format, not as easily handled as books, the CU Map Library has is own circulation desk. Though a small branch, with the Earth Sciences Library circulation desk right upstairs, it was decided to have a separate desk for map circulation. Staff and students are trained to work with maps and patrons are given information on handling maps. Most maps circulate except for historic (pre-1950), fragile, or reference maps. Heavily used maps are kept as reference, such as the most recent edition of all USGS Colorado 7.5 minute topographic series. Patrons may check out up to 10 maps for a 2 week loan period. Renewals on maps are also an option. CD-ROMs that are not reference, primarily data CDs such as DRGs, can be checked out for 2 days, also with renewal options.

Admittance

In accordance with the mission of the University Libraries, anyone can visit the Map Library at CU. All materials are open to the public. Those wanting to check out materials must follow the University Libraries patron rules. Any current affiliate of the university (professor, student, etc.) has borrowing privileges. All other public patrons may request a library card only if they are over 18 years old and registered citizens of the state of Colorado.

Users

Most users of the Map Library are students and professors from mapping related fields such as geography, geology, environmental studies, and architecture. The library also sees patrons from disciplines such as, history, anthropology, business, engineering, and other earth science related fields. Every semester orientations to graduate students in Geography and Geology are given. Throughout the semester, many classes visit the map library for an overview of its resources and some stay for a class session, such as an introduction to topographic maps, an overview of GIS and digital data, or even to view and analyze the air photos.

Public users range from CU affiliates, such as from the Institute of Arctic and Alpine Research (INSTAAR) and researchers from private companies and government agencies such as USGS Denver, BLM, etc., to genealogists, Boulder high school students, and other interested users. Many people from around the state of Colorado use these resources when they are in the area, since CU has the largest academic research collection in the state.

Digital Projects

The Colorado air photo project is the main digital project the Map Library is pursuing currently. The goal is to first create a digital index of the entire air photo collection and then scan the collection of air photos. The photos will then be checked out on CD-ROM and/or available online.

Using ESRI's ArcView 3.2, with a Landsat 3-meter resolution image, 1:100,000 DRGs for densely populated areas, and other overlays, shapefiles are being generated for each photo series with an extensive metadata table. The table consists of such fields as landmark, latitude/longitude, date, series number, image condition, county, etc. The objective is to allow patrons to access the collection spatially by clicking a point or boxing a section of the image, or by querying the various fields in the metadata table. The ArcView project can be both used in the library to access the collection and eventually online (hopefully as an ArcIMS server), which will both serve the index online as well as provide the capability to view and download the photos. The library is actively pursing grants to fund labor for the indexing and scanning, as well as buying equipment to scan and serve this project to all.

General Information

The Jerry Crail Johnson Earth Sciences and Map Library is located on the University of Colorado, Boulder campus, to the south of Colorado Avenue across from Folsom Field and at approximately 40° 0' 29" N, 105° 15' 55" W, SE 1/4, Section 31, T1N, R70W. Take a virtual tour: http://www-libraries.colorado.edu/ps/map/vtour/vtour.htm

Reference services are available from trained students at all times, or from staff Monday-Friday 8am-5pm.

The Huxley Map Library
Western Washington University

Janet R. Collins
Map Librarian

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The Huxley Map Library is located in Arntzen Hall 101 on Western's campus. It is one of a handful of map collections in the United States that is administratively and physically separated from the main library. Hours are Monday-Friday from 9-4, Tuesday and Thursday from 9-1, and Wednesday from 6-8. Summer session hours are limited to Monday-Friday from 9-1 as staffing is very limited. During intersessions, the facility is closed. Parking is available by permit from the Visitor Information Center. Please refer to the WWU home page for additional information.

The url is: http://www.wwu.edu

Western Washington University has an enrollment of approximately 12,000 students and offers Bachelor's and Master's degrees in a wide variety of disciplines. The University was initially established as a Normal School, then became a College of Education, then Western Washington State College, and then finally, as a regional University in the 1970s.

The Map Library was established in 1957 within the Department of Geography, in large part due to faculty efforts and the distribution of maps by the Army Map Service. The first Map Curator of the facility, Kathleen Brennan was hired in 1968. Patricia Mayo Simpson, the second Map Curator, was hired in 1971. Depository agreements were established in the 1960's and 1970's with a number of government agencies. The third Map Curator, Dan Turbeville, was hired in 1974. Just prior to his hiring, Gene Hoerauf, then Staff Cartographer, was responsible for the transfer of the collections from "Old Main" into its current location into the then new Arntzen Hall. The first floor location was designed specifically for the Map Library and includes 4200 square feet. Janet Collins was hired as the fourth Map Curator in 1977, and at that time, the collection size included 110,000 map sheets and approximately 200 atlases. In 1992, the Geography Department was administratively transferred from the College of Arts and Sciences into Huxley College of Environmental Studies, where it resides today.

Huxley College has offered an interdisciplinary approach to Environmental Studies since 1970. Specialty areas include Policy, Planning, Education, Geography, Aquatic and Terrestrial Ecology, Chemistry, Toxicology, and Watershed Studies.

The Map Library exists primarily because of the Federal Depository Library Program. We are currently a depository for the U.S. Geological Survey (USGS), National Imagery and Mapping Agency (NIMA), NOAA-National Ocean Service (NOS), Natural Resources Canada-Canada Map Office (NRCan), and the Washington State Department of Natural Resources-Division of Geology (DNR).

Map Library collections include over 241,000 map sheets, 1,000 atlases, 35,000 aerial photographs, 225 cd-roms, and a small collection of globes, reference books, raised relief maps, and satellite imagery. Over ninety-five percent of the collections are post-1900. Historical maps of Whatcom County and surrounding areas are housed in the Center for Pacific Northwest Studies on campus.

The largest of the collections is the USGS collection, numbering over 125,000 maps sheets. Most of those sheets are topographic, however, over 5,000 sheets are geologic maps. The Canadian topographic collection numbers over 26,000 sheets. The Map Library also houses in excess of 12,000 nautical charts produced by NOS and NIMA with worldwide coverage. Like many other map collections throughout the United States, the Map Library benefited from the Army Map Service (AMS), distribution of maps. Most of our coverage at 1:250,000 throughout the world was produced by the AMS.

Our collection of cartographic digital data is growing and housed in two separate areas. Digital data that arrives through the Federal Depository Library Program is housed in the Map Library. Digital data of local and state areas resides downstairs in Arntzen Hall with Gene Hoerauf, Huxley GIS Coordinator and Spatial Analysis Lab Coordinator. Gene meets frequently with local and state folks to share project information and data. An additional GIS Specialist and GIS Faculty member have recently been hired. Huxley College offers a minor in GIS.

The Huxley Spatial Analysis Lab, located downstairs in Arntzen Hall, was funded by Student Technology Fees in 1997 and includes 22 workstations. Facilities also include an 11 x 17 color flatbed scanner, color laserjet printer, and a black & white printer. Each quarter, every WWU student's tuition includes $10 for Student Technology Fees, which are then made available via proposals submitted to University Administrative, Faculty and Student Committees. Instructors in Huxley College and the College of Arts and Sciences utilize the Spatial Analysis Lab for instruction in GIS, Remote Sensing, and Geology.

Perhaps the most valuable and unique collection in the Map Library is our aerial photography collection of Whatcom County. It includes coverage during each decade and dating back to 1943 and is used extensively by faculty and students, and off-campus patrons. We have older coverage of nearby counties and National Forests, but without the significant temporal component. We also house additional limited coverage of the remainder of the State of Washington.

There are very few map libraries in the United States, (less than one-half dozen I believe), that have received Canadian topographic maps on depository. Our depository status with Canada has been largely based on our proximity to the Canadian border (within 20 miles), and our Canadian-American Studies program. The Canadian depository status was due to the efforts of Dr. Robert Monahan, retired Geography Professor. Although the depository status has historically included full coverage of all scales for all of Canada, recent changes in the Canadian depository agreement have restricted U.S. depositories to 1:250,000 scale sheets, special map series, and maps produced for the

National Atlas of Canada. Due to our limited funding, it is unlikely that we will be able to maintain current coverage at 1:50,000 scale for much of Canada.

We also have a large raised relief model, on permanent loan, of the Mt. Baker area. The Mt. Baker area is approximately fifty-five miles east of Bellingham and is best known for its ski area, climbing, and scenic beauty. The model is five feet by six feet and has been recently restored. A new base and interpretive exhibit for the model have been developed with funding provided by a Geography alumnus.

Additional unique collections include WWU Geography master's theses and Environmental Impact Assessments (EIA's) completed by Huxley students.

The Map Library is the repository for cartographic information at WWU and services approximately 42 courses from across campus representing a wide variety of disciplines. In addition, the collection is open to everyone to use, and is used extensively by the local community. Most frequent off campus users include genealogists, consultants, historians, researchers, and government agencies. Handouts are available to assist with use of the collections. Circulation of cartographic materials is limited to classroom presentations. Photocopies are available for a small fee.

Map Library facilities include 4 IBM pc's, a power MAC, an 11 x 17 color flatbed scanner, an 8 1/2 x 14 color flatbed scanner, an HP color laserjet printer, CD tower server, and a wide variety of software packages. Most of the above were provided through Student Technology Fees. WWU holds site licenses, as part of a statewide consortium, for ESRI ArcView and ArcInfo. Light tables, drafting tables, and a Map-O-Graph are also available for patrons.

The budget for acquisitions is virtually non-existent and has required creative solutions to build the collection. Partial solutions have included participation in Library of Congress summer projects, solicitation of donations and maps from likely donors, acquisition of duplicates from other map collections, and purchase of supportive collection material through faculty grants.

A comprehensive collection development policy exists for the Map Library. Very little deselection is accomplished due to the staffing levels. Staffing consists of one full-time map librarian, and during the academic year, student workstudy assistants.

Cataloging of collections does not comply with Library of Congress MARC standards, but utilizes Microsoft Access for databases of holdings. As such, we do not contribute records to OCLC and our holdings are not represented in the Main Library's online catalog. Retrospective conversion of the old card catalog in the Map Library is still underway and will be for quite some time. We are currently working on linking the databases to our web page, and hope to have them available by fall quarter. Staffing, funding, software training, training of student assistants, and space considerations remain the most serious challenges. Like everyone else, we have endless projects.

We are looking forward to cooperative scanning projects with local government agencies and increasing the collection access and increasing the amount of information available through our web

The Map Collection at the University at Stony Brook

David Y. Allen

In many respects the map collection of the University at Stony Brook is typical for a medium-sized academic library. The collection has about 130,000 maps and 600 atlases. Coverage is worldwide in scope, but best for the United States. Our primary clientele is students and faculty at the university, and to a lesser extent the local community. A more detailed description of the collection can be found at our Web site at www.sunysb.edu/library/ldmaps.htm.

Like most map libraries in our situation, we are thinly staffed. There is only one librarian who devotes a sizable portion of his time to maps. The map collection is located in our science and engineering library, and the map librarian receives some backup from other staff in that area. Most of the checking in and filing of maps is done by student assistants. In spite of inadequate staffing, we have taken on some new services. In recent years we have been acquiring aerial photographs, and have moved cautiously into providing some GIS services.

The challenges we face are es-sentially those of running a regional resource. Although we have by far the strongest map collection on Long Island, we are located in a area with several large and distinguished map libraries--most notably the Map Division of the New York Public Library, which is located about fifty miles to our west.

Our collection does have some significant pockets of strength. Although the map collection has been in existence for only about thirty years, some twenty years ago we acquired a long-established collection from another branch of the State University of New York. This gave us a large number of maps of New York State, including many regional and town maps going back to the middle of the nineteenth century. We also inherited a huge nationwide collection of soil surveys. In a recent inventory I found that we have about 1400 soil survey maps antedating 1950.