

## WLRC COMPLETES ITS MISSION

The Wisconsin Land Records Committee completed its two-year study and delivered its final report to the Governor on July 1st. Its Executive Summary explains the Committee's recommendation: The Wisconsin Land Information Program will provide a long-range, strategic mechanism to guide the development of modern, multipurpose land information systems, as well as a flexible process by which to implement and maintain these systems. As such, it will enable Wisconsin to meet the goal set forth by the Committee. The Program will: establish a Land Information Board, an Office of Land Information, and a Grants-In-Aid Program; encourage the establishment of County Land Information Units; and cooperate with a non-governmental Land Information Association.

The Land Information Board will establish and direct overall Program policy. The Board will develop programs to include:

- a Grants-In-Aid Program to help fund local government efforts to modernize land records;
- guidelines for implementing multipurpose land information systems;
- methods for resolving legal and administrative discrepancies pertaining to land information;
- advisory channels to the Governor, Legislature, and state agencies; and
- educational, research, and outreach projects to promote land records modernization.

To ensure institutional balance the Governor will appoint 12 Board members -- four each from:

- a. state agencies;
- b. county, municipal, and town governments, and regional planning commissions; and
- c. the private sector and utilities.

Appointees will reflect a statewide regional and urban/rural balance.

The Office of Land Information will administer programs developed by the Board. The Office will:

- administer the Grants-In-Aid Program;
- help local and state agencies integrate land information for decision-making;
- maintain a statewide inventory of land records and modernization efforts;
- serve as a clearinghouse for land information inquiries, and
- assess the potential impact of new technologies on land records modernization.

The Wisconsin State Cartographer's Office will merge with the Office of Land Information to avoid duplication of effort. In addition to existing State Cartographer's Office

VOLUME 13

NUMBER 3

JULY 1987

# WISCONSIN MAPPING BULLETIN

**Christine Reinhard**  
Editor

**John Laedlein**  
Production Manager

**STATE  
CARTOGRAPHER'S  
OFFICE**

**155 Science Hall  
Madison, WI 53706  
608/262-3065**

**Est. 1973**

(continued next page)

## WLRC, continued

personnel, Land Information Office staff will consist of three full-time equivalent positions, including a director selected by the Board. State agencies will be encouraged to provide additional technical staff. Liaisons with appropriate federal agencies, regional planning commissions, utilities, and the private sector will be encouraged as well. The Office will be administratively attached to the University of Wisconsin System for the provision of physical space and basic overhead services.

The Grants-In-Aid Program will help fund development of local and regional multipurpose land information systems. It will include technical assistance to local governments undertaking any degree of land records modernization. Any local unit of government will be able to apply for grants. The Board will review all grant proposals, and each grant will require an equal or greater in-kind match from non-state sources.

Each of Wisconsin's 72 counties will be encouraged to establish a County Land Information Unit. Because the parcel-level land data maintained by local governments is crucial to a statewide land information network, County Units will be fundamental to the Land Information Program and will:

- serve as the primary contact point between local government and Office of Land Information;
- apply to the Grants-In-Aid Program for funding to assist with land records modernization; and
- assist with land records modernization projects initiated by local governments, businesses, and small utilities within county borders.

Because of considerable variation in needs and constraints, each county would structure the type of Land Information Unit best suited to its priorities.

In its 1986 Summary Report, the Wisconsin Land Records Committee recommended that an independent, non-governmental association of land records professionals be established. Since then, the Wisconsin Land Information Coalition has emerged as a grassroots organization of concerned professionals who advocate land records modernization in Wisconsin. The Coalition hopes to build upon the momentum generated by the Committee.

The Wisconsin Land Records Committee envisions land records modernization as a dynamic, evolutionary process rather than a revolutionary one. The technologies likely to help modernize land records in the near

future, for example, are sure to change even more before the end of the century. The Wisconsin Land

Information Program is prepared to evolve as necessary to manage this change.



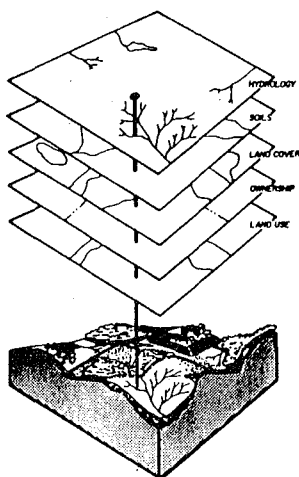
Barbara Weisman, WLRC Program Coordinator, presented Jim Clapp, WLRC Chairman, with a "bent benchmark" award for his adept leadership of the diverse, 32-member Committee. June 25, 1987.



For the two years during which Editor Christine Reinhard served as a WLRC facilitator, she had the able assistance of Tim Moyer.



Art Ziegler and Brenda Hemstead poured over budget sheets as the '86-87 fiscal year came to a close.



## WISCONSIN LAND INFORMATION COALITION

The membership of the Wisconsin Land Information Association has voted to change its name to the Wisconsin Land Information Coalition. Christine Reinhard, acting president, announced the new name at the June 25th dinner meeting held at The Gobbler in Johnson Creek.

Earlier that evening the Wisconsin Land Records Committee met for the last time. The WLRC members discussed their final report and reviewed possible implementation strategies. Virtually the entire group stayed for the Coalition's informal information session. Coalition subcommittees are working on bylaws and on conference planning. A major topic of interest was proposed draft legislation. Shortly before dinner, Barbara Weisman and Jim Clapp received awards and light-hearted tokens of appreciation from the group.

The evening's speakers were: Stan York, Executive Director of the League of Wisconsin Municipalities; Mark Rogacki, Executive Director of the Wisconsin Counties Association; and Ervin Conradt, President of the Wisconsin Towns Association. The three gave their associations' perspectives on the WLRC's proposed recommendations and candidly advised the group on legislative realities. Lively discussion finally drew to a close as the evening grew late.

The next meeting of the Wisconsin Land Information Coalition is set for September 23rd; time and place to be announced. Contact Arnie Patterson 414/886-8470 or Tom Patterson 414/547-6721 for more information. The Coalition is sponsored by the Wisconsin Chapter of URISA.

## CHRISTINE DEPARTS

Dear Readers:

With sadness and excitement I must say my goodbyes to you. I have taken a position with the Washington Department of Natural Resources in Olympia as their State Cartographer. This is the last Bulletin I will produce, for I start my new job on September 1st.

I've enjoyed putting together the Bulletins all these years. It's been a pleasure knowing that you've appreciated the articles, news, and fun things I've compiled. The feedback I've received from you always buoyed my efforts.

The SCO intends to continue the Bulletin with as little disruption as possible. I urge you to send in news items. After all, the Bulletin exists to be a vehicle for spreading information about, or of interest to, the Wisconsin mapping sciences community.

My address will be the Mapping Resources Section, Division of Engineering, Department of Natural Resources, 1063 South Capitol Way, Rm. 201, Olympia, WA 98504, phone 206/753-5340.

I hope to stay in contact with as many of you as possible. May all your contour intervals be small and your monuments permanent.

Your editor,

*Christina*

## SCO POSITION VACANCY

An Academic Staff position within the University of Wisconsin at Madison. The position assists the State Cartographer in fulfilling the responsibilities assigned by state statute.

Major duties include managing the Office's cartographic information programs, coordination of state resource mapping programs and consultation with state, regional and local governmental cartographic agencies. There is significant involvement with the Wisconsin land records program and automated state resource programs.

While there is a range in the State Cartographer title series, the level of position will depend upon experience and education. It is anticipated the entry level salary will be in the mid-20,000 dollar range.

For an announcement and additional information, contact:

Art Ziegler, State Cartographer  
Room 160 Science Hall  
Madison, WI 53706-1404  
(608) 262-3065

The University of Wisconsin is an Equal Opportunity Employer.

## FOCUS: UW MAP LIBRARY

The UW-Madison Arthur H. Robinson Map Library, a sub-unit of the Department of Geography, serves University and non-University users. It is located in facilities which were remodeled in 1982 and named that November for Arthur H. Robinson, the well-known cartographer who taught on the campus from 1945 until his retirement in 1980.

Mary Galneder has been Map Librarian since 1965. The Library is open 8-12 a.m., 1-5 p.m. Monday - Friday at 310 Science Hall, 550 North Park Street, Madison. The phone number is 608/262-1471.

### HOLDINGS

The primary materials in the Map Library are approximately 228,700 maps; approximately 136,500 air photos; and approximately 2,470 air photo mosaic indexes. Other materials include globes; plastic relief models; wall maps, slides, and videocassettes for classroom use; and examples of remote sensing imagery. In contrast, the Library contains only about 500 books, chiefly gazetteers for the United States and foreign countries, and essential reference materials, and about 20 periodical subscriptions.

### MAPS

The Map Library tries to maintain a comprehensive collection of general and political maps for all parts of the world, a selection of appropriate thematic (for example, population or soils) maps, and maps of major cities. Topographic map series at various scales are also collected; for example, the United States at 1:24,000; Canada and parts of Western Europe and Central America at 1:50,000; and other areas at 1:250,000, 1:1,000,000, or 1:5,000,000. Other groups of materials include Department of Transportation maps of Wisconsin cities, Bureau of the Census maps for Wisconsin cities and counties, maps for numerous cities in the United States and Canada (including many smaller communities); state and provincial highway and recreational area maps, and selected university and college campus maps.

### AERIAL PHOTOGRAPHS AND MOSAIC INDEXES

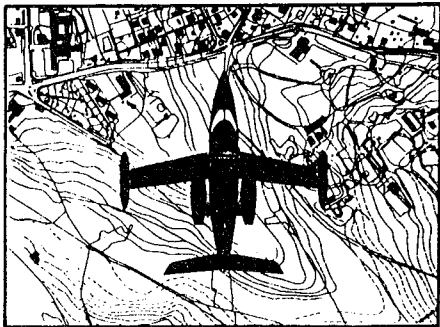
Most of the aerial photographs cover the state of Wisconsin. Except for Madison and Dane County, for which the Library tries to obtain all new coverage, the air photos are primarily from the late 1930s through the early 1960s. The Library usually acquires older photography because newer photos

(continued next page)

## MAP LIBRARY, continued

may be purchased in Madison from the State Department of Transportation or examined at the Wisconsin's U.S. Agricultural Stabilization and Conservation Office.

The air photo mosaic indexes serve as a record of the photos in the Library and enable users who wish to purchase their own copies to determine the numbers of the photos they wish to order.



## IOWA COUNTY CAVE ART

UW-Madison graduate student Jim Valiga has been using photogrammetry techniques to study rapidly deteriorating prehistoric paintings. The obscured and faded glyphs are in a remote cave in Iowa County.

Valiga is working with color and color infrared film and ultraviolet illumination to more precisely define the drawings. He uses computer enhancement of the film to detect subtle differences in pigments. Valiga hopes his techniques will help unravel the unspoken history of these unique ancestral stories.

Jim can be contacted through Prof. Jim Scherz of the Dept. of Civil and Environmental Engineering, University of Wisconsin, Madison, WI 53706.

## MAILING LIST UPDATE

Readers, this is your last chance to save yourselves! In our last issue (April) we asked you to complete the inside mailing cover, whether or not your address needed corrections, to help us revise our database. We've only received approximately a 60% return. PLEASE RESPOND TO THIS SECOND NOTICE! We will only mail the October issue to those of you who have responded.

## PONIATOWSKI - SING OUT!

Imagine the surprise of your Editor when she heard a song about Poniatowski one Sunday evening on WERN's Simply Folk. (For those of you who don't recall Poniatowski's claim to fame, it lies nearly at 45 degrees - 90 degrees. See January 1987 Bulletin.) Lou and Peter Berryman (no relation), acclaimed Madison folksingers, have put Poniatowski to song. After a lead-in by Pete about the lack of geographic literacy in the United States, Peter strummed his guitar and Lou pumped her accordion (a truly Wisconsin instrument)...

### PONIATOWSKI

(words & music by Peter Berryman)

1. Exactly half the way from the equator to the pole.  
A quarter of the way around the planet as a whole.  
It's very hard to find it on a map o' county roads.  
Ridiculously easy on a four inch globe.

Chorus: Poniatowski, Poniatowski, Everybody! Poniatowski!

2. Magellan's men said 'Captain have we gotten very far?  
We're writing to our mothers just to tell 'em where we are.'  
The captain said, "Our longitude is 50 on the dot.  
I don't know where we are but I can tell you were we're not:

(Chorus)

3. A quarter of the way from top to bottom of our earth.  
A quarter of the way around the planet of our birth.  
Speaking cartographically it's not extreme to say.  
It's the most important Towski in the U-S-A.

(Chorus)

4. What is on the tip of every schoolkid's tongue?  
What I mean of course besides a wad of gum.  
The name of a location every grownup knows.  
Of a church, a couple taverns and a school that's closed.

(Chorus)

5. I asked an old cartographer where he would rather be.  
He mumbled "There's a place that's always fascinated me.  
I'll prob'ly mispronounce it he admitted with a sigh:  
It's: "P O N I A T O W S K I"

(Chorus)

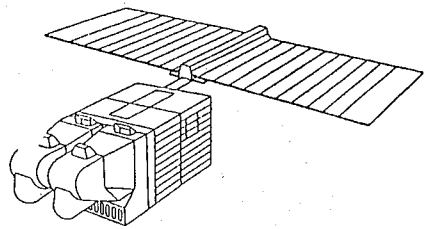
© 1986 Lou & Peter Berryman

## SCO PRODUCTION STAFF

Here are the students who make up the staff. They are shown here at a going away/birthday party on the Memorial Union Terrace in early June. Starting on the left, attempting to pour water on our departing staff member, is Brenda Hemstead, Program Assistant 2.

Standing on a lower step are Bj, John (Production Manager), Tom, and Clarence. Seated at the picnic table are Tim (Bulletin Assistant Editor), Mark, Rick, Christine (Editor), Heidi, and Christina (Assistant Editor). Not shown is Gary. A good time was had by all.





## "OH SEE SPOT"

Prof. Tom Lillesand, Director of the UW-Madison Environmental Remote Sensing Center, is one of 19 U.S. scientists selected by SPOT's French manufacturer to evaluate the satellite's imagery. SPOT (which translates from the French to "system for observing the earth") can recognize land features as small as 30 feet across. Landsat, the state-of-the-art U.S. satellite, has resolution only to about 90 feet. But what really put SPOT at the head of its class, says Lillesand, is its pointable mirror.

"Landsat has a fixed mirror and must be directly overhead to view an area, which happens once every 16 days," he says. "SPOT's pointable mirror puts it in range of any given location on earth 11 days out of its 26-day orbit. If we have a forest fire, a flood, a drought, a Chernobyl, we suddenly have the ability to view a given spot on earth today, tomorrow, and the next week."

Lillesand and several graduate students are studying SPOT images of the Madison, Spooner, and Green Bay areas. The Madison image is the focus of an experimental map which will combine SPOT's 10m-resolution black-and-white imagery with its 20m-resolution color infrared imagery. (See article elsewhere in this issue.) The DNR is working with Lillesand on using SPOT imagery for forest management. The Center is also evaluating SPOT's potential to identify water quality problems in Green Bay. (The water body, not Packerland, USA.)

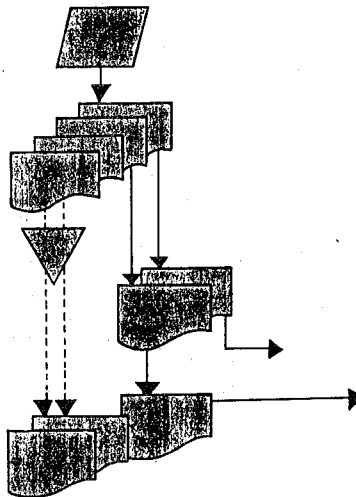
This research underscores the importance of the use of satellites to monitor earth resources. Unfortunately the U.S. is considering dropping its Landsat program. Prof. Lillesand has testified before congressional subcommittees on the need for the continuation and upgrading of the system.

People interested in the SPOT projects or in writing their legislators in support of the Landsat program can contact Tom Lillesand at ERSC, 1213 Meteorology and Space Science Building, Madison, WI 53706, phone 608/263-3251.

## SPOT SATELLITE IMAGE MAP IN WORK

The Environmental Remote Sensing Center, UW-Madison headed by Director Tom Lillesand has acquired three images of the French SPOT satellite over Wisconsin. One image is over northwest Wisconsin to assess forest cover, the second over the Green Bay area for water pollution study and the third over the Madison area for city-rural comparisons.

The Committee on State Cartography and the Remote Sensing Center are cooperating on publishing a lithographed image map of the Madison area. Currently the Center is processing the image into formatted tapes for producing the color process negatives. When that is completed, the UW Cartographic Laboratory will produce the final cartographic reproductions. Printed copy is expected before the end of the year. The October Bulletin will report on the status and distribution of the copies.



## DIGITAL DATA SURVEY

Accompanying this Bulletin is a brief questionnaire prepared by the State Interdepartmental Geographic Data Sharing Group. This group of geographic information system specialists has been meeting informally for over a year to share news and information. They now have begun the process of canvassing the state to determine who has what kind of digital geographic data. The State Cartographer's Office is working with the group by surveying its Bulletin readership. The SCO will also assemble and maintain the inventory returns. For more information about the group or the questionnaire, contact Dave Fletcher, Department of Transportation, 201B Hill Farms Building, Madison, WI 53702, phone 608/266-1357.

## GIS NATIONAL CENTER PROPOSED

The National Science Foundation has asked for proposals to develop a National Center for Geographic Information and Analysis (NCGIA), which will be established in the Summer of 1988. NSF will fund the Center at \$1.25 million per year through the Geography and Regional Science Program in their Division of Social and Economic Science. The Center will be devoted to basic research on geographic analysis utilizing geographic information systems. Its goals are to:

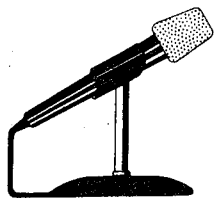
- advance the theory, methods, and techniques of geographic analysis based on geographic information systems (GIS) in the disciplines involved in GIS research;
- augment the nation's supply of experts in GIS and geographic analysis in participating disciplines;
- promote the diffusion of analysis based on GIS throughout the scientific community; and
- provide a central clearinghouse for information regarding research, teaching, and applications in GIS.

The UW-Madison's Center for Land Information Studies is coordinating the University's proposal. Contact Jim Clapp at the Center for more information: 1042 WARF Building, 610 Walnut Street, Madison, WI 53705, phone 608/262-9937.

## ACSM STUDENT CHAPTER NEWS

Members of the UW-Madison Student Chapter of the American Congress on Surveying and Mapping have elected officers for the 1987-88 academic year. The new officers are: President - Christina Erikson; Vice President - Gerry Daumiller; Secretary/Treasurer - Tom Ruzyski; Program Director - Barbara Jenkin; Jobs File Coordinators - Bj Wooding & Ira Hubert; ACSM Convention Director - David DiBiase; Administrators - Matthew Edney and John Laedlein.

The Student Chapter's first meeting and kick-off party for this fall is scheduled for Thursday September 10th at 5 p.m. in room 350 of Science Hall. Those interested in learning about the organization are invited to join the fun. Inquiries and other contacts with the Student Chapter can be made care of the State Cartographer's Office, 170 Science Hall, UW-Madison, Madison, WI 53706.



## ROBINSON/WAGNER LECTURE SERIES

An audience of over 70 students and faculty were in attendance at the University of Wisconsin-Madison April 21st for Joel L. Morrison's talk on "Conceptual and Technological Change in the Mapping Sciences". Dr. Morrison, former UW-Madison Department of Geography Chair and recently-appointed assistant division chief for research at the U.S. Geological Survey's National Mapping Division, was the speaker for the first in the annual Robinson/Wagner Lecture Series sponsored by the Student Chapter of the American Congress on Surveying and Mapping. Dr. Morrison's talk focused on the factors and changes resulting from the introduction of computer technology to the mapping sciences. These factors include: 1) a wide variety of new map products and digital data systems, 2) increasingly sophisticated locational data collection devices, 3) problems of digital data manipulation and processing and the search for ways to exchange information among data-collecting organizations, 4) defining symbolization techniques for automated mapping systems, and 5) the increasing potential for a user-oriented map production environment in which "mapping scientists will be making maps possible, rather than making maps".

A videotape of Dr. Morrison's talk (approximately 1 hour in length) is available for viewing from the A.H. Robinson Map Library on the UW-Madison campus. Watch for an announcement of the second annual Robinson/Wagner lecture planned for the 1987-88 academic year in a future issue of the Bulletin.

## AUTO CARTO LONDON AWARDS

The very large attendance at the Auto Carto London Conference in September 1986 generated a substantial financial surplus. Walter Smith, Conference President, deposited this money with the Education Trust of the Royal Institution of Chartered Surveyors, (RICS), to be used for the following objective. RICS invites applications for awards, beginning on 1st September 1987 and extending through 1989.

### Objective:

To advance knowledge through the sponsorship of research or travel in the fields covered by Auto Carto London, namely to secure the optimal use of land and related resources by improvement in the collection, handling and use of spatially-related data using computer assisted techniques.

### Conditions:

1. The Program is open to all individuals, regardless of race, color, creed, nationality, sex or age.
2. Other things being equal, funding will be allocated to younger applicants. Similarly, research or research-related travel involving international links will be favored.
3. In making awards, account will be taken of efforts made by applicants to obtain whatever assistance is available from their employers or from other sources. The Program has only limited funds to disburse.
4. Successful applicants will be expected to provide a short report on the results of their projects and the Trustees reserve the right to publish these reports.

### Additional Information:

1. Applicants should submit applications on the prescribed forms, obtainable from the address below, ensuring that these are received by September 1, 1987 and by February 1, or September 1, 1988 or 1989.
2. The funds available each year are expected to be of the order of £15,000. While neither upper nor lower limits are set on the sums requested, the Trust would normally intend to make a number of awards each year.
3. An advisory panel chaired by the President of Auto Carto London, under the auspices of the Trustees of the RICS Education Trust, will determine the awards.

### Method of Application:

Obtain an Application Form from, and return it to:

The Secretary for Education and Membership, The Royal Institution of Chartered Surveyors, 12 Great George Street, Parliament Square, London SW1P 3AD, UK, and arrange for the completion and return to the Institution of two Referee Report Forms. Applications will be acknowledged.

## EVENTS, EVENTS, EVENTS



### URISA 25TH ANNUAL CONFERENCE

August 1-6, Fort Lauderdale, FL. The 25th Annual Conference of the Urban and Regional Information Systems Association (URISA) will feature over 160 professional papers, 60 exhibitors, 9 pre-conference workshops, plenary sessions, publications, free software, and educational and recreational tours. Major topics include: geographic information systems; facilities management and mapping; land records/assessor parcel databases; remote sensing and photogrammetric systems; advanced microcomputer applications; and artificial intelligence/expert systems. URISA will hold its conference at the Marriott Harbor Beach Resort Hotel. For more information write: URISA, 319 C. Street S.E., Washington D.C. 20003.

### WSLS SUMMER MEETING

August 14-15, La Crosse, WI. The 1987 Wisconsin Society of Land Surveyors Summer Meeting will encompass a variety of recreational events in addition to program presentations, exhibits, and board and general membership meetings. The WSLS has reserved a block of rooms at the Holiday Inn. For more information contact William C. Jung, Secretary/Treasurer, Western Chapter-WSLS, N5416 Abbey Road, Onalaska, WI 54650, phone 608/785-9722.

### AM/FM WISCONSIN CHAPTER

September 10, Brookfield (Milwaukee). Speaker to be announced. Contact Ed Hedges at 608/252-5764 for more information.

### TWELFTH INTERNATIONAL CONFERENCE ON THE HISTORY OF CARTOGRAPHY

September 7-11. Paris. For more information contact Monique Pelletier, Bibliotheque Nationale, Department des Cartes et Plans, 58 Rue de Richelieu, Paris, 75084 France Cedex 02.

(continued next page)



## EVENTS, continued

### INTRODUCTION TO REMOTE SENSING FOR NATURAL RESOURCE MANAGERS

- September 2 - October 2, Madison, WI. A compressed-schedule modular course covering the following subjects:
- Concepts and Foundations of Remote Sensing
  - Aerial Photographic Materials and Methods
  - Airphoto Interpretation for Land Cover Mapping
  - Intro. to Geographic Information systems (GIS)
  - Basic Photogrammetry
  - Multispectral Remote Sensing and Automated Land Cover Mapping
  - Visual and Computer-Assisted Interpretation of Earth Resource Satellite Data
  - Landsat Thematic Mapper
  - SPOT
  - NOAA/AVHRR
  - Applications of Remote Sensing in Natural Resource Management

IES 900 will meet M-W-F from 7:45-9:40 a.m. (except Labor Day) on the UW-Madison campus. The two-credit course requires enrollment as a Special Student. Contact Prof. Tom Lillesand at 608/263-3251 for more information.

### REAL PROPERTY LISTERS

September 16-17, Black River Falls, WI. For more information contact Betty Hedrington 715/723-1831 or Sue Ritland 715/284-7441.

### CHATTMAP '87

September 22-25, Chattanooga, TN. The Center for Advanced Technology at the Chattanooga State Technical Community College is presenting a symposium on computer mapping and land information systems. The keynote speaker will be Robert Aangennbrug, Executive Director of the Association of American Geographers. The Tennessee Chapter of the American Public Works Association is sponsoring the symposium. For more information contact CHATTMAP '87, 4501 Amnicola Highway, Chattanooga, TN 37406-1097.

### WISCONSIN LAND INFORMATION COALITION

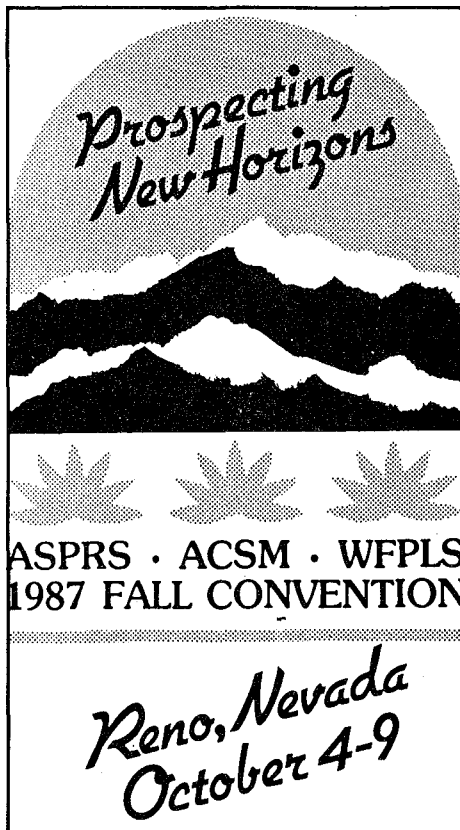
September 23. Sponsored by WisURISA. Time and place to be announced. Contact Arnie Clement, 414/886-8470 for more information.

### WISCONSIN COUNCIL FOR GEOGRAPHIC EDUCATION

October 16-17, Madison, WI. "Ways of Improving Geographic Education in Secondary Curriculums". The keynote speaker is Christopher Salter of the University of California - Berkeley. For more information contact Prof. Robert Sack, Geography Dept., M380 Science Hall, Madison, WI 53706, phone 608/262-9915.

### ASPRS/ACSM

October 4-9, Reno, NV. "Prospecting New Horizons" is the theme of the American Society of Photogrammetry and Remote Sensing and the American Congress on Surveying and Mapping fall conference. In addition to a full week of technical sessions, there will be a special series of professional development seminars. The crew of the Voyager will be the keynote speakers. For more information, contact: Trish Caldwell Lindgren, Convention Director, 240 Redwood Highway, #6, Mill Valley, CA 94941, phone 415/332-9014.



### INTERNATIONAL CARTOGRAPHIC ASSOCIATION CONFERENCE, MEXICO

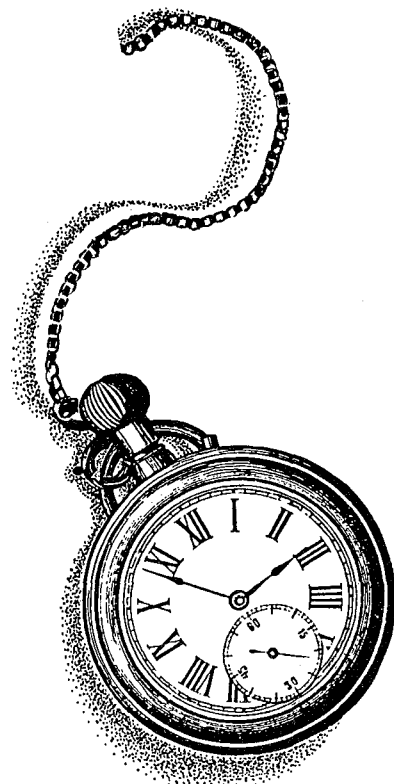
October 12-21, Morelia, Mexico. "Choices for Technological Changes in Cartographic Production" is the theme of this 8th General Assembly of the International Cartographic Association (and its 13th International Conference). For detailed information about papers, programs, registration fees, accommodations, excursions, social events, etc., request a copy of the Second Circular by writing to: Mr. Manuel Gonzalez, Conference Director, XIII ICA Conference, Apdo. Postal 25-549, Mexico.

### 89TH MUNICIPALITIES LEAGUE CONFERENCE

October 21-23, Milwaukee, WI. The League of Wisconsin Municipalities will hold its 89th Annual League Conference at the Hyatt Regency. The conference will address important issues facing municipal government executives and officials. Normally the three-day conference features talks by an invited guest speaker, an official from the National League of Cities, and the Governor; a day of workshops; and panel discussions with legislative leaders. For more information contact Bob Tevik at 608/267-2386.

### GIS '87 SAN FRANCISCO

October 26-30, San Francisco, CA. The American Society for Photogrammetry and Remote Sensing and the University of California, Berkeley will convene the 2nd Geographic Information Systems Conference and Workshops. The American Congress on Surveying and Mapping is sponsoring this workshop as well. The conference will focus on methods and management techniques which place geographic information systems "Into the Hands of the Decision Maker". For more information contact: GIS '87 - San Francisco, c/o Dr. Russell Congalton, Dept. of Forestry and Resource Management, University of California, Berkeley, CA 94720, phone 415/642-5170.



(continued next page)

## EVENTS, continued

### REMOTE SENSING SYMPOSIUM

October 26-30, Ann Arbor, MI. The Environmental Research Institute of Michigan is convening the 21st International Symposium on Remote Sensing and the Environment. The symposium will provide an indepth look at the latest technology for earth resource survey and environmental monitoring, stressing topics related to land, oceans and ice, and atmosphere and climate. For registration information contact Conference Services at the Environmental Research Institute of Michigan, P.O. Box 8618, Ann Arbor, MI 48107-8618, phone 303/994-1200, ext. 2290.

### NACIS VII

October 28-31, Atlanta, GA. NEW DIMENSIONS IN CARTOGRAPHY. NACIS will hold its convention at the Radisson Inn and Conference Center. NACIS VII will include a variety of paper and poster sessions, exhibits, cartographic field trips, and panel discussions with recognized authorities from government, private, and academic organizations. USGS National Cartographic Information Center Affiliates will meet at the same time. For more information contact: North American Cartographic Information Society, 6010 Executive Boulevard, Suite 100, Rockville, MD 20852, phone 301/443-8075, or John Sutherland, NACIS Program Chair, Map Collection, Science Library, University of Georgia, Athens, GA 30602, phone 404/542-0690.

### IMDA MEETING AND TRADE SHOW

October 28 - November 1, Reno, NV. The International Map Dealers Association will hold its Seventh Annual Meeting and Trade Show at The Nugget. Workshops will include such topics as Advertising; Inventory Control and Bar Coding; and Map dealership and its role in the future: Map dealership as it serves the community today; How map dealers cope with changes of electronic mapping; Steps to participate in coming changes brought about by computerization.

For more information about the convention's program write: Norman Strasma, Executive Secretary, P.O. Box 1789, Kankakee, IL 60901.

### IGIS CALL FOR PAPERS

November 15-18, Arlington, VA. The Association of American Geographers is convening the International Geographic Information Systems (IGIS) Symposium "The Research Agenda". For information on the IGIS Symposium write: E.H. Pechan and Associates, Inc., 5537 Hempstead Way, Springfield, VA 22151, ATTN: IGIS '87.

### MAPPING & GEOGRAPHIC INFO SYSTEMS

November 9-12, San Diego, CA. The National Computer Graphics Association is sponsoring an exposition and conference focusing on hardware, software and systems for AM/FM applications, GIS, energy mapping, surface modeling, and the impact of NAD'83. For more information contact the NCGA, 2722 Merrilee Drive, Suite 200, Fairfax, VA 22031.

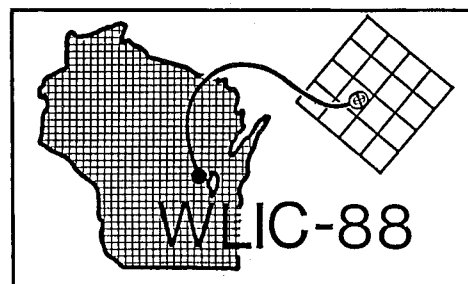
### LATE ARRIVING NEWS

#### NGS WORKSHOP

September 10-12, Chicago, IL. The Southern Lake Michigan Section of ACSM is sponsoring a three-day workshop on surveying instrumentation and coordinate computation. See the attached registration form for more information.

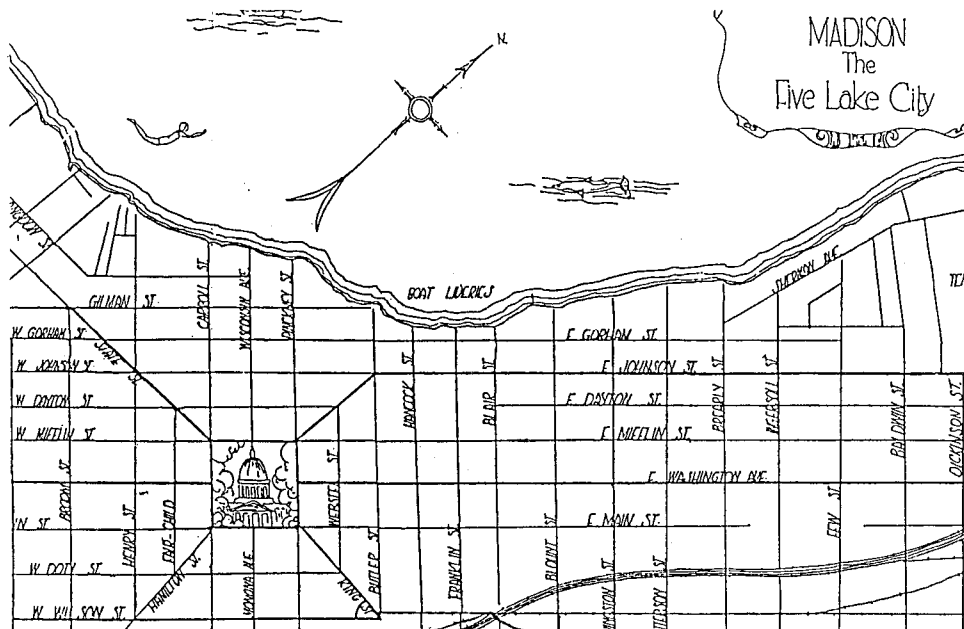
### WLIC EDUCATIONAL CONFERENCE

February 25-26, 1988, Oshkosh, WI. The Wisconsin Land Information Coalition is planning its first conference, "Wisconsin Land Records Modernization: Focus on Implementation". Co-sponsors currently include AM/FM Wisconsin Chapter, ACSM Southern Lake Michigan Section, ASPRS Western Great Lakes Region, and WisURISA. Program coordinators are contacting other potential sponsors. For more information contact Bill Nantell, Donohue Intelligraphics, 600 Larry Court, Waukesha, WI 53186, phone 414/784-9200.



## MAP CURIOSITY — NAME THOSE STREETS

We all know (don't we?) that Wisconsin's capital street pattern is laid out like that of our National's capitol. There's something else quite significant about these streets. What is it? (Hint: It has something to do with a current celebration.)



Answer: City planners gave the streets surrounding the capitol the names of the signers of the Constitution. You can think about the Constitution's 200th Anniversary as you navigate all those one-way streets.



## POINTS AND LINES

### GREAT LAKES FROM SPACE

The UW-Madison Environmental Remote Sensing Center supplied National Geographic with false color images of the Great Lakes from satellite data for a recent feature article. The impressive, fold-out map shows the turbidity of the Lakes. An inset map focuses on the eutrophication process in Green Bay. The article "The Great Lakes Troubled Waters" appeared in the July issue.

### GEODETIC ADVISOR

NOAA's National Geodetic Survey has established a program of State Advisors. D. David Moyer is the Wisconsin Geodetic Advisor. His address is 427 Lorch Street, Room 320, UW, Madison, WI 53706, phone 608/263-6250.

### DATUM SHIFT

The National Geodetic Survey issued a press release about the new '83 datum which explained how latitude and longitude coordinates would change. Well, local newspapers took the story and made it more exciting by saying that famous landmarks had actually moved. Your Editor spent 15 minutes talking to a local reporter who really didn't want to listen to what the datum shift actually meant. Not good copy. So the article appeared the next morning stating that the Capitol had been moved 32.2 feet to the west. Never let facts get in the way of a good story!

### GPS IN WISCONSIN

Aero-Metric Engineering, Inc. of Sheboygan has purchased a Global Positioning Satellite (GPS) surveying system.

### LANGLADE SOILS MAP ERROR

Steven Payne, state soil scientist, informed us of a map error in the recently published Langlade County Soil Survey. Symbol Ly should be Sy.

### W.G.S. CORRECTIONS

We mistakenly listed the Dane County bedrock map as available in our April issue (see p. 5). It is in work.

The Groundwater Susceptibility Map described on p. 13 of the April issue mentioned the use of digital information from satellite maps. The word "satellite" was used to mean separate, bordering maps and was not meant to refer to remote sensing. We regret the confusion.

### OCONTO COUNTY CARTOGRAPHER

Mark Kolb is Oconto County's first cartographer/assistant zoning administrator. His duties include cadastral mapping, zoning mapping, subdivision review, and starting an outdoor recreation map. (He's purchased a small farm just a half mile from your Editor's parents.) Contact Mark at the Office of Zoning Administrator, Courthouse, 300 Washington Street, Oconto, WI 54153; phone 414/834-5322.

### REGISTER OF DEEDS LEGISLATION

There are several bills threading their ways through the state legislature:

- Senate Bill 91 (changes the costs of copies of records of the register of deeds) passed on May 12, and is in the Assembly's Urban & Local Affairs Committee.
- Senate Joint Resolution 3 (county officer selection [see the April Bulletin]) No action taken.
- Assembly Joint Resolution 13 (changes terms of various officials including term of register of deeds) No action taken.
- Assembly Bill 467 (certain documents filed with the register of deeds must include a legal description of the land) No action taken.

You can check on the status of these bills by calling the Legislative Reference Bureau at 608/266-0341.

### AAA

Last year, AAA published more than 37 million sheet maps, 231 million Triptik pages, and 600,000 road atlases. Those staggering numbers make AAA one of the largest map-makers in the world.

AAA tailors its maps to the needs of its members. Map symbols are keyed to TourBooks. AAA issues special detour and construction maps twice a week to its travel counselors who then update the maps requested by a member. These up-to-date, detailed maps are only available to AAA members.

### WI-MN SURVEYORS GO TO RENO

The Minnesota Land Surveyors Association is arranging a travel package to the ACSM/ASPRS fall conference in Reno, NV. Flights will depart from Milwaukee and Minneapolis. Contact Terry Nelson, Minnesota Blueprints, 2001 24th Street, Minneapolis, MN 55404, phone 1-800-328-5042.

### SORSA

The Spatially-Oriented Referencing Systems Association (SORSA) is a small, non-profit international group with the following aims:

1. To promote the application of spatial referencing systems in general and of segment-oriented referencing systems in particular;
2. To facilitate communication, disseminate experience and organize efficient cooperation among organizations and professionals in the field;
3. To promote the development of spatial referencing, retrieval and analysis;
4. To encourage the transfer of relevant standards and technology to developing countries.

Individual membership is \$25. For more information, write: SORSA, P.O. Box 3825, Stn. "C", Ottawa, Ontario, Canada K1Y 4M5.

### CHALLENGER POINT

"Challenger Point will continually remind Americans of the Challenger astronauts and the ultimate sacrifice they made to further the human conquest of space," Interior Secretary Hodel said in endorsing the U.S. Board on Geographic Names recommendation to designate the previously unnamed summit as a memorial to the shuttle astronauts. Challenger Point is a 14,081 foot summit on Kit Carson Mountain in the Sangre de Cristo range in south-central Colorado. Challenger Point is a well-defined summit that appears to be "piggy-backed" onto Kit Carson Mountain just as the space shuttle Challenger was to its main booster rocket.

### AM/FM SCHOLARSHIP

AM/FM International is offering a \$4,000 scholarship to a full-time student in a mapping sciences degree program. For more information contact Hardy Mehsner, Wisconsin Gas Company, 626 E. Wisconsin Ave., Milwaukee, WI 53202 or Jim Clapp, Center for Land Information Studies, 1042 WARF Building, Madison, WI 53705.

### SCO DISCLAIMER

Mention of any event, product, or publication is not an endorsement by the State Cartographer's Office. Information is provided as a readership service only.

## U.S.G.S. AIR PHOTO PRICES

On July 1st, the U.S. Geological Survey brought its aerial photographic prices in alignment with similar products available from the U.S. Department of Agriculture. The new prices reflect the Survey's reproduction and distribution costs. This adjustment is the first since 1981.

The following prices are for only those products sold by both USGS and USDA:

### BLACK AND WHITE

<u>Size &amp; Type</u> (approx. inches)	<u>Old Prices</u>	<u>New Prices</u>
9 x 9 paper print	\$ 5.00	\$ 6.00
10 x 10 internegative	\$ 8.00	\$ 8.00
10 x 10 diapositive	\$ 8.00	\$15.00
20 x 20 paper print	\$20.00	\$18.00
30 x 30 paper print	\$25.00	\$27.00
38 x 38 paper print	\$35.00	\$33.00

### COLOR

9 x 9 paper print	\$15.00	\$16.00
10 x 10 diapositive cut	\$25.00	\$24.00
10 x 10 roll film	\$12.50	\$12.00
20 x 20 paper print	\$35.00	\$45.00
30 x 30 paper print	\$50.00	\$58.00
38 x 38 paper print	\$70.00	\$65.00

More information is available from the following USGS offices: U.S. Geological Survey, National Cartographic Information Center, 507 National Center, Reston, VA 22092, 703/860-6045; U.S. Geological Survey, EROS Data Center, Sioux Falls, SD 57198, 605/594-6151.



### NEW MAPS

#### LAKE MICHIGAN MARINE MAPS

Reproduced from government charts. Separate pages for sections of the lake and all harbors. Not for navigation. 56 pages. \$9.50 plus Wisconsin sales tax. Clarkson Map Company (see below).

#### WISCONSIN TROUT STREAMS

County maps with class 1 and 2 trout streams in red. Index gives stream names, stream portion, and trout species. 60 pages. \$9.95 plus Wisconsin sales tax. (There is a \$2.50 shipping charge per order for their publications.) Clarkson Map Company, P.O. Box 208, Kaukauna, WI 54130-0208, phone 414/766-3000.

#### GREAT LAKES BATHYMETRIC CHARTS

New bathymetric charts of Lake Erie and Lake Ontario, the second and third in a series for the five Great Lakes are now available. The two charts are published by Ratko J. Ristic, Center for Great Lake Studies, and Jovana R. Ristic, American Geographical Society Collection, both at the University of Wisconsin-Milwaukee. They are printed in four colors at a 1:750,000-scale, with contour intervals of 30 feet. Four shades of blue depict different depths. Other information includes morphometric parameters, water levels, currents, water use and watershed land use, and a conversion table (feet to meters). They are printed on high quality 80 lb. paper. The first of the series, Lake Michigan, is also available for sale. All charts cost \$8.00 each and are shipped by tube at a cost of \$2.00 per entire order. To order send a check or money order payable to Jovanka J. Ristic at 3558 North Murray Avenue, Shorewood, WI 53211, phone 414/332-5392.

#### WISCONSIN COUNTY TOPO MAPS

The Wisconsin Geological Survey (WGS) received four new USGS 1:100,000-scale Wisconsin County Series Maps since our April report. The total number of Wisconsin counties for which the WGS has county topographical maps now stands at 47. The latest maps are: ASHLAND, BAYFIELD, ONEIDA and SHAWANO. ASHLAND, a split county, is printed on both sides, one side north, the other south. Please see the April 1987, January 1987, and October 1986 Bulletins for lists of the other available maps. You can purchase folded copies for \$4.00 from the Wisconsin Geological Survey, 3817 Mineral Point Road, Madison, WI 53705, phone 608/263-7389.

As we reported in April, the WGS has received reproducible negatives for all counties. Contact Mike Czechanski, WGS Cartographer, at the above address for information on using these negatives, phone 608/263-7393.

(continued next page)

## NEW MAPS, continued

### "JUST ADD WATER AND STEER"

That's Chartcrafters slogan for their new Mariner's Atlas Series. Atlases for Lakes Michigan, Erie, and Huron are available. Write to Chartcrafters, Publishers, P.O. Box 26136, Baltimore, MD 21210 for more information.

### RACINE COUNTY AND KENOSHA COUNTY MAP

Full-color. 1987. Scale 1 1/4" = 1 mile. \$4.00 folded, also available framed. UPS charges depend on shipping distance. Contact Milwaukee Map Service, 4519 W. North Ave., Milwaukee, WI 53208, phone 414/445-7361.

### GREEN BAY, WI

Street map including Allouez, Ashwaubenon, Bellevue, DePere, Howard (alias Duck Creek), and surrounding areas. 1987. Scale 1 1/2" = 1 mile. \$2.00. Green Bay Chamber of Commerce, 400 S. Washington Street, Green Bay, WI 54301, phone 414/437-8704.

### SOILS MAPS

The Wisconsin Geological Survey has published the following soils maps. These maps can be used for preliminary screenings of areas that are sensitive to the impact of normal land-use activities. All are two-color, 1:100,000-scale, 1987. Their sizes vary. Cost is \$2.00 each plus shipping and handling. Order from Map Sales, WG&NHS, 3817 Mineral Point Road, Madison, WI 53705, phone 608/263-7389.

Soils of Adams County and their ability to attenuate contaminants, L. Ward Good and F.W. Madison (Map 87-5)

Soils of Barron County and their ability to attenuate pollutants, A.W. Sutherland and F.W. Madison (Map 87-2)

Soils of Chippewa County and their ability to attenuate contaminants, A.W. Sutherland and F.W. Madison (Map 87-3)

Soils of Dunn County and their ability to attenuate contaminants, A.W. Sutherland and F.W. Madison (Map 87-4)

Soils of Portage County and their ability to attenuate contaminants, L. Ward Good and F.W. Madison (Map 87-8)

Soils of Wood County and their ability to attenuate contaminants, L. Ward Good and F.W. Madison (Map 87-6)

### ISLE ROYALE PARK MAP

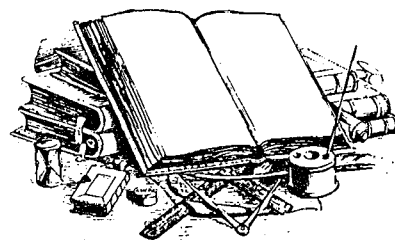
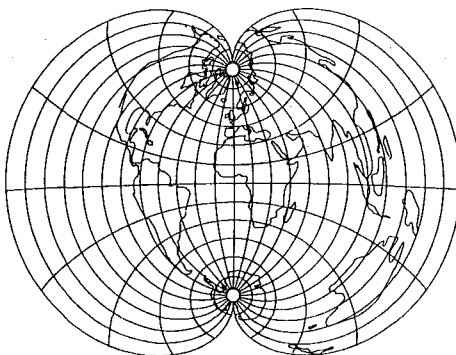
The USGS Mid-Continent Map Center is doing a final review of the 1:62,500-scale, color, topographic (40-foot contours with 20-foot supplementals) National Park Series map. They will then ship it to the Park Service for review. It then goes to USGS-Research in Reston for further processing. By the time all corrections and revisions are made it will probably be available next summer. Contact Jerry Combs for more information, 314/341-0896.

### LACROSSE, IRON RIVER DIGITAL TAPES

The January '87 Bulletin reported the status of Land Use/Land Cover digital tapes for the 1:250,000 series. The USGS is now contracting to digitize the two remaining maps. LaCrosse is scheduled to be in the first delivery order and would be available at the end of 1987. However, it's possible it could be bumped to the second delivery order. In that case it would appear the summer of 1988, along with Iron River. For current information, contact Dan Gallagher, USGS, National Mapping Division in Reston, VA at 703/648-4123.

### MAP-ORIENTED LANDSAT DATA

The Earth Observation Satellite Company (EOSAT) is offering a selection of new map-oriented (Geocoded) Landsat satellite digital data products. This map-oriented digital imagery will enable Geographic Information system (GIS) operators to easily use Landsat data with less preprocessing, resulting in high quality satellite mapping products. Geocoded products represent the most precise unenhanced Landsat Thematic Mapping (TM) data available. Customers can request data in any map projection supported by the U.S. Geological Survey General Cartographic Transformation Package, with any Earth ellipsoid model. To order Geocoded products, contact EOSAT Customer Services Division, 4300 Forbes Boulevard, Lanham, MD 20706, phone 1-800-344-9933.



### MINNESOTA BASE AND TOPO MAPS

Minnesota State Base Map (revised 1986). This USGS 1:500,000-scale map shows county and state boundaries, cities and towns as well as most smaller settlements, railroads, and township and range lines. Rivers, streams and other water features are depicted in blue; (highways are shown in red.) The base map also indicates by color patterns the state parks, national parks and monuments, wildlife refuges, national forests, Indian reservations, built-up areas, and military reservations. The map measures 49" x 56" and costs \$4.00. (address below)

Minnesota State Topographic Map (revised 1986). This is an overprint of the 1:500,000-scale base map described above. Brown contour lines, with a contour interval of 50 feet, have been added. It is also available for \$4.00. Both maps can be obtained by sending a check for the appropriate amount (add \$1.00 for postage and handling) payable to U.S. Geological Survey, Map Distribution, Federal Center, Bldg. 41, Box 25286, Denver, CO 80225.

### USGS INDEXES

The following indexes showing topographic and other map coverage available from the U.S. Geological Survey can be obtained free by writing USGS, Map Distribution at the above address:

Index to Digital Line Graphs (DLG) from 1:24,000-Scale Maps and Digital Elevation Model (DEM) Data, January 1, 1987;

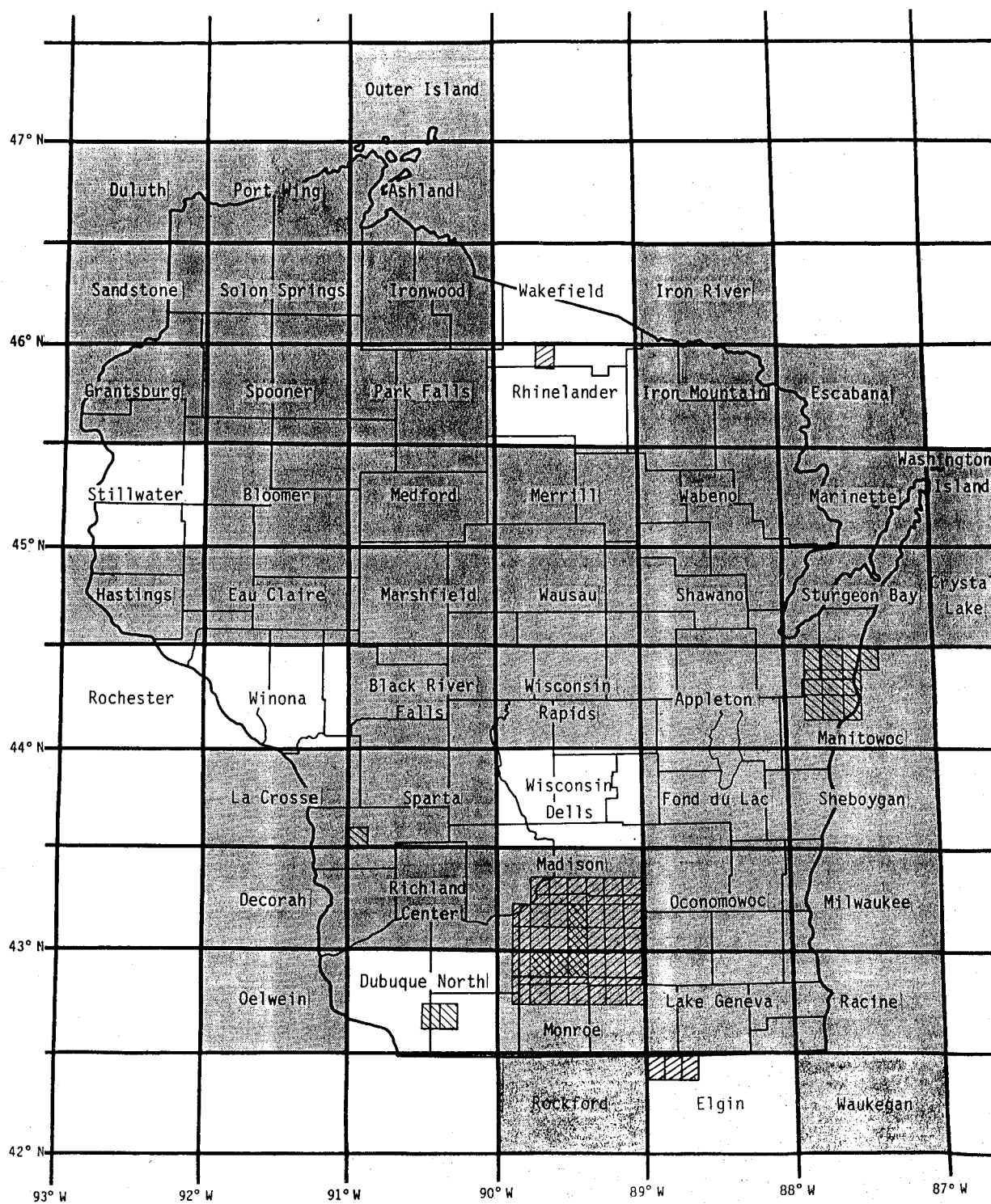
Index to USGS/DMA 1:50,000-Scale, 15-Minute Mapping, January 1, 1987;

Status and Progress of Topographic Mapping, October 1, 1986;  
Index to USGS Topographic Map Coverage of the National Park System, October 1, 1986;

Index to Intermediate-Scale Mapping Showing Quadrangle and County Formatted Map Availability, October 1, 1986;



Index to Land Use and Land Cover Information, October 1, 1986.

See page 13 (opposite) for map legend and title.

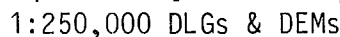


## U.S. Geological Survey and Defense Mapping Agency\*

LEGEND (this page)

-  1° x 2°, 1:250,000 Land Use/  
Land Cover Digital Data (DLGs)  
 1° x 1°, 1:250,000 DEMs

\*1° x 1° DEMs only (Digital Terrain Tapes).





## MEDIA OF INTEREST

### WLRC FINAL REPORT

The Wisconsin Land Records Committee has finished its two-year study and has issued its final report. "Modernizing Wisconsin's Land Records" explores the need to change Wisconsin's current land records systems. It explains the multipurpose concept of land information management. The history of the WLRC leads into the Committee's recommendations. The report details each component of the Wisconsin Land Information Program. (See article elsewhere in this issue.) To receive a copy of the 50+ page document, contact the Center for Land Information Studies, 1042 WARF Building, 610 Walnut Street, Madison, WI 53705, ATTN: WLRC Final Report; phone 608/262-9937.

### COUNTY PLAT BOOKS

The following 1987 Wisconsin County Land Atlas and Plat Books are now available since our last Bulletin: DODGE, DUNN, TREMPLEAU, and WAUSHARA. DUNN, TREMPLEAU, and WAUSHARA cost \$20.00; DODGE costs \$18.00. Postage and handling costs are \$3.00 for the first book and 50 cents for each additional book. Wisconsin residents pay a 5% sales tax. All books are shipped via UPS and require a street address for delivery. Send orders and checks to: Rockford Map Publishers, Inc., P.O. Box 6126, Rockford, IL 61125, phone (orders only) 800/435-0712 or for customer information 815/399-4614.

### MONROE AND JUNEAU COUNTY CATALOGS

The MONROE and JUNEAU County Cartographic Catalogs, the 44th and 45th in the series, are now available. Beginning with MONROE and JUNEAU, catalogs now include a SPOT page and expanded digital pages. Other new features, initiated with LINCOLN (43rd in the series) include an expanded geologic maps section, a library address section, more extensive footnotes and cross references, and a user's guide. County catalogs for BURNETT and WASHBURN are in work.

For your free copy of any available catalog, contact Brenda at 608/262-3065.

### WG&NS PUBLICATIONS

The Wisconsin Geological Survey has issued a new list of publications. For your free copy contact the Survey at 3817 Mineral Point Road, Madison, WI 53705; phone 608/262-1705.

### GLACIAL DRUMLIN TRAIL BROCHURE

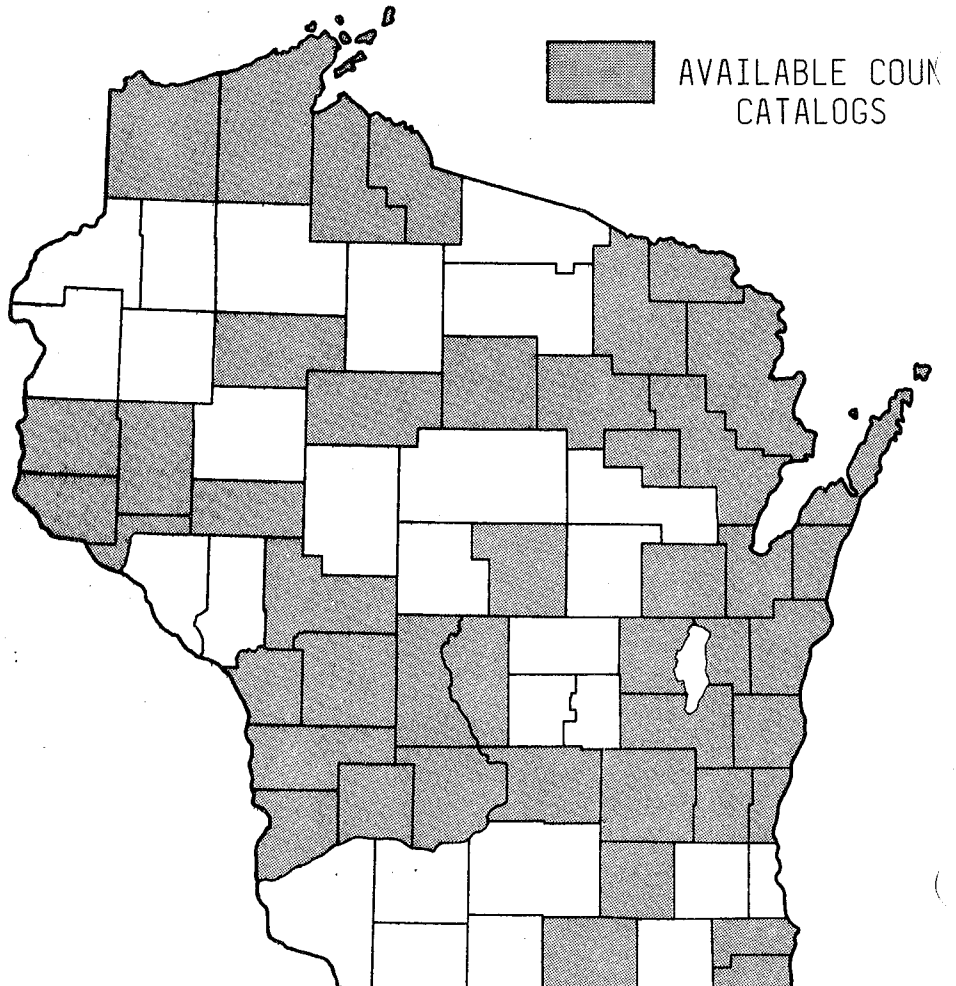
The Wisconsin Department of Natural Resources publishes a brochure that provides a map and important information on the Wisconsin State Glacial Drumlin Trail. The 47-mile hiking and biking trail (skiing and snowmobiling in the winter) runs along an abandoned railroad grade from Cottage Grove in DANE County to Waukesha in WAUKESHA County (three sections along the trail are closed). For more information and to obtain a free brochure, contact Robert Weiss, Lake Kegonsa State Park, 2405 Door Creek Road, Stoughton, WI 53589, phone 608/873-9695 or Paul Sondgren, Supt., Kettle Moraine State Forest, N846 W329, County Hwy "C", Delafield, WI 53018, phone 414/646-3025.

### IOWA TOPOGRAPHIC INDEX/CATALOG

The U.S. Geological Survey has issued a new index and companion catalog of topographic and related maps of Iowa available from the USGS. The Iowa Index to Topographic and Other Map Coverage and the Iowa Catalog of Topographic and Other Published Maps replace the old single-sheet indexes. They are the first of their kind for Iowa. Similar indexes and catalogs have been issued for 11 other states, among them Wisconsin. By late 1987, all 50 states should have this type of index.

The index/catalog set includes all topographic and related USGS maps of Iowa - planimetric, topographic, shaded relief and photo-image maps, and land-use and land-cover maps. The Iowa Catalog contains USGS order forms. Single copies of the Iowa Index/Catalog set are free from the U.S. Geological Survey, Map Distribution, Box 252386, Federal Center, Denver, CO 80225, phone 303/236-7477.

(continued next page)





## MEDIA, continued

### USGS MONTHLY PUBLICATIONS LIST

Readers who wish to be placed on a free subscription list of the monthly catalog, "New Publications of the U.S. Geological Survey", should send a request in writing to the U.S. Geological Survey, 582 National Center, Reston, VA 22092.

### USGS OPEN-FILE REPORTS

Large-Scale Mapping Guidelines, 1986, (Open-File Report 86-005) presents information to help local, state and federal agencies, private developers, corporations, and individuals in preparing specifications and acquiring large-scale maps for a variety of uses. It is available in paper for \$7.75 and on microfiche for \$4.00.

GSDRAW and GSMAP Version 3.0, by G.I. Selner, R.B. Taylor, and B.R. Johnson. These are prototype programs for the IBM PC or compatible microcomputers designed to assist compilation and publication of geologic maps and illustrations. To obtain the programs as paper copy (\$8.25) or on microfiche (\$4.00) order Open-File Report 86-0447-A. To order the programs on two 5 1/4 inch diskettes ask for Open-File Report 86-0447-B, available for \$12.00. (These reports supercede Open-File Report 86-42.)

To order any of the above reports specify the correct Open-File Report number and title. Send a check payable to the Department of the Interior-USGS for the exact amount of the Open-File Report(s) to the U.S. Geological Survey, Books and Open-File Reports Section, Federal Center, Bldg. 41, Box 25425, Denver, CO 80225, phone 303/236-7476.

### USGS CIRCULARS

Circulars present technical and non-technical information of widespread popular interest and are distributed free to the public. The U.S. Geological Survey publishes them to disseminate administrative information or important scientific information of an ephemeral nature. The following USGS Circulars are available from the previous address:

Map Projections Used for Large-Scale Quadrangles by the U.S. Geological Survey, (Circular 0982) 1986 by J.P. Snyder. This 9-page Circular supercedes Circular 57.

COGEOMAP: A New Era in Cooperative Geologic Mapping, (Circular 1003) 1987 by Jurergen Reinhardt and D.M. Miller. This 12-page report describes the concept and organization of the Federal-State Cooperative Geologic Mapping (COGEOMAP) program. It provides a history of the program and describes the projects that COGEOMAP

encompassed during federal fiscal years 1985 and 1986. A listing of projects in the program contains information on location, map scale, and topical content of the anticipated geological and geophysical map products. In addition, the Circular describes the process of starting and jointly funding projects, and speculates on future directions for the program as part of a national Geologic Mapping Program.

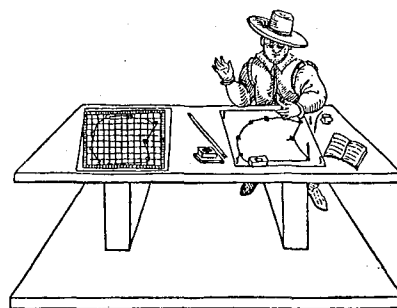
National Geologic Mapping Program: goals, objectives, and long-range plans, (Circular 1020) 1987 by the U.S. Geological Survey. In nontechnical terms, this 29-page booklet describes the goals, objectives, and long-range plans of the National Geologic Mapping Program that begins in fiscal year 1988. Circular 1020 discusses the role geologic maps play in basic and applied research. It also comments on the decline in mapping and map production. The booklet presents examples of areas where geologic mapping is needed, and outlines the suggested role of agencies that do geologic mapping.

### NCIC BROCHURES

As a National Cartographic Information Center (NCIC) affiliate, the State Cartographer's Office (SCO) acquires various U.S. Geological Survey brochures and information packets. Recently the SCO obtained copies of the following brochures and booklets: Earth Sciences and the Urban Environment; Finding Your Way with a Compass; General Interest Publications of the U.S. Geological Survey; Geologic Maps: Portraits of the Earth; Index of Earth Resources Observation Systems; Landforms of the United States; Manned Spacecraft Photographs & Major Metropolitan Area Photographs & Images; Map Information; National Cartographic Information Center (NCIC); The Quiet Revolution in Mapping; Topographic Maps; Types of Maps Published by Government Agencies.

The SCO also has the "US GeoData" information and map packet which contains the following information: US Geodata brochure; US GeoData Digital Cartographic and Geographic Data; US GeoData Digital Line Graphs from 1:100,000-scale Maps; Data User's Guide 2; US GeoData Names Information System; Data User's Guide 6; US GeoData Price List.

For free copies of any of these publications, contact Brenda at 608/262-3065.



### DIGITAL CARTOGRAPHIC DATA STANDARDS BIBLIOGRAPHY

Issues in Digital Cartographic Data Standards: Report #9, A Final Bibliography for Digital Cartographic Data Standards (1987) by Harold Moellering. The National Committee for Digital Cartographic Data Standards (NCDCDS) has been working since 1982 to develop cartographic data standards for the United States. This updated bibliography greatly expands a previous working version published as Committee Report #5. Containing more than 1000 references, the report organizes its information into five sections: General References, Cartographic Objects, Data Organization, Data Quality, and Cartographic Entities.

Report #9 will be forthcoming as a USGS Open-File Report. NCDCDS Reports 1-8 have been given Open-File report numbers (OF 87-301 through OF 87-308) but as of this writing are not yet available from the USGS.

For more information contact Prof. Moellering at 158 Derby Hall, Ohio State University, Columbus, OH 43210-1318.

Check for prices and availability with the U.S. Geological Survey, Books and Open-File Reports, Federal Center, Bldg. 41, Box 25425, Denver, CO 80225, phone 303/236-7476.

### GEODETIC GLOSSARY

The National Oceanic and Atmospheric Administration's National Geodetic Survey (NGS) has published a new Geodetic Glossary, replacing the U.S. Coast and Geodetic Survey's Special Publication 242. The new 274-page glossary contains 5000 definitions, a six-fold increase over its predecessor. In addition to strictly geodetic terms, the glossary includes related material in geophysics, space science, mathematics, astronomy, photogrammetry, surveying, computer science, and land management.

To order the Geodetic Glossary, send a check or money order for \$13.00 payable to NOAA, National Geodetic Survey to the National Geodetic Information Branch, N/CG17x2, Rockwall Bldg., Rm. 14, National Geodetic Survey, NOAA, Rockville, MD 20852, phone 301/443-8316.

(continued next page)

## MEDIA, continued

### CALCULATOR SOFTWARE FOR NAD 83 COMPUTATIONS

NOAA's National Geodetic Survey (NGS) provides software programs that perform horizontal geodetic computations on the North American Datum of 1983 (NAD 83). These programs were designed to be used with the Hewlett Packard 41CV programmable calculator. Each program is produced on a magnetic strip and includes documentation with step-by-step instructions, a listing of the machine code, and a sample problem with solution. For a list of available programs, call the NGS Information Branch, 301/443-8631 (address above).

### NOAA CARTOGRAPHIC SOFTWARE PACKAGE

The National Oceanic and Atmospheric Administration's Charting Research and Development Laboratory has developed a computer program which calculates transformations between any two of the following projections. The program contains separate parameter lists for computing on either the NAD 27 or the NAD 83 datum. This software package is written in FORTRAN 77 and performs the computations on the following map projections:

Albers Conical Equal-Area  
Azimuthal Equidistant  
Equidistant Conic  
Equirectangular  
General Vertical Near-Side  
Perspective  
Gnomonic  
Lambert Azimuthal Equal-Area  
Lambert Conformal Conic  
Mercator  
Miller Cylindrical  
Oblique Mercator (Hotline)  
Orthographic  
Polar Stereographic  
Polyconic  
Sinusoidal  
State Plane  
Stereographic  
Transverse Mercator  
University Transverse Mercator  
Van der Grinten I

The source code for this software is available on nine-track tape at 1600 bpi density in ASCII format. The software package costs \$200 and can be ordered by sending a check payable (prepayment required) to NOAA, National Geodetic Survey: National Geodetic Information Branch, N/CG174, Rockwall Bldg., Rm. 24, National Geodetic Survey, NOAA, Rockville, MD 20852, phone 301/443-8631.

### MICRO DLG

This new software will display and manipulate the USGS 1:100,000 digital census data in a microcomputer. Another software package, MapaGraph, will enable a user to interactively digitize other map files onto the DLG base maps. Contact GeoGraphics, 1318 Alms Drive, Champaign, IL 61820 for more information.

### GUIDE TO CENSUS CONTACTS

1987 Census Catalog and Guide. The Census Bureau's catalog/guide lists all 1300 State Data Center organizations, 1500 depository libraries, and many other contacts to help people locate the specialists who can answer their questions. The 1987 edition, which is expected to be available in August, will include for the first time an extensive list of contacts for statistics from other federal agencies. The catalog/guide also describes the full range of Census Bureau data products and program areas. The price is reduced to \$21.00. For further information contact John McCall at 301/763-1584. The catalog/guide can be ordered from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, phone (GPO ordering desk) 202/783-3238.

### INTERNATIONAL REMOTE SENSING JOURNAL

Geocarto International is a professional journal serving the international scientific and user community in the fields of remote sensing, geoscience and cartography. The quarterly (March, June, September, and December) journal aims to: promote multi-disciplinary research in, and applications of, remote sensing; enhance international exchange of information and developments in remote sensing; foster interest in and understanding of remote sensing technology; and to encourage timely publication of papers and research results in the field. The journal, published in English, features color and black-and-white images, photos, and maps and diagrams. The annual subscription rates are: \$30.00 (surface mail) or \$40.00 (air mail) for individuals; \$60.00 (surface) or \$70.00 (air) for institutions. Send all subscription orders, correspondence and manuscripts to: Geocarto International Centre, G.P.O. Box 4122, Hong Kong.

### DIGITAL MAP DATA BASES

Digital Map Data Bases: Economics and User Experiences in North America is the third report in a series on the community benefits of automated mapping and infrastructure management projects. Presenting actual user experiences from 16 different municipal organizations and utilities, the book encompasses over 90 years of direct project experience. The 150-page bound report includes a section for each Geographic Information System (GIS) project which covers the following subjects: organization description, project scope and background, applications, costs and benefits, future plans, other users, and organizational impact. To order a copy send a check for \$25.00 to Deloitte Haskins and Sells, AM/FM Service Group, 1560 Broadway, Suite 1800, Denver, CO 80202-5151.

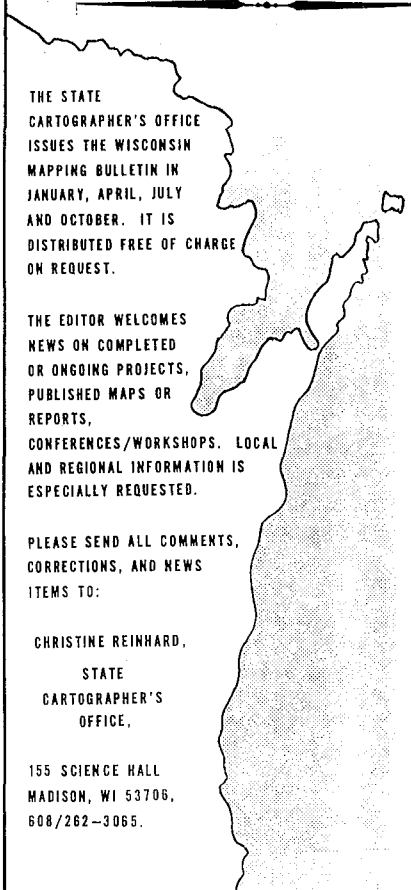
### GEODISC

Geovision, Inc.'s GEODiscs provide instant access to full-color maps on Compact Disc. Using the large storage capacity of Compact Disc Read Only Memory (CD-ROM), each GEODisc has a 550 megabyte information capacity, which is roughly equivalent to that of 1500 floppy disks. Geovision's GEODisc series includes a state series and a metropolitan series. The former consists of a GEODisc for each state based on USGS and other geographic data bases at a 1:100,000-scale. Files comprise roads, railroads, utilities, place names, county boundaries, contours, hydrography, and hypsography.

Using Geovision's applications program "On the World", users can zoom in to fill their PC screen with an area of about 1000' by 800'. The price is \$1500 or more depending on the state.

For the metropolitan series Geovision plans to produce maps of fifty to sixty metropolitan areas, based on the USGS 1:24,000-scale series and other source material. Priority and sequence in this series will depend on customer interest and need. (Price to be determined.)

For more information on what is available in the GEODisc series contact GEOVISION, Inc., Gregory A. Mohl, Suite One, 270 Technology Park/Atlanta, Norcross, GA 30092, phone 404/448-8224.



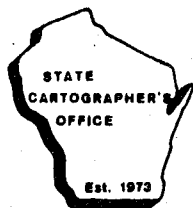
THE STATE  
CARTOGRAPHER'S OFFICE  
ISSUES THE WISCONSIN  
MAPPING BULLETIN IN  
JANUARY, APRIL, JULY  
AND OCTOBER. IT IS  
DISTRIBUTED FREE OF CHARGE  
ON REQUEST.

THE EDITOR WELCOMES  
NEWS ON COMPLETED  
OR ONGOING PROJECTS,  
PUBLISHED MAPS OR  
REPORTS,  
CONFERENCES/WORKSHOPS. LOCAL  
AND REGIONAL INFORMATION IS  
ESPECIALLY REQUESTED.

PLEASE SEND ALL COMMENTS,  
CORRECTIONS, AND NEWS  
ITEMS TO:

CHRISTINE REINHARD,  
STATE  
CARTOGRAPHER'S  
OFFICE.

155 SCIENCE HALL  
MADISON, WI 53706.  
608/262-3065.



STATE CARTOGRAPHER'S OFFICE  
144 Science Hall  
University of Wisconsin  
Madison, WI 53706  
608-262-3065

July 1987

Dear Land Information Producer and/or User:

The State Interdepartmental Geographic Data Sharing Group would like to develop a proposal to fund an inventory of cartographic/geographic digital data. Currently there is no centralized referral service available to determine what public or private computerized geodata is available in the state. This brief questionnaire will help us assess the type and quantity of data available so that we can produce a feasible proposal. We are not interested in details at this time.

The comprehensive inventory which we hope to distribute later will be based on the work of the Classification and Standards Subcommittee of the Wisconsin Land Records Committee. The State Cartographer's Office will maintain the file of resulting information for easy accessibility.

Please answer the attached questions. (A sample response is on the back.) If you aren't the correct contact, please direct this form to the appropriate person. IF YOU HAVE NO DIGITAL GEODATA, PLEASE INDICATE THAT FACT AND RETURN THE FORM. Otherwise we will probably write or call you again to clarify our statistics.

We've designed the questionnaire to be simple to fill out and return. All you need to do is fold as indicated, seal, and attach a stamp. We'd like your reply within two weeks.

The Wisconsin Mapping Bulletin will report on the status of the proposal in a later issue. Thank you for your efforts.

Cordially,

Christine Reinhard  
Assistant State Cartographer

CR:blh

# GEOGRAPHIC DATA SHARING QUESTIONNAIRE

JULY 1987

1. Your agency or company: Utility Company

Any Where , Wise

2. Name of contact person: \_\_\_\_\_  
title: \_\_\_\_\_  
phone: \_\_\_\_\_

3. Availability of locationally-referenced computerized data:

☒ Yes, we have data and are willing to make it available to others.

☐ We have data but are not interested in making it available to others.

☐ No, we don't have data but would like to obtain it. (Please stop and return this form. Thank you.)

4. Which of the following types of data do you have? Check all that apply.

## CATEGORY

## GEOGRAPHIC AREA COVERED

### BASE MAP

- ☒ horizontal and vertical control  
☐ topographic elevation contours  
☐ other \_\_\_\_\_

based on USGS Quads

### ENVIRONMENTAL

- ☐ soils  
☐ geology  
☐ vegetation  
☐ landform  
☐ hydrography  
☒ stream channels only  
☐ slope  
☐ other \_\_\_\_\_

### ENGINEERING

- ☒ roadways  
☐ centerlines only  
☒ utilities  
☐ infrastructure  
☒ lay-outs (lines for water, sewer, cable TV, gas, hydrants, sidewalks, etc.)  
☐ other \_\_\_\_\_

Service territory

Service territory

Service territory

### PLAN PROFILE DRAWINGS

- ☒ engineering design drawings  
☐ other \_\_\_\_\_

Service territory

### PARCEL MAPS

- ☒ land cadastre drawings  
☐ other \_\_\_\_\_

for subdivisions

### ADMINISTRATIVE BOUNDARY DATA

- ☒ enumeration districts  
☐ blocks  
☐ school districts  
☐ other \_\_\_\_\_

### OTHER

5. Comments: This data is being compiled over time and my  
not be available for entire service territory

Thank you.

# GEOGRAPHIC DATA SHARING QUESTIONNAIRE

JULY 1987

1. Your agency or company: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Name of contact person: \_\_\_\_\_  
title: \_\_\_\_\_  
phone: \_\_\_\_\_

3. Availability of locationally-referenced computerized data:
- \_\_\_\_\_ Yes, we have data and are willing to make it available to others.
- \_\_\_\_\_ We have data but are not interested in making it available to others.
- \_\_\_\_\_ No, we don't have data but would like to obtain it. (Please stop and return this form. Thank you.)

4. Which of the following types of data do you have? Check all that apply.

CATEGORY

GEOGRAPHIC AREA COVERED

BASE MAP

- \_\_\_\_\_ horizontal and vertical control  
\_\_\_\_\_ topographic elevation contours  
\_\_\_\_\_ other \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

ENVIRONMENTAL

- \_\_\_\_\_ soils  
\_\_\_\_\_ geology  
\_\_\_\_\_ vegetation  
\_\_\_\_\_ landform  
\_\_\_\_\_ hydrography  
\_\_\_\_\_ stream channels only  
\_\_\_\_\_ slope  
\_\_\_\_\_ other \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

ENGINEERING

- \_\_\_\_\_ roadways  
\_\_\_\_\_ centerlines only  
\_\_\_\_\_ utilities  
\_\_\_\_\_ infrastructure  
\_\_\_\_\_ lay-outs (lines for water,  
sewer, cable TV, gas, hydrants,  
sidewalks, etc.)  
\_\_\_\_\_ other \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

PLAN PROFILE DRAWINGS

- \_\_\_\_\_ engineering design drawings  
\_\_\_\_\_ other \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

PARCEL MAPS

- \_\_\_\_\_ land cadastre drawings  
\_\_\_\_\_ other \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

ADMINISTRATIVE BOUNDARY DATA

- \_\_\_\_\_ enumeration districts  
\_\_\_\_\_ blocks  
\_\_\_\_\_ school districts  
\_\_\_\_\_ other \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

OTHER

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. Comments: \_\_\_\_\_  
\_\_\_\_\_

Thank you.

State Cartographer's Office  
155 Science Hall  
Madison, WI 53706

(fold)

Place  
Stamp  
Here

Geographic Data Sharing  
University of Wisconsin-Madison  
143 Science Hall  
Madison, WI 53706-1404



**SURVEYING INSTRUMENTATION  
AND  
COORDINATE COMPUTATION  
WORKSHOP**

September 10-12, 1987  
Chicago, Illinois

presented by  
NATIONAL GEODETIC SURVEY, NOS, NOAA

and  
sponsored by  
SOUTHERN LAKE MICHIGAN SECTION  
American Congress on Surveying and Mapping

This workshop will allow participants to enhance their knowledge of surveying as practiced or recommended by the National Geodetic Survey. The fundamentals and fine points of EDM, theodolites, and total stations will be taught in three half-day sessions. Coordinate computations will be covered in the remaining one and one-half day session. The computation sessions will consist of introduction and general topics, survey planning and reconnaissance, execution of survey, data reduction computations, coordinate computations, and adjustment of survey data. Other topics include NAD 83 and an explanation and demonstration of determining astronomical azimuth.

The Southern Lake Michigan Section of the American Congress on Surveying and Mapping is dedicated to furthering the education of anyone interested or associated with the surveying and mapping professions.

**Schedule:**

8:30 a.m. to Noon ----- Workshop Sessions  
Noon to 1:00 p.m. ----- Lunch (Th. & Fr. incl.)  
1:00 p.m. to 4:30 p.m. - Workshop Session

**Location:**

NORTH PARK VILLAGE  
5801 N. Pulaski Rd.  
Chicago, IL

Fee: \$100. Included in the fee are lunches, breaks, and all course materials including several publications by NGS & ACSM.

-----  
REGISTRATION FORM

Name \_\_\_\_\_  
Address \_\_\_\_\_  
Employer \_\_\_\_\_  
Phone \_\_\_\_\_

Registration: \$100.00 payable to: Southern Lake Michigan Section, ACSM.  
Return form to: Charles O'Connor, Bureau of Maps and Plats, Room 803 - City Hall, Chicago, IL 60602, phone 312/744-4996.