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Where's the Data?

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Where's the Data?

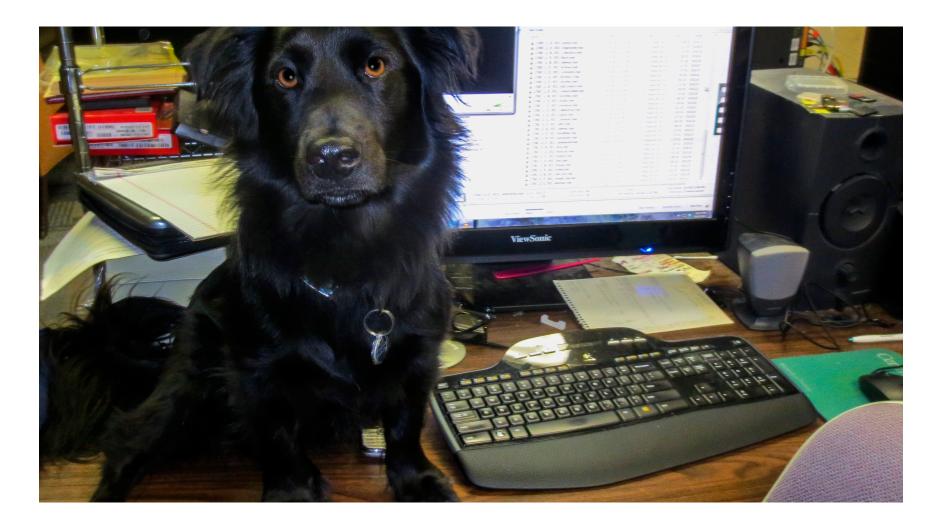
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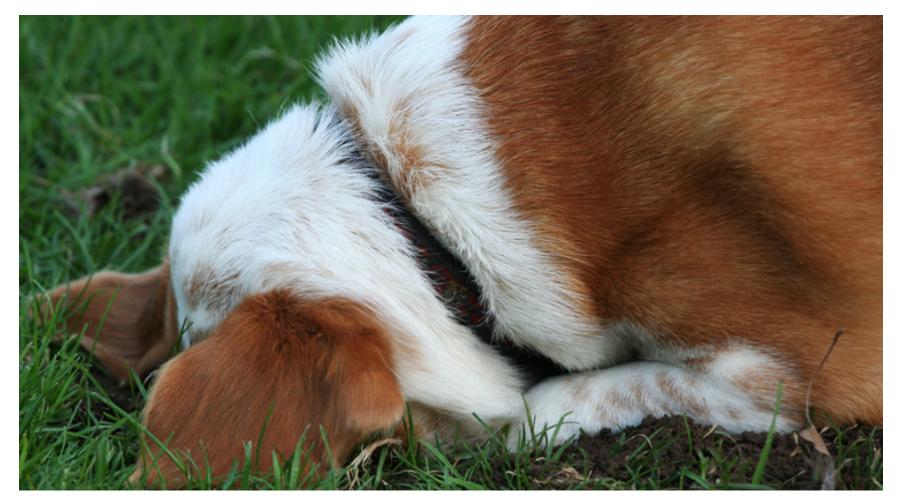
The Problem



Lots of Data

- Researchers generate Lots of Data
- Not all researchers organize and manage their data
- Faculty may be required to deposit data to make it publicly accessible
- University is ultimately responsible for complying with terms of grants

Can you find where your institution's data is hiding?



Why Bother?

- Federal Policy
 - digitally formatted scientific data resulting from unclassified research supported wholly or in part by Federal funding should be stored and publicly accessible to search, retrieve, and analyze.
 - OSTP Memorandum, February 22, 2013
- Will we be able to locate this data after the grant is completed? What will happen in an audit?
- Where do your faculty store data for NIH and NSF, which currently require Data Management Plans?

Lead People to Your Data



Data Management Plans

- Short documents that accompany grant applications
 - Type of data collected (format, how much)
 - How will it be described?
 - Will it be shared? When? How?
 - Where will it be made publicly accessible? Preserved?
 - IP, copyright, sensitive data, any other issues?
- To make data publicly accessible to search retrieve and analyze

Indicate How It Can Be Shared



DMPs from Successful Grants

- Some are Stellar! Morgan Ernest, now at University of Florida:
 - Data access will take place primarily through a project website hosted by the White Lab at USU as well as through the Sevilleta LTER website (http://sev.lternet.edu) . . . In addition, all datasets will be discoverable and downloadable via the LTER NIS data portal, as well as through the Sevilleta LTER and White Lab websites. . . . Sequence data . . . will be deposited in the publicly available NCBI Genbank database. Simulation data will be archived in Dryad (http://datadryad.org/) . . .

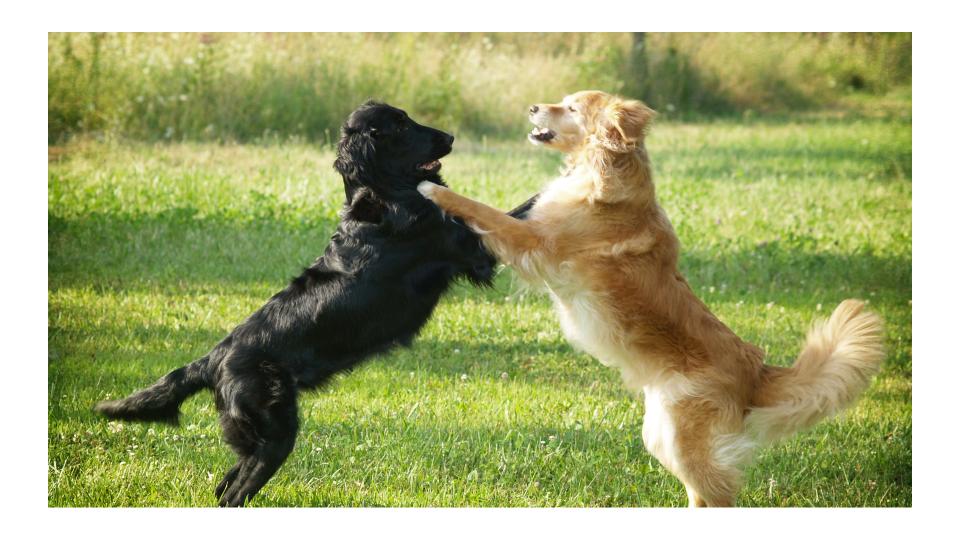
DMPs from Successful Grants

- Some have a pretty solid idea of sharing and access
 - USU's IR, Digital Commons identified as storage and access point
 - A few problems with metadata, file formats, etc.

DMPs from Successful Grants

- Some share, but don't currently deposit
 - "The PI of this project will provide access to the data and information . . . to other scientists who are interested...This information will be available through a web portal of USU."
 - Share data upon request and through publication

It's Here!

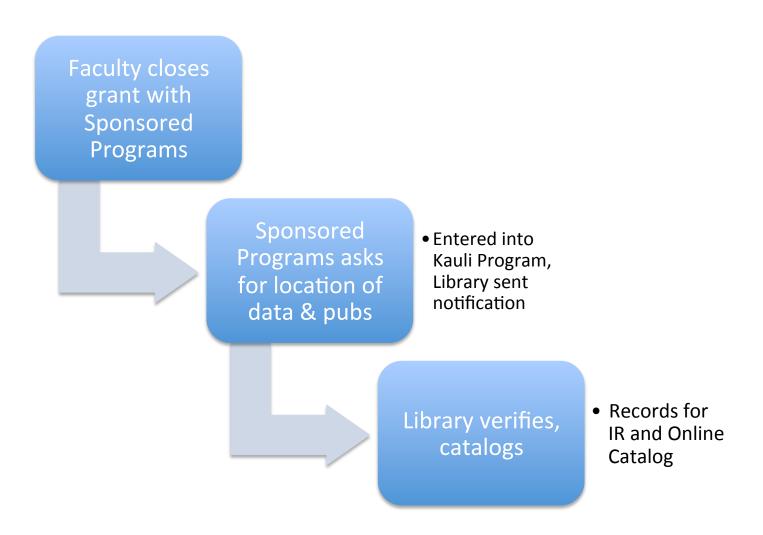


How Can Libraries Help?

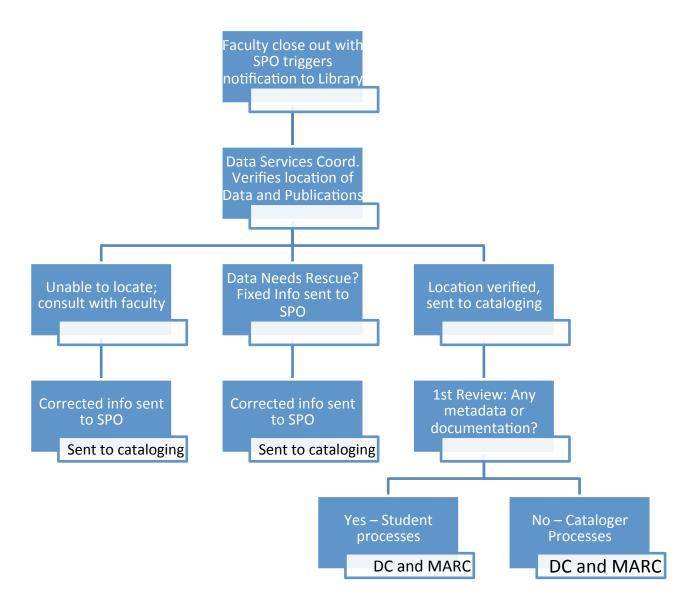
 We know how to Catalog and make things discoverable!



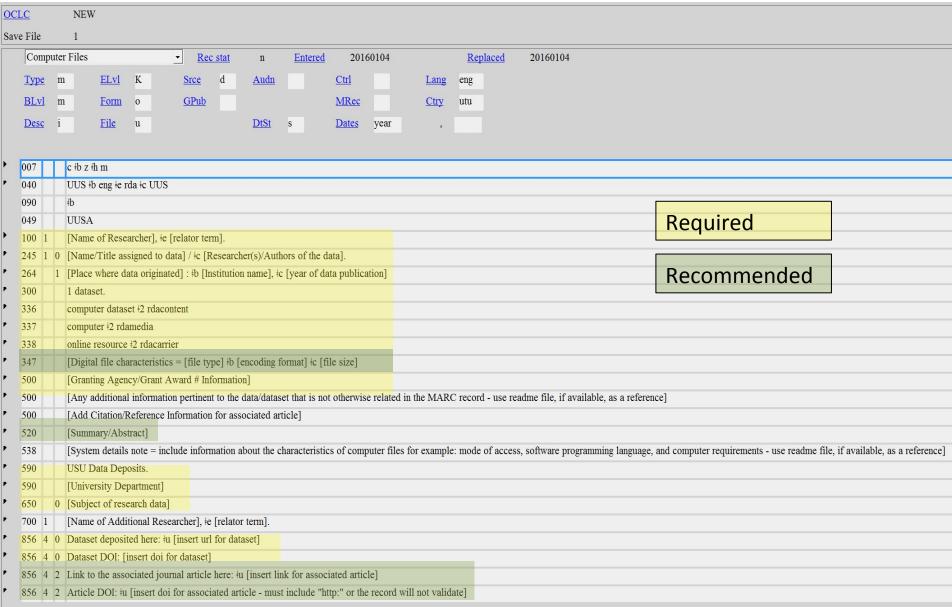
The Project (so simple)



The Project (A few More Details)



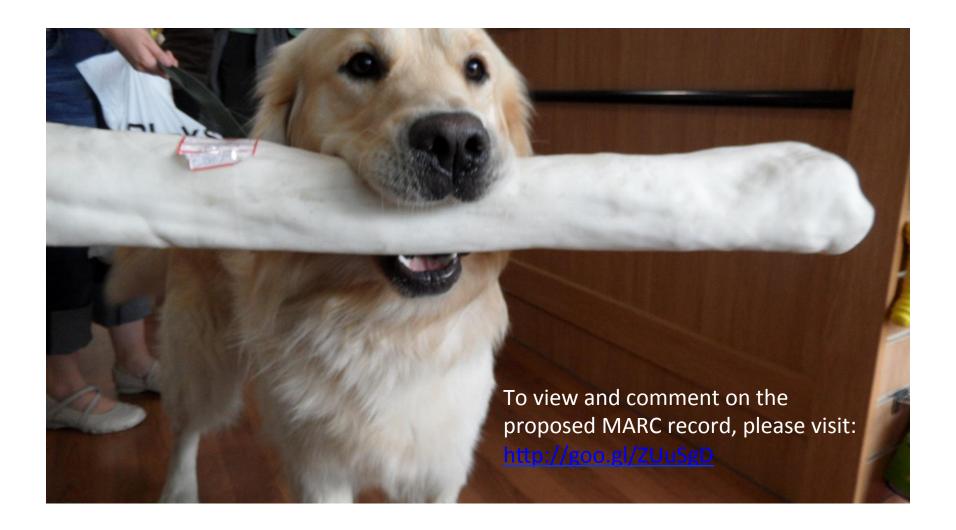
Cataloging Data



Cataloging Data

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538	"T	"The .lastpage and .eachpage files contain the output from runs of the Utah State University TDIM ionospheric model. They are ascii files, and can be read with the subroutine READ_NEXT_STEP_EACHPAGE(IUNIT,ALTS,PROFS,ISTATUS)." explanation-of-lastpage-files.txt													
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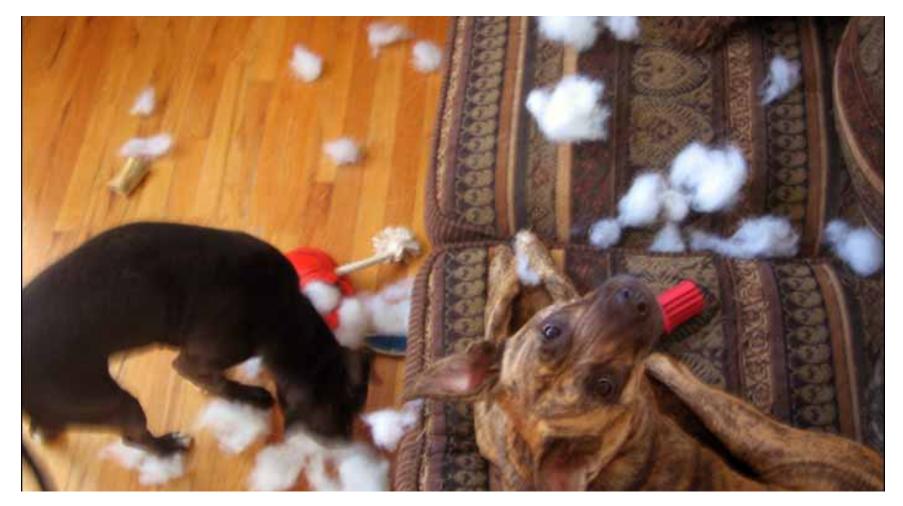
Throw Us a Bone!



MARC/Dublin Core Mappings

MARC Mapping	DC Mapping	Field Description					
100	Creator	1st Author/Researcher listed					
245 \$a	Title	Title/Name assigned to data set					
245 \$c		All authors/researchers listed					
264 \$a		Place where data originated					
264 \$b		Primary institution name					
264 \$c	Date	Year of publication/deposit					
347 \$a		Digital characteristics - file type, refer to the file extension					
347 \$b		Digital file characteristics - encoding format					
347\$c	Format.Extent	Digital file characteristics - file size					
500	Description	Granting Agency, grant award number					
500	Description	Any additional information pertinent to the data/dataset that is not otherwise reflected in the record. Refer to the readme file, if available					
500	Relation.IsReferencedBy	Citation for original publication based on this data set					
538	Relation.Requires	Include information about the characteristic of the files, noting mode of access, software or computer access. Refer to the readme file, if available.					
520	Description.Abstract	Include any summary information about the content of the dataset, such as an abstract.					
650	Subject	Subject of research data					
700	Creator	Name(s) of additional researcher					
856	Description	URL for location of dataset					
856	Identifier	Dataset DOI					
856	Relation.IsReferencedBy	Link to associated Journal Article					
856		Associated Journal Article DOI					
	Type	Indicate the DCMI type (typically "Dataset")					
	Format	Indicate the file format of the dataset, refer to the MIME types					
	Publisher	Indicate where the data set is housed					
	Coverage.Spatial	If reported, include the spatial coverage for the dataset					
	Coverage.Temporal	If reported, include the date coverage for the dataset					

Sometimes Data Doesn't Behave According to the Cataloging Rules



Problems encountered

- Incomplete information
 - Data sets are not always named as a group (even when individual files may be)
 - Lack of DOIs
 - Unclear about authors/contributors and pertinent roles
 - Unspecified/uncommon data formats
 - Lack of readme files
- Locating specific data sets on funding agencies websites/data depositories can be tricky

Rewards (Benefits)



Benefits

- Capture the location of data while it's (relatively) fresh in the mind of researchers
- Create permanent records of data
- Increases discoverability of data
- Opportunity to "rescue" data insecurely stored
- Compliance is verified

Benefits - Partnerships



Benefits (Rewards)

- Library increases is value on campus, strengthens partnership with Research Office
- Library increases interactions with faculty and demonstrates value by securing data and helping faculty comply with DMP
- Library gains opportunity to help faculty learn about better options for data deposit
- Reporting functions allow for University to understand where data is housed
- Cross campus synergistic relationships

What could go wrong?



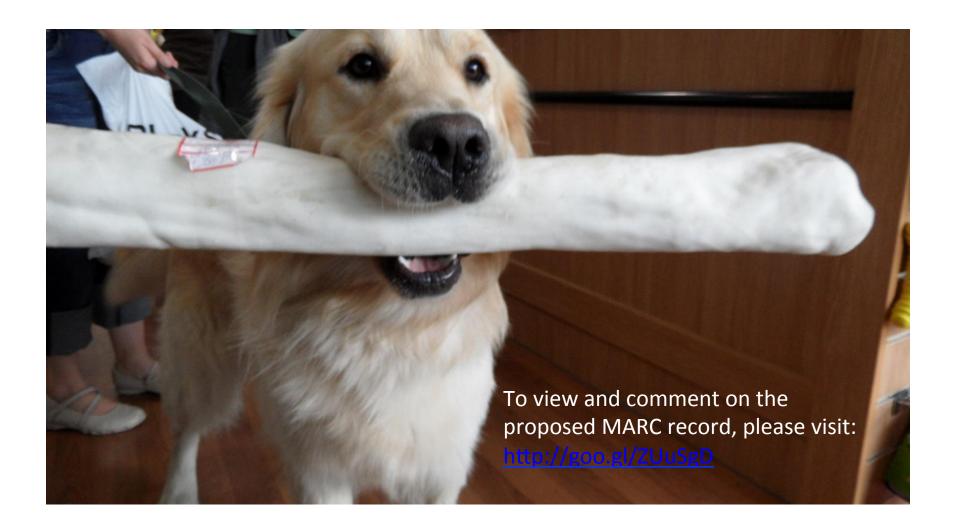
It's a pilot project for a reason...

- Data deposited with GenBank or NCAR and no other clues provided
- Data deposited "on PI website"
- Data has not been properly de-identified
- Data is embargoed
- Researcher does not remember
- Time to identify location of data is a huge concern - sustainability
- Faculty reluctant to release data
- Actually cataloging data many formats

Questions?



Throw Us a Bone!



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