information Systems Council and accepted on July 25, 1991. The board agreed to endorse the standards as proposed for users of GIS and at scales of 1:24,000 or smaller. The next step in standards development will address scales larger than 1:24,000. The Board asked Mike Zeiler and the GIS Committee to continue development and involvement in this new committee.

A draft of an annual report to the governor was presented by Tom Henderson. After some modification, it will be submitted to the governor. The report describes NMGIC's accomplishments during the past year.

Planning for the Fall NMGIC Meeting was reviewed. The Fall meeting will be held at UNM's Continuing Education Center on December 6. The meeting format used in previous meetings will be followed. Speakers for this meeting will be Earl Brabb, USGS and Roger Payne, US Board on Geographic Names. The meeting will also feature user exhibits and posters.

The URISA GIS Management and Operations workshop is scheduled for November 13, 1991 at the Continuing Education facility, 1634 University NE, Albuquerque. A fee of \$150 will be charged to offset the cost of the workshop.

The 1992 ASPRS/ACSM Annual Meeting will be in Albuquerque February 29 through March 5. Space is available on Wednesday March 4 from 8:00 am to noon for NMGIC to sponsor a workshop, technical session, or panel session. After some discussion, the Board agreed that NMGIC should participate in the meeting and would most likely sponsor a discussion/demonstration of GIS applications in New Mexico.

Al Peters is pursuing the National Geographic Society for cooperative opportunities with NMGIC to increase geographic education in the state. Al will be following up on this and report at the next Board meeting.

Committee Reports

Dave Love, Chair of the State Mapping Advisory Committee, reported that the A-16 report request has been received and mailed to each of the committee members. A meeting will be held by September 15 to develop a response. Of the 500 plus surveys sent concerning New Mexico's strategic mapping plan, over 100 responses have been received. Processing of the results has begun.

Heather Rex, Chair of the Public Awareness Committee reported on the progress of the "Sourcebook for New Mexico Geographic Information". It will be larger and more complete than the first edition of the directory.

Bob Julyan, Chair of the Geographic Names Committee reported on the preparations being made for the Western States Geographic Names Conference in Santa Fe. The Geographic Names Committee is hosting the conference.

Gretchen Coles and Santiago Romero, co-chairs of the Local Governments and Land Records Committee expressed a willingness on behalf of their committee to support the activities of other committees such as working with large scale mapping standards development. The legislation for a state registry board did not pass during the last legislative period and this will be discussed at the next committee meeting. There is a need for a "recordation law."

Tom Henderson reported for Bill Stone, chair of the Global Positioning Committee. Progress on development of the base station in Albuquerque has been delayed due to NM Highway and Transportation Department's funding problems. These were not totally unexpected and could delay the base progress by two years. The funds were for hardware to activate the GPS control station. There will be an international GPS meeting in Albuquerque during September hosted by the Institute of Navigation. This is the premier conference on GPS in the world.

Mike Zeiler, Chair of the Geographic Information Systems Committee reported that the Standards and Guidelines developed by the GIS subcommittee on standards have been accepted by the committee. The committee will be developing the User Show to be held during the Fall Meeting in December.

FALL MEETING REMINDER

DECEMBER 6, 1991

UNM Continuing Education
1634 University NE
Albuquerque, New Mexico

Featuring speakers on
Geographic Names and Geologic
Hazards. Also User Exhibits!

Calendar

October 22-23. *Earth Observations and Global Change Decision Making: A National Partnership.* Third Annual Conference, National Press Club, Washington, D.C. Contact: Dr. Robert H. Rogers, ERIM, Box 8618, Ann Arbor, MI 48107-8618, 313/994-1200.

October 25-28. **Fifth ERDAS Users; Group Meeting.** Atlanta, GA. Topic: Revision 8 software. Contact: Kim Marsh, Marketing Coordinator, ERDAS, 2801 Buford Highway, Suite 300, Atlanta, GA 30329, 404/248-9000.

October 28-November 1, 1991. **GIS/LIS '91.** Atlanta, GA. Contact: Advance Registration Coordinator, GIS/LIS '91, 5410 Grosvenor Lane, Bethesda, MD 20814-2212, 301/493-0200.

October 30-November 1, 1991. **Southwest ARC/INFO User Group Fourth Annual Conference.** University Park Hotel, Salt Lake City, UT. Contact: Riki Darling, AGRC, 4130 State Office Bldg, Salt Lake City, UT 84114, 801/538-3159.

December 1-4. **Geographic Information Systems in Public Utilities Specialty Conference.** Hyatt Orlando Hotel and Convention Center, Orlando, Florida. Contact: Barb Luck, GIS Conference Chairman, EMA Inc., 1970 Oakcrest Avenue, St. Paul, MN 55113, 612/639-5600.

December 6. **New Mexico Geographic Information Council Fall Meeting.** University of New Mexico Continuing Education Center. Contact: Amy Budge, Technology Application Center, University of New Mexico, 2808 Central SE, Albuquerque, NM 87131, 505/277-3622.

February 29-March 5, 1992. **ASPRS/ACSM Annual Meeting.** Albuquerque Convention Center, Albuquerque, NM. Contact: Registration Coordinator, ASPRS/ACSM, 5410 Grosvenor Lane, Suite 100, Bethesda, MD 20814-2122; (301) 493-0200.

NMGIC Membership Dues

(\$15 per year)

Name _____

Company _____

Address _____

City _____ State _____ Zipcode _____

Phone _____

Send your membership form and check to:

NMGIC, Inc.
% Technology Application Center
University of New Mexico
Albuquerque, NM 87131-6031

Membership entitles you to:

- ▶ Receive *The Map Legend*
- ▶ Attend Semi-Annual Meetings
- ▶ Receive Special Announcements
- ▶ Participate on Committees
- ▶ Seek and Hold Office

Don't be cut-off from the New Mexico Geographic Information Council

MAKE YOUR LUNCH RESERVATIONS

for the

NMGIC, Inc. Fall Meeting

NMGIC is planning a user exhibit in conjunction with the December 6, 1991 fall meeting. Exhibits will be open before the meeting convenes, during the 2 hour lunch period, and after the close of the meeting (about mid-afternoon) until 5 pm. To encourage meeting attendees to visit the exhibits during the lunch period, a "box" lunch consisting of a sandwich, fruit, dessert, and a soft drink will be available in the exhibit area. Cost will be approximately \$5.25 per person. To assist us in ordering enough lunches, please indicate if you plan to attend the meeting and if you are interested in purchasing a lunch. There are no conveniently located eating places near the meeting location.

_____ Yes, I plan to attend the meeting, but do not want the box lunch

_____ Yes, I plan to attend the meeting and I would like the box lunch

_____ No, I do not plan to attend the meeting.

Please return this questionnaire to NMGIC, Inc., % Amy Budge, Technology Application Center, University of New Mexico, Albuquerque, NM 87131-6031.