

## CARTOGRAPHIC "STATE OF THE STATE" SESSIONS

The tremendous response to our January opinion survey prompted us to set up two cartographic information sessions:

LOCAL-ONLY SESSION Tuesday, May 18th 1:00 - 4:30 p.m. (Madison & within 1 hour driving radius) OUTSIDE-MADISON-AREA SESSION Friday, May 21st 1:00 - 4:30 p.m. (more than 1 hour drive)

Location: WISCONSIN MEMORIAL UNION, 800 Langdon Street, directly across Park Street from Science Hall (see map inside mailing cover); in the Reception Room on 4th floor; check "Today in the Union" posted at all entrances.

Fee: None, but we ask you to please attend the appropriate session (see above) because of the meeting room's size and coffee break arrangements.

Tours:	State Cartographer's Office (SCO)			
	U.W. Cartographic Lab	11:30 -	- 12:00 a.m.	(take 1 of 3)
	U.W. Map & Air Photo Library			(take 1 of 4)
	State Historical Society, Archives*			

All tours will start at the Reception Room, Memorial Union. \*only at 2:30

Agenda:	11:30 - 12:00 12:00 - 1:00	first tour period lunch (we suggest the Memorial Union Lakeshore Cafeteria.)
	1:00 - 2:15	status of mapping and aerial photography by the SCO, with
		a display of products
	2:15 - 2:30	refreshment break (provided by the SCO)
	2:30 - 3:15	second tour period
	3:30 - 3:45	SCO information services
	3:45 - 4:45	Wisconsin Geological Survey's mapping, services, & sales

continued

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Parking: SEE MAP INSIDE MAILING COVER

Metered parking is available in the Memorial Union lot and the lower level of H.C. White Bldg.; Lot 46 provides full or half-day parking.

Etc.: SCO staff will be available for directions. A packet of cartographic brochures, Madison area guides, and a University map will be available in the Reception Room at the Memorial Union.

For more information call (608) 262-3065.

### ORIGINAL SURVEY NOTES

The field notes of the original public land survey done between 1834 and 1866 in Wisconsin are available from the Board of Commissioners of Public Lands. The charge is 25¢ per page plus tax. Each page generally contains the running account of one section line. In ordering the notes, indicate the section, township, range and county and if you want both the exterior township lines notes and the interior notes. You should place the order in writing. They will include the invoice with the notes. Write to: Ms. Judy Keller, Administrative Assistant, State of Wisconsin, Board of Land Commissioners, P.O. Box 7857, 127 West Washington Avenue, Madison, WI 53707, (608) 266-1370.

Note: This is a new address for the Commissioners of Public Lands.



### COMPASS

COMPASS, the Council of Mapping, Photogrammetry and Surveying Societies, is the combined organizational committee which is pursuing the consolidation of the American Congress on Surveying and Mapping (ACSM) and American Society of Photogrammetry (ASP). As a brief background, the American Society of Photogrammetr; (ASP) was founded in 1934. It now has a total membership of over 8,000 and a 1982 budget of approximately \$850,000. The American Congress on Surveying and Mapping (ACSM) was founded in 1941. It now has a total membership of 10,750 and a 1982 budget of over \$1,000,000. About 1,200 members belong to both associations.

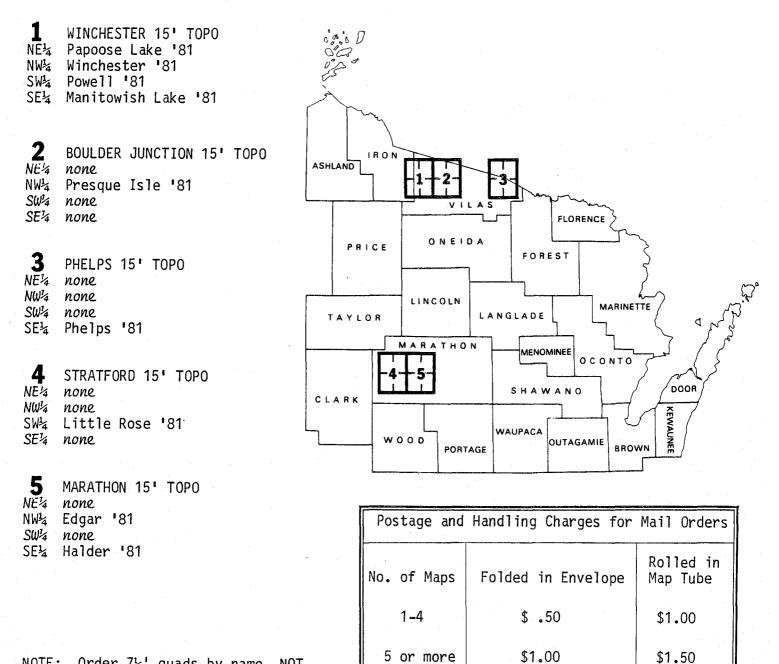
COMPASS has identified the following five reasons for consolidation:

- To establish a single national voice for the profession;
- 2. To enhance their professional image;
- To take advantage of benefits from single management;
- 4. To increase and improve their services to the public, to the profession, and to their members;
- 5. To improve relationships among their various disciplines.

A statement of affiliation was approved and signed on September 8, 1981. The final consolidation plan is scheduled for approval if agreed to by both organizations in September 1982. If you are interested in more information, write COMPASS, 210 Little Falls Street, Falls Church, Virgi 22046. The <u>Bulletin</u> will report on this consolidation.

## NEW PRODUCTION FROM U.S. GEOLOGICAL SURVEY

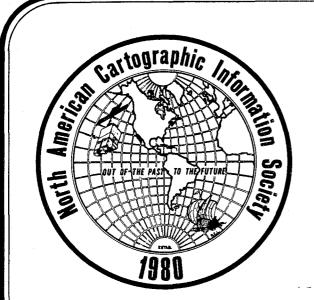
These newly published  $7\frac{1}{2}$ ' topographic quadrangle maps (1:24,000) are listed by their location on the superseded 15' topographic map of the area. They are available from the Wisconsin Geological Survey, 1815 University Ave., Madison, WI 53706 (608) 263-7389. Topographic quadrangles are \$2.00 each.



NOTE: Order 7½' quads by name, NOT by the index number used here for locational purposes.

Wisconsin Mapping Bulletin

Postage is 3rd class mail.



# NORTH AMERICAN CARTOGRAPHIC INFORMATION SOCIETY

## **1982 ANNUAL MEETING**

WASHINGTON, D.C. OCTOBER 21-24, 1982

## CALL FOR PAPERS

The goal of NACIS is to promote communication, coordination, and cooperation among the producers, disseminators, curators, and users of cartographic information. The NACIS Annual Meeting will include paper sessions, speakers, workshops, exhibits, and tours of cartographic facilities.

The NACIS Program Committee invites papers dealing with all aspects of cartographic information -- both past and present. Those interested in presenting a paper should submit a title and short informal summary sufficient for review no later than August 1, 1982.

FOR GENERAL INFORMATION CONTACT:

Donald Daidone Newman Library Virginia Tech Blacksburg, VA 24061 (703)-961-6308

#### FOR EXHIBITS CONTACT:

Daniel M. Garnett c4x42 National Ocean Survey 6001 Executive Blvd. Rockville, MD 20852 (301)-443-8881

SUBMIT PROPOSALS TO:

Barbara Hartman 7506 Bluff Spring Road Austin, TX 78744



## COMING EVENTS

PLANNING AND ZONING TO DIRECT AND MANAGE COMMUNITY GROWTH The Department of Engineering and Applied Science of the University of Wisconsin-Extension is offering a two-day short course on May 6 and 7, 1982 on Planning and Zoning to Direct and Manage Community Growth. The course will be held at the Wisconsin Center on the campus of UW-Madison. The fee is \$140.00

The program is structured for zoning administrators, planners, planning committee members, municipal administrators, building officials, elected public officials, and all citizens interested in the development of effective systems for land use control. Contact the Department of Engineering & Applied Science, University of Wisconsin-Extension, 432 North Lake Street, Madison, Wisconsin 53706; Telephone: (608) 262-1299 for program enrollment, (608) 263-4705 for program information.

#### SUMMER INSTITUTE IN CARTOGRAPHY

The Hermon Dunlap Smith Center for the History of Cartography, at the Newberry Library will offer a four-week Summer Institute in Cartography from June 7 to July 2, 1982. Modeled on the highly successful 1980 Institute, and under the leadership of Hermon Dunlap Smith Center Director David Buisseret, five faculty members will teach courses on the history and principles of cartography, the use and evaluation of maps. in historical research, historical map and atlas making, and antiquarian map librarianship.

The purpose of the Institute is to encourage the use of maps in teaching college and university humanities and social sciences. Twenty college teachers and ten college librarians from United States institutions will attend the sessions. Each will receive a \$1,500 stipend from the National Endowment for the Humanities to cover expenses. Faculty include David Buisseret, Robert W. Karrow and John Long (Newberry Library) and David Woodward (University of Wisconsin, Madison). Write to the Hermon Dunlap Smith Center, The Newberry Library, 60 West Walton Street, Chicago, IL 60610.

#### PRINCIPLES OF PHOTOGRAMMETRY

The University of Wisconsin-Extension Department of Engineering and Applied Science is offering a one-week short course, "Principles of Photogrammetry", in cooperation with the University of Wisconsin-Madison College of Engineering, June 21-25, 1982 at the Madison campus. The fee for the course is \$600.00 The course will provide intensive study of the basic principles of photogrammetry. Topics include aerial photographic principles and cameras, geometry of single and overlapping airphotos, tilted photos and rectification, orthophotography, analytical photogrammetry and stereoscopic plotting instruments. About one-half the course is spent in the laboratory to provide hands-on application of photogrammetric principles and working knowledge of the instruments.



#### COMING EVENTS, CONTINUED

The course is designed for individuals with an understanding of surveying and mapping principles who desire knowledge of the fundamentals of photogrammetry. Instructors are James P. Scherz and Alan P. Vonderohe, Department of Civil and Environmental Engineering, University of Wisconsin-Madison.

Complete information and enrollment forms may be obtained from Professor Robert P. Madding, Engineering & Applied Science, UW-Extension, 432 North Lake Street, Madison, WI 53706, (608) 262-2061.

#### AUTO-CARTO 5 & ISPRS COMMISSION IV

From August 22 - 28, 1982, the American Society of Photogrammetry (ASP) and the American Congress on Surveying and Mapping (ACSM) will jointly sponsor an international meeting for the Fifth International Symposium on Computer-Assisted Cartography and International Society for Photogrammetry and Remote Sensing Commission IV. The meeting will be held at the Hyatt Regency Crystal City, Crystal City, VA (at Washington National Airport). The theme of the joint symposium is ENVIRONMENTAL ASSESSMENT AND RESOURCE MANAGEMENT. Topics include:

Operational use of cartographic, photogrammetric and remotely sensed data considering the automated methods and techniques involved;

Accuracy of the information obtained and assessments made from these data and the resource allocations;

Generation of new techniques available for use in the 1980's.

An international exhibition of manufacturers and laboratories will be held concurrently with the joint symposium.

For more information contact: Jack Foreman, Director, Auto-Carto 5/ISPRS IV, 5709 Annamarie Court, Derwood, MD 20855, telephone: (202) 634-7324.

#### ENGINEERING APPLICATIONS OF SPACE AGE SURVEYING TECHNOLOGY

The American Society of Civil Engineers (ASCE) Surveying and Mapping Division in cooperation with the American Congress on Surveying and Map-

ping (ACSM) and the American Society of Photogrammetry (ASP) is sponsoring a specialty conference on modern surveying techniques, covering both remote and terrestrial surveying systems. Included will be satellite positioning (Doppler, Global Positioning System), photogrammetric positioning (photogeodesy, photobathymetry), inertial surveying systems, and total station systems.

The program will consist of a single session beginning the afternoon of Wednesday, June 16, and continuing all day Thursday, June 17, and the mornings of Friday and Saturday, June 18 and June 19, 1982. The program will be held at the Radisson Plaza Hotel, Nashville, TN. On June 20 a post-conference field trip is planned to the 1982 World's Fair in Knoxville. Registration prior to May 19, 1982 is \$190.00, after that date \$230.00.



For more information contact the American Society of Civil Engineers, 345 East 47th Street, New York, N.Y., 10017. For hotel reservations contact: Radisson Plaza Nashville Hotel, Two Commerce Place, Nashville, TN 37239, (615) 244-8200.

### DNR BENCHMARK INVENTORY RETRIEVAL PROGRAM

Several years ago the Wisconsin Dept. of Natural Resources (DNR) did a 2-mile leveling survey near Lake Koshkonong only to discover a benchmark already there. This prompted DNR's Bureau of Water Regulation & Zoning to develop an automated vertical control storage and retrieval system to prevent the "loss" of benchmark information. The DNR staff devised a software computer package that interfaces with the MISER program on the computer at the University's Madison Academic Computer Center (MACC). That computer stores all the information. DNR-Madison and its area and district offices have terminals connected to MACC.

The system can supply benchmark information by county, by township, range and section numbers, by establishing agency, or by the identification number. Basically only DNR benchmarks are now in the system. In encoding its own vertical control, DNR added a few Dept. of Transportation,

NEW

U.S. Geological Survey, and Southeastern Wis. Regional Planning Commission benchmarks. The Dept. of Transportation is considering encoding all its benchmark data. Ken Johnson, coordinator of the project, hopes D.O.T. and other agencies will participate in the benchmark inventory retrieval program.

The U.S. Geological Survey--Mid-Continent recently finished encoding its vertical control information in Kansas and was looking for another state to work with. Luckily DNR was ready with its system. USGS's system is essentially a wordprocessor and is not capable of inquiry and retrieval. USGS will provide a sample data base for DNR to design an interface program. All the USGS data will be delivered to DNR in tape form sometime in the early fall of 1983.

For more information contact Ken Johnson. Bureau of Water Regulation & Zoning, DNR, P.O. Box 7921, Madison, WI 53702.

ENTER BENCHMARK SELECTION REQUEST: CNTY EQ DANE" AND R EQ "RØ9E"

23 BENCHMARKS QUALIFY

NO: 924 LGC: NE1/4 OF NE1/4, SEC 22 TØ7N RØ9E COUNTY: DANE EST AGENCY: USGS ORDER: U ELEV: 924.38 DATUM: MSL EST: 07-00-1888 REF: LAKE MENDOTA B.M. 924 U.S.G.S IS A BRONZE TABLET MARKED "USGS 924" SET IN STONE WORK BETWEE N THE TAO PILLARS ON THE EAST SIDE OF MAIN ENTRANCE OF ENGINEERING BUILDING OF THE UNIVERSITY OF WISCONSIN. (ADJUSTED FOUR TENTHS TO 1929 DATUM)

NO: 689-A

LOC: HW1/4 OF SE1/4, SEC 12 T07N R09E COUNTY: DANE ORDER: U EST AGENCY: PSC ELEV: 852.24 DATUM: MSL EST: 08-20-1929 REF: LAKE MENDOTA 13. BLM. 649-A IS A SQUARE CUT IN TOP OF UPSTREAM END OF RIGHT WALL OF LOCKS FROM 13.6 LAKE MENCOTA TO LAKE MOUONA. (ADUSTED FOUR TENTHS TO 1929 DATUM)

40: 689-B LOC: HWI/4 OF SEI/4, SEC 12 TØ7N RØ9E COUNTY: DANE EST AGENCY: WPC ORDER: U EST AGENCY: WHC ORDER: U FLCV: 850.54 DATUM: MSL EST: Ø8-20-1929 REF: LAKE MENDOTA 13.6 3.M. 689-8 IS A BROHZE TABLET, MARKED PAILROAD COMMISSION OF WISCONSIN" SET I N CONCHETE POST LOCATED 154.4 FEET FROM SOUTHWEST CONNER OF DOWNSTREAM WALK, A ND 146.7 FEET FFOM NOPTHWEST UPSTREAM CORNER OF WALK OVER YAHARA RIVER AT BRID GE JUST BELOA THE DAM ON LAKE MENDOTA, AND 19.6 FEET NORTH OF NORTH EDGE OF CU PEING ON STREET GOING GVER BRIDGE. (ADJUSTED FOUR TENTHS TO 1929 DATUM)

NO: 689 LGC: SA1/4 OF SW1/4, SEC 15 TØ7N RØ9E COUNTY: DANE EST AGENCY: USCS ORDER: U ELEV: 886.75 LATUM: NSL EST: 02-00-0000 REF: LAKE MENDOTA 13.6 R.M.689 IS A WOTCH CUT IN STONE WORK ON EAST SIDE OF BUILDING PROPER AND NORTH OF ENTRANCE TO SCIENCE HALL OF THE UNIVERSITY OF WISCONSIN. (ADJUSTED FOUR TE WTHS TO 1929 DATUM)

NO: 689-E LOC: :W1/4 OF SE1/4, SEC 12 TØ7N RØ9E COUNTY: DANE EST AGENCY: DNR ORDER: A ELEV: 857.44 DATUM: MSL EST: 06-03-1980 REF: LAKE MENDOTA 13.6 EM 689-E IS 4 CHISELED SQUARE IN LEFT UPSTREAM WALKWAY OF BRIDGE ON SHERMAN AV E JUST UPSTREAM OF LAST POST OF GUARD FENCE ON BRIDGE. (ADJUSTED FOUR TENTHS TO 1929 DATUM)

CARTOGRAPHY; A CAREER GUIDE

The American Cartographic Association. a member organization of the American Congress on Surveying and Mapping (ACSM), recently prepared a 20-page brochure on careers in cartography. It covers what cartography is and how maps are made as well as what cartographers do, where they work and how to become one. One copy is available free if a self-addressed, stamped (37¢ please), legal-size envelope is enclosed with your request. Additional copies are \$1.00 each. Discounts for large volumes may be arranged with Judy Goldwag, Publications Manager. Write to ACSM, 210 Little Falls Street, Falls Church, VA 22046.

STRATEGY FOR SELECTING USGS LAND USE AND LAND COVER MAPS FOR PHOTOINSPECTION

A 13-page open-file report by V.A. Milazza may be obtained from the Open-File Services Section (OFSS), Western Distribution Branch, U.S. Geological Survey, Box 25425, Federal Center, Denver, CO 80225 (telephone: 303-234-5888). When ordering, please use the open-file number, OF 81-0707, and full title. Microfiche \$3.50; paper copy \$1.50.

#### SURVEYING INSTRUMENTS

By Fritz Deumlich, 1981, now available in English. In keeping with a rapidly changing field, Deumlich has revised the German edition, giving greater attention to electronic surveying equipment and the latest methods. At the same time, the book is careful to include all instruments still in current practical use, even those that might properly be viewed as historical items. It consists of 316 pages with 785 figures and 38 tables. Published by Walter De Gruyter, Inc., it sells for \$47.50, hardcover.

#### OLD & NEW NGS PUBLICATIONS

Old, hard-to-find, geodetic publications used for computing the State Plane Coordinate System, originally published by the Coast and Geodetic Survey (C&GS), now the National Ocean Survey/National Geodetic Survey (NGS), are for sale by NGS. Congress' Joint Committee on Printing also authorized NGS to sell other pertinent C&GS publications and NOAA serialized geodetic publications not already stocked and sold by the U.S. Government Printing Office. To obtain a price list, telephone (301) 433-8316 or write NOAA/National Geodetic Information Center, OA/C18x2, Rockville, MD 20852.

Although NGS assumes responsibility for planning, coordinating, and disseminating information on all geodetic surveys financed totally or partially by Federal funds, there are many important precise surveys performed by other organizations that are not funded by the U.S. Government. Recognizing this situation, NGS established guidelines in 1978 for submitting geodetic data into the NGS data base:

Input formats and specifications of the National Geodetic Survey data base NOAA Manual NOS NGS-2, Vol. I--Horizontal control data, by L. Pfeifer 1980, 205 pages, \$8.20 (unbound); Vol. II--Vertical control data, by L. Pfeifer and N. Morrison 1980, 136 pages, \$6.00 (unbound).

Horizontal Control, NOAA Technical Report NOS 88 NGS 19, by J.F. Dracup, 1980, 40 pages, \$3.15.

Classification, Standards of Accuracy, and General Specifications of Geodetic Control Surveys, 1974, reprinted 1980, 12 pages; and companion publication, Specifications to Support Classification, Standards of Accuracy, and General Specifications of Geodetic Control Surveys, revised 1980, 51 pages, Federal Geodetic Control Committee, \$3.75 set.



### NEW MAPS

CIA MAP LIST

CIA Publications Released to the Public-Listing for 1972-80 is no longer available from the CIA Public Affairs Office as we said in the January Bulletin. Due to a change in CIA policy the list is now sold for \$8.50 from the National Technical Information Service in Springfield, VA, order number PB81-928003. However, it contains only six pages of map and atlas information. The American Cartographer (v. 9, no. 1, April 1982) printed the entire list. (source: The American Cartographer)

ST. CROIX COUNTY CARTOGRAPHIC CATALOG

The cartographic catalog for St. Croix County is now available. It is the 24th catalog in the series published by the State Cartographer's Office. The catalog contains 74 pages and is free for the asking. County and regional offices in St. Croix County, which are on our mailing list, will automatically receive a copy.

The following maps are all open-file reports. Microfiche and/or black-and-white paper copies of the maps may be obtained from the Open-File Services Section (OFSS), Western Distribution Branch, U.S. Geological Survey, Box 25425, Federal Center, Denver, CO 80225 (telephone: 303-234-5888). When ordering, please use the open-file number and full title.

Lineaments and faults of Wisconsin, Minnesota, and the western part of the northern peninsula of Michigan, by S. I. Dutch. 29 p., 4 over-size sheets, scale 1:2,500,000 (1 inch = about 40 miles) and scale 1:1,000,000 (1 inch = about 16 miles). Microfiche \$5.50; paper copy \$10. #0F 81-0977.

Preliminary map of rare-earth provinces in the conterminous United States, by M. H. Staatz and T. J. Armbrustmacher. 1 over-size sheet, scale 1:5,000,000 (1 inch = about 80 miles). Microfiche 50¢; paper copy \$3.50. #0F 79-0576-T.

Preliminary composite magnetic anomaly map of the conterminous United States (black and white), by Isidore Zietz. 55p., 2 over-size sheets, scale 1:2,500,000 (1 inch = about 40 miles). Microfiche \$4.50; paper copy \$19. #0F 81-0766.

NOS' FIRST AUTOMATED INFORMATION SYSTEM NAUTICAL CHART

Nautical cartographers at the National Ocean Survey (NOS), NOAA compiled the first nautical chart using an automated information system of digital data. The chart is St. Andrew Bay, Florida.

Rear Adm. H. R. Lippold, Jr., director of NOS, said that the automated information

system reduced the normal engraving time from almost 200 hours to 90 hours. The system was developed over a period of 10 years. He added that the "average chart users will see very little difference between the manually compiled chart and the automated chart."

When the new system is fully operational it will be used by the nautical chart compilers to maintain the 980 charts that NOS produces of the GREAT LAKES and the coastal waters of the United States and its territories. The charts are used by the U.S. Navy, U.S. Coast Guard, commercial shipping, commercial and sport fishing, and by recreational boaters. State and urban planners, engineers, and scientists also use the charts as base maps for projects, plans, and studies.



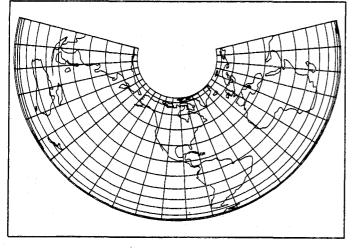
### CARTOGRAPHIC AUTOMATION

#### (This article is offered as a state-of-theart report and is not an endorsement by the SCO).

Synercom Technology Inc. of Sugar Land, Texas, is involved in developing cartographic computer software. Their product line includes the following:

#### CARTRAN

The Cartographic Transformation System was developed by Synercom's Cartographic Development Section. This system is fully integrated with INFORMAP, the company standard mapping program and supports the display and plotting of any of the 10 most commonly used projection systems. These include the State Plane, Universal Transverse Mercator, Polar Stereographic, Stereographic, Mercator, Transverse Mercator, Lambert Conformal Conic, Oblique Mercator and the Albers Conical Equal Area and Polyconic projection displays.



The Albers Conical Equal Area Projection

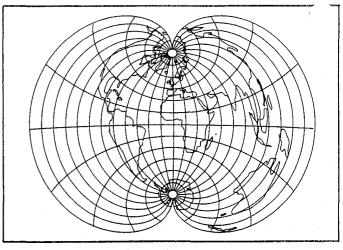
#### DIME/GBF REVISION

Synercom has enhanced the INFORMAP DIME file interface system. With the completion of the 1980 Census data, users can acquire GBF DIME files and utilize INFORMAP to develop standard, metropolitan map series plots, as well as perform statistical analysis on census data.

#### STREET AND INTERSECTION INQUIRIES

The STINQ (Street Inquiry) and ININQ (Intersection Inquiry) facilities allow users to perform inquiries by street and intersection. Users may window-in on geographic base files and display stored data regarding streets, addresses, intersection, facilities and the like.

#### Wisconsin Mapping Bulletin



The Polyconic Projection

#### CIRCUIT TRACE SYSTEM

A software system that establishes and utilizes interconnectivity of facility elements in network data bases. The system is geared toward satisfying a wide variety of users for electrical, gas, water, sewer, and telephone applications.

#### ALIGNMENT PROGRAM

This new system uses surveyors notes. These notes are entered into the INFORMAP System at an alphanumeric CRT. The notes are written to a file and may be edited with corrections or additional field notes. The ALIGNMENT program produces displays and plots which have the characteristic multiple band format of alignment drawings. For example Band 1 may show bearing and deflection, Band 2 - all intermediate survey notes, Band 3 - property ownership, etc. This system is ideal for transmission and highway applications.

With INFORMAP and CARTRAN, a map may be entered in any of the supported projection systems and then immediately be output in any of the other projection displays or plots. The address of Synercom is: Synercom Technology Inc., 500 Corporate Drive, Sugar Land, Texas 77478, 713/ 491-5000.



April 1982

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### LEGISLATIVE ACTION

ASSEMBLY BILL 993, relating to the use of railroad lines as landmarks by the county surveyor, was introduced on January 26, 1982 by Representatives Everson, Norquist, Menos, Paulson, Berndt, Murray, Hasenohrl and Fischer and referred to the Committee on Local Affairs.

This bill requires the owner of a railroad line to notify the county surveyor prior to abandoning or moving the line. If the line is used as a landmark, the railroad is liable for the cost of establishing a new landmark. Under existing state law, the county is liable for the cost of perpetuating the landmark.

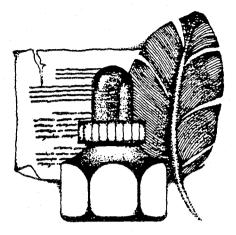
AB993 is likely to result in a cost decrease for counties because of the shift in cost liability from counties to railroads. However, it is not possible to provide a precise estimate for the following reasons:

- The frequency with which railroad lines have been used as landmarks is not known.
- The frequency with which railroad lines, which had been used as landmarks, and which subsequently, were abandoned or unused, also is unknown.

Unfortunately this bill, as well as Senate Bill 547 which was virtually the same (Jan. Bulletin p. 13), died in committee.

ASSEMBLY BILL 1097 was introduced on March 2, 1982 by Representatives Jackamonis and D. Travis, and was referred to the Committee on Reapportionment. It relates to the effective date of certain annexations and detachments, congressional and legislative district maps, numbering of wards and county redistricting procedure.

In part the bill provides that the Legislative Reference Bureau shall, every 10 years, prepare such street and ward maps as are required to show the boundary lines of congressional and legislative districts based on the federal decennial census. The maps are directed to be maintained by the Department of Administration. The Department is directed to distribute copies to the elections board for distribution to congressional and legislative candidates.



Initial distribution of the maps is required in 1983. Currently, the statutes do not expressly require preparation, maintenance or distribution of such maps.

The bill died in committee.

<u>SENATE BILL 72</u> was introduced by Senators Harnish, Krueger, Strohl, Moody, Chilsen, Flinn, and Representatives Everson and Roberts on Feb. 5, 1981. It was referred to the Committee on Agriculture and Natural Resources which on Feb. 4, 1982 offered a substitute amendment (bill). The act related to abolishing the Board of Soil and Water Conservation districts and transferring its functions to the Department of Agriculture, Trade and Consumer Protection, abolishing the Agricultural Lands Preservation Board and transferring its functions to the Land Conservation Board, creating a Land Conservation Board, abolishing soil and water conservation districts, creating county land conservation committees and programs, providing for a study, granting rule-making authority and making appropriations.

The Land Conservation Board would biennially have carried out the preliminary mapping of agricultural lands after July 1, 1983, and would have provided funds to counties for the development of agricultural preservation plans.

The bill was moving through the Assembly but ran out of time and therefore died when the Legislature adjourned.

#### LEGISLATION, CONTINUED

ASSEMBLY SUBSTITUTE AMENDMENT 1, TO

1981 ASSEMBLY JOINT RESOLUTION 32, offered by Representative Kirby on February 23, 1982, requests the Legislative Council to study urban and rural programs which may conflict.

#### It reads:

"Whereas, the preservation of farmland and urban centers is vital to the state; and

Whereas, state programs intended to aid urban areas and preserve farmland may have unforeseen consequences; and

Whereas, increasingly large amounts of land throughout the state are being diverted from agricultural to other uses; and

Whereas, there has been no systematic legislative review of the relationship between urban programs and programs intended to preserve agricultural land; and

Whereas, such a review is essential to assure that state programs are not operating at cross-purposes and that state funds are being expended effectively and efficiently; now, therefore, be it

Resolved by the Assembly, the Senate concurring, That the Legislative Council is requested to:

(1) Identify and examine state programs and policies relating to preservation of agricultural lands and maintenance of urban centers to determine whether such programs are achieving their intended objectives and whether these objectives are in conflict or produce competition between urban and rural interests; and

(2) Make recommendations for any needed modifications in these state programs to assure maximum compatibility between competing or conflicting interests and to promote a consistent and coherent approach to the resolution of problems which are identified in the study; and, be it further Resolved, That the Legislative Council i requested to present its findings and recommendations to the 1983 legislat when it convenes."

The resolution passed both houses and will be enacted. That's encouraging.



### NTIS MAY GO

The Department of Commerce has undertaken steps to dismantle the National Technical Information Service (NTIS) and to contract the service to a private firm. NTIS is currently responsible for coordinating the distribution of technical reports from such agencies as NASA, the Defense Technical Information Center (DTIC), the Dept. of Energy (DOE), and the Government Printing Office (GPO). It also prints and markets documents which are no longer printed by the GPO and which are unavailable elsewhere, thereby providing a unique service to libraries and the general public. Many cartographically related materials are handled by NTIS. Concern over access to information should be vocalized so that NTIS be permitted to remain an independent clearinghouse for public documents. The Secretary of Commerce is Malcolm Baldrige, Commerce Bldg., 14th Street & Constitution Ave., Washington, D.C. 20230.



THE WISCONSIN MAPPING BULLETIN IS DISTRIBUTED FREE OF CHARGE ON REQUEST. NEWS ON COMPLETED OR ONGOING PROJECTS, PUBLISHED MAPS OR REPORTS, AND CONFERENCES/WORKSHOPS IS WELCOMED BY THE EDITOR. LOCAL AND REGIONAL IN FORMATION IS ESPECIALLY REQUESTED. PLEASE SEND ALL COMMENTS, CORRECTIONS AND NEWS ITEMS TO CHRISTINE REINHARD, STATE CARTOGRAPHER'S OFFICE, 144 SCIENCE HALL, MADISON, WI 53706, (608) 262-3065.

April 1982

## REMOTE SENSING BROADCAST

### WISCONSIN MAPPING BULLETIN SUPPLEMENT

April 1982

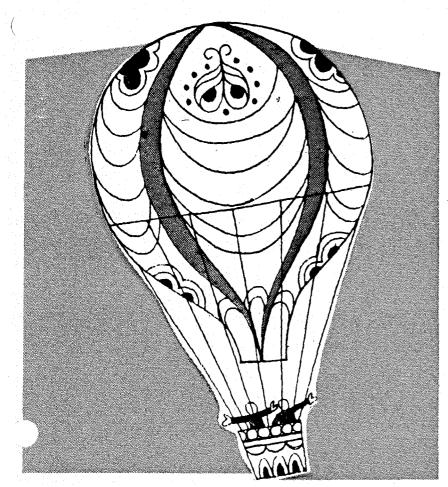


#### Christine Reinhard, Editor

State Cartographer's Office 144 Science Hall, Madison, WI 53706 (608) 262-3065

#### LANDSAT-D SYSTEM IMPLEMENTATION ON SCHEDULE

No problems or delays have shown up that would interfere with the launch of Landsat-D in the summer of 1982 or with the initiation of NOAA's operational Landsat-D program on January 31, 1983. The Multi-spectual Scanner (MSS) will be the operational sensor when NOAA takes over the Landsat-D system. Implementing Routine Thematic Mapper (TM) operations will take several months longer.



#### LANDSAT 3

Variations in the Landsat 3 Multispectral Scanner (MSS) mirror are causing data loss on the left onethird of the picture. NASA has developed a ground processing correction scheme and implemented it at the Goddard Space Flight Center facility to preserve the right twothirds of the picture. This correction will result in contiguous coverage north of 35<sup>o</sup> N.

#### LANDSAT 2 PROBLEM

Landsat 2 has difficulty with a momentum wheel in the collection platform. At this time the satellite is not capable of collecting valid data. NASA is evaluating the problem and making efforts to restart the wheel, but without success so far. NASA regards the outlook for restart as dim.

#### FY 1983 BUDGET REQUEST FOR NOAA SATELLITE PROGRAMS

The amount requested in the president's budget will provide for the continued satellite remote sensing of the global environment and the addition of an operational land observation (Landsat) program. In addition the budget will cover the direct costs of operating the Landsat system. User fees are proposed to offset the costs of Landsat data services to the public. Federal agencies will reimburse NOAA directly for Landsat services.

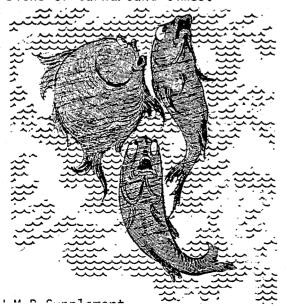
The budget reductions primarily affect the Geostationary Environmental Satellite (GOES) System and the Polar Orbiting Environmental Satellite Program by reducing the number of satellites or slowing down the replacement schedule cycle.

## IANDSAT PRICES

# REVISITED

Careful readers of the Landsat price article in the Remote Sensing Broadcast (Bulletin supplement, January 1982) noticed a discrepancy in the first sentence. The correct interpretation of the verb tense is "will go". New Landsat prices will go into effect October 1, 1982. This is not to say that new prices did not go into effect on October 1, 1981. They did. The following chart gives current prices.

Before the 1981 price increase Landsat users bought up a large volume of imagery. The EROS Data Center expects even more users to buy data before the significant October 1982 increase. Users planning to buy data before the next increase are strongly urged to place their orders in the spring and early summer so that their orders are delivered before the October 1 deadline. Data orders received but not delivered before the October 1 deadline could be subject to the new prices. The EROS Data Center's production capacity has limited elasticity to respond to large surges in user data demands without serious extensions of turnaround times.



NOMINAL IMAGE SIZE	PRODUCT MATERIAL	BLACK & UNIT PR PRICE		COLO UNIT PR PRICE	
55.8mm (2.2 in.)	Film Positive	\$ 8.00	11	NA	NA
55.8mm (2.2 in.)	Film Negative	\$10.00	<b>01</b>	NA	NA
18.5cm (7.3 in.)	Paper	\$10.00	23	\$15.00	63.
18.5cm (7.3 in.)	Film Positive	\$10.00	13	\$25.00	53
18.5cm (7.3 in.)	Film Negative	\$12.00	03	NA	NA
37.1cm (14.6 in.)	Paper	\$20.00	24	\$35.00	64
74.2cm (29.2 in.)	Paper	\$35.00	26	\$70.00	66
COLOR COM	POSITE GENERATION	•		\$75.00	59

#### STANDARD LANDSAT DATA PRICES

Portrayed in false color (infrared) and not true color.

Cost of product from this composite must be added to total costs. Not applicable for MSS Band 8 or RBV Subscenes.

Master composite retained at EDC

#### STANDARD AERIAL PHOTOGRAPHY PRICES

IMAGE	PRODUCT	BLACK & WHITE UNIT PRODUCT		COLOR UNIT PRODUCT	
SIZE	MATERIAL	PRICE	CODE	PRICE	CODE
22.9cm (9.0 in.)	Paper	\$ 5.00	23	\$15.00	63
22.9cm (9.0 in.)	Film Positive	\$ 8.00	13	\$25.00	53
22.9cm (9.0 in.)	Film Negative	\$12.00	03	NA	NA
45.7cm (18.0 in.)	Paper	\$20.00	24	\$35.00	64
68.6cm (27.0 in.)	Paper	\$25.00	25	\$50.00	65
91.4cm (36.0 in.)	Paper	\$35.00	26	\$70.00	66
55.8mm (2.2 in.)	Film Positive	\$ 8.00	11	\$25.00	51
55.8mm (2.2 in.)	Film Negative	\$10.00	01	NA	NA
11.4cm (4.5 in.)	Film Positive	\$ 8.00	12	\$25.00	52
11.4cm (4.5 in.)	Film Negative	\$10.00	02	NA	NA
22.9x45.7cm (9x18 in.)	Paper	\$12.00	31	\$30.00	69 (
22.9x45.7cm (9x18 in.)	Film Positive	\$16.00	14	\$50.00	56
22.9x45.7cm (9x18 in.)	Film Negative	\$20.00	04	NA	NA