



Status on Recent Changes in NASA's Policies and Directives

Public Access to Scientific Data and Publications

Scientific Collections

Demographic Data Collection for Research
Solicitations

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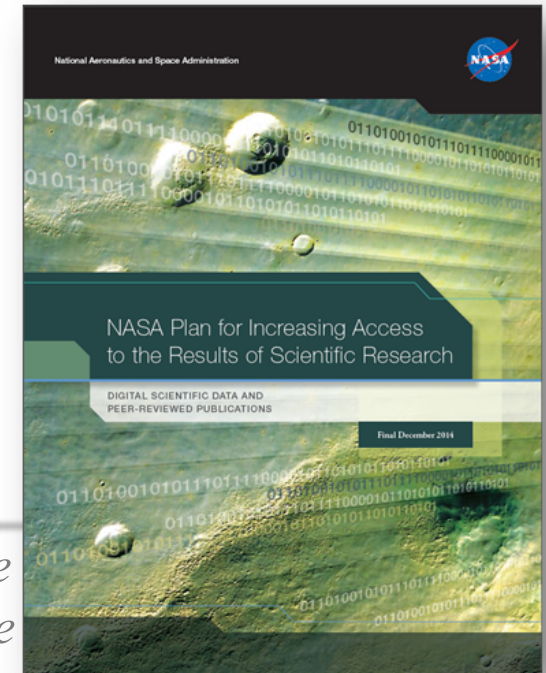
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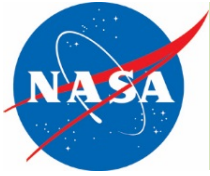
Agency Efforts

- In response to the OSTP Memo from February 2013 which directs each Federal agency with over \$100 million in annual conduct of research and development expenditures to develop a plan to support increased public access to the results of research funded by the Federal Government.
- The Agency developed the *NASA Plan for Increasing Access to the Results of Scientific Research*.
- A draft NPD 2230, Research Data and Publication Access is almost finalized.
- The CIO is also developing a data website as a front end for all of NASA data. This website will include FAQs, as well as links to NASA datasets. It will be located at nasa.gov/open/researchaccess
- NASA has selected NIH PubMed Central to house peer reviewed publications. It will have a NASA portal page entitled PubSpace



“Effective data management has the potential to increase the pace of scientific discovery and promote more efficient and effective use of government funding and resources.” (Excerpt from the NASA Plan)

NASA Data Access Strategy
www.nasa.gov



Process

- Received OSTP Policy February 22, 2013
- Formed two teams: data and publications
- Each team assessed current status and provided recommendations to meet the policy
- Draft plan submitted to OSTP August 22, 2013
- Received feedback from OSTP February 21, 2014
- Submitted plan response to OSTP on May 21, 2014

Plan approved by OSTP December 2014; posted February 2015

<http://www.nasa.gov/news/reports/index.html>

<http://www.nasa.gov/offices/ocs/index.html>

<http://science.nasa.gov/researchers/sara/faqs/dmp-faq-roses/>



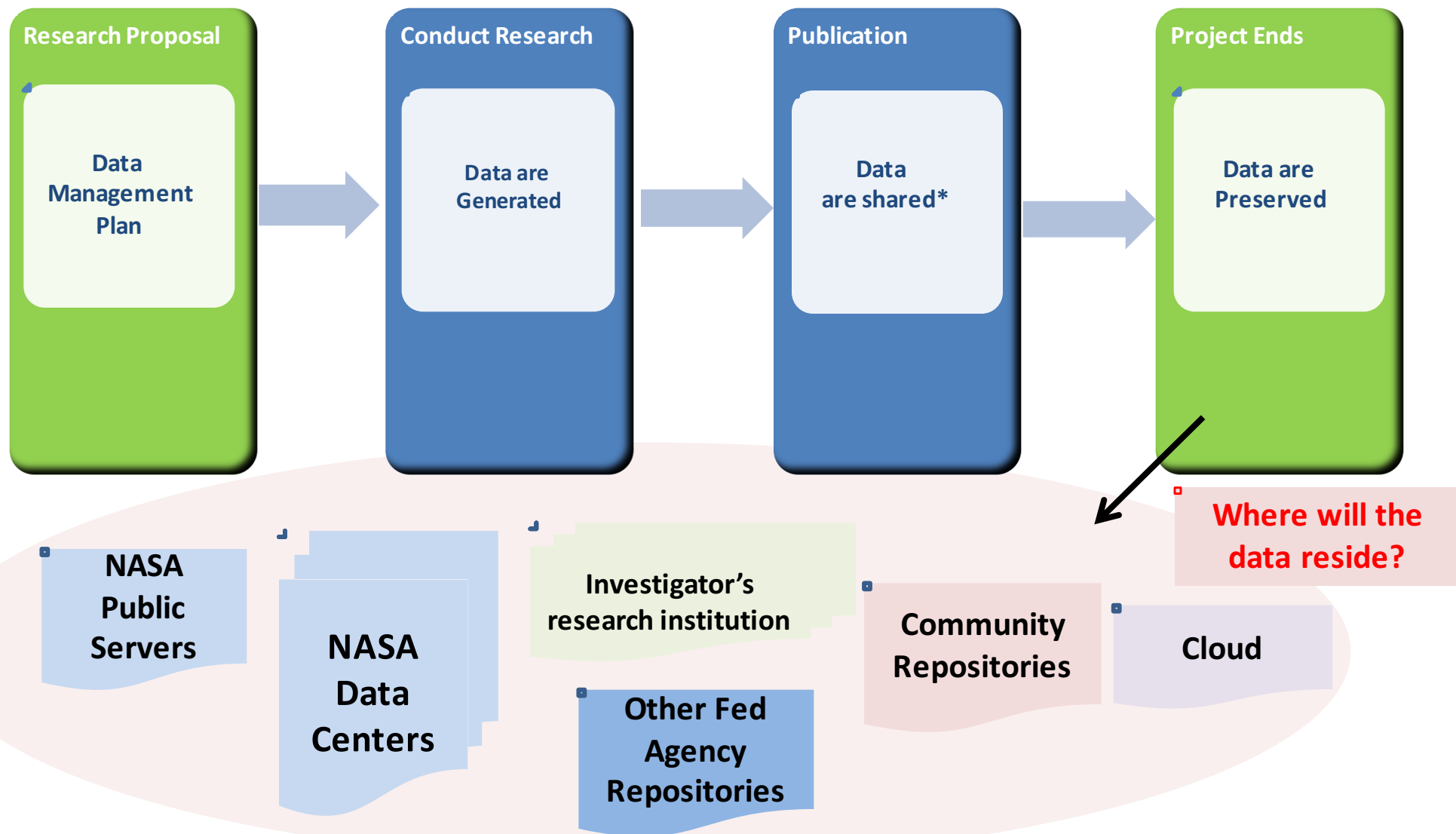
Changes to Solicitations - Data

NASA's policy has always been to make scientific data available; the OSTP policy prompted NASA to search for ways to make it easier to access and search

Data Team

- All NASA's research solicitations will require a data management plan (DMP)
 - Language drafted and incorporated in current solicitations
 - DMP will not be counted in the overall proposal page count
 - DMP must be included in the proposal
- Data repository
 - Primary repository for research data will be one of NASA's approved data centers
 - On case by case basis other data centers or venues will be considered
- Our Chief Information Officer is developing searchable front end on existing repositories and linking them to a single or minimal number of sites (data.gov and nasa.gov for example)

NASA Research Data Access Plan: Research Data “Lifecycle”





Changes to Process

- NASA Policy Directives (NPD) NPD 2230, “Research Data and Publication Access” has been created
- NASA has integrated the new policy into existing research guidelines, such as
 - NPR/NPD 1080, *Requirements for the Conduct of NASA Research and Technology (R&T)*
 - NASA’s Grants Handbook
 - NASA Science Mission Directorate Science Plan

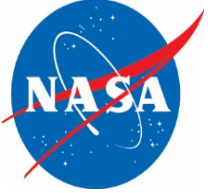


Publications

NASA did not have a comprehensive publications management plan

Publication team –

- Commissioned an independent study of four platforms both internal and external to NASA
- Based on risk, budget, and schedule, team recommended using existing NIH PubMed Central platform under a public/private partnership
- All publications will be entered into this database



Current Activity

- **Data** – Front end search engines under development
- **Publications** – Currently working with NIH to create a NASA front page portal in PMC
- **Training** - A series of training videos are currently under development to better explain to all NASA-funded scientists the purpose, applicability, and means to implementation of the new policy (end of calendar year 2015)
- **Socializing** - Communicating implementation plan at venues such as: National Council of University Research Administrators, American Geophysical Union, American Society for Gravitational Research, Center town halls, and other events



Timeline

- Sep – Dec 2014
 - Evaluate current databases and determine requirements to enable search capability
- Oct 2014
 - Begin updating NASA policy and directives
- Nov 2014
 - Begin building search capability
 - Identify websites for links
 - Receive AoA and select publication repository platform
- Feb – Mar 2015
 - Incorporate data management requirements in solicitations
 - Draft publications management plan
- Oct 2015
 - Target date for kicking off publications management plan
- Spring 2016
 - Plan fully implemented



Status on Recent Changes in NASA's Policies and Directives

Status: NASA Policy Directive – Curation of Institutional Scientific Collections

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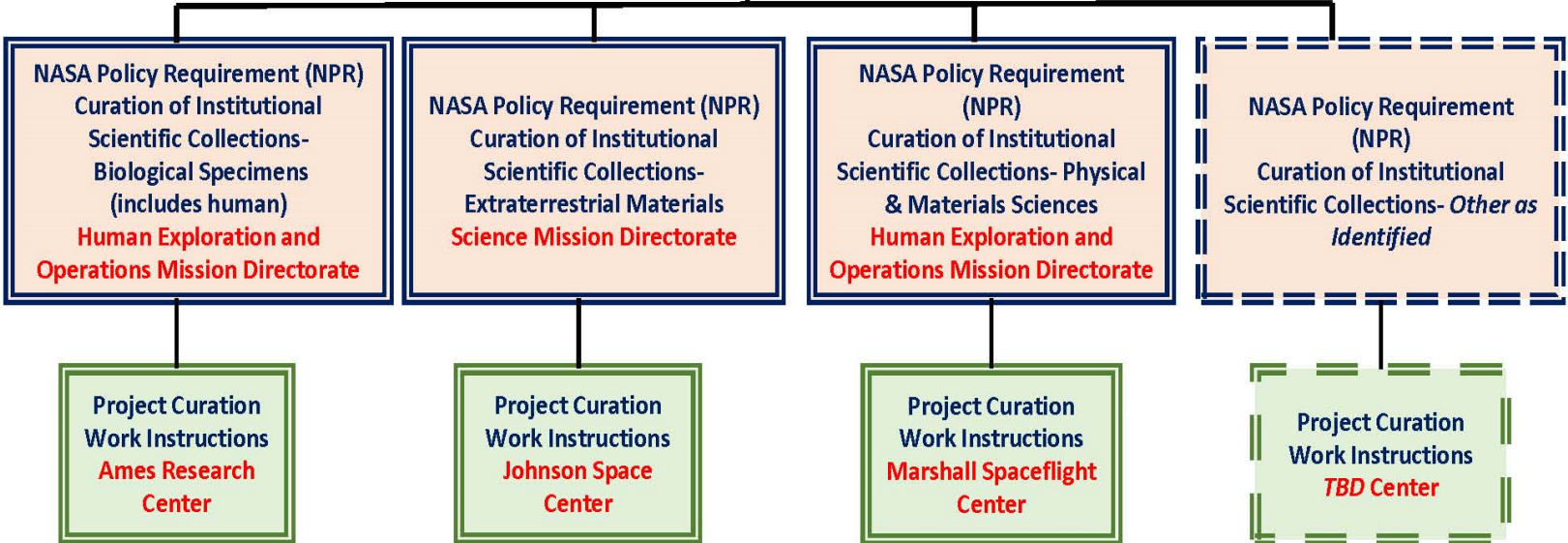


Status on Recent Changes in NASA's Policies and Directives

- March 20, 2014 OSTP memorandum entitled, “Improving the Management of and Access to Scientific Collections” directs federal agencies that own, maintain, or otherwise financially support *permanent scientific collections* to develop a draft scientific collections management and access policy.
- NASA has developed an agency-wide NPD *draft* (to replace the Extraterrestrial Materials NPD 7100.10E) that identifies:
 - Definition of Institutional Scientific Collections: *objects in the custody of or owned by NASA that have been identified for long-term preservation and management, and are made available through formal procedures to qualified parties within and outside the agency for research, education or exhibition.*
 - NASA Policy for maintaining the collections, including:
 - Roles and Responsibility of the Agency, Mission Directorates, and Centers in curation of the collections
 - Guidelines for Collection Planning and Management (including budgeting, facilities & equipment)
- Current NPD draft status:
 - Final draft has incorporated comments from the stakeholders involved in curation and management of samples (biological samples, physical materials, astromaterials, and space exposed hardware are the biggest collections identified).
 - Should be in NODIS by end of the year
- What's ahead for this effort:
 - The NPD will drive the creation of collection-specific NPRs by representatives at the Centers.



NASA Policy Directive (NPD) 7100.XX
Curation of Institutional Scientific Collections
NASA Office of the Chief Scientist



Agency Policy

NPD - Details agency guidelines, definitions, responsibilities, applicability, references at a high level for all Institutional Scientific Collections.

Directorate Level Management

NPR- Documents requirements of sample-unique curation management to include: budget requirements; accessibility plans; accessioning/deaccessioning requirements; frequency of collection review,

Center Level Management

Work Instructions- Documenting and implementing work instructions to manage the curated samples, to include: accessioning; providing access to physical samples; preparation; inventory monitoring; labeling; physical security; facility management; and, deaccessioning of samples.



Status on Recent Changes in NASA's Policies and Directives

Status: On Demographic Data Collection

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Demographic Data Collection on NASA Solicitations

- Studies indicating unconscious bias in grant awards
 - NSF – Gender
 - NIH – Minority
 - Other agencies collecting these data are finding similar results
- NASA does not currently collect these data
 - September 2014 OCS began looking into the possibility of collecting the data to ensure a level playing field in our awards
- GAO report March 2015 “Women in STEM Research: Federal Agencies Differ in Data They Collect on Grant Applicants”
 - Reported on six federal agencies; only three of those collecting demographic data – NIH, NSF, USDA –NIFA
 - Reported NASA does not currently collect the data but included a foot note indicating we are in the process to put in place



Demographic Data Collection on NASA Solicitations

Where are we?

- Data collections of this type fall under the paperwork reduction act and must be approved by the Office of Management Budget prior to implementation
 - Received clearance by general council to collect these data
 - Survey form developed
 - Supporting statements for OMB completed
- Package sent to OMB September 2015
 - Received feedback and making minor edits
- Next steps
 - Re-submit to OMB this week (Nov 9)
- Target implementation January 2016
 - Plan to include in all NASA solicitations




NASA Form 1839

Demographic Data Collection

Remember:

- This is strictly voluntary
- It will not be included in the proposal review package
- It will not be used in any way to determine grant award

 National Aeronautics and Space Administration		Demographic Data Collection		Form Approved O.M.B. No. 2700-XXXX Expires: XX/XX/XXXX	
<p>WHY THIS INFORMATION IS BEING COLLECTED: The Federal Government has a continuing commitment to monitor the operation of its review and award processes to identify any inequities based on gender, race, ethnicity, or disability. Therefore, NASA is requesting demographic data based on gender, race, ethnicity, or disability of its proposed Principle Investigators/Co-Investigators in order to ensure compliance with Title VI of the Civil Rights Act of 1964, 42 U.S.C. § 2000d et seq., Title IX of the Education Amendments of 1972, 20 U.S.C. § 1681 et seq., Section 504 of the Rehabilitation Act of 1973, 29 U.S.C. § 701 et seq. and NASA's implementing regulations at 14 CFR, §§ 1250, 1251, and 1253. To gather information needed for this important task, the proposer is asked to submit a single copy of this form for each identified Principal Investigator (PI)/Project Director (PD) and Co-Principal Investigator(s)/Co-Project Director with each proposal. Submission of the requested information is voluntary and will not affect the organization's eligibility for an award. However, information not submitted will seriously undermine the usefulness, of information received from others.</p> <p>Submission of the requested information is voluntary and will not affect the organization's eligibility for an award. However, information not submitted will seriously undermine the statistical validity, and therefore the usefulness, of information received from others. Any individual not wishing to submit some or all the information should check the box provided for this purpose. *The exception is the P/PI/D information about prior Federal support, the last question below.</p>					
Gender: Male <input type="checkbox"/> Female <input type="checkbox"/>					
Race (select one or more):		Ethnicity (choose one):		Disability Status (select one or more):	
American Indian or Alaska Native <input type="checkbox"/>		Hispanic or Latin <input type="checkbox"/>		Hearing Impairment <input type="checkbox"/>	
Asian <input type="checkbox"/>		Not Hispanic or Latin <input type="checkbox"/>		Visual Impairment <input type="checkbox"/>	
Black or African American <input type="checkbox"/>				Mobility/Orthopedic Impairment <input type="checkbox"/>	
Native Hawaiian or Other Pacific Islander <input type="checkbox"/>				Other <input type="checkbox"/>	
White <input type="checkbox"/>				None <input type="checkbox"/>	
Citizenship (choose one):					
U.S. Citizen <input type="checkbox"/>					
Lawful Permanent Resident <input type="checkbox"/>					
Non-U.S. Citizen <input type="checkbox"/>					
Check this box if you do not wish to provide any of the above information. <input type="checkbox"/>					
<hr/>					
*Are you currently serving (or have previously served) as PI, PD, Co-PI, or Co-PD on any Federal funded project? YES <input type="checkbox"/> NO <input type="checkbox"/>					
<p>Paperwork Reduction Act Statement This information collection meets the requirements of 44 U.S.C. § 3507 as amended by section 2 of the Paperwork Reduction Act of 1995. You do not need to answer these questions unless we display a valid Office of Management and Budget (OMB) control number. The OMB control number for this collection is 2700-XXXX and this information collection expires on MM/DD/YYYY. We estimate that it will take 5 minutes to read the instructions, gather the facts, and answer the questions. Send only comments relating to our time estimate to: gale.allen@nasa.gov</p>					

Draft