URLs at DU

How we added thousands of URLs in a few days

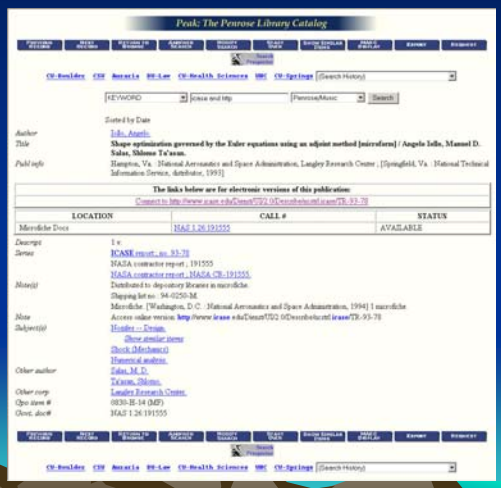
Catalog: http://bianca.penlib.du.edu/

Not Desirable: Microform Only

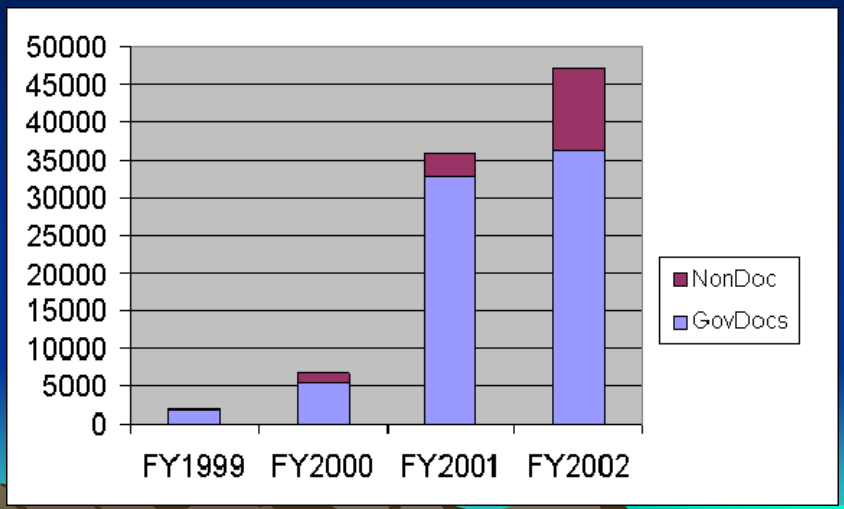
No URL in record. User must come to library.

Desirable: Web Access

Users may access from home!



URL Explosion at DU



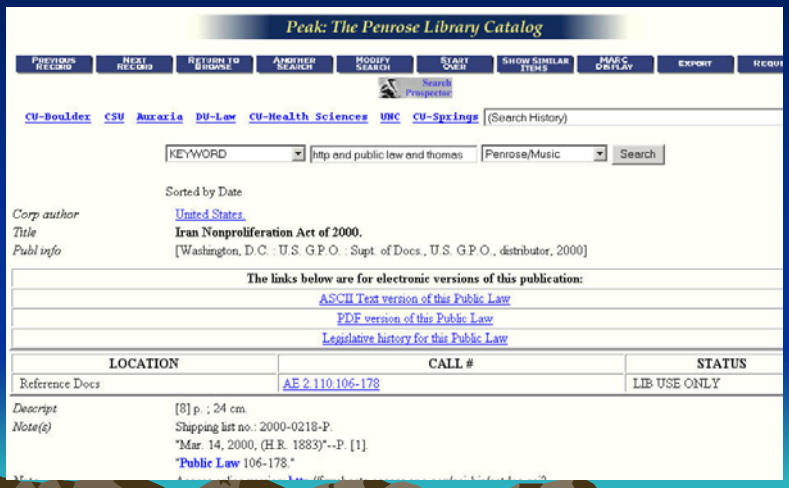
Records Affected 1

Sudocs Stem	Description	Records in Peak (http)	Records in CGP (http)	Updated?
AE 2.110: GS 4.110:	Public Laws, 1979-	5401 records (Legislative histories only before 104th Congress)	247 records	yes
GA 1.13: GA 1.5/2	GAO Documents, 1993-	5224 records	309 records	yes
ED 1.310/2:	Eric Digests, 1993-	950 records	290 records	yes
I 19.76:	U.S. Geological Survey Open-File Report	340 records	232 records	
J 32.2:	Office of Juvenile Justice and Prevention	179 records	51 records	
NAS 1.15:	NASA Technical Memorandum	395 records	8 records	
NAS 1.26:	Institute for Computer Applications in Science and Engineering (ICASE)	413 records	0 records	
NAS 1.60:	NASA Technical Paper	262 records	0 records	
PREX 3.10/4:	CIA Maps	334 records	0 records	

Records Affected 2

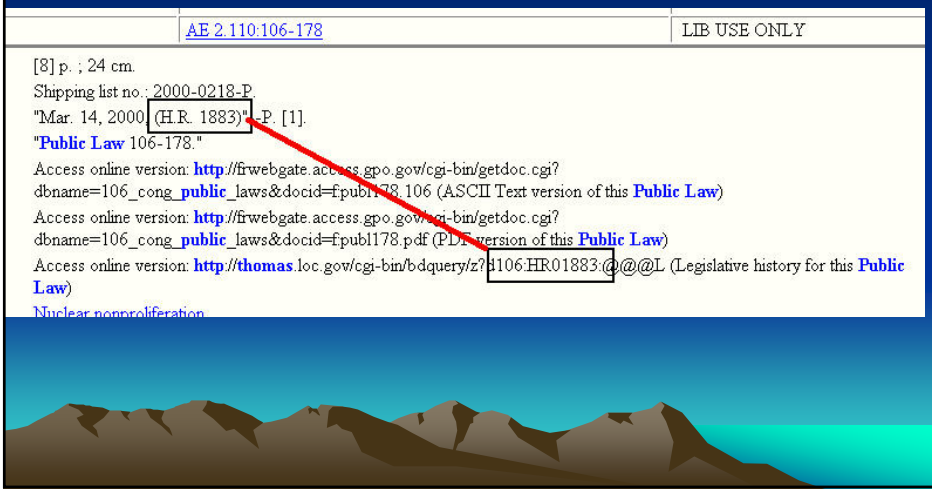
Sudocs Stem	Description	Records in Peak (http)	Records in CGP (http)	
Y 1.1/3:104-	Senate Documents			
Y 1.1/4:104-	Senate Treaty Documents	219 records	33 records	
Y 1.1/5:104-	Senate Reports	104: 428 records 105: 421 records 106: 478 records		
Y 1.1/6:104-	Senate Exec. Reports			
Y 1.1/7:104-	House Documents			
Y 1.1/8:104-	House Reports	104: 843 records 105: 849 records 106: 978 records		
Y 3.T 22/2:	Office of Technology Assessment, 1976-1995	524 records	1 record	
Y 3.P 31/19:	United States Institute of Peace	75 records	20 records	

Links to Legislative Histories



Deriving the URL

Congress / Bill No. in MARC record used to derive URL



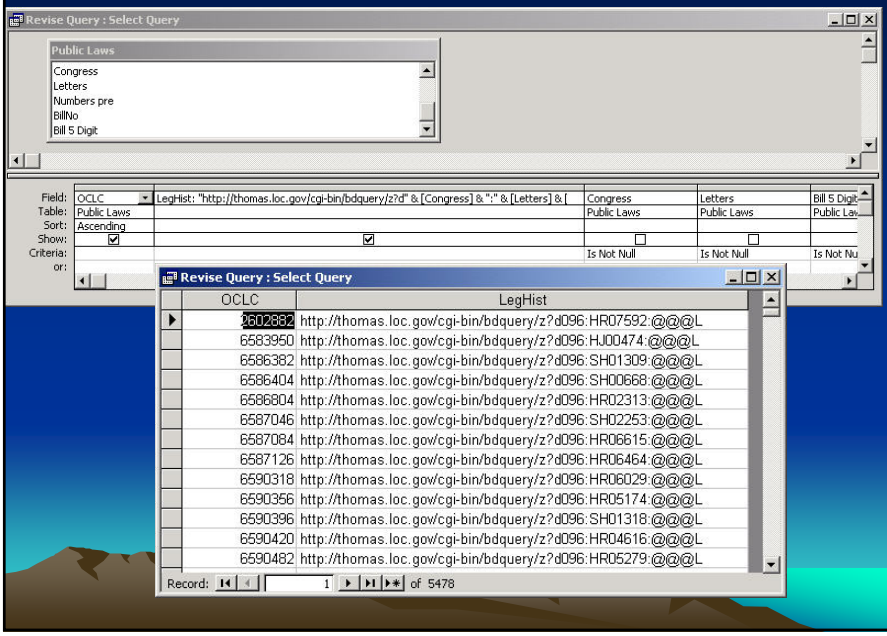
Access Database Derives Bill Number

Query1 : Select Query

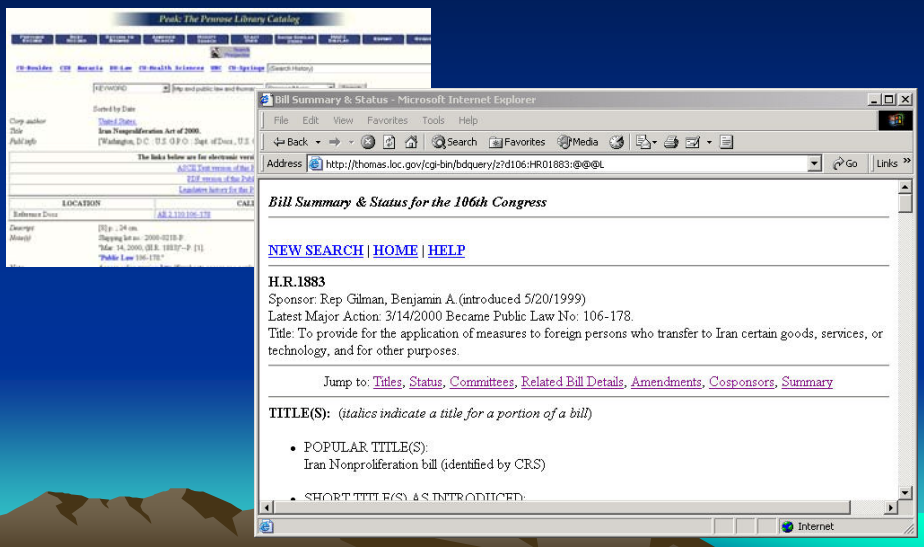
OCLC	Bill	Congress	Letters	BillNo	Bill 5 Digit
6598857	S.J. Res. 97	096	SJ	97	00097
6598889	H.R. 5794	096	HR	5794	05794
6598921	S.J. Res. 131	096	SJ	131	00131
6598949	H.R. 6585	096	HR	6585	06585
6621915	S.J. Res. 183	096	SJ	183	00183
6621968	H.J. Res. 442	096	HJ	442	00442
6621995	S. 2517	096	SH	2517	02517
6622060	S. 2666	096	SH	2666	02666
6632868	S.J. Res. 89	096	SJ	89	00089
6633493	H.J. Res. 521	096	HJ	521	00521
6633525	H.R. 4453	096	HR	4453	04453
6633573	H.R. 3434	096	HR	3434	03434
6633601	S. 1786	096	SH	1786	01786
6633659	H.J. Res. 445	096	HJ	445	00445
6633716	H.R. 6285	096	HR	6285	06285
6633739	H.R. 3979	096	HR	3979	03979
6633782	S.J. Res. 127	096	SJ	127	00127
6633808	H.R. 6842	096	HR	6842	06842
6633842	S. 1658	096	SH	1658	01658

Record: 1 of 5483

Access Derives URLs

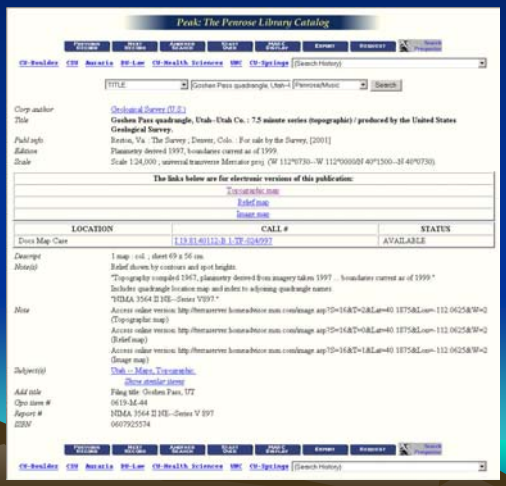


Result: Legislative History Links!

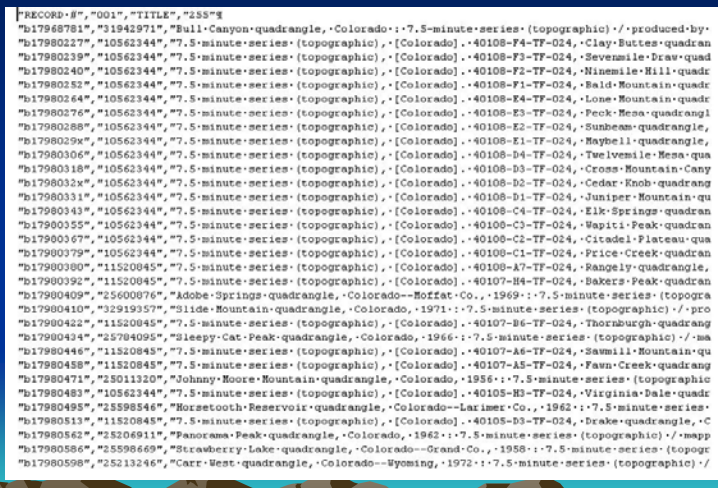


Maps via Terraserver

User can retrieve the map from the Web: either as a topographic map, a relief map, or an image map.



Topos: CSV file



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"b17980227","10562344","7.5·minute·series·(topographic),·[Colorado].·40108-F4-TF-024,·Clay·Buttes·quadran
"b17980239","10562344","7.5·minute·series·(topographic),·[Colorado].·40108-F3-TF-024,·Sevenmile·Draw·quad
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"b17980252","10562344","7.5·minute·series·(topographic),·[Colorado].·40108-F1-TF-024,·Bald·Mountain·quadr
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"b17980410","32919357","Slide·Mountain·quadrangle,·Colorado,·1971·:·7.5-minute·series·(topographic)·/·pro
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"b17980586","25598669","Strawberry·Lake·quadrangle,·Colorado--Grand·Co.,·1958·:·7.5-minute·series·(topogr
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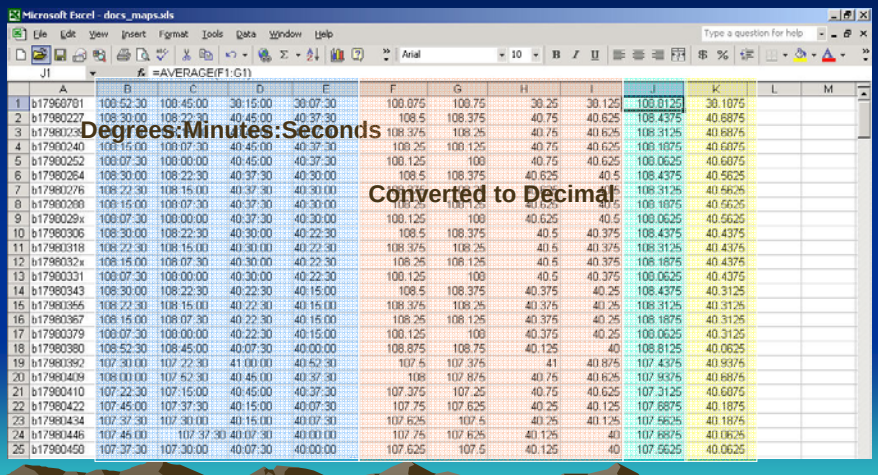
Topos: Deriving URLs

Average of F&G Average of H&I



Microsoft Excel - docs_maps.xls

File Edit View Insert Format Tools Data Window Help

J1 =AVERAGE(F1:G1)

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3	b17980239	108:22:30	108:15:00	40:37:30	40:30:00	108.375	108.25	40.75	40.625	108.3125	40.6875
4	b17980240	108:15:00	108:07:30	40:45:00	40:37:30	108.25	108.125	40.75	40.625	108.1875	40.6875
5	b17980252	108:07:30	108:00:00	40:45:00	40:37:30	108.125	108	40.75	40.625	108.0625	40.6875
6	b17980264	108:30:00	108:22:30	40:37:30	40:30:00	108.5	108.375	40.625	40.5	108.4375	40.5625
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9	b1798029x	108:07:30	108:00:00	40:37:30	40:30:00	108.125	108	40.625	40.5	108.0625	40.5625
10	b17980306	108:30:00	108:22:30	40:30:00	40:22:30	108.5	108.375	40.5	40.375	108.4375	40.4375
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18	b17980380	108:52:30	108:45:00	40:07:30	40:00:00	108.875	108.75	40.125	40	108.8125	40.0625
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20	b17980409	108:00:00	107:52:30	40:45:00	40:37:30	108	107.875	40.75	40.625	107.9375	40.6875
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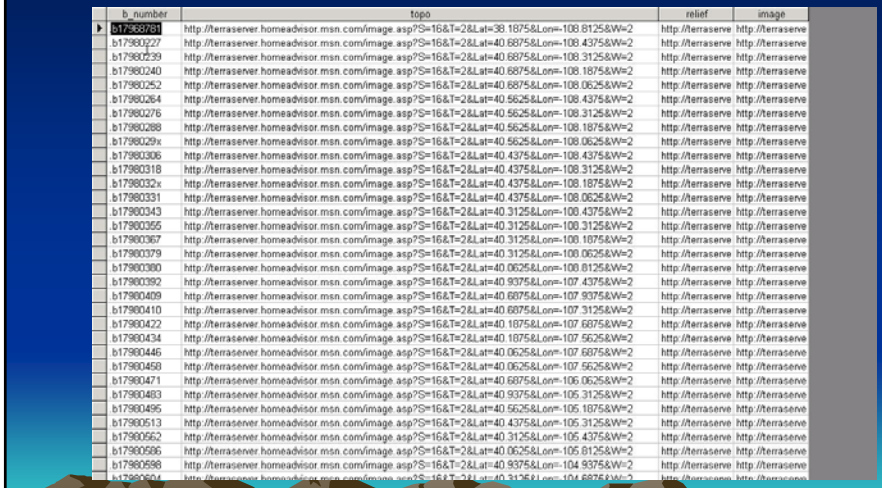
25	b17980458	107:37:30	107:30:00	40:07:30	40:00:00	107.625	107.5	40.125	40	107.5625	40.0625

Degrees:Minutes:Seconds

Converted to Decimal

Topos: Deriving URLs in Access



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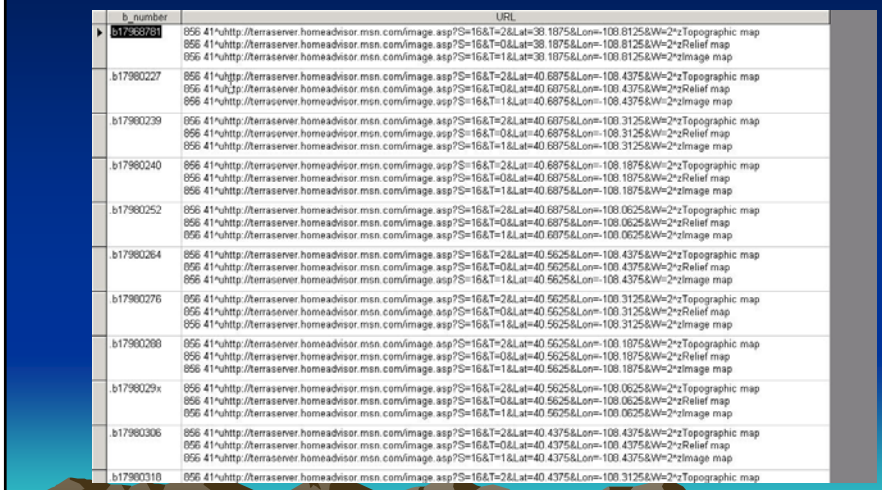
b17980471	http://terraserver.homeadvisor.msn.com/image.asp?S=16&T=2&Lat=40.6875&Lon=-106.0625&W=2	http://terraserve	http://terraserve
b17980483	http://terraserver.homeadvisor.msn.com/image.asp?S=16&T=2&Lat=40.9375&Lon=-105.3125&W=2	http://terraserve	http://terraserve
b17980495	http://terraserver.homeadvisor.msn.com/image.asp?S=16&T=2&Lat=40.5625&Lon=-105.1875&W=2	http://terraserve	http://terraserve
b17980513	http://terraserver.homeadvisor.msn.com/image.asp?S=16&T=2&Lat=40.4375&Lon=-105.3125&W=2	http://terraserve	http://terraserve
b17980562	http://terraserver.homeadvisor.msn.com/image.asp?S=16&T=2&Lat=40.3125&Lon=-105.4375&W=2	http://terraserve	http://terraserve
b17980586	http://terraserver.homeadvisor.msn.com/image.asp?S=16&T=2&Lat=40.0625&Lon=-105.8125&W=2	http://terraserve	http://terraserve
b17980598	http://terraserver.homeadvisor.msn.com/image.asp?S=16&T=2&Lat=40.9375&Lon=-104.9375&W=2	http://terraserve	http://terraserve

Topos: 3 URLs



b_number	URL
b17968781	856 41^uhttp://terraserver.homeadvisor.msn.com/image.asp?S=16&T=2&Lat=38.1875&Lon=-108.8125&W=2^zTopographic map 856 41^uhttp://terraserver.homeadvisor.msn.com/image.asp?S=16&T=0&Lat=38.1875&Lon=-108.8125&W=2^zRelief map 856 41^uhttp://terraserver.homeadvisor.msn.com/image.asp?S=16&T=1&Lat=38.1875&Lon=-108.8125&W=2^zImage map
b17980227	856 41^uhttp://terraserver.homeadvisor.msn.com/image.asp?S=16&T=2&Lat=40.6875&Lon=-108.4375&W=2^zTopographic map 856 41^uhttp://terraserver.homeadvisor.msn.com/image.asp?S=16&T=0&Lat=40.6875&Lon=-108.4375&W=2^zRelief map 856 41^uhttp://terraserver.homeadvisor.msn.com/image.asp?S=16&T=1&Lat=40.6875&Lon=-108.4375&W=2^zImage map
b17980239	856 41^uhttp://terraserver.homeadvisor.msn.com/image.asp?S=16&T=2&Lat=40.6875&Lon=-108.3125&W=2^zTopographic map 856 41^uhttp://terraserver.homeadvisor.msn.com/image.asp?S=16&T=0&Lat=40.6875&Lon=-108.3125&W=2^zRelief map 856 41^uhttp://terraserver.homeadvisor.msn.com/image.asp?S=16&T=1&Lat=40.6875&Lon=-108.3125&W=2^zImage map
b17980240	856 41^uhttp://terraserver.homeadvisor.msn.com/image.asp?S=16&T=2&Lat=40.6875&Lon=-108.1875&W=2^zTopographic map 856 41^uhttp://terraserver.homeadvisor.msn.com/image.asp?S=16&T=0&Lat=40.6875&Lon=-108.1875&W=2^zRelief map 856 41^uhttp://terraserver.homeadvisor.msn.com/image.asp?S=16&T=1&Lat=40.6875&Lon=-108.1875&W=2^zImage map
b17980252	856 41^uhttp://terraserver.homeadvisor.msn.com/image.asp?S=16&T=2&Lat=40.6875&Lon=-108.0625&W=2^zTopographic map 856 41^uhttp://terraserver.homeadvisor.msn.com/image.asp?S=16&T=0&Lat=40.6875&Lon=-108.0625&W=2^zRelief map 856 41^uhttp://terraserver.homeadvisor.msn.com/image.asp?S=16&T=1&Lat=40.6875&Lon=-108.0625&W=2^zImage map
b17980264	856 41^uhttp://terraserver.homeadvisor.msn.com/image.asp?S=16&T=2&Lat=40.5625&Lon=-108.4375&W=2^zTopographic map 856 41^uhttp://terraserver.homeadvisor.msn.com/image.asp?S=16&T=0&Lat=40.5625&Lon=-108.4375&W=2^zRelief map 856 41^uhttp://terraserver.homeadvisor.msn.com/image.asp?S=16&T=1&Lat=40.5625&Lon=-108.4375&W=2^zImage map
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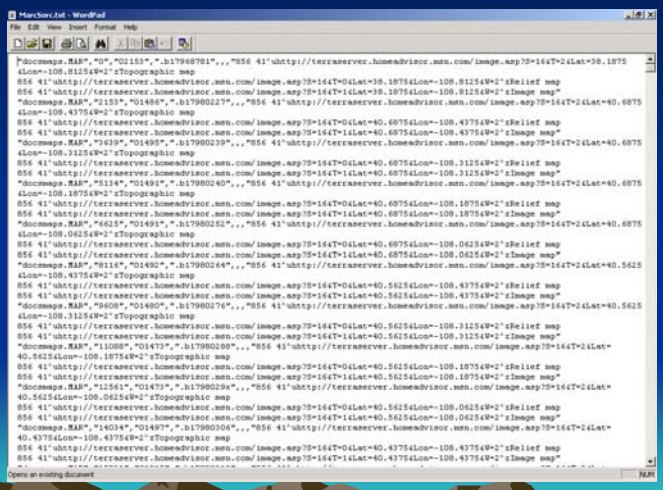
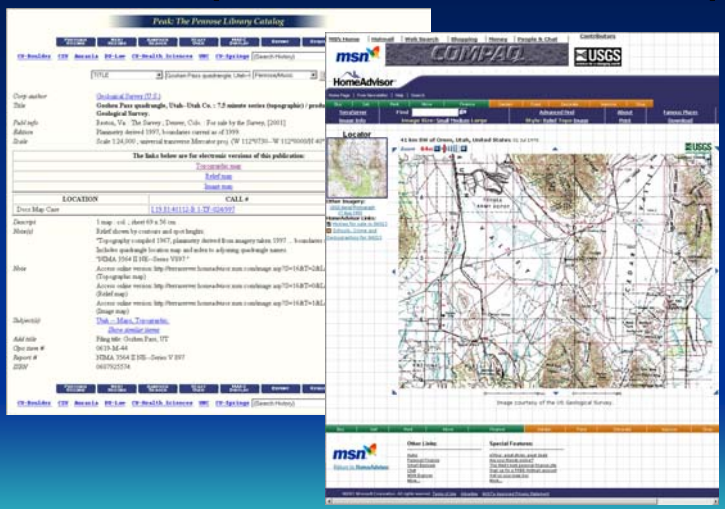
b1798029x	856 41^uhttp://terraserver.homeadvisor.msn.com/image.asp?S=16&T=2&Lat=40.5625&Lon=-108.0625&W=2^zTopographic map 856 41^uhttp://terraserver.homeadvisor.msn.com/image.asp?S=16&T=0&Lat=40.5625&Lon=-108.0625&W=2^zRelief map 856 41^uhttp://terraserver.homeadvisor.msn.com/image.asp?S=16&T=1&Lat=40.5625&Lon=-108.0625&W=2^zImage map
b17980306	856 41^uhttp://terraserver.homeadvisor.msn.com/image.asp?S=16&T=2&Lat=40.4375&Lon=-108.4375&W=2^zTopographic map 856 41^uhttp://terraserver.homeadvisor.msn.com/image.asp?S=16&T=0&Lat=40.4375&Lon=-108.4375&W=2^zRelief map 856 41^uhttp://terraserver.homeadvisor.msn.com/image.asp?S=16&T=1&Lat=40.4375&Lon=-108.4375&W=2^zImage map
b17980318	856 41^uhttp://terraserver.homeadvisor.msn.com/image.asp?S=16&T=2&Lat=40.4375&Lon=-108.3125&W=2^zTopographic map

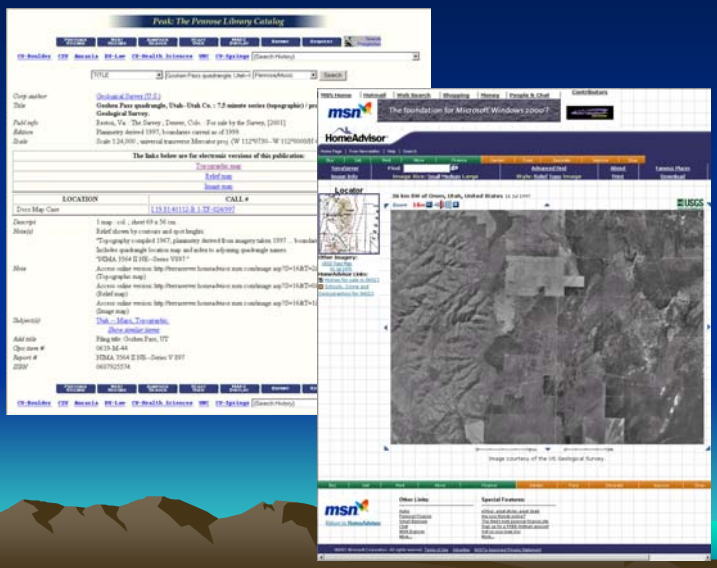
Topos: MARCSource



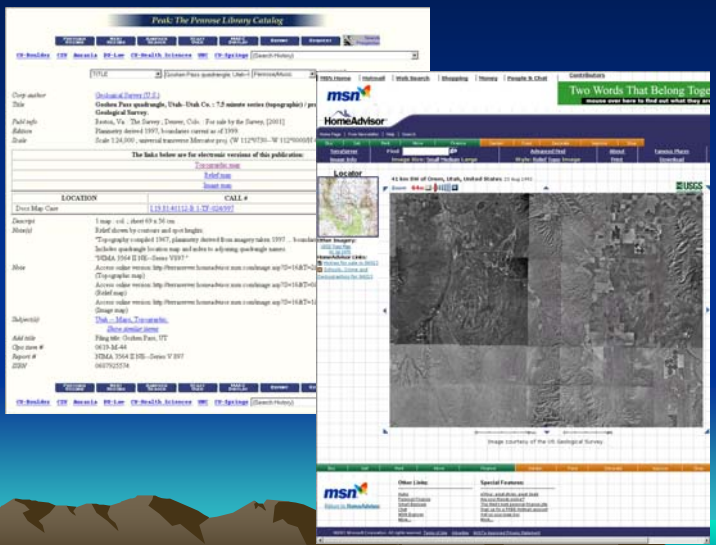
Topos: Terraserver topo



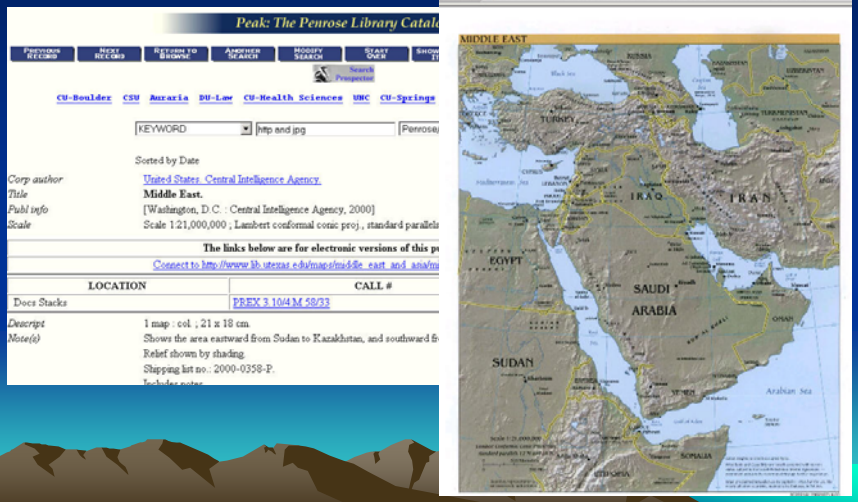
Topos: Terraserver Relief



Topos: Terraserver Image



CIA Maps



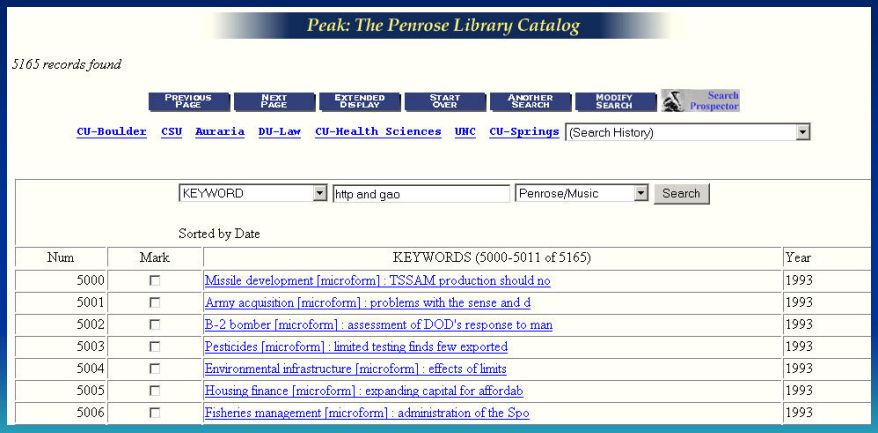
URLs Derived from Patterns

- Report numbers (ICASE, ERIC Digests, GAO, NASA Tech. Reports, Congress, etc.)
- Congress / Bill numbers (Legislative histories via Thomas)
- Latitude / Longitude (Maps via Terraserver)

Review of Steps Involved

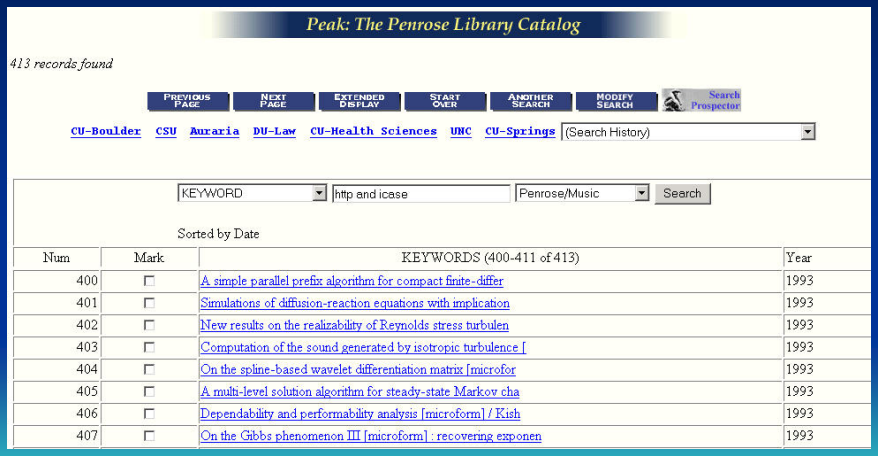
1. Identify population of records to be affected.
2. Build up URLs in Access database.
3. Export MARC records from catalog.
4. Write fields 856 and 538 to MARC records.
5. Import MARC records back to catalog.

GAO Reports

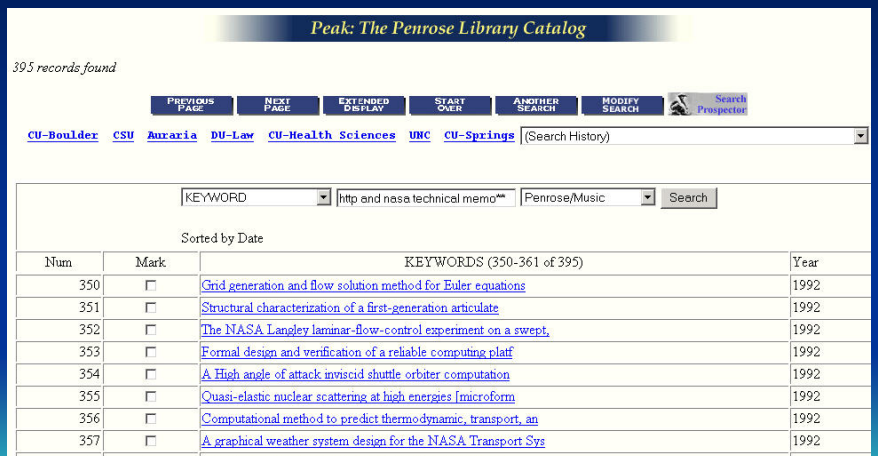


Num	Mark	KEYWORDS (5000-5011 of 5165)	Year
5000	☐	Missile development [microform] : TSSAM production should no	1993
5001	☐	Army acquisition [microform] : problems with the sense and d	1993
5002	☐	B-2 bomber [microform] : assessment of DOD's response to man	1993
5003	☐	Pesticides [microform] : limited testing finds few exported	1993
5004	☐	Environmental infrastructure [microform] : effects of limits	1993
5005	☐	Housing finance [microform] : expanding capital for affordab	1993
5006	☐	Fisheries management [microform] : administration of the Spo	1993

ICASE Reports

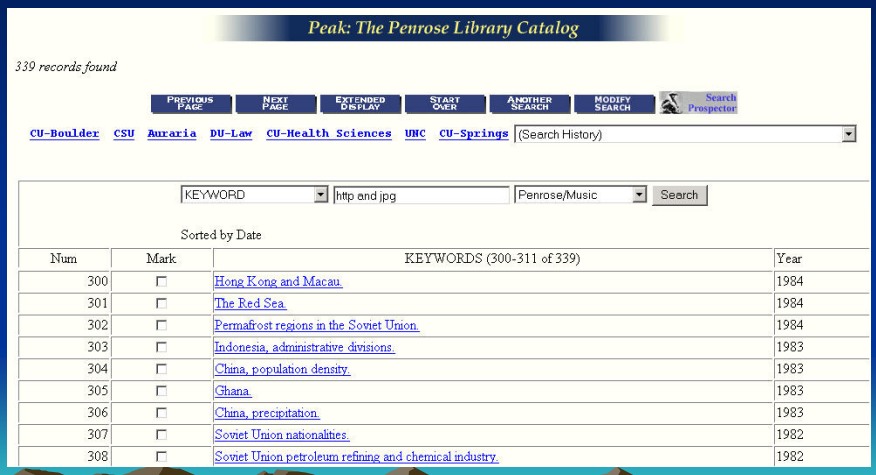


NASA Technical Memoranda



ERIC Digests

CIA Maps



THE END

Adding URLs in Bulk at the University of Denver

Christopher C. Brown, University of Denver, Penrose Library

Presented at the Depository Library Council Meeting, Mobile AL, April 24, 2002

This presentation describes how the Government Documents unit at the University of Denver added over 20,000 URLs for government documents to our local OPAC in a period of about a month. The entire process of URL identification, harvesting, and manipulation of MARC fields 538 and 856 will be presented. Ongoing maintenance of these URLs will also be discussed.

I. Objective: to have URLs in as many bibliographic records for government documents as possible.

This would be accomplished largely through automation.

II. Identifying "Tonnage"

We identified documents series that had predictable URLs: predictable because of regular patterns of report numbers, congressional/bill numbers, ISBN numbers (NAP publications), latitude/longitude for maps, etc.

GAO documents back to 1993 have report numbers in MARC field 088 of the bibliographic records, from which URLs can be derived:
GAO/GGD-95-17FS
http://frwebgate.access.gpo.gov/cgi-bin/getdoc.cgi?dbname=gao&docid=f:gg95017f.txt
http://frwebgate.access.gpo.gov/cgi-bin/getdoc.cgi?dbname=gao&docid=f:gg95017f.pdf

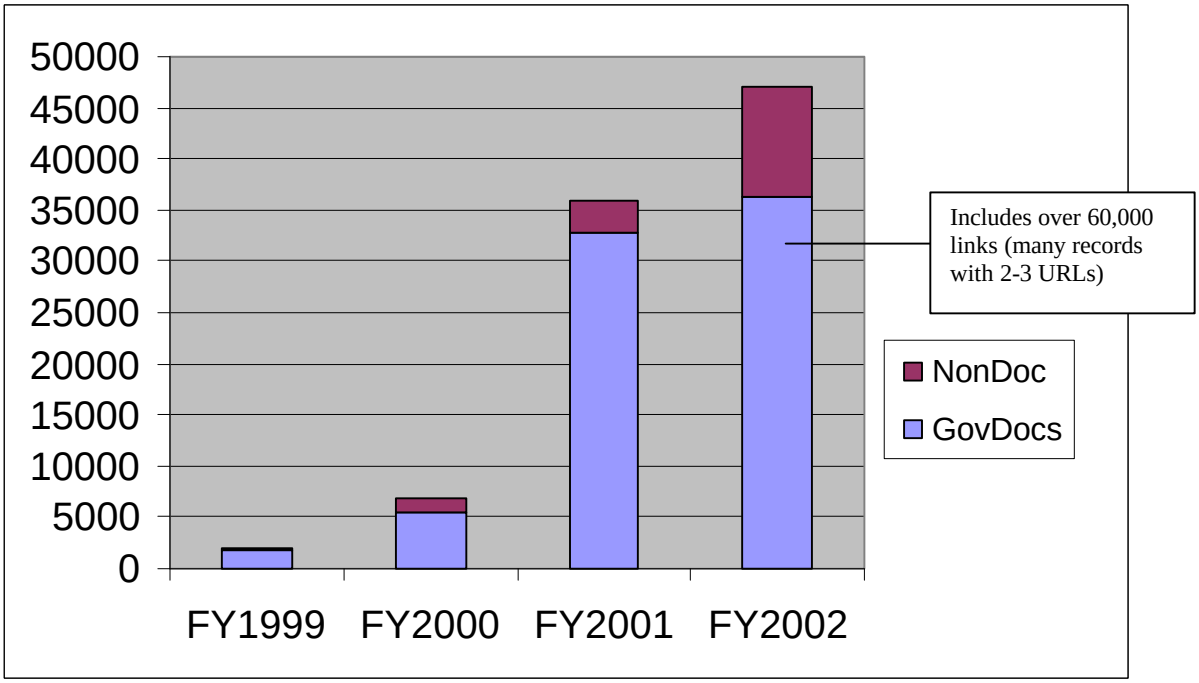
NASA ICASE documents have report numbers in field 088:
http://www.icase.edu/Dienst/UI/2.0/Describe/ncstrl.icase/TR-99-16
Access database query setup for ICASE docs looks like this:

Legislative histories from Thomas could be added to every Public Law by extracting the Bill no. from field 500 (106th Congress, Senate Bill 376):
http://thomas.loc.gov/cgi-bin/bdquery/z?d106:SN00376:@@@L

Identifying and Harvesting Major URL collections

Sudocs Stem	**Description**	**Records in Peak (http)**	**Records in CGP (http)**
AE 2.110: GS 4.110:	Public Laws, 1979-	5401 records (Legislative histories only before 104th Congress)	247 records
GA 1.13: GA 1.5/2	GAO Documents, 1993-	5224 records	309 records
ED 1.310/2:	Eric Digests, 1993-	950 records	290 records
I 19.76:	U.S. Geological Survey Open-File Report	340 records	232 records

J 32.2:	Office of Juvenile Justice and Prevention	179 records	51 records
NAS 1.15:	NASA Technical Memorandum	395 records	7 records
NAS 1.26:	Institute for Computer Applications in Science and Engineering (ICASE)	413 records	0 records
NAS 1.60:	NASA Technical Paper	262 records	0 records
PREX 3.10/4:	CIA Maps	334 records	0 records
Y 1.1/3:104-	Senate Documents		
Y 1.1/4:104-	Senate Treaty Documents	219 records	33 records
Y 1.1/5:104-	Senate Reports	104: 428 records 105: 421 records 106: 478 records	
Y 1.1/6:104-	Senate Exec. Reports		
Y 1.1/7:104-	House Documents		
Y 1.1/8:104-	House Reports	104: 843 records 105: 849 records 106: 978 records	
Y 3.T 22/2:	Office of Technology Assessment, 1976-1995	524 records	1 record
Y 3.P 31/19:	United States Institute of Peace	75 records	40 records



URL Explosion at the University of Denver Library: URLs in bibliographic records

III. Adding URLs to OPAC Records

This is done automatically (no copying into individual records).

- Build up Access database with data that will be used to construct URLs (report numbers, bill number, etc.):

Icase : Table

ID	OCLC	440	yr	no
1	42575542	ICASE report no. 99-16	99	16
2	42575529	ICASE report no. 99-17	99	17
3	42212582	ICASE report no. 98-20	98	20

- Design query to generate URLs (design view):

```
URL: "http://www.icase.edu/Dienst/UI/2.0/Describe/ncstrl.icase/TR-" & [yr] & "-" & [no]
```

Same query:

ICASE Query : Select Query

OCLC	URL
44113700	http://www.icase.edu/Dienst/UI/2.0/Describe/ncstrl.icase/TR-2000-1
44137724	http://www.icase.edu/Dienst/UI/2.0/Describe/ncstrl.icase/TR-2000-3
31275164	http://www.icase.edu/Dienst/UI/2.0/Describe/ncstrl.icase/TR-94-1

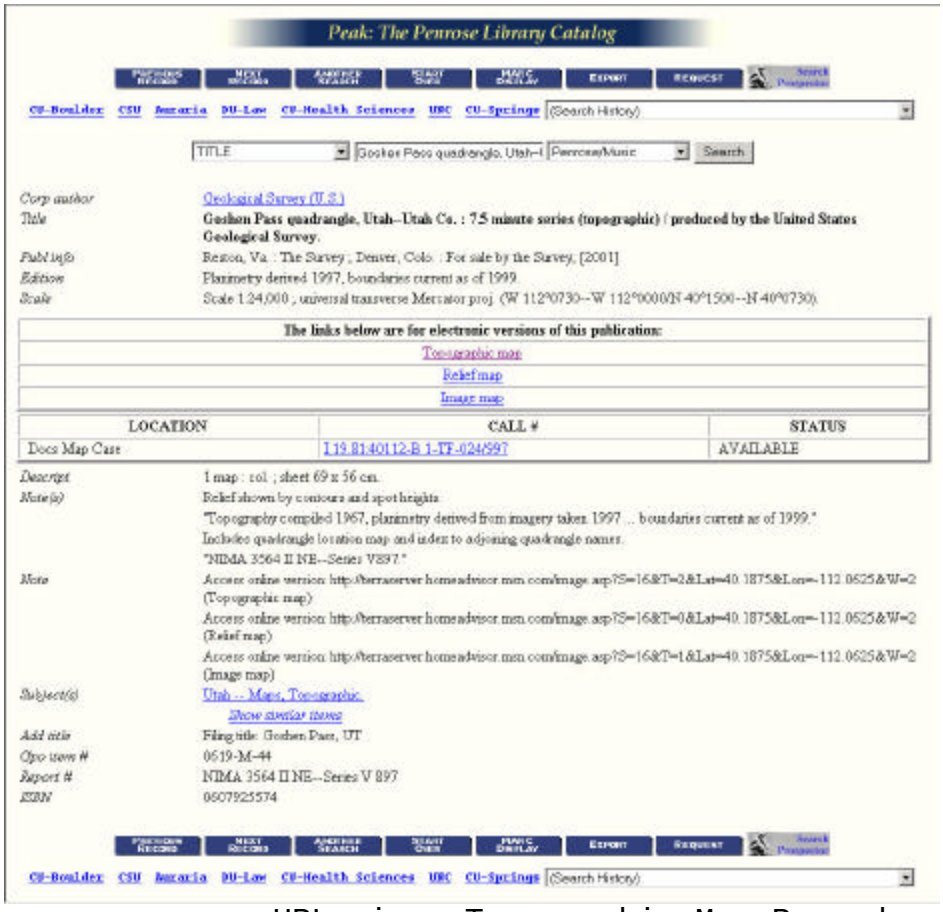
- From library catalog, create file of records to be affected
- Export two files from library catalog: MARC records, and another file with relevant parts of MARC records in CSV format for import into Access database. This will be used to derive the working URLs.
- The MARC file from the library catalog (now on your local computer), is converted to an easy-to-read and edit text format
- Using locally developed software, we merge the information generated from the Access database into fields 856 and 538 of the MARC records.
- The easy-to-read format is converted back to MARC communication format with locally developed software.
- Records are loaded back to the library catalog, matching on local control number. They now have new 538 and 856 fields.

IV. Latest project: links in topographic maps.

The Microsoft Terraserver (http://terraserver.homeadvisor.msn.com/) contains USGS topographic maps. Maps are retrievable by latitude and longitude coordinates. MARC fields 034 and 255 contain latitude and longitude data (westmost longitude, eastmost longitude, northmost latitude, and southmost latitude). These data can be extracted from MARC into Excel. MARC records give lat/lon in minutes/degrees/seconds. In Excel, this can be converted to decimal. Then, east/west and north/south are averaged.
URLs built from either of these fields:

856 41^uhttp://terraserver.homeadvisor.msn.com/image.asp?S=16&T=2&Lat=38.1875&Lon=-108.8125&W=2^zTopographic map
856 41^uhttp://terraserver.homeadvisor.msn.com/image.asp?S=16&T=0&Lat=38.1875&Lon=-108.8125&W=2^zRelief map

856 41^uhttp://terraserver.homeadvisor.msn.com/image.asp?S=16&T=1&Lat=38.1875&Lon=-108.8125&W=2^zImage map



URLs in a Topographic Map Record

Possible uses for this system:

1. URL statistical tracking
2. Swapping URLs for PURLs and vice versa
3. Responding to directory/URL changes
4. Adding URLs to non-docs: National Academy Press (links by ISBN), Rand publications
5. Serials management: link to aggregator information, such as Gold Rush (in Colorado)

See Peak, the University of Denver online catalog at: http://bianca.penlib.du.edu/