TOPO MAPPING COMMITTEE NEWS

On the afternoon of September 23rd, the Wisconsin Topographic Mapping Advisory Committee met to discuss future programs and funding for 1987. Items included a potential revision program for the 1:24,000-scale 7.5' quad series, the ten 1:100,000-scale county topographic maps that are now available in printed format (see New Maps), and the status of the National High-Altitude Photography (NHAP) II program in Wisconsin.

In regard to the 1:24,000 revision program, Chair Dr. Meredith Ostrom reported on figures he had requested from the USGS listing the number of 1:24,000 topo maps published in each decade up to the present. Some quads date back to the 1950's and the Committee is concerned with updating those older maps. Before initiating a new cooperatively funded revision program, the Committee will obtain more data and cost figures. We will include an update in the January Bulletin.

The Wisconsin Geological and Natural History Survey (WG&NHS), the lead agency in the state's cooperative mapping program with the USGS, has received the final printed versions of ten 1:100,000 county topo series maps and now has sets of production negatives for 50 counties. These county topo maps portray contours in feet; the USGS quadrangles (30 minute by 1 degree) at the same 1:100,000-scale portray contours in meters. The county maps are compatible with the 1:24,000-scale 7.5' quadrangle series mentioned above, and show most of the essential detail from that series. Total coverage of the state in the form of final printed versions is expected by June 1987.

The USGS says that NHAP II for Wisconsin is 70 percent complete. Like NHAP I, NHAP II will use black-and-white infrared film at the 1:80,000-scale and color infrared film at the 1:56,000-scale. As before, indexing will be keyed to the 7.5' topographic quadrangles. NHAP II, however, will differ from NHAP I in two principal ways. First, NHAP II will be flown when foliage is on the trees ("leaf-on"). Second, the federal agency administering the program is attempting to have entire states flown in the same year rather than over the three-year period characteristic of NHAP I.

The January 1987 Bulletin will include information on the program's status, print availability and cost.

MULTI-COUNTY AERIAL PHOTOGRAPHY

The Wisconsin Department of Natural Resources (DNR) has acquired aerial photography for BROWN, DANE, JEFFERSON, and WINNEBAGO Counties. Remote Sensing (continued on next page)
Specialists Limited and Aerometric Engineering, Inc. flew the photography in May, June, and July 1986 ("leaf-on") using the same format and specifications as the Unified Aerial Acquisition of 1978-79. The flight used black-and-white infrared film taken with a 6-inch focal lens. The original prints are at a scale of 1" = 166’ (1:20,000) and the coverage is overlapping (stereographic). Each 9” x 9” photo covers four township sections with its center corresponding to the center of the four sections. The DNR will use the photography to update Wetlands Inventory maps for the above counties.

The Department of Transportation (DOT) has not yet decided if it will produce 1’ = 400’ diazo enlargements, similar to those it had available for purchase from the 1978-79 flight. For more information about the photography contact: Steve Fix, Wisconsin Dept. of Natural Resources; 101 S. Webster, Box 7921, Madison, WI 53707, phone 608/266-0053.

THE LAW AND SECTION LINES

In April 1986, the legislature enacted a statute relating to adverse possession of real property which pertains to section lines:

SECTION 2.893.24 of the statutes is created to read: 893.24 Adverse possession; section lines. (1) A written instrument or judgment that declares the boundaries of real estate adversely possessed under s. 893.25, 893.26, 893.27 or 893.29 shall, by order of the court, be described by a retraceable description providing definite and unequivocal identification of the line or boundaries. The description shall contain data of dimensions sufficient to enable the description to be mapped and retraced and shall describe the land by metes and bounds commencing with a corner marked and established by the United States public land survey or a corner of the private claim.

(2) Occupation lines that the court declares to be property lines by adverse possession under s. 893.25, 893.26, 893.27 or 893.29 shall, by order of the court, be described by a retraceable description providing definite and unequivocal identification of the line or boundaries. The description shall contain data of dimensions sufficient to enable the description to be mapped and retraced and shall describe the land by metes and bounds commencing with a corner marked and established by the United States public land survey or a corner of the private claim.

NEW NMD OFFICER

Joel L. Morrison is the recently appointed assistant division chief for research at the U.S. Geological Survey's National Mapping Division in Reston, VA.

In his new position, Morrison will direct the division's research, experimentation and development activities in: cartographic and geographic investigations, new and improved instrumentation, field survey procedures and methods, photogrammetric methods, map design, automation of production procedures, and the application of space technology to mapping and related disciplines.

Before joining the USGS in 1983, Morrison was a professor of geography at the University of Wisconsin-Madison (1967-1983), where he also served as director of the UW Cartographic Laboratory (1973-1977) and chaired the Department of Geography (1977-1980). He also chaired the Committee on State Cartography (1977-1982). Prior to his current position, he was the senior scientific advisor for geography to the National Mapping Division's chief.

Morrison is president of the International Cartographic Association, a member of the board of directors of the International Union for Surveying and Mapping, a member of the U.S. National Committee for the International Geographical Union, and past-president (1981) of the American Congress on Surveying and Mapping. He also serves on the affirmative action committee of the Association of American Geographers.


With his wife Beverly, and their four children, Anne, Ashley, Anja, and Jane, Morrison lives in Reston, VA.
1990 CENSUS UPDATE:
LEGAL BOUNDARIES

In the July 1986 Bulletin we reported that the Census Bureau has begun dividing the entire nation into blocks. Bureau guidelines for this process discourage state and local participants from using legal boundaries as census tract, Block Numbering Areas, Block Groups, or block boundaries if these legal boundaries do not follow visible features.

As a result some participants in these small-area delineation programs concluded that the blocks for which the Bureau tabulates and presents data would not reflect legal boundaries.

The Bureau wishes to assure users and participants that their guidelines reflect efforts to simplify the data collection phase of the 1980 Census. Collection according to block boundaries will overcome difficulties which are not present when attempting to figure out the location of non-visible boundaries while canvassing an area.

The Bureau will use legal boundaries (provided in response to the Bureau's 1990 Boundary and Annexation Survey) as the boundaries of census blocks at the time of data tabulation. Thus legal boundaries will be shown on 1990 Census maps and there will be data for political units similar to those identified and presented in 1980 products.

Additional census block numbers will be necessary in order to establish legal boundaries as unique tabulation area boundaries. These will be created by adding alphabetic suffixes to the three-digit block numbers used for the collection phase of the Census. For example, if a January 1, 1990 city limit splits collection block number 702, that part of the block inside the city limit will be assigned tabulation block number 702A. That part of the collection block outside the city limit will be tabulation block 702B.

For more information about these plans, contact: Gavin Shaw, Geography Division, Bureau of the Census, Washington, DC 20233, phone 301/763-2364.

(source: Bureau of the Census, Data User News, July 1986)
WPSC DIGITAL MAPPING

by: Bruce D. Baikie

Wisconsin Public Service Corporation (WPSC), an investor-owned electric and gas utility, is just completing computerization of its 10,000 square mile service area.

The system maintaining the digital information is a WPSC developed system based on the IBM GFIS software. The WPSC software named FACILITIES SYSTEMS is designed to handle all automated mapping, land information management, utility facilities information management, and modeling analysis (see October 1985 Bulletin).

The digital land base in use was formed by digitization of U.S. Geological Survey (USGS) maps. The quadrangle maps were enlarged by an outside vendor to 1" = 500' before digitization. All geographic information (lakes, streams, roads, buildings, etc.) was included in the conversion process.

COORDINATE SYSTEM

Selection of a coordinate system on which to enter the USGS maps was the first concern prior to conversion. As with most systems, the location identification can be satisfied through the use of a grid coordinate. A grid can be superimposed over the geography of the required area and any location (point) can be defined as an X and Y value.

There are several standard grid systems that are designed specifically for geographic coordinates. Use of an accepted standard system has many advantages over a unique, arbitrary system. The primary advantage is that government agencies establish monuments (visible landmarks with known coordinates) to help control accuracy and limit errors. Two necessary requirements of a grid system for WPSC were:

1. The grid be large enough to cover the entire service territory as a single continuous grid.
2. The coordinates should be identified to the nearest data unit (foot, meter, decimeter, etc.)

Latitude/longitude is the most universal geographic grid system; however, these units are cumbersome to handle in computer format. Two other systems, the State Plane Coordinate system and the Universal Traverse Mercator (UTM) system are better adapted to automated usage. There is a separate state plane grid coordinate system for each state in the USA with a base unit expressed in feet. The UTM system is a world-wide system similar to the state plane coordinate system with basic units expressed in meters and with less precise accuracy over extreme distances. These coordinate systems project the spherical surface of the earth on a flat plane and impose an X, Y coordinate on the plane. With the state plane coordinate system, any point can be identified with a 15-digit number. One or more digits are used as a zone identifier, and the remaining are for the X and Y coordinates, seven characters for each. This system was selected for use at WPSC.

SOURCE MAPS

The selection of the land base map for digitization fell under two categories: 1, cost and 2, accuracy. These two factors turned out to be very closely related.

The USGS maps products were chosen due to their relative low cost and controlled accuracy. The price breakdown was:

1" = 2000' mylar USGS quads (7' series)
$70.00/quad x 250 quads = $17,500

1" = 500' mylar quad blow-ups
$270.00/quad x 250 quads = $67,500
Total $85,000

(continued on next page)
CONVERSION TIME

The total conversion time was broken down in person hours by land type. The entire 10,000 square mile conversion would require 22,505 person hours. The land type breakdown was:

- Urban: 19,927 hours
- Rural: 1,658 hours
- Sparse Rural: 920 hours
- Total: 22,505 hours

CONVERSION PROCESS

To encode the USGS map blow-ups, the operators used the Facilities Systems control menus for land data.

The registration of the maps began by conversion of the latitude/longitude coordinates of the USGS to Wisconsin State Plane X,Y coordinates. The Plane Coordinate Intersection Tables (2 1/2 minute) Wisconsin published by the U.S. Department of Commerce was used for this step.

The COM cards are provided to field personnel to use in their utility trucks or with a special hand-held viewer.

Anyone interested in the WPSC project or the digital land base is welcome to contact: Bruce D. Baikie, WPSC Development, Inc., 700 North Adams Street, P.O. Box 19001, Green Bay, WI 54307-9001, phone 414/433-4948.

MAPPING PAST CLIMATES

Using supercomputers, a sophisticated computer model, as well as extensive fossil and geological evidence, Institute for Environmental Studies (IES) scientists at the University of Wisconsin-Madison and colleagues elsewhere are piecing together a more sophisticated understanding of climate and climatic change.

John Kutzbach, a professor of meteorology and environmental studies at the UW, and other scientists have been using a computer model developed at the national Center for Atmospheric Research to simulate and to map climates as long ago as 18,000 years.

Kutzbach says the simulations are checked against extensive physical evidence such as pollen and marine-bed core samples unearthed by more than 40 scientists participating in the Cooperative Holocene Mapping Project (COHMAP).

At the recent annual meeting of the American Association for the Advancement of Science, he told scientists that the emerging picture of climate indicates, among other things, that cyclic changes in the orbit of the earth and the wobble and tilt of its axis not only pace the ice ages, as has been shown, but also significantly affect interglacial climates and tropical monsoons. The work of COHMAP shows both physically and quantitatively, just how these orbital changes produced significant changes in climate.

Accurate climate simulations may help scientists determine the potential consequences of human impacts on climate such as carbon dioxide-induced warming of the earth's atmosphere (the greenhouse effect).

"There are a lot of questions about how biological systems might react to even a slight warming of the climate," said Kutzbach. "Our models and the supporting physical evidence are a testbed not only for theories of past climate but also for how biological systems might change as a result of future climate change."

(Source: IES Newsletter, July 1986)
NEW MAPS

TACTILE APOSTLE ISLANDS CHART
Nautical Chart of the Apostle islands, 1983. The tactile chart, published by Sona Karentz Andrews, features: an outline map of the Apostle Islands in Lake Superior, youth depths; 2 compass roses; ferry crossings; buoy and radio beacon locations; longitude and latitude grids; and inset maps of harbors. The chart has a scale of 1 inch = 1 statute mile, measures 85 by 68 cm, and is kept it in large-type English and Braille. It is available for loan or for sale ($15.00) from the University of Minnesota, Department of Geography, 414 Social Science Building, 267 19th Avenue South, Minneapolis, MN 55455.

LAKE MICHIGAN DIVINE CHART
Lake Michigan Dive Chart: Principal Shipwrecks Located and Identified, 1985, by Paul W. Ackerman. The 18,000-scale map measures 82 x 55 cm, and shows depths by soundings and contours. It includes descriptive indexes to wreck sites and a list of wrecks not charted. Midwest Explorer's League publishes the chart which costs $6.00. For more information write to: Midwest Explorer's League, 3641 N. Marshfield Ave., Chicago, IL 60613.

OUTDOOR WISCONSIN MAP
Outdoor Wisconsin, by Dean Landers, 1986. This map, with its accompanying text and index, consolidates a wealth of information on recreation areas in Wisconsin. Among the items included in its key are: public fishing and hunting locations; public and private campgrounds; cross-country ski, snowmobiling, and cycling trails; downhill ski areas; golf courses; national state forests; waterfalls; rustic roads; and state trails.

EARTH'S SURFACE RELIEF MAPS
A three-sheet set of world maps, Relief of the Surface of the Earth, edited by J.R. Heftizler, provides highly accurate relief images of the Earth's surface. The maps are machine-produced from digital elevation data and include photographic, computer imaging, photography, and printing. Sheet I, Computer-Generated Shaded Relief, depicts relief using gray monochrome shading and a simulated sun angle of 20 degrees above the western horizon. Sheet II, Computer-Generated Color-Coded Shaded Relief, uses the hue, saturation, and intensity of colors to portray elevation or depth. Sheet III, Hemispheric Images, with the same hue, saturation, and intensity as Sheet II, shows simulated views of the Earth from space centered on 30° N and 135°; 30° S and 135°W; 30° N and 45°W; 30° S and 75° S; 30° N and 110°W; and 30° S and 15°W.

A set of the digital relief maps (three 36 x 46 sheets) costs $30.00 and will be shipped rolled. Prepayment is required and checks or money orders should be made payable to Commerce/NOAA/NGDC. Add $10.00 for non-U.S.A. orders. Inquiries and orders should be addressed to: National Geophysical Data Center, NOAA E/GC 3 FL, 325 Broadway, Boulder, CO 80303, phone 303/497-6336.
COMING EVENTS

WGLR, ASPRS & SLHS, ACSM FALL JOINT-MEETING
November 7, Wood Dale, IL (Elmhurst Country Club, 8560 Wood Dale Road). The theme of this fall's meeting of the American Society for Photogrammetry and Remote Sensing, Western Great Lakes Region, and the American Congress on Surveying and Mapping, Southern Lake Michigan Section will be Geographic Information Systems and Liability Issues in Mapping. Mr. Jerry W. Robinson, President, Automation Group Inc., Rosemont, IL, will deliver the keynote address; "Intelligent Infrastructure: The Opportunities". The evening will feature a social hour (cash bar), buffet, followed by the keynote address. The price for the buffet is $14.00 ($7.00 for ASPRS student members). To make banquet reservations contact Ms. Dee Gillespie, Department of Forestry and Natural Resources, Room 302, Purdue University, West Lafayette, IN 47907, phone 317/494-3599.

AM/FM MEETING
November 13, Milwaukee, WI. The local AM/FM (automated mapping/facilities management) group will host a cash bar and dinner with two speakers. David Iraniak of Donahue Intelligraphics will speak about current scanning methods. Tom Carlson of DIT Technical Services will report on their quadrangle scanning project. The event begins at 5:30 at the Brookfield Marriott on Moorland Road. Contact Errol Bos for dinner reservations, phone 414/784-9200. Additional meetings are scheduled for January 8th and March 12th.

SURVEYING SHORT COURSE
November 15-16 (Module II) and December 5-6 (Module III), Madison, WI. Paul R. Wolf and Alan P. Vonderhohe, Professor and Associate Professor of Civil and Environmental Engineering UW-Madison will offer a Continuing Education short course entitled "Modern Surveying Computational Methods". The course, designed to provide continuing education opportunities to practicing surveyors, will feature computational methods including matrix algebra, solution of equations, computer programming, and ultimately, the application of these procedures in adjusting surveying measurements by the method of least squares. It is the first course in a series planned by the University of Wisconsin-Madison. Fees for Module II and Module III are $80 and $120. Module I was offered October and November 1. For more information or to register contact Wendy Brotos at 608/262-1299.

WORKSHOP: MULTIPURPOSE CADASTRAL AND LAND RESOURCES
December 8-12, Madison, WI. The University of Wisconsin-Madison will host this week-long series featuring a series of presentations by top experts. The workshop is intended for federal, state, and local government officials and private professionals who have an interest in and responsibility for: the preparation, transfer, or use of maps and land records; the creation and maintenance of geodetic control; the modernization of the Public Land Survey System (PLSS); or the implementation of modern land systems for state and local government. The Workshop format will be designed to encourage interaction and discussion. A midweek field trip will provide a survey of actual ongoing applications of automated systems for a variety of uses in Wisconsin. A fee of $1000 includes all lectures; the primer; audio/visual set; bus transportation to field trip sites; selected meals; and a banquet dinner. For reservations or more information contact ASAP: Bob Merideth, Workshop Coordinator, Institute for Environmental Studies, UW-Madison, 1001 WAF Bldg., Madison, WI 53705, phone 608/262-3931 or 608/262-9937.

HANUKKAH/CHRISTMAS CONCERT & MAP EXHIBIT
December 9, Milwaukee, WI. The sixth year in a row, the Friends of the UW-Milwaukee Gold Meir Library will sponsor a special Hanukkah/Christmas concert and exhibit in the University of American Geographical Society (AGS) Collection in early December 1986. A reception and holiday party will follow the concert. Both are free and open to the public. To accompany the concert/reception, rare and beautiful maps of Israel and the Holy Land dating from the 16th, 17th, and 18th centuries will be exhibited with other AGS Collection treasures. The exhibit, entitled "Maps of the Holy Land" will run from December 9, 1986 to January 25, 1987. For more information call 414/963-6282.

IES SEMINAR PANEL DISCUSSION
December 12, Madison, WI. A panel discussion entitled "Natural Resource Planning and Management in Wisconsin: The Role of Land Information Systems Technology" will be the last in this series of Wisconsin Department of Natural Resources (DNR) and Institute of Environmental Studies, UW-Madison lectures and discussions. The panel will consist of: Janet Price of the DNR; Dr. Meredith Ostrom, State Coordinator, Institute for Environmental Studies, UW-Madison, 1001 WAF Bldg., Madison, WI 53705, phone 608/262-3931 or 608/262-9937.

LAND SURVEYING REFRESHER COURSE
January 20 - March 10, 1987 (Tuesdays, 8:00-9:50 p.m.). The course will provide an opportunity for interested participants to prepare for the Wisconsin Land Surveying registration examination. It will be presented over SEEN (the Statewide Extension Education Network) and available at 27 sites throughout Wisconsin. Course topics include the U.S. Public Land System, math, legal aspects, instrument adjustment, state plane coordinates, geometry, photogrammetry, route surveying and property descriptions. State exams will be held April 9 & 10, 1987, but fees must be in the hands of the Wisconsin Examining Board no later than February 6, 1987. For course enrollment information contact: Janice Frits, SEEN Programming, Engineering Professional Development, University of Wisconsin-Madison, 432 North Lake Street, Madison, WI 53706, phone 608/262-2026.

PECORA XI: CALL FOR PAPERS
May 5-7, 1987, Holiday Inn City Centre, Sioux Falls, SD. The 1987 Pecora XI Memorial Symposium, entitled "Satellite Land Remote Sensing - Current Programs and a Look to the Future" will focus on domestic and foreign remote sensing programs. Issues will include commercialization, sensor and satellite systems, and discipline applications in satellite remote sensing and related technology. To have a paper considered, a formal abstract must be submitted to the Chair of the Technical Program Committee by December 1, 1986. Abstracts should be less than 200 words and include the paper's title, author, and author's affiliation. A separate page with the author's (authors') complete mailing address(es) (include position and institution) and telephone number(s) must accompany the abstract. Indicate the full name of the senior author's name and whether the paper is intended as a poster session or oral presentation. Manuscripts to be published in the proceedings are due May 1, 1987. Mail abstracts to: Chair of Technical Program Committee, Pecora XI Symposium, EROS Data Center, Sioux Falls, SD 57198.

INTERNATIONAL CARTOGRAPHIC ASSOCIATION CONFERENCE, MEXICO
October 12-21, 1987, Morelia, Mexico. The theme of the 8th General Assembly of the International Cartographic Association and its 13th International Conference will be "Choices for Technological Changes in Cartographic Production". Authors are invited to submit papers based on the conference theme through their National Committees. For detailed information about paper, programs, registration fees, accommodations, excursions, social events, etc., request a copy of the Second Circular and other information by writing to: Dr. Manuel Gonzalez, Conference Director, XIII ICA Conference, Apdo. Postal 25-549, Mexico.
OVERSIZE COPY SERVICE
The WARF Duplicating Center has the only oversize xerographic copier on the UW-Madison campus. The machine makes copies as large as 2' x 3' on erasable shets, or 23" x 36" on white or color 70' vellum. The erasable vellum is ideal for reproducing high-quality graphics, blueprints, or lines made with non-reproducible pens or pencils. The 70' vellum comes in an array of colors suited for poster production. Prices per copy range from $.50 to $1.50 depending on the copy size. For more information contact Millie Smith, 263-9187.

1980 CENSUS MAPS INVENTORY COMPUTERIZED
Microcomputer diskette and microfiche inventories of 1980 Census maps are available from the Bureau of the Census. The inventories are most useful to data users who maintain a comprehensive collection of 1980 census maps for either an entire state or a group of states, or who frequently order maps for rural areas from the Bureau's Data Preparation Division. The inventories are organized by county or county equivalent with a data record for each map in the county. The microcomputer base, containing files of the 50 states, Puerto Rico, the District of Columbia, and territories, can be pur chased on six 9-sector, double-sided, double density MS DOS format diskettes for $120. The Bureau has produced State inventory listings from the data base and converted these to microfiche. The entire set of listings is contained on 29 microfiche and costs $22.50. Contact the Bureau of the Census, Customer Services at 301/763-4100 for further information.

(sources: Census Bureau, Data User News, July 1986)

SATELLITE DATA USERS GROUP
Ron Weinkauf of LaCrosse, WI has informed us that the Rocky Mountain Users Group of National Oceanic and Atmospheric Administration's (NOAA) polar-orbiting satellite data met in May 1986 at the National Geophysical Data Center in Boulder, CO. They met to form a users group of the above data, including Advanced Very High Resolution Radiometer (AVHRR) imagery. If interested you may contact: David Hastings, NOAA/NOS/NGDC National Geophysical Data Center, 325 Broadway (E/GCI), Boulder, CO 80303, phone 303/497-6729.

PUBLIC LANDS OFFICE MOVES
In late August 1986, the Board of Commissioners of Public Lands moved to their new office at the Tenney Building. The new address is 110 E. Main St., Suite 701, Madison, WI 53703. Their phone number remains 608/266-1370.

NGS PRICE INCREASE, PREPAYMENT POLICY
The National Oceanic and Atmospheric Administration (NOAA) user fee, based on U.S. Government policy, requires the National Geodetic Survey to charge users the marginal costs of disseminating geodetic products. Department of Commerce guidelines also require prepayment for information/products to non-federal organizations or individuals. The following prices have been in effect since March 1985:

Published quadrangle booklets - horizontal or vertical control:
1 thru 25 shts., p/bklt........ $ 6.50 ea.
26 thru 50 shts., p/bklt........ $13.00 ea.
51 thru 100 shts., p/bklt........ $26.00 ea.
101 or more shts., p/bklt........ $50.00 ea.
Complete county coverage - horizontal or vertical control:
Old format data not presently available in published quadrangle booklets........................................ $4.00 each.
Manuscript form - horizontal or vertical control:
Unadjusted project data or recently adjusted projects in process of being incorporated into quadrangle booklets:
1 thru 25 shts., p/proj........ $ 6.50 ea.
26 thru 50 shts., p/proj........ $13.00 ea.
51 thru 100 shts., p/proj........ $26.00 ea.
101 or more shts., p/proj........ $50.00 ea.
Geodetic diagrams (regardless of size or area covered)............................. $ 6.00 ea.
Geodetic mainframe software:
First program copied to 9-tract tape................................. $60.00 ea.
Each add'l program copied to same tape..................................... $10.00 ea.
Calculator programs for HP-41CV and HP-97.............................................. $10.00 ea.
Geoid height, Laplace corrections and gravity predictions:
First prediction............................................. $20.00 ea.
Add'l predictions on same order............................................. $ 5.00 ea.
The above prices include postage and handling costs.

FICCC CHARter RENEWED
On March 18, 1986, the Director of the Office of Management and Budget renewed the charter for the Federal Interagency Coordinating Committee on Digital Cartography (FICCC) through March 15, 1989. The primary purpose of rechartering the committee is to continue the process of coordinating the digital cartographic activities of federal agencies.

(sources: Federal Digital Cartography, FICCC Newsletter, Summer 1986)
YOUNG MAP ENTHUSIATS
State Cartographer Art Ziegler won some fans at Madison’s Mary Queen of Peace School with his October 7, 1986 presentation on map reading. Here’s one of 49 letters he received from his fourth grade pals:

October 8, 1986

Dear Mr. Ziegler,

I liked your speech it could pass for an essay I thought you were going to be a super man with no estimate in math but you are famous if you want to write this ill put it in a book. Well I can’t say you changed my hopes in a lot but it was nice well bye.

Your New buddy
Greg Henczick

IN MEMORY
Not all news is good news. Your Editor is sad to report the death of Richard "Dick" Corbett, age 60, of cancer on October 1, 1986. Dick was a charter member of the Southern Lake Michigan Section of the American Congress on Surveying and Mapping. He fought long and hard for the strengthening of sections as the true interdisciplinary meeting ground within the mapping community.

Born on June 19, 1926 in Chicago, Dick worked as a surveyor for Commonwealth Edison for 39 years, becoming the Senior Surveyor of its Transmission Engineering Dept. in 1982. Perhaps his most satisfying professional undertaking was coordinating the City of Chicago's 1st-order Geodetic Surveying Project in 1977.

His friends and colleagues will miss his intensity and wit. I'll miss hearing him say "How ya doin' kiddo; buy you a beer?"

WLRC NEWS
The Wisconsin Land Records Committee has issued its first report recommending the establishment of a land information program. A series of public information meetings will be held around the state. For more information call 608/262-6843.

STATE INDEX/CATALOG BOOKLETS
At long last, the Wisconsin Index to Topographic and Other Map Coverage and its companion publication the Wisconsin Catalog of Topographic and Other Published Maps are available from our Office. As we reported earlier (see April 1986 Bulletin) these will replace the outdated single-sheel indexes. The Wisconsin Index/Catalog is available from both the State Cartographer’s Office, Room 155 Science Hall, University of Wisconsin-Madison, Madison, WI 53706-1404, phone 608/262-3065 and the Mid-Continent Mapping Center, U.S. Geological Survey, 1400 Independence Road, Rolla, MO 65401, phone 314/341-0651.

C&GS CONTACTS
The Office of Charting and Geodetic Services (C&GS), in addition to standard nautical and aeronautical charts and related products, provides published and raw geodetic data for cartographic applications, engineering projects, land-use planning, and space and defense systems. The following is a list of informational subdivisions in C&GS published in September 1985:

Director, Office of C&GS 301/443-8204,
Aerial Photographs, Orders and Information 301/443-8601,
Aeronautical Chart Information 301/443-8770,
Geodetic Data 301/443-8631,
Geodetic Literature & Records, Archival Services 301/443-8316,
Geodetic Software 301/443-8623,
Litigation Services 301/436-5766,
Nautical and Aeronautical Chart Sales 301/436-6990,
Nautical Chart Information 301/443-8661,
Wreck and Obstruction Information 301/443-8752.

LAND SURVEYORS BOARD
As reported in last year’s October Bulletin, three land surveyors and two public members sit on the 20-member Board of Architects, Professional Engineers, Designers & Land Surveyors. These five members are responsible for licensing and regulating land surveyors in Wisconsin. Under statute S.15.405 (2) all Board members are appointed by the Governor. Members are the same as last year but some of their positions within the section have changed. The changes are as follows:

-Donald L. Paulson, Chair
-Land Surveyor
-Mary Hall Sullivan, Vice-Chair
-Public Member
-Philip E. Klein, Secretary
-Public Member
-Frederic H. Copp
-Land Surveyor
-Bernard L. Watermolen
-Land Surveyor

You may direct questions about board-related business to the Bureau of Design Professions in the Department of Regulation and Licensing at 608/266-1397.

PUBLICATIONS OF INTEREST
OUTAGAMIE AND COLUMBIA CATALOGS
Since our last county cartographic catalog announcement (October 1985 Bulletin), OUTAGAMIE and COLUMBIA catalogs, consisting of 97 and 120 pages respectively, have become available. They are the 40th and 41st in the series. Ready to go the print is JACKSON. MONROE and LINCOLN will soon follow.

MANITOWOC COUNTY 1872 PLAT INDEX
Manitowoc County 1872 Plat Map Index, 1985, by Robert A. Bjerke. This is a name index to E.M. Harper’s 1872 plat maps of the county, the earliest published plat. Bjerke appended a reproduction of the map to the index, one half township per page. The index is a sesquicentennial publication of the UW Center-Manitowoc County and the Manitowoc County Genealogical Society. The price is $6.00 plus 30¢ tax and $1.50 postage. Send your order to Mrs. Evelyne Keith, 1096 Atlanta Circle, Manitowoc, WI 54440.

LARGE-SCALE MAPPING GUIDELINES
Large-Scale Mapping Guidelines, 1986 is a U.S. Geological Survey Open-File Report (86-005). The purpose of the guide is 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. To order the publication, Open-File Report 86-005, send a check payable to the U.S. Geological Survey for $7.75 paper copy, $4.00 microfiche, to the U.S. Geological Survey, Books and Open-File Reports Section, Federal Center, Box 25425, Denver, CO 80225, phone 303/236-7476.

SPATIAL DATA HANDLING PROCEDURES
The Proceedings of the Second International Symposium on Spatial Data handling are now available. The 600-page volume contains nearly 50 technical articles. The Proceedings costs $40.00, which includes handling and shipping by surface transport. A $5 discount applies if a check is made out in U.S. dollars and payable through a U.S. bank, and encosed with the initial order. Shipment by air is available to points outside North America. 
America, and extra costs will be invoiced to customers. All orders should be addressed to: IGU Commission on Geographical Data Sensing and Processing, P.O. Box 571, Williamsville, NY 14221. Make checks payable to: IGU Comm. on Geog. Data Sensing & Processing.

PUBS OF THE NATIONAL GEODETIC SURVEY
Publications of the National Geodetic Survey, January 1986 is an 18-page listing of NOAA technical memorandums and reports, Charting and Geodetic Services publications, and geodesy publications of other organizations. A free copy of the listing may be obtained from the National Geodetic Information Center (NCGI7x2), Charting and Geodetic Services, NOS, NOAA, Rockville, MD 20852.

LAND TITLE SURVEY STANDARDS
After more than a year of joint effort, the American Congress on Surveying and Mapping (ACSM) and the American Land Title Association (ALTA) have updated the Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys initially developed by the two organizations in 1962.

Both ALTA and ACSM agreed that the 1962 standards had become technically and functionally obsolete. They recognized the need of the title industry for maximum physical information and the practical and marketing restraints affecting surveyors.

The updated standards will be available for purchase from ACSM, 210 Little Falls Street, Falls Church, VA 22046, phone 703/241-2446.

NEW GIS JOURNAL
A new journal, International Journal of Geographical Information Systems, will be launched in January 1987. The journal will contain papers on all aspects of geographical information systems (GIS's) supported by tutorial reviews, news and information, and book reviews. The journal will provide a forum for the exchange of ideas, techniques, approaches, and experiences in the rapidly growing field of geographic information systems.

For further details on this publication contact: Dr. K.E. Anderson, Chief, Eastern Mapping Center, U.S. Geological Survey, 567 National Center, Reston, VA 22092.

THE EARTH'S SURFACE IN DIGITAL RELIEF
The National Geophysical Data Center is offering a new worldwide elevation and bathymetric data base. They assembled digital land and seafloor elevations from several uniformly gridded data bases into a worldwide data set with a grid spacing of 5-minutes latitude by 5-minutes longitude. The Defense Mapping Agency supplied the land elevations for North America. The digital data is available on binary magnetic tape, ASCII magnetic tape, and floppy disc. Contact P. Sloss, NOAA E/GDC3, 325 Broadway, Boulder, CO 80303, phone 303/497-6119.

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:

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