American Astronomical Society



Chris Biemesderfer, Director of Publishing

The Astronomical Journal, 150+ yrs, IF = 5.0
2012: 334 articles, 4335 pages

+ The Astrophysical Journal, 100+ yrs, IF = 6.7

- + Letters (IF = 6.3), Supplement (IF = 16.2)
- + 2012: 3907 articles, 45586 pages



Partnerships

Member society of AIP

+ CrossRef, ORCID, Portico

- We like: Sense About Science, DataCite, STIX, MathJax, IVOA, et al.
- + IOP, AIP are publishing partners

AAS journals update



- Greg Schwarz (AAS) and Kerry Kroffe (IOP) are here too
 - Greg has a talk on Wednesday
- + Publishing != Publishing
- Data sets are real scholarly products but they require process to be valuable for a long time
- Complexity in the long tail vs. simplicity in exploratory research

What are we up to



The usual: publishing the AJ and ApJ

- + Approaching 1000 MRTs annually
- + Encouraging similar data for figures
- Development: software as well process
 - Data citations via DataCite
 - Image Explorer
 - Unified Astronomy Thesaurus
 - ORCID, FundRef, public access, etc.

pub-lish-ing (n)



- Does not mean the same thing to everyone
- + So you can't assume it does
- Listen carefully, avoid being dogmatic
- When the AAS says "publishing" we're talking about a process that we regard as inherent to artifacts in the scholarly record

Data publishing



 Has a process, a workflow, a lot like publishing manuscripts

- Peer review
- Copy editing and markup
- Identification, discovery, et al.
- Presentation and access
- Preservation
 - Not temporary storage
 - Not the attic for all your forgotten stuff
 - Not an alternative to normal "backup"

Data as a scholarly artifact

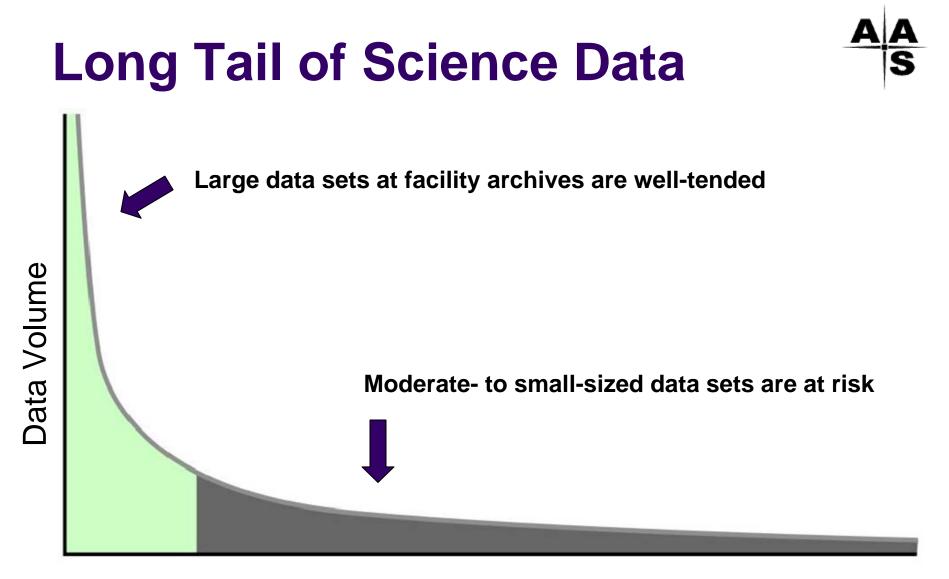


- Data should be considered citable products of research, it should be held in persistent repositories, and data should be cited in publications.
 - We generally agree with the Amsterdam Manifesto
- But citability in AAS articles depends on the heritage of the cited item
 - They have to conform to our definition...

Complexity vs. simplicity



- Many data sets are straightforward homogeneous digital objects
- Some are complex intellectual creations
 - + And those often end up in our publishing queue
- Proposition: lots of the stuff that scholar/researchers care about in the long tail are in fact complex



Number of datasets

Graphic from B. Heidorn

IVOA September 2013



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DataCite



- Makes research better by enabling people to find, share, use and cite data
- + Organization founded in 2009. Aim is to
 - establish easier access to research data on the Internet
 - increase acceptance of research data as legitimate, citable contributions to the scholarly record
 - support data archiving that will permit results to be verified and re-purposed for future study

DataCite objectives: 2013-2016

- Become a sustainable and reliable organization
- Become part of the global research infrastructure
- Nurture our membership & build strong communities
- + Build and maintain services, guidelines, policies
- Deliver clear communications