

SEVENTH ANNUAL REPORT
OF THE STATE MAP ADVISORY COMMITTEE
FOR OREGON
1985

OPEN FILE REPORT 0-86-1

January 1, 1985 - December 31, 1985

John D. Beaulieu, Chairman
State Map Advisory Committee

State of Oregon
Department of Geology & Mineral Industries

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EXECUTIVE SUMMARY

The purposes of the State Map Advisory Committee (Executive Order E0-83-15) are: (1) to recognize and pursue mapping goals for Oregon, (2) to promote coordination of programs, policies, and resources with the intent of maximizing opportunities and minimizing duplication, and (3) to bring benefits of well directed mapping more effectively to the people of Oregon.

To accomplish these aims, the State Map Advisory Committee includes representation from Federal agencies, state agencies, and universities. Major accomplishments noted below are detailed in the body of this report.

1) Effective Coordination

The State Map Advisory Committee promoted effective coordination in hard copy and digital mapping through the planning and sponsorship of one full meeting of the Committee and one highly successful State/Federal Mapping Coordination Meeting in which Federal program direction was a major consideration:

- a) The National Map Division (USGS) is the lead Federal agency for mapping, and in cooperation with the Interior Digital Cartography Coordinating Committee (IDCCC) is assuming a leadership role in digital mapping. Coordination considerations were emphasized at the May 2, 1985 and October 25, 1985 meetings.
- b) The National Map Division maintains a wide variety of mapping programs of interest to the public and of significance to state map agency planning. Mutual program direction was emphasized in the May 2, 1985 meeting.
- c) At the Eighth Regional Map Workshop (hosted by California and attended by representatives of the USGS and seven western states) Oregon provided input in budget priorities, NMD realignment, resident cartographer programs, and digital activities.

2) Progress on Base Maps

The State Map Advisory Committee pursued cooperative completion of fundamental map bases for the State through effective planning, prioritized goal setting, and consistent communication with the U.S. Geological Survey. Progress is tabulated below. In the 7½' series all maps are either complete (63%) or in progress (37%) at this time.

3) Offshore Base Maps - needs definition

A survey of state agency offshore base map data needs (DOGAMI Open File Report 0-85-3) was completed with emphasis on scale, location, topic, and existing agency capabilities. The survey provides valuable general information and will be useful in the development of cooperative data acquisition. A summary of needs is included in this report. The needs have been communicated to USGS and NOAA.

4) Digital Mapping

Owing to volumes of new data, enhanced legislative awareness, and the need to communicate effectively with Federal data collection efforts, digital map formats were given increased attention by SMAC in terms of coordination and cooperation. Details are provided in the meeting summaries. State agencies now are coordinating individual geographic information system efforts through a staff level working group facilitated by the Department of Energy and the Water Resources Department. Interest of the group includes digital maps. Members attend SMAC meetings and provide to SMAC information on their activities. The effort, however, is independent of SMAC.

5) State Resident Cartographer

The Oregon Department of Geology and Mineral Industries continued a cooperative agreement with the U.S. Geological Survey to support a Resident Cartographer to the State of Oregon whose major tasks now include: (1) the identification and linking of mapping capabilities through cooperative agreements, (2) promotion of more effective product dissemination, (3) elimination of unnecessary duplication of effort, and (4) technical assistance in matters of mapping and coordination. His annual summary is included in this report. Significant progress is being made in digital and orthophoto cooperation. Interested agencies were added to the mailing lists for the Federal Digital Cartography Newsletter and for periodic mailings of status index maps for various USGS map programs.

6) Miscellaneous

Significant progress has been made towards completing a family of thematic maps for Oregon of a scale of 1:500,000 depicting a variety of topics for general reference. Available maps include planimetric (USGS), topographic (USGS), LANDSAT imagery (ERSAL), Geothermal (DOGAMI), Congressional Districts (USGS limited edition), environmental (DEQ, 1978), land ownership (BLM), Mineral Resources (DOGAMI/BLM/USFS), and Oregon Offshore Minerals (DOGAMI/MMS). In progress is an offshore-onshore general geology map (DOGAMI/MMS).

A need exists for a moderately thorough brochure which describes mapping products available in various formats for the public from state and Federal agencies in Oregon. In a joint effort with SMAC agencies such a report will be prepared by the State Resident Cartographer with publication to be done by DOGAMI.

PRODUCT	Published 1979	Published 1980	Published 1981	Published 1982	Published 1983	Published 1984	Published 1985	Total Complete
7½' topographic maps (1911 total units)	10	46	76	50	88	46	123	1211
Orthophotoquads (unpublished) (1911 total units)								1813
1:100,000 Base Maps (78 total units)								78 planimetric 35 topographic
Land use/Land cover 1:100,000 (65 total) 1:250,000 (25 total)								12 25
Digital Products (7½')								
Digital Elevation								326
Digital Line Graphs								
Land Lines								826
Boundaries							30	826
Transportation							30	109
Hydrography								109
Cultural								38

(Note: 7½' topographic maps are now officially counted when received from the printer rather than when sent to the printer. The Land Use/Land Cover and orthophotoquad programs are coop driven. Indexes of digital products are routinely distributed to key agencies. The printing of the 1:100,000 topo series is delayed while the Bureau of Census coop pursues completion of the nonurban U.S. 1:100,000 series for transportation and hydrography in a preprint format.)

Membership and Selected
Mailing List

(Note: State Resident
Cartographer maintains
a Supplemental mailing
list)

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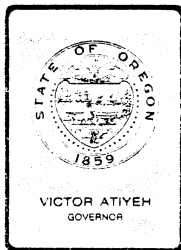
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MEETING SUMMARY
STATE MAP ADVISORY COMMITTEE

Thursday May 2, 1985

Attendees

<u>Name</u>	<u>Agency/Affiliation</u>
William Johnson	USGS Menlo Park (415) 323-8111 ext 2115
Glenn Ireland	State Cartographer USGS/ORE
Pete McDowell	Benton Co. Public Works
Peter Eberhardt	Willamette National Forest/Eugene 687-6595
Peter Stark	Univ of Oregon, Map Library/NCIC Affiliate
Roger Crystal	USDA-Forest Service/Portland 221-4165
Dick Dodge	USDA-Forest Service/Portland 221-3614
Ted Albert	USDI-BLM-Ore State Office, Portland 231-6887
George Shore	OSDF-Salem, 378-5033
Bob Sandstedt	City of Portland, Dept. of Trans., 796-7965
Ray W. Miller	OSFD-Salem, 378-5033
William G. Loy	Dept of Geography, U of Oregon 686-4970
Jerry Combs	USGS-Rolla, MO (314) 341-0896
Paul Staub	OR Dept of Geology & Mineral Industries
Mark Neuhaus	OR Dept of Geology & Mineral Industries
Beverly Vogt	OR Dept of Geology & Mineral Industries
James T. Felkerson	USGS, MCMC, Rolla, MO 65401 (314) 341-0887
Jerry Latshaw	USDA-SCS, Portland OR 221-2794
Tom Smith	USGS-Sisters, OR-SMC
Ed Schoaps	State Parks & Recreation Division 378-6290
Jim Wintermyre	NOAA/NGS Seattle, WA
Lewis McArthur	Oregon Geographic Names Board
Larry Bright	OR Dept of Fish & Wildlife, Portland 229-5453
Rudy Wellbrock	Ore Hwy Div Salem, 378-6256
Gary Williams	Water Resources Department, Salem, 378-8131
Vivienne Torgeson	Water Resources Department, Salem, 378-3671
Robert A. Mead	Dept of Revenue-Salem, 378-3381
MSG. John E. Davis	OANG Res - Salem, 364-8530
Col. Dick Paynter	OANG Res - Salem, 390-1966
Tom Jackson	Bonneville Power Admin, 230-4645
John Smith	Div of State Lands, Salem, 378-3805
Larry Francis	GLADS-City of Salem, 588-6511
Mike Seber	Dept of Revenue, 378-3381
Larry Parkson	Dept of Revenue, Salem, 378-3381
Dick Swinnerton	Chief USGS-NMD Menlo Park
John Beaulieu	OR Dept of Geology & Min Ind-SMAC Chairman

1) National and Regional Perspectives of the U.S. Geological Survey - NMD (Dick Swinnerton)

Major mapping programs were reviewed and handouts (attached) were distributed. Major trends include: 1) the 7½' quadrangle mapping effort is on schedule for 1989-1990 completion, 2) digital mapping and equipment enhancement are growing, and 3) other routine programs are steady. In the president's 1986 budget SLAR activities are zeroed out. Map program status is as follows:

7½' quads	complete in 1989
T-Map	complete in 1990
1:100K planimetric	complete in 1986
1:100K topographic	on hold until 1987
ortho photos	96% complete
1:24K digital	limited completion
1:100K topo	complete in 1987
1:100K hydrography	complete in 1987
1:250K DEM	complete
1:2M	complete
LU/LC	complete on paper - no digital for Oregon

Revision of the 7½' quad series including P-Maps and T-Maps will occupy more of USGS-NMD's time and SMACS time in the future. Resources will include USGS Maps, GNIS-II, Correction files (Highway) etc. Concerns SMAC will address include priorities and preferences in location, currency, accuracy, etc. Questionnaires and Agenda attention are contemplated.

The National Map Division continues to look at various options for an urban map series with special consideration being given to scale, topics for emphasis, images, and opportunities for cooperative agreements. One concept receiving consideration is the ongoing maintenance of given map themes by appropriate specific agencies (roads by Highway Dept. for example). In this scenario the role for the NMD would be in part that of an "orchestra leader." This topic will receive ongoing attention by SMAC.

Under "Evolving programs" the following status reports or plans were presented:

NHAP-II-will utilize summer photography as a result of Dept. Ag. support and will follow a 5-7 year time frame. Film will possibly be upgraded in 1987.

GIS- The National Map Division continues to be interested in GIS applications, remote sensing, and digital cartography as a result of its digital map product functions and lead role in the IDCCC. Hands on assistance for users is contemplated in the future.

Offshore Maps/EEZ-The total EEZ will be mapped with Gloria imagery (shaded relief data processing) within 5 years. Private and military data at various scales are generally not available.

FMLIS-The current focus of the Federal Mineral Land Information System is in Alaska. An earlier project focused on the Medford 1°x2° sheet in Oregon.

Research and Development (attached) is addressing scan digitizing (as opposed to manual) using a Scitext scanner, data storage technology (tape, disc, water, organic molecule), automated cartography, data exchange, and GIS technology.

2) Overview of Mapping in Oregon

Bill Johnson reported that all 78 1:100K planimetric maps for Oregon can be obtained from Menlo Park, the Mt Hood 1:100K map is at the press, the Crater Lake 1:100K is underway and that a 60 quadrangle joint BLM/NMD ortho project is under way in the Southern Willamette Valley.

Glenn Ireland summarized field efforts in Oregon and noted that mid continent crews are working on 72 quads now with 62 more to be added this summer. Total commitment for 10 projects is 220 quadrangles. He reported that Land use-Land cover (LU/LC) is complete in paper format, that quarterly digital indexes plot digital map project availability, and that the Digital Needs Survey was recently completed. A copy of his info request form for map information packets is attached.

3) Summaries of Major Mapping Efforts in Oregon

BLM (Ted Albert)

The Service Center concept of BLM is receiving diminished attention while the BLM-USFS Interchange is pursued. The BLM is pursuing a Roseburg ortho-quarter-quad coop with USGS and foresees cooperative GIS efforts in the future using the imagery. The Medford District is being flown at 1:12,000 in color and 1:24,000 in B & W. Complete coverage for the state is available at 1:100K for surface and mineral status.

Ore. Transportation (Rudy Wellbrock)

Savings in cartographic costs using the newly installed automated cartographic capability have been demonstrated. A cooperative digital mapping effort in Columbia County with State Forestry is being developed. Phase II of the computerization effort has received Legislative overview authority making possible the installation of 8-12 more stations. The system involves Intergraph Software and a VACS 780 computer. In digitizing, symbology has been simplified to reduce storage requirements.

Oregon Water Resources Dept (Gary Williams)

The GIS aspects of the SB 523 effort were reviewed. Main points include the need to coordinate and accelerate the water management effort, emphasis on the John Day Basin, the participation of numerous federal and state agencies, the complex and versatile design of the GIS, and current emphasis on formulating Phase II and conducting demonstrations.

USFS/USGS (Roger Crystal)

Budget cuts will preclude active pursuit of the joint field 7½' mapping effort for the short term. Two national forests per year are slated for aerial photo coverage with Willamette and Siuslaw scheduled this year (1:40,000). Various aspects of the photos are cooperated with USGS and BLM. 100 control points are being contracted to second order accuracy.

Oregon Geographic Names Board (Lewis McArthur)

Name checking or pre-edit sheets for the P Map series has met with good field crew coordination to date. Successful completion of GNIS-Phase II in the future will provide a valuable data base for the revision phase of the 7½' series. With regard to field crew coordination (P Map) this meeting provided the opportunity for the Oregon Geographic Names Board to make contact with representatives of the Mid Continent Office of NMD.

Soil Conservation Service (Jerry Latshaw)

The general soils map is scheduled for printing at a scale of 1:500,000 late in 1985. The south Klamath County Soil Survey is complete. A 1:100K county base map is being pursued for field data collection.

Oregon Department of Forestry (George Shore)

In addition to the Columbia County digital map coop with the Ore. Dept. of Transportation, the agency is pursuing aerial photo (1:40,000) coops with the U.S. Forest Service for state Forest land adjacent to federal forests that are scheduled for flights. A U.S.G.S. ortho-quarter-quad coop (17 total quads) is anticipated later.

Oregon Fish and Wildlife Dept. (Larry Bright)

Efforts to utilize LANDSAT to delineate elk habitat currently utilize the remote sensing technology of the University of Washington and the automated habitat delineation and tabulation capabilities of Washington State University. Contact with representatives of the USFS Willamette National Forest at this SMAC meeting may prove to be mutually beneficial.

Willamette National Forest-USFS (Peter Eberhardt)

For the purpose of timely Draft Environmental Impact Statement applications a Hewlett Packard 9000 plotter was jerry-rigged with other hardware to generate an array of grid cell plots of relevant data layers, which originally were captured from 1"/mile maps.

University of Oregon Map Library (Peter Stark)

The Map Library is a satellite of the NCIC Affiliate State Library in Salem. Part of its holdings include orderly stored 9"x9" contact aerial prints of various parts of the State at various times beginning in 1928 in the Port Orford area. Holdings now total 350,000 pieces. Access is facilitated with a computerized index system.

Bonneville Power Administration (Tom Jackson)

A major effort continues to be the River Basin Study, designed to systematically lay river values alongside determinations of hydropower potential for various stream reaches. A cooperative GIS task force is in place and includes NMD participation through Glenn Ireland. Systematic stream encoding and an accurate land net at a scale of 1:100K are desirable data bases.

The Engineering Division has acquired image processing capabilities (I²S software, VACS11730 hardware).

The Environmental Division has a GIS for assessing environmental impacts.

The Right-of Way Division has plans for a CADS of modest scale.

Using VACS the BPA does not have practical use for MOSS (which is operational on DATA GENERAL), because it apparently is not fully usable on a VACS at this time.

4) NOAA Geodocist Presentation (Jim Wintermyre)

The National Geodetic Survey has responsibility for control standards and is acquiring in-state cooperators in various states. Their responsibilities are particularly crucial to entities using field crews for mapping involving control points or base line calibration of instruments. NGS is interested in matching funds, training of surveyors, and providing access to equipment in exchange for cooperative funds. The Agency is adopting the 1983 Coordinate System.

5) Emerging Priority GIS data base needs

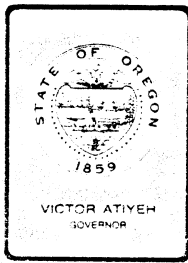
GIS activities in Oregon are surfacing the need for consistent stream **coding** for river treatment by BPA, Ore. WRD, and USGS-WRD. Also, many point data layers (water rights, mine locations, mining claims, drill holes, etc.) are keyed to the public land net. Thus at a scale of 1:100K a public land net digital layer is required by BLM, BPA, Ore. WRD, DOGAMI, U.S. Bureau of Mines, etc. With adjustment of the Coordinate System (1983 vs 1927) it is even more crucial that this independent and fixed reference layer be available.

6) Announcements included:

- a) Pacific Northwest Conference on Photogrammetry, Remote Sensing, and GIS at the Marriott Hotel in Portland on May 15, 16, 17.
- b) Availability of the Federal Digital Cartography Newsletter
- c) Availability of the Ohio Style Map Index for Oregon in late 1987 (a permanent listing of all maps with periodic listings of available maps)
- d) Ore D.O. Trans continues to be interested in preparing a reproducible index of available 7½' topographic maps for Oregon.

JDB:ab

Attachments



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MEETING SUMMARY

STATE MAP ADVISORY COMMITTEE

Thursday October 25, 1985
Room 343 - State Capitol

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Bob Sandstedt	City of Portland -PDOT
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Lloyd Chapman	Oregon Department of Conservation & Development
Mark Walsh	USDA-Soil Cons. Service, Portland St. Off.
Sue Porter	Oregon Economic Development Dept.
Gale Sickler	Bonneville Power Administration
Tom Jackson	Bonneville Power Administration
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Lewis McArther	Oregon Geographic Name Board
John Beaulieu	SMAC Chairman/Geology

- 1) U.S. Geological Survey - N.M.D. Highlights (Butch Fiebelman)

1986 Budget was reviewed. 72% of \$119,028,000 is appropriation. Other sources include Federal and State reimbursements and cooperative agreements plus sales receipts. Primary expenditures will be on Provisional mapping, EROS, Information Services and Digital Cartography (the fastest growing program area).

Long Range Plans include elimination of all substandard maps by the year 2000 to yield a credible national cartographic baseline. Emphasis also will be on developing advanced cartographic systems and generating derivative map products from the National Dig. Cartographic Data Base (NDCDB). Reorientation of NMD Programs and Capabilities to achieve these updated goals is discussed under the term "Transition Plan". Included is implementation of a 5-10 year revision cycle after the year 2000. Achieving this goal implies a heavy reliance on digital cartographic capabilities.

The technological enhancements planned for the future are all part of MARK II and will focus on data production, data base, product generation, analysis, and production management.

Technical Support to other agencies is an interest of the NMD including the recent fact finding visit by Mike Elliot to select state agencies in the northwest. Water oriented GIS efforts include the recently completed ones in Oregon and Connecticut. Continued technical support by the USGS is part of the Connecticut effort. Assistance to the Oregon effort is still feasible, and could involve benefits to both the State and the U.S.G.S.

Future budget plans will include efforts to develop funding for other agencies to produce products for the NMD to their standards, probably on a grant-like basis. Attempts are underway to provide technical support to users of NMD software in terms of such exercises as conversions to allow use on various types of equipment.

The Digital Research Lab Concept now under discussion in Menlo Park involves a multi-division effort (Geology, Water, National Map Division) to joint fund a central Digital Capability. Scitex hardware currently is central to the concept in Menlo Park and in Denver. Present discussion focus on U.S.G.S. needs, but other agencies are not automatically excluded. State agencies may gain indirect access by fashioning relevant cooperative projects with their counterpart Divisions within the U.S. Geological Survey.

Functions, equipment, and management structure are being actively discussed.

Standard Map Product progress was reviewed by Bill Johnson. NHAP coverage is almost complete nationwide, but there are some problems including quality of color - a concern now being addressed by the NHAP Committee. NHAP II will start in 1986 (6" - 1:80,000 B & W and 8 1/4" - 1:58,000 - color). Capabilities for non grain enlargements will be greater for NHAP II than for NHAP I. Evaluation continues regarding the concept to cover states as productions blocks.

Coops are available for county-by-county maps at a scale of 1:50,000 and 1:100,000. MSS image maps (1:250,000) coupled with 1:250,000 AMS maps include the Las Vegas and Mariposa sheets and are available on a coop basis. At a scale of 1:100,000 similar maps are generated using the Thematic Mapper.

2) In-State Mapping Overview (Glenn Ireland)

In the 1:24,000 series 424 maps are in progress at the present time as a result of the greatly accelerated effort to complete the state. 124 Provisional Maps have been delivered this year. Progress Index maps of standard programs (Ortho, 1:24,000, Digital) are distributed to several agencies on a periodic basis. Bill Kaiser and Bob Olsen reported briefly on the progress of their respective field efforts.

The 1:100,000 Digital Coop with the Bureau of Census continues nationwide. This effort will delay continuation of printing of the 1:100,000 Series until early 1987. As a result of the Census Coop, however, all 1:100K maps for Oregon are now in some phase of update.

In Oregon land use/land cover is within two maps of completion for Oregon. A federal coop (EPA/NOAA) has produced digital copies for western Oregon and parts of eastern Oregon. Scales are 1:250,000 with 1:100,000 for the Willamette Valley.

3) Offshore Base Maps

The Survey of State needs for offshore base maps and federal base map activities was completed with cooperation of SMAC members and was published (OF-85-3) by the Oregon Department of Geology and Mineral Industries. Fundings will be translated into a letter of need complete with dates and scales and hopefully will further facilitate coherent federal map activity in this new area of interest.

The Gloria Project imagery project for the Exclusive Economic Zone is on schedule for 1:500,000 imagery publication within the next two or three years. Examples will be displayed at the next SMAC meeting. Oregon components will be printed early in 1986.

4) Selected State Agency Mapping Activities

- a) GIS coordination efforts now are focused on an initial effort by agencies to form a staff level non policy working group. Scott Smith (DOE) is spearheading the efforts. Meetings will be once a month. Agencies include DOE, WRD, LCDC, F & W, DSL, Forestry and others. Data needs will come into focus through this effort. SMAC (map makers) and the working group (map users) will coordinate their respective efforts. Links with respective federal agencies will also be maintained. Focus for many agencies is more on thematic data rather than base map data. The efforts. The working group effort illustrates the fact that numerous agencies in Oregon concurrently now are pursuing GIS capabilities in Oregon. WRD will issue a periodic newsletter tracking items of interest.
- b) Transportation/Forestry coop - This Columbia County area map effort will yield a 1/2"/mile map series with Forestry updating transportation at 1:24,000 and Transportation doing the digitizing. 35 Quads are involved. Provisions for download capabilities to IBM PC's are being pursued. Future demos with DOE on MOSS are contemplated.
- c) Local Emergency Mapping involves Emergency Services and DOT. DOT will input data on boundaries as it is provided. This topic has been tracked for over a year by SMAC. The problem is one of coordination of numerous local map efforts for fire protection in rural areas. Firescope in California was mentioned. Bob Gerber is a contact in California. Forestry also will assist with the boundaries in areas of interest to them.
- d) Geographic Names Information System - Phase II
Adding to Phase I (Names on USGS quads) this effort is collecting names from non USGS quads. Phase I yielded 32,000 for Oregon. Phase II has added 5000 in its initial stages. The University of Oregon (Bill Loy) has the coordinating role in-state. Proposals for new names should follow proper procedures. Lewis McArthur reported on the 9th Annual Western Geographic Names Conference.

e) Topographic Map Index

Efforts by the Survey to index all their products on an individual basis has led to the decision to prepare comprehensive indexes for all products in a booklet with supplemental periodic computerized update. The traditional topo map index has been left to the states to develop. DOT has now produced a flat diazo topo index for Oregon. Updates will be developed once or twice a year.

- f) Bill Ripple reported on OSU-ERSAL projects, which included 1) Airborne Imaging Process test site work for NASA, 2) projects using SAGES software, 3) several LANDSAT MSS tape purchases, and 4) concern for EOSAT sales policies.

5) Mineral Oriented GIS

The need for a complete, statewide, uniform, standardized and digitized mineral layer for multidisciplinary GIS use is not met by presently available data bases. Individual activities by federal and state agencies are under investigation by Glenn Ireland. The report will be used to focus discussions on a possible cooperative effort to develop such a data base either at the federal or state level and either in a new effort or presently existing program. This need has recently been mentioned at the Regional Map Coordination meeting of NMD and Regional Cluster of Geology - USGS. Presently U.S.B.L.M. is pursuing a 1:500,000 data base of this type, committed funds for FY 85 towards this effort and is cooping with USBM.

6) BLM orthophoto project -

A 64 quad coop was entered into in FY 85 within the USGS. Photography was flown at 1:40,000. Orthophoto coops also are being pursued by State Forestry and U.S.F.S. The BLM effort also involves high resolution orthophoto coverage on a quarter quad format (1:12,000).

7) Map Update - State Input -

Plans for the NMD to focus more on necessary updates and revisions of various map products as the 7 1/2' series is completed make it timely for the State to provide meaningful recommendations regarding state needs. The recommendations will have to calibrate with the logistics of revision activities for each of the map series.

Glenn Ireland will survey state agencies as background to a draft set of recommendations to be presented at the next meeting of SMAC. Considerations for each map series will include:

- Quality
- contour interval
- geographic priority
- other priorities
- review procedures
- general format and symbology
- completeness
- opportunities to assist with given map layers.

8) General Announcements

- a) Commercialization of LANDSAT imagery through EOSAT has resulted in numerous concerns to be addressed further at a later meeting. Included are the terms of the copyright contract, NCIC access to imagery, and cost.
- b) The proper manner of naming offshore features for Oregon will be considered as a policy matter at the December 7 meeting of the Oregon Geographic Names Board.
- c) Roger Crystal (U.S.F.S.) announced future direction of his agency to produce quarter quads orthos for their management needs. Names will be coordinated with the 7 1/2' series. A locator grid will be overlain for indexing purposes.
- d) U.S.G.S. representative, Doug Nebert, noted the need to develop a central clearinghouse to index various digital data bases for use by agencies. They proposed centering the activity in the State Library and agencies individually maintaining the currency of their file. Coordination elements include the CC Cartographic Catalogue, the State GIS Coordination Group (Scott Smith) and information about previous efforts of similar nature elsewhere (Denver). Ray Miller will forward literature on Minnesota experiences to Glenn Ireland.
- e) Water Resources (State) has legislative instruction to continue water oriented GIS activities. An RFP is out to secure a system to accommodate mapping files and Water Rights files. The goal is to have a system in-house by March. The volume of data implies a WR 15 package and a GIS system capable of manipulating data on a basin basis.

- f) Bonneville Power Authority (BPA) reported Transmission has acquired the Synercom System which will have six work stations and which operates on a VAX 785.

Status of Mapping
in Oregon

OREGON STATISTICAL SUMMARY FY 85

PROGRAM	Total No. of Units *	Completed to Date		Completed To date FY 85
		#	%	
NEW MAPPING				
7.5-Minute Standard Topographic	1911	1211	63%	123
MAP REVISION				
7.5-Minute Photorevision	////////	////////	////////	66
7.5-Minute Limited Revision	////////	////////	////////	0
7.5-Minute Complete Revision	////////	////////	////////	0
ORTHOPHOTOQUADS				
7.5-Minute Orthophotoquad	1911	1813	95%	0
INTERMEDIATE SCALE				
1:100,000-Scale Quads Planimetric		78	100%	////////
1:100,000-Scale Quads Topographic	78	35	45%	4
1:100,000-Scale County Plan		7	19%	0
1:100,000-Scale County Topo	36	0	0%	0
1:50,000-Scale DMA	473	2	0%	2
LAND USE AND LAND COVER SERIES				
1:100,000-Scale	65	12	18%	0
1:250,000-Scale	25	25	100%	4
SMALL SCALE & SPECIAL				
1:500,000-Scale State Base Rev.	1	////////	////////	0
1:250,000 Scale Revision	27	////////	////////	0
National Park Maps	1	////////	////////	0
DIGITAL PRODUCTS				
Digital Elevation Models (DEM)	1911	326	17%	0
Digital Line Graphics (DLG)	1911	////////	////////	////////
Land Lines	1911	826	43%	30
Boundaries	1911	826	43%	30
Transportation	1911	109	6%	0
Hydrography	1911	109	6%	0
Cultural Features	1911	38	2%	0

* Includes border quads



United States Department of the Interior

GEOLOGICAL SURVEY
National Mapping Division
847 NE 19th, Suite 300
Portland, OR 97232

USGS NATIONAL MAPPING DIVISION OREGON STATISTICAL SUMMARY 1985

1:24,000 Scale Program	In Progress	Completed 1985
Provisional	487	123
Photo revision	26	114
Limited revision	104	0

1:24,000 Scale Digital

Digital Elevation Models	151	18
Digital Line Graphs	500	30

Orthophoto Program

Standard	25	0
High Resolution	60	0

1:100,000 Scale Program

Planimetric = 100 percent complete
Topographic = 45 percent complete
Estimated date of Series completion = 1990
Digital = 100 percent in progress
Estimated date of Series completion = 1987

Land Use and Land Cover Series

Coverage in a combination of either
1:100,000 or 1:250,000 scale = 100 percent

Digital	In Progress	Completed
1:100,000 scale	2	11
1:250,000 scale	4	3

Special Maps

Mt. Hood and Vicinity 1:24,000 and 1:100,000 scale map completed April 1985
Crater Lake National Park 1:62,500 scale map is in progress. Expected completion date March 1987
State Map at 1:500,000 scale was complete in 1983.

**U.S. Geological Survey
National Mapping Division
Highlights
May 1985**

<u>Appropriations</u>	<u>FY 84</u>	<u>FY 85</u>	<u>FY 86</u>
Primary Mapping and Revision	36.9	38.4	38.4
Digital Cartography	8.0	11.3	13.3
Small, Interm. and Special	16.1	16.6	14.8
Modernization of Mapping Tech.	5.5	4.8	9.8
Earth Resources Observ. Systems	9.6	9.1	9.1
Carto. and Geog. Information	3.9	3.6	3.6
Receipts for Printing and Distr.	8.5	9.0	9.0
Side-Looking Airborne Radar	1.5	1.5	0.0
Totals	90.1	94.3	98.0

Ongoing Programs

Status

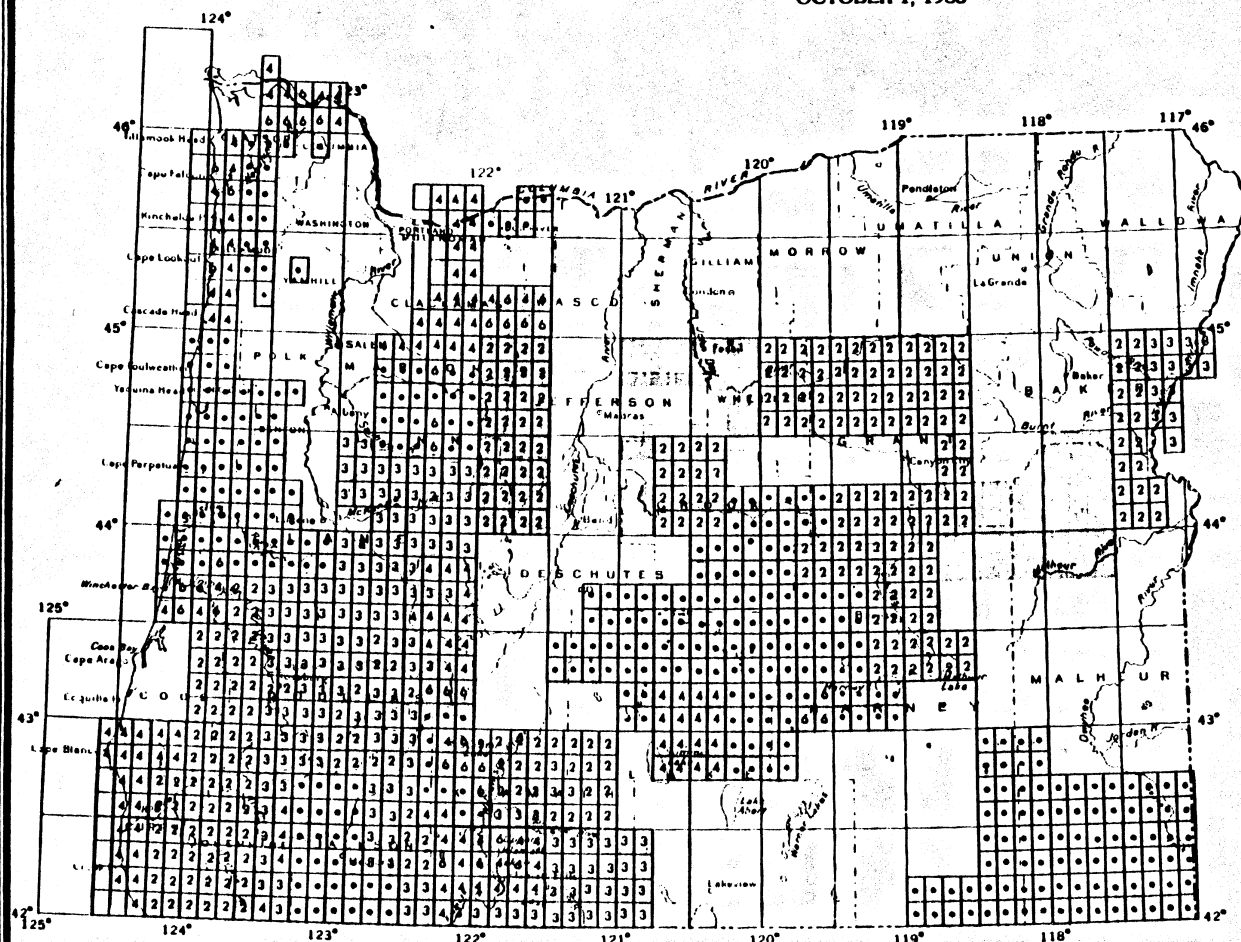
- **7.5 - Minute Topo Completion**
 - Provisional** **Complete 1989**
 - T-Maps** **Complete 1990**
- **7.5 - Minute Map Revision** **Increase late 1980's**
- **1:100,000 - Scale**
 - Planimetric** **Complete 1986**
 - Topographic** **On - Hold until 1987,**
Complete early 1990's
- **Orthophotoquads**
 - 7.5 - Minute, Cont. US & HI** **90% Complete in West**
 - 15 - Minute, Alaska** **Coop Under Way**
- **Digital Cartographic Data Base**
 - 24K** **Limited Coverage**
 - 100K, Trans. and Hydrog.** **Complete 1987**
 - 250K, Elevation** **Nearly Completed**
 - 1:2,000,000** **Completed**
 - Land Use/Land Cover** **Limited Coverage**

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OREGON

NATIONAL MAPPING DIVISION
WESTERN MAPPING CENTER
MENLO PARK, CALIFORNIA

TOPOGRAPHIC MAPPING PROGRAM
ADVANCE MATERIAL AVAILABLE
QUARTERLY EDITION
OCTOBER 1, 1985



- 2 Aerial photography completed. Information, prices and/or requests should be made to:

U.S. Geological Survey
NCIC, MS 532
345 Middlefield Rd.
Menlo Park, CA 94025
(415) 323-8111 ext. 2426

- 3 Basic horizontal and vertical control completed. Descriptions and unadjusted coordinates and/or elevations are available. See number 2 for information, prices and/or requests.

- 4 Diao prints of manuscripts compiled from aerial photographs are available for \$2.50 per print. Contours are shown in areas suitable for stereo plotting. See number 2 for information and/or requests. See note 3 for payment instructions.

- 6 Final drafting completed. The published map should be available in about six months.

- Maps published since the latest addition (May 1980) of State Sales Index to published maps. State Sales Indexes listing published maps are available from:

Branch of Distribution
U.S. Geological Survey
Box 25286, Federal Center
Denver, CO 80225

Published maps at a 1:24,000 scale are available for \$2.50 each from the same address. See note 3 for payment instructions.

- 1:24,000 scale prints with appropriate accuracy and contour intervals available. The map date is the same as the published 1:62,500 scale map.

Notes

- 1 Feature separates and film composites are available for 1:24,000 scale maps. Information, prices, and/or requests should be made to:

U.S. Geological Survey
Graphic Data Management, MS 532
345 Middlefield Rd.
Menlo Park, CA 94025
(415) 323-8111 ext. 2866

- 2 When ordering material or requesting information, mark your area of interest on this index and forward it with your order. A new copy of the index will be returned to for future use.

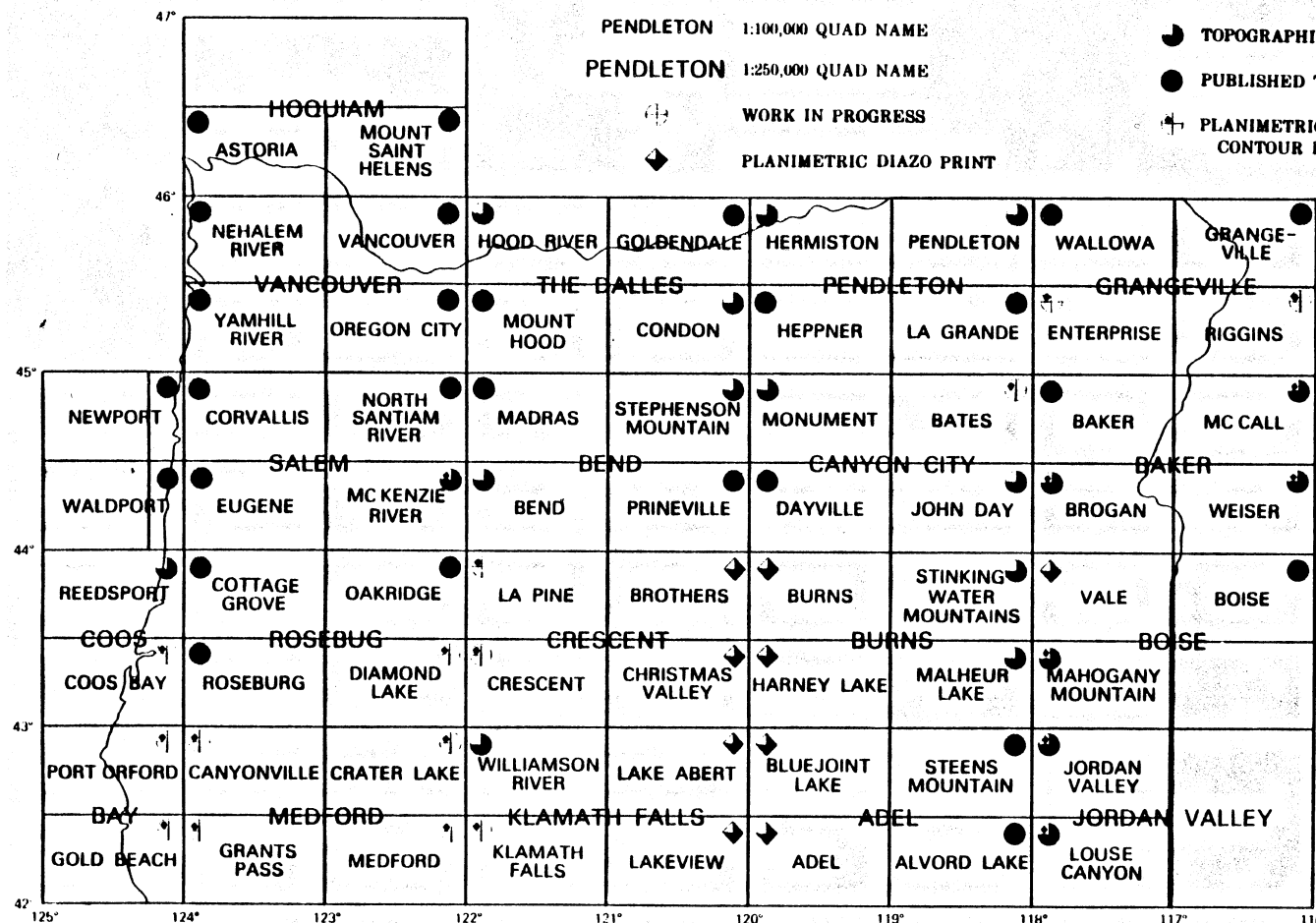
- 3 Payment should be made to Dept. of the Interior, USGS. There is no tax or discount. Postage and handling charges are \$1.00 on orders less than \$10.00.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OREGON

NATIONAL MAPPING DIVISION
WESTERN MAPPING CENTER
MENLO PARK, CALIFORNIA

1:100,000-SCALE QUADRANGLE MAPS
QUARTERLY EDITION
OCTOBER 1, 1985



Notes

Advance diazo prints are available for \$4.00 per sheet. Information and/or requests should be sent to:

U.S. Geological Survey
Western Mapping Center
National Cartographic Information Center
Mail Stop 532
345 Middlefield Rd.
Menlo Park, CA 94025
(415) 323-8111 ext. 2426

Information, prices, and/or requests for feature separates and film composites should be made to Graphic Data Management at the above address or phone (415) 323-8111 ext. 2866

Published maps are available for \$4.00 each from:

Branch of Distribution
U.S. Geological Survey
Box 25286, Federal Center
Denver, CO 80225

Payment in the exact amount should accompany order and may be made by check or money order payable to Dept. of the Interior, U.S. Geological Survey. There is no tax. Postage and handling charges are \$1.00 on all orders of less than \$10.00.



United States Department of the Interior

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STATE RESIDENT CARTOGRAPHER - OREGON

REPORT TO THE STATE

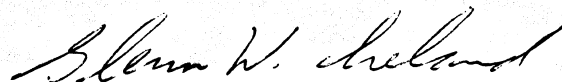
1985 ANNUAL REPORT

This year the State Resident Cartographer has been involved in several areas beneficial to the State of Oregon. Computer-based Geographic Information Systems have gained importance within the State. The National Mapping Division has progressed in completing the 1:24,000 scale 7½-minute quadrangle maps of the State. Cooperation between state, federal and local agencies has improved. The SRC has coordinated several meetings this past year which allowed participants to exchange information covering the full range of mapping technology and use.

This report will consist of highlights in this year's SRC activities. Following the activities, there is a statistical summary covering each of the National Mapping Division's programs in Oregon.

- o The report "A Survey of Oregon Offshore Mapping" by the SRC was published by the State Department of Geology and Mineral Industries as Open-File Report 0-85-3. This 30-page report detailed the state agencies' requirements and the state, federal and private agencies' programs and products. This report helped to define Oregon's offshore mapping needs to the key mapping agencies.
- o SMAC Meetings were held on May 2nd with 37 attendees, and on October 24th with 42 attendees. The SMAC Meetings allowed map producers and map users to discuss various efforts within the State.
- o Cooperative agreements to generate \$230,000 worth of digital and orthophoto products were agreed upon by NMD and various agencies within the State. After these products are produced, they will be available to Oregon state and local agencies.
- o Negotiations are now underway between NMD, BLM, USFS and State Forestry to produce 297 high resolution orthophotos and DEMs in western and southwestern Oregon.
- o Provided suggestions to BPA concerning the formation of a Task Force which studies the needs and systems to integrate the BPA's Pacific Northwest Rivers Study into a GIS. The SRC acted as substitute for the NMD representative on the Task Force when necessary.
- o Served as GIS Program Chairman for the ASP Third Pacific Northwest Conference and Photogrammetry, Remote Sensing and Geographic Information Systems. Thirty-two speakers addressed a total of 298 registrants in the 2½ day conference. Prior to the conference, Portland State University conducted a workshop on computer based geographic information systems.

- o Coordinated the Interior Digital Cartographic Coordinating Committee Meeting in Portland. This meeting was attended by 38 federal and state representatives. This meeting allowed the agencies to exchange information concerning their digital efforts.
- o Assisted in the establishment of a Cooperative between the NMD and USFS to jointly staff Limited Revision Projects on National Forests. A cooperative pilot project was established on the Ochoco National Forest using Forest Service and NMD personnel.
- o Provided coordination between USGS, Water Resources Division, and NMD to establish an elevation net in the Portland Well Field to check for subsidence. NMD will provide levels to Second Order Class II Standards.
- o Worked with the State Department of Transportation to produce a current index of USGS 7½-minute quadrangle names in a single sheet format.
- o Produced an alphabetical listing of all NMD published maps in Oregon.
- o Monitored the Geographic Names Information System Phase II Program. This NMD/Oregon Historical Society/University of Oregon Cooperative Project will result in an Oregon Gazetteer of Place Names.
- o Conducted a survey of 62 NMD map dealers within the State. Three new dealers were accepted into the sales program making NMD maps more accessible to the Oregon public.
- o The SRC was elected to the position of Vice President, Columbia River Region, American Society of Photogrammetry.



Glenn W. Ireland

Offshore Map Needs of the State of Oregon

The offshore map needs of Oregon State Agencies were surveyed in 1982 and again in more detail in 1985 (Dept. of Geology and Mineral Industries Open-File Report 0-85-3) at the request of the chairman of the State Map Advisory Committee. In the latter study, agency needs were viewed in terms of the ongoing mapping activities of various federal agencies. According to map scale the general needs are:

(1) 1:250,000 scale topo-bathymetric maps with USGS data onshore and National Oceanic and Atmospheric Administration (NOAA) bathymetric data offshore for all DMA quadrangles in coastal areas (Coos Bay, Salem, Vancouver, and Copalis Beach quadrangles) plus 1:250,000 bathymetric maps for all areas westward to longitude 126° W. Completion by 1989 is desirable. Bathymetric contours of 25-40 meters are preferred.

(2) The 1:100,000 scale USGS map currently in print should be revised to include the NOAA bathymetry - for offshore areas to a depth of 200 meters. The six quadrangles to which this applies are the Illwaco, Astoria, Nehalem River, Yamhill River, Newport and Waldport quadrangles.

The 1:100,000 scale USGS maps which are not yet in print should have their program modified to include the NOAA bathymetric data. The four quadrangles to which this applies are the Reedsport, Coos Bay, Port Orford and Gold Beach quadrangles.

The 1:100,000 scale USGS map should portray the Offshore Protraction Survey data and the three nautical mile state limit as shown on the Newport quadrangle. The Waldport quad does not portray the Protraction Survey or the state limit. This information should be added during the above mentioned revision program.

The 1:100,000 scale USGS map program should be expanded to include those maps out to the 125° meridian. Two quads are needed to complete the Oregon offshore coverage to the 125th meridian. These quads are immediately west of the Nehalem River and Yamhill River quadrangles. NOAA has 1:100,000 scale bathymetric information for Illwaco, Astoria, Nehalem River, Yamhill River, Reedsport, Coos Bay, Port Orford and Gold Beach quadrangles. This data or updated versions of this data should be incorporated into the existing and future 1:100,000 scale quadrangles produced by the U.S. Geological Survey.

OFFSHORE MAP NEEDS FOR OREGON

SCALE	STATUS	INTERVAL	DESIRED DATE	NECESSARY ACTION
1:250,000	Completed	Unknown	1985	Library acquisition
	Not completed	25-40 m	1989	Specific request to USGS or NOAA
1:100,000	Completed	10 meter (plus 2)	1985	Library acquisition
	Not completed	10 meter (plus 2)	1989	Specific request to USGS or NOAA
1:24,000	In progress	2 meter	1990	Specific P-Map request to USGS
	Provisional update	2 meter	1995	Specific priority or re-vision request to USGS

(3) 1:24,000 scale topo-bathymetric maps with USGS updated Provisional Map data onshore and NOAA bathymetric data offshore yielding 2 meter contour intervals. Approximately 40 7½' quadrangles are involved. Total bathymetric contouring based on utilization of complete data sets is required. Completion on a priority basis for the state within the context of the broader statewide update and revision cycle is required for maps already completed. For those maps (approximately 30 quadrangles) not yet completed on the Provisional Map (P-map) or 7½' basis, incorporation of bathymetric data on the first generation of maps is requested (before 1990).

Additional needs include: (1) data sources to be clearly stated on map collars; (2) map projections for onshore and offshore areas to be clearly stated; (3) agencies in general to agree on common practices and error tolerances for offshore positioning; (4) establishment of new names conducted in properly reviewed and accepted manners as onshore; and (5) development of larger scale maps, images, and map images for specialized use in priority coastal areas such as estuaries and resource development areas.

Implicit in the contour requirements, dates and program connotations for the three named map scales are the needs 1) to develop advance map data sharing between potential cooperating agencies, 2) to acquire desired maps that are already completed, and 3) to communicate map needs to key personnel managing the map activities which are producing the desired map products. Also, generation of a 1:500,000 scale topobathymetric map for the Oregon offshore area westward to longitude 126°W or 128°W ultimately would be highly desirable. Contour intervals of 20 or 40 meters on the shelf would be ideal. Such a map must address border problems posed by traditional use of Mercator projections offshore and polyconic projections onshore.

Necessary actions and timelines to acquire the required base map coverage within existing programs for the scales 1:250,000, 1:100,000, and 1:24,000 are summarized on the following table. Purchase of existing maps can begin immediately (1985). For the Provisional Map Series update emphasis can be placed on the coastal area in statewide P-Map update recommendations to the U.S. Geological Survey through the State Map Advisory Committee in 1986. In addition, specific requests can be made now (1985) to assure portrayal of acceptable bathymetry on P-Maps now in production. For unpublished maps at scales of 1:100,000 and 1:250,000 specific requests should be forwarded to the U.S. Geological Survey and NOAA and possible financial incentives should be sought.



United States Department of the Interior

GEOLOGICAL SURVEY
National Mapping Division
847 NE 19th, Suite 300
Portland, OR 97232

The State Resident Cartographer's Office has information concerning the following activities. These activities are sponsored by the USGS, National Mapping Division and by the State Mapping Advisory Committee.

The NMD is seeking cooperators for their Orthophotography and Digital Mapping Programs. Beneficial price structures and cooperator's choice of project area will provide map products where they are most needed. Information packets have been prepared that explain each of the programs. Please check below if you would like to receive an information packet.

_____ Orthophotography
_____ Digital Mapping Program

In addition to the cooperative mapping programs, the NMD is engaged in several other mapping programs. Status maps or information is available concerning the following programs:

Status Maps:

_____ 7½ minute Mapping Program January 1985
_____ Digital Line Graph Program March 1985
_____ Digital Elevation Model Program February 1985
_____ National Index, Digital (DLG & DEM) Program January 1985
_____ National Index, Land Use and Land Cover October 1984
_____ National Index, National High Altitude Photography January 1985

Information:

_____ 1:100,000 Scale Mapping Program
_____ National High Altitude Photography Program
_____ Land Use and Land Cover Maps
_____ Side-Looking Airborne Radar - Fact Sheet, Index and Order Form
_____ Geographic Names Information System's Alphabetical Finding List
_____ Alphabetical List of 7½ and 15 minute quadrangles that are now available - Oregon
_____ Addition to the subscription list of the Federal Digital Cartography Newsletter

NAME: _____

ADDRESS: _____

Glenn W. Ireland



EXECUTIVE ORDER NO. EO - 83 - 15

STATE MAP ADVISORY COMMITTEE

RECEIVED-PTL
SEP 23 1983
DEPT. OF GEOLOGY
& MINERAL INDUSTRIES

State and Federal Mapping requirements as well as private, corporate and individual land owner needs will vary on a case-by-case basis. Technology decisions forthcoming will reflect those differences. A State Map Advisory Committee can assist differing entities in their decision-making process.

IT IS ORDERED AND DIRECTED:

1. The State Map Advisory Committee is reorganized with a representative of each of the following map-making agencies, to be designated by the chief executive officer of that agency:

Department of Forestry.

Department of Revenue.

Department of Water Resources.

Department of Fish and Wildlife.

Department of Geology and Mineral Industries.

Department of Transportation.

Department of Agriculture.

Land Conservation and Development Department.

Division of State Lands.

Department of Environmental Quality.

Department of Energy.

Data Systems Division - Executive Department.

Oregon State University, Environmental Remote Sensing Application Laboratory.

2. Each of the following map-using agencies shall serve in an advisory capacity, and a representative of each shall be appointed by the chief executive officer of that agency:

University of Oregon, Geography Department.

Portland State University, Cartography Department.

Oregon State University, Cartography Department.

University of Oregon, Cartography Department.

Portland State University, Geography Department.

State Library.

3. The Resident Cartographer for the State of Oregon shall serve in an advisory capacity and shall provide information to the Committee on map products and technologies available, program coordination, and long-term map planning by the U.S. Geological Survey as the lead federal agency for conventional and digital mapping.

4. The Assistant to the Governor having primary responsibility to Natural Resource issues shall solicit the participation of the following federal agencies in the activities of the State Map Advisory Committee as requested:

U.S. Forest Service.

U.S. Bureau of Land Management.

U.S. Soil Conservation Service, Department of Agriculture.

U.S. Army Corps of Engineers.

U.S. Geological Survey (Oregon Office).

Bonneville Power Administration.

U.S. Fish and Wildlife Service.

Bureau of Indian Affairs.

In addition, advisory participation by a representative of the Association of Oregon Counties and the League of Oregon Cities will be solicited.

5. The duties and responsibilities of the State Map Advisory Committee shall be as follows:

a. To define and coordinate basic policies, guidelines, standards and resources of state agencies and federal agencies and assist private entities with regard to the generation of traditional and digital map products including topographic maps, imagery, and thematic maps including:

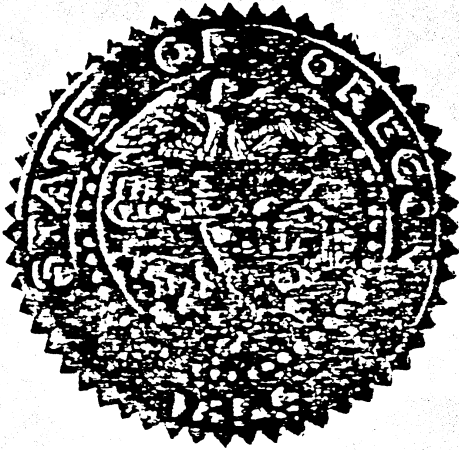
- A. Maintenance of established long- and short- term goals for the timely completion of topographic base map coverage for the State of Oregon with priority on the 7-1/2' Series.
 - B. Formulation of preferred general guidelines and format standards for the generation of traditional and digital map products with the goal of promoting efficiency of map production and compatibility of map products. Included is due consideration for opportunities for cooperative map efforts.
 - C. Formulation of general mapping goals for the state agencies in developing mapping plans and designing projects. The goals will be consistent with agency missions and will place emphasis on practical problem solving.
 - D. Investigation and coordination of needs and resources with regard to remote sensing imagery data, manipulation, data reproduction hardware and software as they relate to map needs of the State of Oregon.
 - E. Serve as a centralized, broad-based source of technical information and advice to state agencies and task forces and private agencies regarding traditional and digital map products for Oregon. This ongoing function by representatives of the mapping community will assure consistent and comprehensive advice throughout state government.
 - F. Serve as a forum to share information about and promote coordination of state, federal, local government, and private map and related data production activities.
- b. To represent the State of Oregon on a regional and national level in developing mapping programs affecting Oregon and to coordinate state mapping activities in Oregon with federal and private efforts. Included are:
- A. Assistance in the development of a wide range of cooperative activities.
 - B. Prioritization of map programs and geographic regions within programs.
 - C. Maintenance on inventory of mapping resources available from State and Federal agencies.
- c. To perform such other tasks with respect to mapping as the Governor directs.

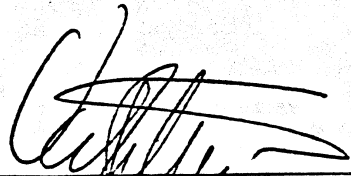
6. Overall coordination for the activities ordered above, and the responsibility for serving as a repository for the materials prepared and accumulated by the State Map Advisory Committee, is vested in the Department of Geology and Mineral Industries.

7. The Governor shall designate the chairperson of the State Map Advisory Committee, from the staff of the Department of Geology and Mineral Industries, who shall develop the work program and meeting agendas of the Committee.


8. Executive Order EO - 79 - 06 is rescinded.

Done at Salem, Oregon, this 21st day of September, 1983.




GOVERNOR

ATTEST:


SECRETARY OF STATE