From the Chair

MAGERT Midwinter Schedule: Philadelphia

On the Cataloging/Cataloguing Front

Cataloging & Classification Ctte, 6/24/07

LC G&M Cataloging Developments

OCLC Update

LC G&M Report

National Geospatial Digital Archive Report

New Maps and Cartographic Materials

Rare Maps Cataloging Workbook for Sale

Great Moments in Map Librarianship

http://www.ala.org/ala/magert

Volume 28, Number 6
December 2007
base line is an official publication of the American Library Association’s Map and Geography Round Table (MAGERT). The purpose of base line is to provide current information on cartographic materials, other publications of interest to map and geography librarians, meetings, related governmental activities, and map librarianship. It is a medium of communication for members of MAGERT and information of interest is welcome. The opinions expressed by contributors are their own and do not necessarily represent those of the American Library Association and MAGERT. Contributions should be sent to the appropriate editor listed below.

Editor: Steve Rogers, Map Librarian, Ackerman Library, Ohio State University, 610 Ackerman Road, Columbus, OH 43202 Tel: 614/688-8774 FAX: 614-292-7859 E-mail: rogers.20@osu.edu

Production Manager: James A. Coombs, Maps Library, Missouri State University, 901 S. National, #175, Springfield, MO 65897 Tel.: 417/836-4534 E-mail: JimCoombs@MissouriState.edu

Cataloging Editor: Tammy T. Wong, Cartographic Materials Cataloger, Geography and Map Division, Library of Congress, 101 Independence Ave. SE, Washington, DC 20540-2232 Tel: 202/707-6735 E-mail: twon@loc.gov

Electronic Mapping Editor: C.C. Miller, Geographic Information Systems Specialist, Purdue University Libraries, 2215 Civil Engineering Bldg., West Lafayette, IN 47907 Tel: 765/496-9474 E-mail: ccmiller@purdue.edu

New Maps and Books Editor: David J. Bertuca, Map Librarian, Science & Engineering Library, 225 Capen Hall, University at Buffalo, Buffalo, NY 14260-1672 Tel: 716/645-2947 x229 Fax: 716/645-3710 E-mail: dbertuca@buffalo.edu

Membership Committee Chairperson: Wade Bishop, Graduate Research Associate, College of Information, Information Institute, Florida State University, 010 Louis Shores Building, Tallahassee, FL 32306-2100 Tel: 850/645-5683 E-mail: bwb06c@fsu.edu

Advertising Rates: For one issue: full page $100; half page $50; quarter page $25. Inside back cover, opposite “Great Moments in Map Librarianship”: full page $150; half page $80; quarter Page $40.

Send graphic or word processing file as an email attachment to the editor or mail hard copy to editor. Submissions will be re-formatted to the extent necessary to fit the size and proportion requested. Consider that the final size and proportion of a full page is 5.5 x 8.5 inches. Advertisers will be invoiced. Mail checks to the MAGERT Treasurer, payable in U.S. dollars to ALA-MAGERT.

© American Library Association 2007
312/944-6780
Published by the Map and Geography Round Table
base line is published six times a year: February, April, June, August, October, and December. Single issues of base line are available at a cost of $5.00 per issue, U.S. and Canadian orders; $7.00 per issue for all other foreign orders. Checks, payable to the American Library Association, should be mailed to Jim Coombs, base line Production Manager, Maps Library, Missouri State University, 901 S. National, #175, Springfield, MO 65804-0095. Claims for the current volume year should also be made to the base line Production Manager.

Members of MAGERT receive base line as a benefit of their memberships. Non-member subscription rates are $25.00, U.S. and Canada; $30.00 for all other foreign subscriptions. Checks, payable to the American Library Association, should be mailed to Peter Linberger, Subscription Manager, base line, Bierce Library, University of Akron, Akron, OH 44325-1709. Tel: 330/972-8230. Fax: 330/972-7225. E-mail: pl@uakron.edu

American Library Association personal and institutional members may choose MAGERT membership for $20.00 (personal) or $60.00 (institutional) by so advising the American Library Association, 50 W. Huron St., Chicago, IL 60611.

MAGERT OFFICERS:

Chairperson:
Pete Reehling, Geographic Information Librarian, 4202 E. Fowler Ave., LIB 122, University of South Florida, Tampa, FL 33620 Tel: 813/974-1647 E-mail: reehling@lib.usf.edu

Vice-Chairperson (Chair-Elect):
Carolyn Kadri, Special Collections Cataloger, University of Texas at Arlington Library, Box 19497, 702 Planetarium Place, Arlington, TX 76019-0497 Tel: 817/272-7153 E-mail: kadri@uta.edu

Secretary:
Matthew Parsons, Map Librarian/Earth & Space Sciences Librarian, Map Collection and Cartographic Information Services Unit, University of Washington Libraries, Box 352900, Seattle, WA 98195 Tel: 206/543-9392 E-mail: parsonsm@u.washington.edu

Treasurer:
Michael Smith, Map Librarian, University of California, San Diego, Geisel Library, 9500 Gilman Drive, #0175-R, La Jolla, CA 92093 Tel: 858/534-1248 FAX: 858/534-7548 E-mail: mls003@ucsd.edu

Past Chairperson:
Scott R. McEathron, T.R. Smith Map Collection—University of Kansas, Anschutz Library, 1301 Hoch Auditoria Dr., Lawrence, KS 66045-7537 Tel: 785/864-4662 FAX: 785/864-5705 E-mail: macmap68@ku.edu

MAGERT Web site: http://www.ala.org/ala/magert
The MAGERT midwinter reception is scheduled to take place at the Free Library of Philadelphia located at 109 Vine Street, Philadelphia, PA on Friday, 11 Jan 2007. Members and guests can start arriving at 5:30pm. Rich Boardman, Head of the Map Collection, will begin the presentation/tour at 6:15pm. The library is conveniently located in the general area of the Pennsylvania Convention Center and many of the ALA hotels. You can preview the historical maps associated with the Free Library of Philadelphia by visiting the Greater Philadelphia GeoHistory website at [http://www.philageohistory.org/geohistory/index.cfm](http://www.philageohistory.org/geohistory/index.cfm). Use the “GO TO GEOHIST RESOURCES” and “Hexamer General Surveys” links to view 19th and 20th century maps and surveys of Philadelphia. Hope to see you at the reception. — Pete 🤗

---

**MAGERT Schedule • ALA Midwinter Meeting • Philadelphia, January 2008**

**Friday, 11 Jan 2008**
MAGERT Reception 5:30-9pm Free Library of Philadelphia
109 Vine Street, Philadelphia, PA 19103

**Saturday, 12 Jan 2008**
Executive Board I 8am-10am SOFT Montpellier
Publications Comm 10:30am-12:30pm SHER Seminar A
Membership Comm 10:30am-12:30pm SOFT Nice
Federal Spatial Information DG 1:30pm-3:30pm SOFT Orleans
GIS/RS DG Saturday 4pm-6pm SOFT Marseilles

**Sunday, 13 Jan 2008** (All Sunday Meetings at MAR)
ALCTS—CCS/MAGERT Cartog. Materials Cat. DG 8:00 am-10:00 am MAR Room 411-412
Cataloging & Classification Comm 10:30 am-12:30 pm MAR Room 302-304
Map Collection Management DG 1:30pm-3:30pm MAR Room 501
Education Comm 4pm-6pm MAR Room 501

**Monday, 14 Jan 2008**
GeoTech Committee 8am-10am PCC 202 A
Program Planning/Awards & Nominations 10:30am-12:30pm MAR Room 302
Executive Board II 1:30pm-03:30pm CROW Manyunk

CROW—Crowne Plaza MAR—Marriott Philadelphia PCC—Penn Convention Center
SHER—Sheraton Philadelphia SOFT—Sofitel Philadelphia

base line 28(6): 4
MAGERT Cataloging and Classification Committee
June 24, 2007  Washington, DC

Nancy Kandoian, Chair of CCC, called the meeting to order at 10:30 am. She welcomed all the attendees to the CCC meeting. There were 33 attendees in total. Members present: Paige Andrew, Betsy Eggleston, Cheri Folkner, Carolyn Kadri, Mary Larsgaard, Dorothy McGarry, Elizabeth Mangan, Susan Moore, Barbara Rapoport, Dan Seldin, Tammy Wong.

1. Welcome and introductions

CCC members and guests introduced themselves.

2. Miscellaneous announcements

Nancy will be concluding her term as CCC Chair at ALA Annual. A new CCC Chair will be appointed by the Chair of MAGERT.

A new issue of the Journal of Map and Geography Libraries has been released. It is a special issue dedicated to Historical Issues in Map Librarianship. Ron Grim is the guest editor of this issue. The issue contains articles that might be of interest for MAGERT CCC attendees:

*Cartographic Materials: A Century of Cataloging at Library of Congress and Beyond / Elizabeth Mangan*

*Cartobibliography for Catalogers: Reference Materials to Support the Identification of Early Printed Maps / Nancy Kandoian*

3. Minutes of last meeting

The minutes from CCC meeting held at ALA Midwinter in January 2007, were approved as published in the February 2007 *base line*.

4. ALCTS CCS/MAGERT Cartographic Resources Cataloging Discussion Group Report/Announcement (Iris Taylor)

We had a very fruitful discussion group meeting on June 24, 2007. Thirty-two people attended the discussion group. Among the many topics the group discussed were: possibility of a discussion forum for librarians dealing with cataloging of pre-twentieth century cartographic resources, requirements for core level cataloging, form/genre terms for maps and atlases, input standards for 007 and 052 fields, our recommendations to OCLC and MARC standards for 007. Concerning our recommendations to OCLC, the general consensus of the group was to advise OCLC to change the OCLC standard for the map and globe 007s from Optional to Required if Applicable.

Iris Taylor’s term as discussion group leader has ended. Thanks to Iris for her work in the past two years. Susan Moore will succeed Iris as the new discussion group leader.

5. Anglo-American Cataloguing Committee for Cartographic Materials report (Mary Larsgaard)

The Anglo-American Cataloguing
Committee for Cartographic Materials (AACCCM) is on hold until the successor to AACR2R, RDA (Resource Description and Access) is published, which will occur in 2009. Members of AACCCM are sending in comments on the drafts of RDA through their respective representatives to the Joint Steering Committee for Revision of AACR (JSC); the exception to this is New Zealand, which does not have representation on JSC. JSC does have a mechanism for persons without a representative to JSC to send in comments for JSC’s consideration.

6. CC:DA report, including RDA status (Elizabeth Mangan)

The 2007 edition of Descriptive Cataloging of Rare Materials (Books) (DCRM(B)) is now available, which means the references in Cartographic Materials (CM) to the former iteration of DCRM(B) are no longer valid. Betsy is planning to go through what has been changed in the new edition. She is in contact with Bruce Johnson, Cataloger’s Desktop Development Team Leader in LC. Bruce has expunged the references in CM to the old DCRB rules. Betsy will submit changes to fix the broken links in Cataloger’s Desktop.

John Attig is the new ALA Representative to the Joint Steering Committee. The deadline for CC:DA comments on RDA Chapters 6-7 is August 12. If any CCC member wants to submit any comments, please send them to Betsy by August 9. Betsy will send out her comments to the CCC members in July. If one is not a CCC member, comments can be submitted online through the public ALCTS website. The deadline is August 8. The projected distribution date for part B is early December. An overview of RDA can be found in the Prospectus, and is available online in the public JSC website: [http://www.collectionscanada.ca/jsc/rda.htm](http://www.collectionscanada.ca/jsc/rda.htm)

7. ISBD report (Dorothy McGarry)

The consolidated ISBD was finished and sent to the publisher in April and it is expected to be available in July. There is expected to be an update to it within a couple of years. One of the major points to consider is what will be done with the GMD, since it is thought that moving the location from after the title proper would be a good idea.

8. LC report (Seanna Tsung)

(See also the Geography and Map Division report on page 10.)

**Geography and Map Division, Library of Congress**
Seanna Tsung, Senior Cataloging Specialist, G&M

**Cataloging Developments, Jan.-June 2007**

**Core level cataloging in G&M**

We continue to catalog maps, atlases, and electronic resources as core level (encoding level 4) as needed. The most common reason for us to use core level is to save cataloger time by avoiding the establishment of headings for added entries we would trace if the record was full level (publishers, etc.). The main entry is always established. Records for map sets/map series are done at full
level, as are records for items housed in our vault.

**Teleworking**
We are continuing with the cataloging of maps and atlases of China that were scanned by Academica Sinica, thus getting online control of a portion of our pre-1970 title collection.

**RDA review**
The cataloging team is continuing to review the revisions and new portions of RDA as they become available, and reporting our comments and suggestions to our Cataloging and Policy Support Office for discussion at meetings of the Joint Steering Committee.

**Sherman collection**
Cataloging of the Sherman collection, a group of 213 maps (printed and manuscript) and atlases, is nearing completion. This collection is among the last of the materials from the Civil War bibliography to be cataloged and mounted on our website.

**Nautical charts**
In preparation for their transfer to offsite storage, a member of the cataloging team is working to help develop sheet level inventory/holdings information for our nautical charts, which have not previously been under online bibliographic control.

**Interns**
We have benefitted and are benefitting from the work of a number of interns, in controlling CD-ROMs and nautical charts. Other interns have been working with the Digital Team in scanning, for example, an important 18th-century set/series of France.

9. **MARBI report (Susan Moore)**

While there weren’t a lot of discussion papers or proposals at this conference, there was a great deal of discussion surrounding Proposal no. 2007-06, Changes for the German and Austrian conversion to MARC 21. In this proposal were two items of interest to the cartographic community. The first of these was the section on codes for multivolume monograph record levels in the MARC 21 Bibliographic format. Some think that the codes and options that this provides may help in providing information on map sheet holdings in bibliographic records. The other was adding a field for a geographic name added entry to the MARC 21 Bibliographic format. The proposed field will be used in a manner similar to the current 752 field (Added Entry -- Hierarchical place name), although the names will not be in hierarchical order. Both of these sections passed.

The new list of language codes will be out in August or September. Update no. 7 is available for download at the web site [http://www.loc.gov/cds/PDF-downloads/marc/index.html](http://www.loc.gov/cds/PDF-downloads/marc/index.html)

10. **OCLC report (Nancy Kandoian for Ellen Caplan)**

**OCLC Update on Cataloging and Quality Control Activities for MAG-ERT CCC June 24, 2007**
Ellen Caplan, OCLC
June 18, 2007

**Quality Control**
OCLC has not had any quality control projects specifically related
to cartographic material since my Midwinter report. However, quality control staff members continue to correct and upgrade all types of bibliographic and authority records. In addition, they continue to merge duplicate records, including a small number of map duplicates. From July 2006-May 2007 the following records were processed:

Records Replaced: 2,224,034  
Manual Merges: 35,680  
Map merges (only): 203  
NACO Records Added: 260  
NACO Records Replaced: 4,344  
Change Requests Received: 144,273  
Change Request Received (maps only: 364)

OCLC-MARC Format Update 2007
The OCLC-MARC Update that covers the MARC 21 Bibliographic and Authority Format Updates 6 (October 2005) as well as several other elements suggested by users and OCLC staff was installed on May 20, 2007. Technical Bulletin 254, “OCLC-MARC Format Update 2007 and Institution Records to Accommodate the RLG Union Catalog” (www.oclc.org/support/documentation/worldcat/tb/254/) details the changes that are part of the update, including:

- Changes for the Registry of Digital Masters: field 506 first indicator “Restriction Flag” and related new subfields
- New subfields $e (Relator Term) and/or $4 (Relator Code) in fields 630, 650, 651, 654
- New field 662 “Subject Added Entry – Hierarchical Place Name”
- Implementation of local fields valid in RLIN, which will assist with the RLIN migration
- Validation of new MARC codes

Connexion
Connexion client version 1.72 was released in March 2007 to resolve problems associated with Microsoft Windows update KB918118.

In May 2007 changes were made in the Connexion browser to accommodate institution records (IRs). Bibliographic institution records in WorldCat are the result of incorporating bibliographic “cluster” records from the RLG Union Catalog into WorldCat during the integration of RLG into OCLC.

Release of Connexion client 2.00 is planned for late June 2007. It will include:

- Support for institution records (IRs) in WorldCat
- New toolbar options and revised menu layout
- Non-Latin script enhancements
- A new export option to allow for export of bibliographic records as Dublin Core Qualified (complete availability of this option is planned for later in 2007)
- The addition of several new OCLC-supplied macros and corrections to existing OCLC-supplied macros in the OCLC macrobook

Add&Edit007 is one of the new macros that map catalogers may find useful. It allows users to add or edit a 007 using a guided entry approach similar the 006 guided entry. It is an additional tool that can be used to easily create 007 fields. There is also a correction to the Generate034 macro that creates an 034 field based on data in field 255. Field 255 must be correctly formulated per
AACR2 rules and must use the degree sign, miagkii znak and tverdyi znak to indicate degrees, minutes and seconds. In addition, the problem related to a single degree was corrected. For complete information on the OCLC-supplied macros, check Client Help.

For more information on Connexion recent and future enhancements, check out the following:

- [www.oclc.org/connexion/interface/browser/enhancements/future.htm](http://www.oclc.org/connexion/interface/browser/enhancements/future.htm)
- [www.oclc.org/connexion/interface/client/enhancements/recent.htm](http://www.oclc.org/connexion/interface/client/enhancements/recent.htm)
- [www.oclc.org/connexion/interface/browser/enhancements/recent.htm](http://www.oclc.org/connexion/interface/browser/enhancements/recent.htm)

**OCLC Terminologies Service**

OCLC recently added the Getty Research Institute’s Vocabularies (the Art & Architecture Thesaurus, Getty Thesaurus of Geographic Names, and the Union List of Artist Names) to OCLC’s Terminology Service. For more information on the service see [http://www.oclc.org/terminologies/default.htm](http://www.oclc.org/terminologies/default.htm).

As always, should you have any questions about OCLC products and services, check out the OCLC Booth while you are at ALA.

11. RBMS Bibliographic Standards Committee Report (Nancy Kandoian)

The Bibliographic Standards Committee (BSC) of RBMS is continuing work on additional sections of its Descriptive Cataloging of Rare Materials, those for serials and music. Its recently published Descriptive Cataloging of Rare Materials (Books) is now also available on Cataloger’s Desktop. Another priority for the group is the compilation of a companion volume to that publication, which will be Examples to Accompany DCRM(B). The committee is also working on a core competencies document.

Long-time BSC chair Deborah Leslie of the Folger Shakespeare Library is stepping down, and Randal Brandt of the Bancroft Library at UC Berkeley is taking over.

12. Old Business

a. Task Force on Guidelines for Recording Map Set Holdings

Betsy Eggleston has resigned as chair of the Task Force on Guidelines for Recording Map Set Holdings because of her recent job change. Thanks to Betsy for her service as the chair. Nancy is in search of a new chair to succeed Betsy.

b. Pre-20th century map cataloging pre-conference—post-preconference report (Carolyn Kadri, Seanna Tsung, and Nancy Kandoian)

Carolyn, Seanna and Nancy appreciated the support from CCC and MAGERT for the preconference. Several CCC members commended them for their excellent work. There is an interest for MAGERT to publish the preconference manual. They will consult with the MAGERT Publications Committee regarding this possibility.
13. New Business

a. Cataloging aspects of digital-preservation contract at UC Santa Barbara and Stanford with (National Digital Information Infrastructure and Preservation Program) NDIIPP funding (Mary Larsgaard)

UC Santa Barbara is one of the NDIIPP partners in collecting and preserving important digital content that is at risk of loss if not preserved now. (Please see the report beginning on page 14 of this issue showing the cataloging involved in this project.)

b. Input standards for 007 and 052 fields, recommendations to OCLC and MARC standards (group discussion)

There was a general consensus around the table in changing the current input standard of the map and globe 007 fields from “Optional” to “Required if applicable” for the OCLC’s standard. The latest version of Connexion will have a built in feature similar to “guided entry” which makes the inputting of the 007 field less difficult. There was not enough time in the meeting to discuss the input standards for the 052 field.

The meeting adjourned at 12:30 pm.

Respectfully submitted,
Tammy Wong

The Geography and Map Division
Library of Congress
June 22, 2007

I want to share with you some
new community of casual and serious researchers who will benefit from knowledge about maps, map holdings, and reproduction of maps for a whole range of uses. While traditional users will continue to find utility in historical materials, it is expected that new uses of geographic information systems by traditional scholars and traditional disciplines will bring a whole host of new users who will be encouraged to employ cartographic products.

Acquisition

Waldseemüller Map

We acquired the 1507 world map by Martin Waldseemüller in May 2003. Since then efforts to place the item on permanent display have been developed and currently we are working with the National Institute of Standards (NIST) to have an encasement constructed which will allow us to display the map in the Library of Congress’s Jefferson Building for a long period of time; that encasement being constructed is the most ambitious of such projects to date. The NIST is the group who developed the Documents of Freedom encasement at the National Archives several years ago. The encasement will be ready in December 2007, following testing to ensure that the original document is indeed protected we will hold a formal opening of the world treasure at the time of the opening of the Kislak Collection exhibit in the Jefferson Building of the Library of Congress.

A new publication, the first translation of Waldseemüller’s Cosmographiae Introductio (1507) in a century and the first with extensive footnoting, is scheduled for release in late January 2008. In line with that release, a conference on the 1507 map and cartography in the period will be convened at the Library.

Cataloging

During the past few years we have developed a new position description that is applicable to all new staff and existing catalogers in the division. That position description calls for wide responsibility for individual catalogers, from cataloging maps and atlases to maps on compact disk and on line website. Cataloger Iris Taylor was selected in September 2005 and completed her year in the Library’s Leadership Development Program in October 2006.

An effort is underway to ensure that our rarest atlases and maps are under full cataloging control. The vault project is moving forward, with increasing materials under control and more readily available descriptively to the public.

We continue to catalog maps, atlases and electronic resources as core level (encoding level 4) as needed. The most common reason for us to use core level is to save cataloger time by avoiding establishing headings for added entries we would trace if the record was full level (publishers, etc.). The main entry is always established. Records for map sets/map series are cataloged as full level, as are records for items housed in our vault.

We are using telework as a method to continue the cataloging of the maps and atlases of China that were scanned by Academia Sinica, Taiwan, thus providing online control of a portion of our pre-1970 title collection.

The cataloging team continues to review the revisions and new portions of RDA as they become available,
and reports comments and suggestions to the Library’s Cataloging and Policy Support Office for discussion at meetings of the Joint Steering Committee.

The cataloging of the W.T. Sherman map collection, a group of 213 maps (printed and manuscript) and atlases, is nearing completion. This collection is among the last of the materials from the Civil War bibliography to be cataloged and mounted on our website.

**Inventory/preservation:**

**Rehousing of US maps**

For the past 5 years we have had a team working on rehousing/relabelling our title collection of US maps, pre-1970. At present over 130,000 maps have been rehoused, and an assessment of preservation concerns made. That project has systematically worked on the individual state holdings in the Division and as of this date only a handful of states remain for work; of course, the largest of those remaining is California, so we are not there yet, but we estimate another 30,000 maps remain to be handled and rehoused. It is expected that that project will be completed within the year.

**Academia Sinica Project**

For the past 4 years we have been engaged in a number of projects, related to retrospective materials, for Asia. From the major efforts of Professor Li Xiaocong, Peking University, to identify and to assist us in assessing preservation concerns for our Chinese maps collection pre 1900, to the work of Academia Sinica, Taipei, Taiwan, in the past two years to scan, catalog, maps in our China collection—maps, atlases, set maps, the first time we have obtained increasing information about the importance of these holdings to China and China researchers. Professor Li issued a cartobibliography, in Beijing, in Chinese, *A Descriptive Catalogue of the Traditional Chinese Maps Collected in the Library of Congress* (Beijing: Cultural Relic Publishing House, 2004) about our holdings, and that publication has appeared on the internet, thus further enhancing knowledge of our holdings.

**Nautical Charts**

In anticipation of the transfer of certain portions of our collection to offsite storage in 2009 (that includes the three dimensional plastic raised relief maps, the 20th century globe collection, the Heezen-Tharp collection, and the nautical chart collection for all issuing bodies except the British Admiralty, the US Hydrographic Office and the US Coast Survey materials). Staff and interns are involved during the past year, and continuing, in creating inventories to those nautical charts slated for off site storage. A member of the cataloging team is working to help develop sheet level inventory/holdings information for the nautical charts; these items have not been under online bibliographic control.

**Scanning**

The scanning program in the Geography and Map Division is now more than 10 years old. To date, more than 10,000 maps have been added to the online database. These items include many historical materials, much Americana, and increasingly materials from throughout the world. The scanning program, our Digital team, is driven by long range scanning proposals and readers’ demand for reproductions of Division materials.
in digital format. We celebrated the posting of our 10,000th map online in September 2006.

We set out in the beginning of the program 10 years ago to scan popular items in our collection based on the use of established cartobibliographies as the framing device. Since the beginning we have placed the panoramic maps, railroad bibliography, US Civil War, American Revolutionary War items on line. Today the first three mentioned group of materials are practically completed, with new panoramic maps added routinely and with the Civil War materials lacking only the Sherman collection from being online.

This year we added the Jedediah Hotchkiss Civil War map collection and a year ago we entered into an agreement with the Virginia Historical Society and the Library of Virginia to post Civil War maps in their collections on our site.

In the matter of the US Revolutionary War materials, much progress has been made and yet much remains to be done; we have added the Rochambeau collection on line but yet to be scanned are several items, including nearly 1800 Atlantic Neptune sheets in our collection. In the meanwhile we continue to receive requests for county landownership maps, set map segments, World War II and other conflict data, increasingly maps from the Luso Hispanic world cartobibliography and so on. We have also been involved in the tedious task of scanning the US Serial Set maps, those that contain any coloration, and progress is being made there; that is a project with Readex.

We have an agreement with the University of Texas to scan the pre-1923 Sanborn fire insurance map sheets for Texas. Plans are still being developed for a similar agreement with Stanford regarding California cities.

Interns are working this summer to scan the Casini 18th-century topographical survey of France and materials from the collection of the Real Escuela de Navigacion, Cadiz (Maggs Brothers Collection) related to Latin America and the Spanish world.

Reference

The Reading Room is involved in final editing of the machine readable form of the 1981 Fire Insurance Maps in the Library of Congress. That work, which lists Sanborn map holdings in the Division, will be updated with information on the additions to our Sanborn collection that has occurred since 1981. It is hoped that as the Division scans Sanborn maps the digital file will be linked to the online data base. Interns are working this summer in the reading room on this project.

Two new publications of the Division will be appearing within the year: Vincent Virga and the Library of Congress’s Cartographia: Mapping Civilizations will appear in October 2007 and John Hessler’s work on Martin Waldseemüller’s Cosmographiae Introductio, the 1507 map and globe gores, will appear in January 2008. Planned also are the latest issue of the Philip Lee Phillips Society newsletter (summer 2007 release) and an occasional paper in the Phillips Series devoted to recent acquisitions of the Geography and Map Division.

The Geography and Map Division collections now contains
approximately 5.5 million map sheets, 80,000 atlases, 500 globes and globe gores, 3000 raised relief images, and over 18,000 CDs containing maps. To date, with the institution of machine readable cataloging in the early 70s, approximately 500,000 bibliographic records exist and that number is strongly represented by contemporary maps, i.e., those acquired since 1970.

The reading room team has continued to build its website listing finding aids of use to the researcher. In addition to works on Afghanistan, genealogical materials for Central and Eastern Europe and the Wiens Collection, the 9 volume Phillips-LeGear’s *A List of Geographical Atlases in the Library of Congress* has been scanned and a pdf file will be mounted shortly. Also, a work by Mike Kline of the Reading Room on the Louisiana Purchase will be forthcoming shortly.

**Cartography for Congress**

Our main entry into the GIS field has been through our Congressional Cartography Program. The cartographer there, and we have vacancy which occurred at the end of January for a second cartographer/data person, has been actively engaged with individual Congressional requests, committee requests, and those long-term research projects received through the Library’s Congressional Research Services. The program has effectively met congressional demand for timely maps depicting every imaginable topic, from the impact of Katrina and Rita on the Gulf Coast, to the long term impact of the reduction of AMTRAK Service.

Ginny Mason and the Congressional Cartography Program were honored as a top governmental GIS program at the annual ESRI user’s conference in August.

**Outreach**

In the matter of outreach, the Division has tied much of its programming in this area to association with the Phillips Society in which an annual meeting is held. So far in the past 5 years we have held meetings of content at the Miami Map Fair, the International Map Collectors Society meeting in Washington (October 2006), Denver (2005), with the Texas Map Society (in Texas and in Washington in September 2005), in Chicago during the IMCoS meeting in 2001 and during the map extravaganza in Chicago in November 2007. We host in our division the monthly meeting of the Washington Map Society. A year ago we hosted, along with the Cartographic Users Advisory Council, a 2-day program on the future of Map Librarianship and Map Libraries, preceded by a one-day IFLA workshop on the paper map collections.

In September 2005 we opened the latest exhibit in our G&M corridor, the cosponsored exhibition Maps in Our Lives with support from the American Congress on Surveying and Mapping; the exhibition will remain on site until the end of 2007. The exhibition will appear at the annual ESRI User’s Conference at San Diego in the summer of 2008. That exhibition is now available on line on our website.

John R. Hébert
Chief, Geography and Map Division
Library of Congress

**NATIONAL GEOSPATIAL DIGITAL ARCHIVE (NGDA)**

**Presentation to ALA MAGERT Cataloging & Classification Committee**
I. Objectives of the project:

- Create a new national federated network committed to archiving geospatial imagery and data.

- Investigate the proper and optimal roles of such a federated archive, with consideration of distant (dark) backup and migration, directly serving content to users, vs. referring requestors back to the originators of the data for copies or assistance, active or passive quality/integrity monitoring, application of metadata, federated searching, dissemination of metadata, etc.

- Collect and archive major segments of at-risk digital geospatial data and images.

- Develop best practices for the presentation of archived digital geospatial data.

- Develop partner communication mechanisms for the project and then ongoing.

- Develop a series of policy agreements governing retention, rights management, obligations of partners, interoperability of systems, and exchange of digital objects.

II. Catalog record/metadata records – an example:

Metadata for The California Spatial Information Library (CaSIL)
- 3.7 terabytes of digital geospatial metadata.

http://new.casil.ucdavis.edu/casil/
- phenomenal good luck in that the downloaded data had extensive and very well done FGDC metadata, which meant that the metadata is relatively easily ingested into the interface for NGDA, the Alexandria Digital Library Webclient: http://webclient.alexandria.ucsb.edu is current ADL interface; beta NGDA interface is at http://clients.alexandria.ucsb.edu/ngda/
- all that is required as far as original cataloging is concerned is that what ADL calls “collection-level metadata” is created at those points where ADL aggregates data in a higher-level way that CaSIL does not
- beginning of sample metadata record from CaSIL follows

<?xml version="1.0" encoding="ISO-8859-1" ?>
<IDOCTYPE metadata (View Source for full doctype...)>
  <idinfo>
    <citeinfo>
      <origin>Originally developed by Teale Data Center GIS Lab; updated by California Air Resources Board, Planning and Technical Support Division.</origin>
      <pubdate>March 2004</pubdate>
      <title>ARB_California_Counties_aligned_03</title>
      <geoform>vector digital data</geoform>
      <onlink>http://gis.ca.gov/casil/boundaries/arb/</onlink>
    </citeinfo>
  </citeinfo>
  <descript>
    <abstract>This California county boundaries layer is a shapefile coverage representing the California county boundaries, at moderate spatial resolution, aligned to match well with the ARB California Air Basins and California Air Districts polygon boundary shapefiles.</abstract>
    <purpose>This California county boundaries layer is a shapefile coverage representing
the California county boundaries, at moderate spatial resolution, aligned to match well with the ARB California Air Basins and California Air Districts polygon boundary shapefiles. It is not intended to replace more spatially detailed county boundary layers available elsewhere.

5.1 (Build 2600) Service Pack 1; ESRI ArcCatalog 8.3.0.800

Microsoft Windows 2000 Version 5.1 (Build 2600) Service Pack 1; ESRI ArcCatalog 8.3.0.800

National Spatial Reference System 1983 (NAD 83) ellipsoid

North American Datum of 1983

WGS 1984

The California Counties thematic layer was created from the ARB California Air Basins and Air Quality Planning Districts polygon boundary shapefiles. The data coverage is limited to land areas and does not include the coastal zone. To use this layer, you must have an ESRI ArcGIS 8.x or higher software license. This layer is available for download in various formats, with the native format being ESRI Shapefile. The layer includes California Counties, California Air Districts, and California Air Basins polygon boundaries.

The California Counties thematic layer is part of the California Counties thematic layer suite, which includes the following sub-layers:

- California Counties
- California Air Districts
- California Air Basins
- California Counties polygons
- California Air Districts polygons
- California Air Basins polygons

This layer is intended for use in geographic information systems (GIS) and can be used for mapping and analysis purposes. The layer can be used to create custom maps, perform spatial analysis, and display data in a GIS environment. The layer is compatible with various GIS software packages, including ESRI ArcGIS, QGIS, and others.

The layer is distributed under the Creative Commons Attribution 4.0 International License, which allows for free use, distribution, and modification of the data provided that appropriate credit is given to the original creators and sources.

This layer is intended for use in geographic information systems (GIS) and can be used for mapping and analysis purposes. The layer can be used to create custom maps, perform spatial analysis, and display data in a GIS environment. The layer is compatible with various GIS software packages, including ESRI ArcGIS, QGIS, and others.

The layer is distributed under the Creative Commons Attribution 4.0 International License, which allows for free use, distribution, and modification of the data provided that appropriate credit is given to the original creators and sources.
<eainfo>
<attr>
<attrlabl>FID</attrlabl></attr>
<attr>
<attrdef>Internal feature number.</attrdef>
<attrdefs>ESRI</attrdefs>
</attr>
<attr>
<attrlabl>Shape</attrlabl></attr>
<attr>
<attrdef>Feature geometry.</attrdef>
<attrdefs>ESRI</attrdefs>
</attr>
</attrdomv>
<udom>Coordinates defining the features.</udom>
</attrdomv>
</attr>
<attr>
<attrlabl>CACOA_ID</attrlabl></attr>
</attr>
<attr>
<attrlabl>CONAME</attrlabl></attr>
</attr>
<attr>
<attrlabl>NAME</attrlabl></attr>
</attr>
<attr>
<attrlabl>CONUM</attrlabl></attr>
</attr>
<attr>
<attrlabl>DISTANCE</attrlabl></attr>
</attr>
<attr>
<attrlabl>SYMBOL</attrlabl></attr>
</attr>
<attr>
<attrlabl>IslandName</attrlabl></attr>
</attr>
<attr>
<attrlabl>BaySplinte</attrlabl></attr>
</attr>
<attr>
<attrlabl>cntyi_area</attrlabl></attr>
</attr>
</attrdomv>
</eainfo>
Wrapping up another year as I worry about wrapping up some holiday gifts. The year had some great new map and atlas releases, as well as a large number of good geography studies. In this issue I will be brief and add a few items of interest. I also have added some ideas for your gift-giving needs (or for giving yourself some neat carto-treats). The holidays may be over when you are reading this, but just think of all the great New Year deals you might get on this stuff.

You may, of course, want to give a gift of cartography to your library’s collection. One of the books I picked up last week is so new that the ink is still drying. See America From the Air below. Enjoy the list and I will be back to business in the next issue.

Gift Ideas

Gift-giving is a universal concept. No matter what your religious belief or ethnic background, the exchanging of gifts is one of great pleasure. Giving a gift is not one of waiting for a holiday either; gifts, when given at an unexpected moment, are often the most prized of all. Here are some gifts relating to maps and cartography that you may want to remember all year long. Additional items appear in Books below, but these are kind of a departure from the regular map formats that we are used to seeing.


Just out is this atlas, an interesting but irreverent look at the world. It IS an atlas, and it does contain facts and statistics on countries and natural features, BUT it also has a bit more than any atlas you might know of. This is an atlas with a sense of humor and is perfect for the geographer in your life who is looking for a chance to see things a bit differently.

I found it to be quite an interesting work that will grace anyone’s desktop or bookshelf, or just be handy to drop on someone who you want to play carto-jokes on. If you see it, be sure to take a look. You will agree that if anything else, it puts geography into a more human realm.

Personalized Map Puzzle


Here is a one-of-a-kind gift. Just call and provide the starting point for your map and they will create a 400-piece puzzle of a six-by-four-mile area using USGS topo quads. A house-shaped piece in the center represents the address you choose. The map comes in a presentation box with space for a personal message. The completed map is 12 1/4 inches x 18 1/2 inches.

To order, call National Geographic toll-free 1-800-437-5521 from the U.S. and Canada. Elsewhere, 1-513-341-2755.
Similar item can be ordered from Acorn (http://acornonline.com/).

**Personalized Traveler’s Maps of the United States and the World**

Someone you know loves to travel, or at least dreams of journeys around the world. Why not give them something to help them keep track of their expeditions? You can give them a map, customized with their name (or family name) embossed on it.

Or maybe you wish to inspire them to see all the important stuff. Order the *1,000 Places to See Before You Die Framed Map & Book* set. Then they can read the book and plot the places they visited on the map.

Both of these items are available from the Wireless Catalog (http://www.thewirelesscatalog.com/) or go to Jessen Media (http://www.jessenmedia.com/website/) for the personalized maps.

**Carto-Neckties**

http://www.philaprintshop.com/map-gifts.html

Not so original, but these ties are reasonably priced and have some unique designs (e.g., celestial chart, the Nile Valley, Ireland, or an armillary sphere). Visit the Philadelphia Print Shop (they also sell prints, map facsimiles, and other carto-items).

**Elstead Maps**

http://www.elstead.co.uk/acatalog/Gifts.html

A variety of unique map gifts can be found here. Examples include:

**Ordnance Survey Map Jigsaw Puzzles**

http://www.elstead.co.uk/acatalog/Personalised_Map_Jigsaws.html

Unique 255 piece jigsaw maps centered on the place of your choice. Uses Ordnance Survey (UK) maps but has a variety of different series that they use (including satellite images). There are also 400 piece maps by the same company that produces the American quad puzzles. Other items include:

**Jigsaw puzzle maps for Children**

(http://www.elstead.co.uk/acatalog/Usborne_Map_Jigsaws.html)

**Simple Map Gifts**

http://www.world66.com/myworld66

Suppose that you just want to build a quick map of all the states or countries that you visited. Visit this site and you can construct a small map that is suitable for a web page or just a quick reference of your travel checklist. It is free to use, doesn’t make exciting maps, but might be useful for a lot of things.

**Online Maps and Internet Resources**

**Cutting Edge Research: Coastal Impact Study: Nation Under Siege**

http://architecture2030.org/current_situation/coastal_impact.html

**The Future of Coastal Regions.** As the climate changes, through natural or human progression, the impact of these changes will affect the growing world population, especially along the oceans. Many reports and studies have described the effects, but a picture does
so much better at showing the facts. This is the case with the Architecture 2030 website. Not only do they have the reports online, they have graphic depictions of actual cities as they appear now, and as they would look if the ocean levels rise.

Architecture 2030 is a “non-profit, non-partisan and independent organization… established in response to the global-warming crisis… [whose] mission is to rapidly transform the US and global Building Sector from the major contributor of greenhouse gas emissions to a central part of the solution to the global-warming crisis.”—Website About Us page

The reports and images cover a number of American cities along the Atlantic and Pacific coasts and the viewer is able to see each city as it is today, and as it would look if the levels of the oceans rose 3 or 5 meters. The impact studies also outline the effects that would occur inland as well, as the climate trends will not leave anyone out.

As an example, take a look at Boston as it is “animated” underwater (and returns closer to its 18th-century boundaries): http://architecture2030.org/current_situation/research/sea_level/boston_ma.html

This is a great site for environmental engineers, climatologists, and for anyone wanting to work on changing the future.

Visible Earth
http://visibleearth.nasa.gov/

Visible Earth is “a Catalog of NASA Images and Animations of Our Home Planet.”—Page subtitle. It contains mostly remote-sensing imagery of the Earth and is categorized with a search engine to locate images by a variety of topics and place names. Included are sections showing the “newest,” the “favorites,” and others. All images can be downloaded, with a number of resolutions available for each.

In addition, there are selected themes that are listed for direct access, as well as links to the various NASA-related image sites. There is also a “browse” list the offers a variety of ways to find specific images. A great feature here is the links to the NASA visualization studios, containing animations and graphic depictions of various topics. If you view the Scientific Visualization Studio, for example (http://visibleearth.nasa.gov/view_set.php?categoryID=2226), you can view geographic features by performing “fly-throughs.” It is a great way to view something as vast as an Alaskan glacier system or deep canyons.

This is a good site for anyone wanting to see the Earth from a unique perspective. Thematic images are available for geologists, climate and weather studies, historians and social geographers, as well as for almost any field. It is also useful for finding images on geographical locations, that include climate, disaster, and other themes. There is also direct access to the images that everyone loves to see of Earth: (Blue Marble: http://visibleearth.nasa.gov/view_rec.php?id=2429).

UB Libraries Develops New York State Geographic Data/Maps
Database
http://ublib.buffalo.edu/libraries/e-resources/nysgeodata.html

Ever wonder how many more canals there are in New York State other than the Erie Canal? Where are our reservoirs? What areas are designated “forests”? Where are the “falls” other than Niagara? (there are 163 more)

The University at Buffalo Libraries now provides a database, the NYS Gazetteer and GeoData Collection, developed by Geosciences Librarian Michele Shular, which facilitates searching and locating 38,000 places, features, and other geographic information within New York State. Ms. Shular has electronically linked U.S. Geological Survey (USGS) digital maps archived at the UB Libraries with the New York State portion of the “Geographic Names Information System” (GNIS), a Federal repository of official domestic geographic names maintained by the USGS. The NYS Gazetteer and GeoData Collection is available free to the public on the UB Libraries website.

Map Book Gallery (ESRI)

View some stunning maps and GIS applications in this volume. Also go to their museum gallery of other editions (http://www.esri.com/mapmuseum/index.html).

Need To Drive From New York to London? Ask Google

Seriously, this works. Visit the Geo-Christian blog and among other topics, you will find this article showing that you can get everything on Google!

Books: For Gifts and Gifts to Collections

Jackson, Daniel and James S. Mathews.
America From the Air: a Guide to the Landscape Along Your Route.

This book just came out and I was impressed enough to purchase a copy (and it didn’t hurt that I got a faculty discount at the time). If you fly across the United States and want to know more about what’s below you as you soar through the heavens, this is an interesting way to travel and learn. America From the Air shows aerial and satellite views along routes between U.S. cities. It also gives you a brief geography and geology course as you go.

Key cities, natural wonders, and general features are shown along each flight path, with annotations and descriptions of what you are viewing. Flight charts show the routes with keys to finding the sites. There is also an index of flights (forty of the most heavily traveled paths) that sorts the book out by flight paths so that you can quickly find your flight and move to the relevant section of the book. According to a publisher’s statement “In many regions of the country, readers will have a new page to read about every twenty minutes.”

For those with a more high-tech travel load, an included CD-ROM contains
the book so that you can follow along from your laptop and watch the miles go by beneath your seat. As a book, this can be enjoyed by anyone who wants to travel and see the U.S.A. It is also a good way to learn geology and natural history as the authors describe many types of features. The cover has a great shot of Mount Saint Helens that is described inside in detail. But the book also shows places that will interest everyone, such as: Gettysburg battlefield, the Sangre de Cristo Mountains (NM), and University of Notre Dame. It would make a great gift idea or a great book in a map collection.


“A satellite portrait of the Planet”—Cover. Another great atlas, as well as a great gift idea, *The Complete Earth* provides a wonderful look at our planet from space. Images are arranged by continent with all kinds of unique features being included. This book will amaze anyone who lives here and would make a good addition to any kind of collection for patrons of any age.


English edition of: *Planete mers*. This wonderfully illustrated work is an excellent introduction to marine ecology and the diversity of life under the oceans. The natural world underwater is mostly unknown to those of us who breathe air, but it is a realm that many of us would love to explore. Here is a chance to do just that without getting your feet wet.


*Planet Ocean* will please children and adults, and is a great resource for marine biologists, environmentalists, nature lovers, and for geologists and geographers. It is a good complement to some of the books listed above as it covers what is beneath the water the way that the others covered what was on the ground or over it.


As another complement to the above title, this DVD offers a look at marine animals and the effect of humans on these sentient beings. Endangered species on land are sometimes easier to depict than those living below the waves. This film focuses on global issues that affect ocean wildlife, including climate change, sea-level rise, over-fishing, and habitat destruction.
It also shows specific examples from places such as Antarctica, Melbourne Beach, Florida, the Klamath River, Oregon, and Monterey Bay, California.

Originally presented as part of an educational network television program, this film would interest marine biologists, environmentalists, and the general public.


Another good-sized book that will intrigue the scholar as well as the house guest, this work shows the history of civilization from the viewpoint of cartography. Examples from all stages in history, along with text and illustrations, provide a good general history of how maps were used by governments, commercial enterprise, and by people, as they lived, fought, developed, and decayed through time. More than 200 maps from the collection of the Library of Congress are reproduced and include many rare and important examples that show the course of human development. Included are maps such as the 1507 Waldseemüller Map of the World (famous now as the first to include the designation “America”), portions of Ortelius’s *Theatrum Orbis Terrarum* (1570) (considered the first modern atlas), and unusual works, such as William Faulkner’s hand-drawn 1936 map of the fictional Yoknapatawpha County, Mississippi.

It is a great gift book, with large, beautifully-rendered reproductions of maps (as maps were meant to be shown) from ancient to space-age. The work will interest scholars, students and map enthusiasts. It is suitable for anyone from grade school through adult.


Here is a book that shows sites on earth a bit closer to the ground. Over 250 photographs from National Geographic’s collections show great locations around the world. The photographs are rich in detail and show both familiar and exotic places in their realistic splendor. Many are of sights that we may never see in person, but that we always wish to visit.

Each chapter covers a specific region and provides a fair slice of the life, culture, and environment of the lands within. The photos are beautiful to view, and along with the text, help the reader to experience some of the essence of the world and its varied landscapes. This is not only a good gift item, but also a great book of images that would interest anyone.


The history of cartography shows its relationship to world progress and culture. This book describes the works of early cartographers who were trying to show their period of time, as well as
to document the movement of people throughout the centuries. It is large and predominantly features maps of all kinds, some ancient. It is definitely an attention-getter and would impress even the least impressed gift getter on your list.


Astronomy is a field with infinite possibilities for gift-giving. Every year, especially in autumn, a large body of new books, charts, and guides appears covering every aspect of the universe that can be imagined. This book is designed to be similar in design to a typical nature guide. It shows not only the major objects of our solar system, with descriptions and sighting directions, and it goes out into the vast reaches of space to provide images, charts, and scientific details on rarer objects, such as galaxies and nebulae.

It is an observer’s guide, but is also a good way to learn about the cosmos from the comfort of your home or while sitting outside on a starry night. This is a good work for introducing beginners and for more advanced amateurs, and provides instruction for both naked-eye and telescope observing. The images are beautiful and the text contains up-to-date information. It would make a good gift for the enthusiast, or even for someone whose interests are mainly aesthetic.


One of my favorite map websites, and one that keeps improving, is by UCLA’s Department of Epidemiology. It is the site devoted to Dr. John Snow and his incredible maps of London (http://www.ph.ucla.edu/epi/snow.html). The Snow maps are a model for thematic maps and in this case, it is the model for mapping of disease outbreaks. Epidemiology owes a great deal to this man and his relentless efforts to determine the causes and ways to stop the spread of serious disease through documentation.

This book is the story of “the worst cholera outbreak in Victorian London—and an exploration of how Dr. John Snow’s solution revolutionized the way we think about disease in cities.”—publisher description. The 1854 cholera epidemic in London, where crowded conditions and highly-mobile activities helped spread the disease, causing widespread mortality.

*The Ghost Map* documents Dr. Snow’s works on a day-by-day basis. The author also shows how Snow set the example of how contemporary city planners, physicians, and public officials think about the spread of disease in the modern urban environment.

This book is a good cultural history as well as an interesting work that will please not only a medical person, but also anyone with an eye to problemsolving and mystery. It is geared mainly toward adults but could be read and enjoyed by high-school students as well.
Have a good end of the year (and semester for some) period of peace and joy, and Happy New Year! —DJB

---

Rare, Antiquarian, or Just Plain Old: Cataloging Pre-Twentieth Century Cartographic Resources

The Workbook used and issued to participants during the June 2007 ALA preconference on cataloging early maps and atlases is now available to purchase for $40. The Workbook includes illustrations and cataloging examples taken from sheet maps, atlas plates and atlases, focusing on early and pre-twentieth century cartographic materials. Elements of description, transcription, mathematical data and supportive research are some of the areas covered by the Workbook. The price includes shipping and handling.

Orders should be sent to Jim Coombs, MAGERT Publications Distribution Manager, Maps Library, Missouri State University, 901 S. National, #175, Springfield, MO 65897 E-mail: JimCoombs@missouristate.edu
SATELLITE IMAGERY
WorldView 50cm, QuickBird 60cm, Ikonos 1m, ALOS 2.5m, IRS 5m
Ortho-rectification, tonal balancing, mosaic output, compression, DEM Generation &
Vector Feature Extraction: roads, buildings, hydrology, vegetation, land-use etc.

DIGITAL TOPOGRAPHIC MAP DATA
Medium-scale mapping of every country; large-scale maps for 2,000 cities worldwide
DRGs (scanned topos), DEMs (Digital Elevation Models) &
Vector Layers (contours, hydrology, roads etc.)

USA TOPOS, DEMS & AERIALS
24k - 500k DRGs, 10m & 30m NED DEMs, NLCD land-cover,
AirPhoto USA, NAIP, DOQQs & High-Res Urban Area Orthos

PAPER TOPOGRAPHIC MAPS
Academic discounts on countrywide sets

GLOBAL DATA BUNDLES
Low-cost Landsat, SRTM, VMAP, TPCs & World Vector Shoreline

CUSTOM SERVICES
Large-format scanning, geo-referencing,
metadata & index creation

tel +1.763.428.4129 • fax +1.303.790.9734
sales@landinfo.com • www.landinfo.com
GeoEye Authorized Reseller • USGS Business Partner • ESRI Business Partner • DigitalGlobe Distribution Partner
2006 DigitalGlobe Outstanding Achievement Award
SO HOW DOES SANTA DO IT?
I DUNNO. LET'S ASK MY DAD. HE KNOWS EVERYTHING ABOUT GEOGRAPHY!

HEY DAD!
YA KNOW THAT SANTA CLAUS DELIVERS TOYS TO KIDS ALL OVER THE WORLD ON CHRISTMAS EVE?
AND YA KNOW HOW YOU CHANGE DAYS WHEN YOU CROSS THE INTERNATIONAL DATE LINE?
WELL, WHAT HAPPENS WHEN SANTA CROSSES IT?

WELL, LET'S SEE ... IF HE CROSSES FROM EAST TO WEST ... NO, THAT WON'T WORK ... UM ... ER ... GAK!

NEED A GLOBE?