The Map Legend



New Mexico Geographic Information Council, Inc.

... reporting on geographic information for and about the Land of Enchantment...

Volume 4, Number 1 Fall 1992

GEOGRAPHIC NAMES UPDATE » » » » » » » » » » » »

The renaming of Washington Pass in the Chuska Mountains moved an important step closer to happening when a proposal to rename the Narbona Pass received final approval early last summer by the Navajo Tribal Government.

The name Washington Pass long has been objectionable to Navajos because it honored Col. John Washington, whose troops in 1849 killed the Navajo leader Narbona in a skirmish at the pass. Navajos have been working to have Washington's name replaced by Narbona's.

The Navajos' efforts have received broad approval in the state, and following an expected positive recommendation by the NMGIC Geographic Names Committee (GNC), the proposal will be considered by the U.S. Board on Geographic Names, which also is expected to approve the change.

But the proposal to name a summit in the southern Sangre de Cristo Mountains to honor the illustrious Barker family received a setback early last summer when a GNC committee member contacted persons at the USGS Pecos Ranger Station and learned that the peak, unnamed on USGS and USFS maps, did in fact have a local name and that the local people were not enthusiastic about the Barker proposal.

It now remains for the GNC to visit the area, speak to the local people, determine the local names, and to ascertain which peaks, if any, might be appropriate for the Barker name, as this proposal has received support not only from the public but also from government agencies and elected officials.

The GNC has been working with the National Mapping Division's Denver Office to deal with specific name issues, and the GNC recently received four Domestic Geographic Names Reports from the Division resulting from their Los Alamos mapping project:

- Renaming Ortiga Creek near Glorieta to Ortega Creek (the name having been misspelled by earlier mappers).
- ► Changing the application of the Rio Frijoles on the 1978 Aspen Basin 1:24,000 map.
- Changing the application of the Santo Domingo West Side Drain on the 1953 Santo Domingo SW 1:24,000 map.
- Changing the application of the Lower West Side Santo Domingo Ditch on the same map.

And finally, Cynthia Geuss with geometronics at the USFS Southwest regional office in Albuquerque has joined the GNC to replace Fabian Peña of the same office, who retired recently.

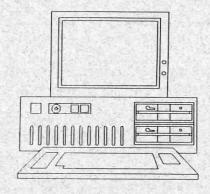
Bob Julyan, Chair, Geographic Names Committee

NMGIC to Sponsor URISA Workshop on Spatial Analysis

As Geographic Information Systems continue to be an operational part of doing business within and between agencies, emphasis will be placed on how to get to the power contained in tabular and spatial data sets and their interrelationships. Dedicated to keeping in stride with the needs of our membership, the New Mexico Geographic Information Council will sponsor one of Urban and Regional Information System Association's (URISA) most popular workshops: INTRODUCTION TO SPATIAL ANALYSIS on October 28, 1992. This one day workshop will address the topics of Data Models, GIS functionality, GIS measurement, pattern analysis, interpolation, network analysis, and spatial interaction models.

(Continued on page 7)

Map Legend



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GLOBAL POSITIONING UPDATE

The Global Positioning System (GPS) Committee is pleased to announce the completion of the New Mexico GPS Reference Network (NMGRN). The NMGRN is our statewide network of survey monuments positioned to a high level of accuracy with GPS. The National Geodetic Survey recently performed the final network adjustment resulting in published positions for all stations in the NMGRN. The adjustment also included Colorado's counterpart to the NMGRN. The results from this adjustment demonstrated that the target level of one part per million relative accuracy was met for both networks.

The GPS Committee will be distributing an informational brochure about the NMGRN. In addition, descriptive and coordinate data are being compiled for distribution.

The New Mexico State Highway and Transportation Department's (NMSHTD) unmanned, active GPS control station was recently installed in Albuquerque. This installation was developed for NMSHTD by the Applied Research Laboratories of the University of Texas at Austin. The station can be remotely monitored and controlled by the station manager. The automated transfer of data from the station to the manager's computer takes place daily via telephone/modem connection.

The station is temporarily located at Sandia National Laboratories and is being operated in a test and demonstration mode. The GPS Committee is involved in a final home and permanent installation for the station. It will probably be at least a year before the data are available for public use.

For more information, contact:

William Stone Chair, GPS Committee National Geodetic Survey % Albuquerque Public Works/Survey Section 400 Marquette Avenue NW, Room 304 Albuquerque, NM 87102 (505) 768-3606

William Stone, Chair, GPS Committee

MARK YOUR CALENDAR!

FALL MEETING - NMGIC, INC.

NOVEMBER 20, 1992

FROM THE PRESIDENT TOM HENDERSON

September 1992

"Global change," the theme of our Fall Meeting, would have been considered an oxymoron fifty years ago. The earth was infinitely forgiving, we thought. No matter what we did as a species we were secure in the presumption that this enormous planet would shrug it off, preoccupied with more dramatic events such as earthquakes and volcanoes. We now know that we have done more to ourselves and our earth in the past fifty years than all of the earthquakes and volcanoes in the past 10,000 years. The burning of organic fuels has raised the atmospheric carbon dioxide levels globally and drastically. We continue to deforest, pollute, and overpopulate at a rate that threatens not only future generations, but ours as well.

We as collectors, users, analyzers, and distributors of geographic information have a unique perspective on all of this change. We measure it to millimeters in some cases using technology that amazes even the most jaded of us. We document it in millions of satellite images, maps, photographs, and GIS data bases. We can literally take the organic pulse of the planet, and, by extension, formulate the prognosis for the survival our species. It is ironic that we are developing the tools and the understanding to potentially monitor our own demise in meticulously accurate detail.

In thinking about this, I believe it touches on a root motivation for many of us to become involved in NMGIC. Certainly we have goals and objectives that give the organization a defined practical purpose, but there is something more fundamental that brings us together. It has to do with a need to contribute in a meaningful way and it has to do with geography as a unifying conceptual base for that contribution. If we can define that relationship in the context of a vision for the organization, I believe we will have defined a solid philosophical foundation for setting direction to achieve our goals and objectives. I will seek to do this during the next year and I will need the counsel of all members who wish to contribute. So think about it as you attend the Fall Meeting, and share those thoughts with me.

CIRCULAR A-16 CHANGES

(submitted by John Peterson as taken from the Federal Geographic Data Committee, First Annual Report to the Director of the Office of Management and Budget by the Federal Geographic Data Committee: A National Geographic Information Resource: The Spatial Foundation of the Information-Based Society, December, 1991)

The Federal Government has a critical role as catalyst for developing this vital national information resource. It provides a forum for the geographic data community, including Federal Agencies, State and local governments, private industry and academia, to determine the direction in which the resource will develop, to plan the roles and responsibilities of the partners in this development, and to encourage opportunities for cooperation. It supports and provides a process for developing needed standards. The Federal Government also has an important stake in the development of this resource because of its widespread need for and use of geographic data.

With these opportunities in mind, the Office of Management and Budget (OMB) issued a revised Circular A-16, "Coordination of Surveying, Mapping, and related Spatial Data Activities," in October 1990. The goals of the circular are to develop a national digital geographic information resource, to reduce duplication, to reduce the expense of developing geographic data, and to increase the benefits of using available data by ensuring coordination of Federal agency geographic data activities.

The circular assigns to Federal agencies the responsibilities of leading coordination activities for 10 categories of data. These categories form the data foundation for many applications. Agency responsibilities include providing government-wide leadership in developing standards, assisting information and data exchange, and coordinating data collection.

The circular also establishes an interagency committee, the Federal Geographic Data Committee (FGDC), to promote the coordinated development, use, sharing, and dissemination of geographic data. The committee also oversees and provides policy guidance for agency efforts to coordinate geographic data categories. The FGDC is composed of representatives from the Departments of Agriculture, Commerce, Defense, Energy, Housing and Urban Development, Interior, State, and Transportation; the Environmental Protection Agency; the Federal Emergency Management Agency; the Library of Congress; the National Aeronautics and Space Administration; and the Tennessee Valley Authority. The Departments of Education, Health and Human Services, Justice, and Labor; the Capital Planning Commission; and the Smithsonian Institution also participate in FGDC activities. The U.S. Geological

Survey chairs the committee on behalf of the Secretary of the Interior.

The FGDC has organized subcommittees to work on issues related to the data categories coordinated under the circular and working groups to work on issues spanning the subcommittee's interests. Subcommittees establish and implement standards for data content, quality, and transfer; encourage the exchange of information and the transfer of data; and organize the collection of geographic data to reduce duplication of effort.

Working groups have been established for standards, technology, and liaison with the non-Federal community. For more information on the revised circular or the FGDC, contact Michael Domeratz 703/648-4533.

Geographic data coordination responsibilities assigned by the revised Office of Management and Budget Circular A-16.

Geographic Data Category	Lead Agency
Base cartography	USGS, Interior
Cadastral	BLM, Interior
Cultural and demographic	Bureau of Census, Commerce
Geodetic	Coast and Geodetic Survey, Commerce
Geologic	USGS, Interior
Ground transportation	FHWA, Transportation
Portrayal of certain international boundaries	Office of the Geographer State
Soils	SCS, Agriculture
Vegetation	Forest Service, Agriculture
Wetlands	Fish and Wildlife, Interior
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John Peterson, NMGIC Board of Directors

Current memberships expire December 31, 1992.
1993 membership dues (\$15) can be sent to Amy
Budge checks payable to NMGIC.

Announcing the Fall NMGIC Meeting

Featuring a Presentation by Mr. Dennis Krohn on Global Change, Applications of TIGER/Line Files, and Technical Demonstrations by Users of Geographic Data

The Fall meeting of the New Mexico Geographic Information Council is scheduled for Friday, November 20, 1992, in Albuquerque. The program theme is "Global Change" and will feature a presentation by Mr. Dennis Krohn, Director of the U. S. Geological Survey Global Change Research Program, Reston, Virginia. This research program contributes to improved models of Earth systems and provides data for the development of new models. Examples of USGS Global Change research areas and process studies include: Arid and Semiarid Regions; Cold Regions; Coastal Regions; Sensitive River Basins; Carbon and Nutrient Cycles; Climate and Water Cycles; Land Surface Characteristics; and Volcanic Emissions. The Global Change Program also studies the history of past climates, recording changes in environmental variables such as temperature, precipitation, glaciers, sea level, vegetation, and land cover.

The afternoon session will feature a panel of TIGER/Line file users from state and local governments, universities,

and the private sector. Representatives from McKinley County, New Mexico State Highway and Transportation Department, Envision Utility Software Corporation, and the University of New Mexico will be among the panelists discussing the applications of these data in their GIS and AM/FM programs.

The Fall meeting traditionally provides users of geographic data in New Mexico an opportunity to demonstrate applications of GIS, GPS, and remote sensing technology in their specific fields of interest. These applications are demonstrated on PCs and workstations, as well as by poster sessions. The Fall planning committee invites you to participate as a user of geographic data. Please contact Mike Zeiler, Chair of the GIS Committee for information on how to participate.

Mark your calendars for Friday, November 20. Hope to see you there!

Meeting Location:

UNM Continuing Education Conference Center 1634 University Boulevard NE Albuquerque, New Mexico

Ebert & Associates 3700 Rio Grande Blvd. NW Suite 3 Albuquerque, NM 87107 (505) 344-2345

Bohannan-Huston, Inc. Courtyard I 7500 Jefferson Street NE Albuquerque, NM 87109 (505) 823-1000 New Mexico Technet, Inc. 4100 Osuna NE Suite 103 Albuquerque, NM 87109 (505) 345-6555 Sun Microsystems, Inc. 1700 Louisiana Blvd. NE Suite 300 Albuquerque, NM 87110 (505) 268-3350

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Terra Imaging Corporation 3700 Osuna NE, Suite 502 Albuquerque, NM 87109 (505) 345-9654

Environmental Systems Research Institute, Inc. 1426 Pearl Street, Suite 210 Boulder, CO 80302 (303) 448-7779

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Koogle & Pouls Engineering, Inc.

A SPECIAL THANKS . . . to the 1992 Corporate Members

CALENDAR

October 28, 1992. URISA Workshop "Introduction to Spatial Analysis," UNM Continuing Education Conference Center, Albuquerque, New Mexico. Contact: John Peterson, NMERI, Campus Box 23, University of New Mexico, Albuquerque, NM 87131, 272-7295 or Amy Budge, Technology Application Center, University of New Mexico, Albuquerque, NM 87131-6031, 505-277-3622.

October 21-24, 1992. Applied Geography—SWAAG Conference, University of North Texas, Denton, Texas. Contact: F. Andrew Schoolmaster, Department of Geography, Box 5277, University of North Texas, Denton, TX 76201, 817-565-2091.

October 26-30, 1992. Wetland Vegetation Remote Sensing and Mapping Workshop, Stennis Space Center, Mississippi. Contact: C. P. O'Neil, U. S. Geological Survey, Applications Assistance Facility, Building 3101, Stennis Space Center, MS 39529, 601-688-3541.

November 6-12, 1992. GIS/LIS '92 Annual Conference and Exposition and ACSM/ASPRS Fall Convention, San Jose, California. Contact: GIS/LIS, 5410 Grosvenor Lane, Bethesda, MD 20814, 301-493-0200.

November 16-22, 1992. 15th European Data Management Symposium, Lyon, France. Topic: Managing the City of the Future Using New Types of Urban Information Systems. Contact: Robert Laurini, INSA de Lyon, France 69621, Villeurbanne Cedux, Fax: 33 72 43 85 18.

November 20, 1992. NMGIC Fall Meeting. UNM Continuing Education Conference Center, 1634 University Boulevard NE, Albuquerque, New Mexico. Contact: Amy Budge, TAC, UNM, 2500 Yale SE, Suite 100, Albuquerque, NM 87131-6031, 505-277-3622.

November 24-26, 1992. AGI '92 Conference. International Convention Centre, Birmingham, United Kingdom. Topic: Geographic Information Systems as a Management Tool. Contact: Westrade Fairs Ltd., 28 Church Street, Rickmansworth, Herts, UK, WD3 1DD, Telephone: 0923 778311.

November 30-December 2, 1992. Fifth Annual GIS Conference, Butte, Montana. Sponsored by the Butte-Silverbow Planning Department. Topic: Montana GIS Tools for Analysis and Management. Contact: John Sesso, Butte-Silverbow Planning Department, Courthouse, 155 West Granite, Butte, MT 59701, 406-723-8262, ext. 274.

December 1-4, 1992. Fourth Annual Conference and Exposition on Document Image Management in Government. Loews L'Enfant Plaza Hotel, Washington, DC. Contact: USPDI, 1734 Elton Road, Suite 221, Silver Spring, MD 20903, 301-445-4400.

January 29-30, 1993. 32nd Annual Surveying Engineering Conference. Centre Plaza Holiday Inn, Fresno, California. Sponsored by California State University (CSU-Fresno) and the Surveying and Photogrammetry Student Association. Contact: Dr. James K. Crossfield, Surveying Engineering Program, CSU-Fresno, CA 93740-0094, 209-278-4827.

URISA WORKSHOP

(continued from page 1)

This stimulating exposure to concepts and techniques of spatial analysis will be led by Dr. Michael Goodchild, currently a professor of Geography the University of California at Santa Barbara and Director of the National Center for Geographic Information and Analysis (see biographical sketch below). The workshop will convene at 9:00 at the University of New Mexico Continuing Education and Conference Center, 1634 University Boulevard, NE, Albuquerque, NM. The price of the workshop is \$155.00 and includes workshop materials and an on site box lunch (see registration form for sandwich choices). Call Amy Budge at the Technology Application Center (277-3622) by October 19 to secure your space. Return completed form to Amy at Technology Application Center, University of New Mexico, Albuquerque, NM 87131-6031.

Biographical Sketch Dr. Michael F. Goodchild

Dr. Goodchild received his B.A. degree from Cambridge University in Physics in 1965 and his Ph.D. in Geography from McMaster University in 1969. After 19 years at the University of Western Ontario, including three years as Chair, he moved to Santa Barbara in 1988. In 1990 he was given the Canadian Association of Geographers Award for Scholarly Distinction. He was Editor of Geographic Analysis between 1987 and 1990, and serves on the editorial board of six other journals and book series. He has been a visiting professor at the University of Auck, University of Iowa, and McGill University, and has given numerous presentations as visiting speaker. Goodchild has given keynote addresses at many recent conferences. He has served as Chair of the GIS Specialty Group of the Association of American Geographers, and as a member of numerous conference program committees.

Fax: 505-277-3614