

Advancing Digitization of Biodiversity Collections (ADBC) Program Update – FY2011-18

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Directorate for Biological Sciences
National Science Foundation



ADBC Program Stats

First projects funded in FY 2011

- TCN Projects Funded: 22 (3 new this year)
- PENs Funded: 27
- Proposals funded: 241
 - Active: 164 (33 new this year)
 - Closed: 73



Completed TCNs

Year Initiated	Project	Lead PI
2011	TriTrophicTCN	Schuh, Randall T.
2011	InvertNet	Dietrich, Christopher H.
2011	Lichens and Bryophytes	Gries, Corinna
2012	Macrofungi	Thiers, Barbara M.
2012	PaleoNiches	Lieberman, Bruce S.
2012	SCAN	Cobb, Neil S.
2012	NE Vascular Plants	Sweeney, Patrick
2013	Animal Communications	Webster, Michael S.



Active Projects

Year Initiated	Project	Lead PI
2013	Fossil Insects	Karim, Talia S.
2014	InvertEBase	Sierwald, Petra
2014	SERNEC	Murrell, Zack E.
2014	Great Lakes Invasives	Cameron, Kenneth M.
2015	Microfungi	Miller, Andrew N.
2015	EPICC	Marshall, Charles R.
2016	MAM	Skema, Cynthia
2016	Cretaceous World	Lieberman, Bruce S.
2016	LepNet	Cobb, Neil S.
2017	oVert	Blackburn, David C.
2017	SoRo	Tripp, Erin A.



New TCNs

Year Initiated	Project	Lead PI
2018	Endless Forms	Pace, Matthew
2018	Calflora 2.0	Yost, Jennifer
2018	Pteridophyte Consortium	Rothfels, Carl



Annual reports – important info

Figure 1. Percentage of specimens by stage of completion and herbarium for MAM TCN. With this presentation of digitization progress, the final goal for each institution is to have a mostly green column above the X axis (could potentially have orange up to roughly 10%). Note that CM only recently completed imaging training. (Specimens not yet in workflow are set as negative numbers.)

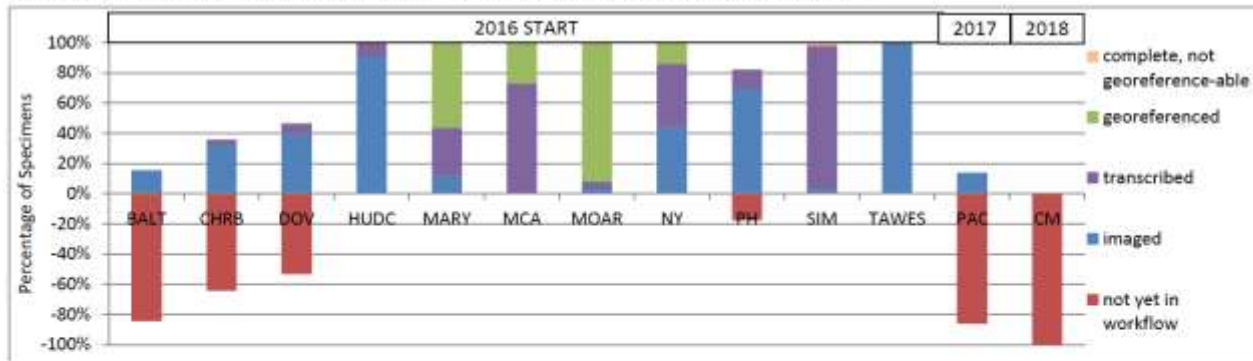
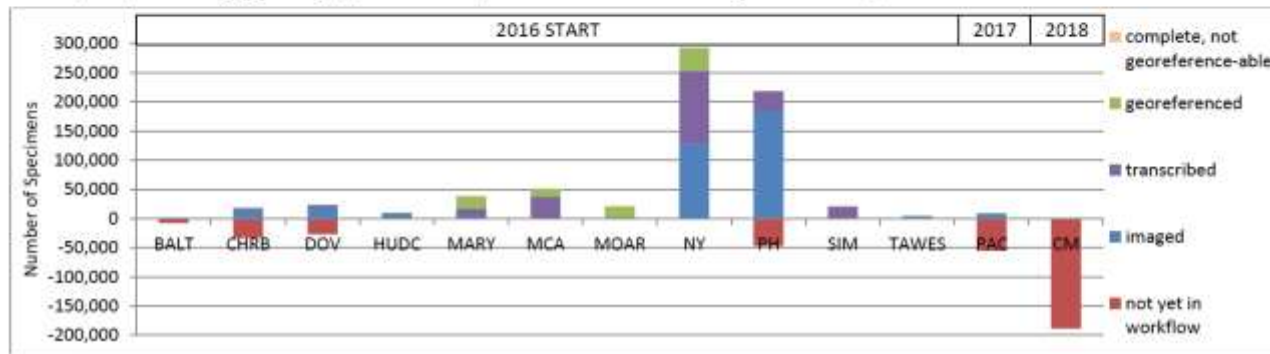


Figure 2. Number of specimens by stage of completion and herbarium for MAM TCN. With this presentation of digitization progress, the final goal for each institution is to have a mostly green column above the X axis (could potentially have orange up to roughly 10%). Note that CM only recently completed imaging training. (Specimens not yet in workflow are set as negative numbers.)



ADBC Project Outreach

Undergraduate researcher Paige Hodges in the the Burke lab at Howard University produced three outreach videos to highlight the importance of natural history collections.



YouTube:

- What Type of Research Can You Do With Natural History Collections? <https://youtu.be/bmhrn8LZIDY>
- How to Find a Lab With Natural history Collections?: https://youtu.be/zLye0qz1_hw
- Why Does Research with Natural History Collections Matter?: <https://youtu.be/6oRs0BRb400>

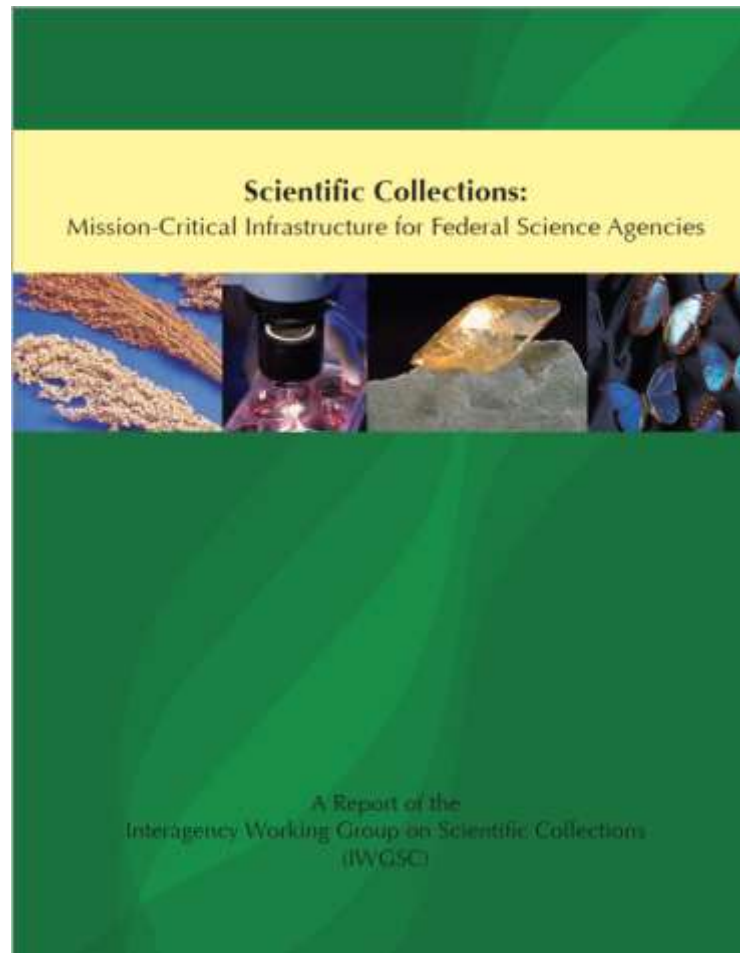


Community priorities for collections

- BCON – Biodiversity Collections Network
 - Building a Community to Advance and Sustain Digitized Biocollections
 - <https://bcon.aibs.org>
- Professional Societies, e.g., SPNHC, TDWG
- Workshops
- Serve on a panel
- New: National Academies Study



Green report on federal agency infrastructure



National Academies Study



Call for Nominations:

**Biological Collections:
Their Past, Present, and Future Contributions and
Options for Sustaining Them**

Nominate an Expert

<https://www.surveygizmo.com/s3/4558967/Nominate-an-Expert-NASEM-Study-on-Biological-Collections>



Changes in the Division of Biological Infrastructure

Effective now, all proposals submitted to the Research Resource cluster in the Division of Biological Infrastructure (DBI) should be directed to either the

Infrastructure Innovation for Biological Research (IIBR, NSF 18-595)

<http://www.nsf.gov/pubs/2018/nsf18595/nsf18595.htm>

or the

Infrastructure Capacity for Biology (ICB, NSF 18-594)

<https://www.nsf.gov/pubs/2018/nsf18594/nsf18594.htm>

solicitations,
neither of which has a deadline.



What is **NOT** Changing?

- The following programs will continue to have their own solicitations:
 - **ADBC** (Advancing Digitization of Biodiversity Collections)
 - **REU** (Research Experiences for Undergraduate Students)
 - **PRFB** (Postdoctoral Research Fellowships Program)
 - **RCN-UBE** (Research Coordination Networks for Undergraduate Biology Education -iUSE)
 - CAREER, Conference and Workshops, EAGERS, RAPIDS, RAISES, RCNs, Supplements to existing awards



Alignment of Previous Programs with New Solicitations

- **Infrastructure Innovation for Biological Research (IIBR):**
 - ABI (Innovation Track)
 - IDBR (Type A Track)
 - Multidisciplinary (New)
 - **Infrastructure Capacity for Biology (ICB):**
 - ABI (Development Track)
 - IDBR (Type B Track)
 - FSML
 - CSBR
-

For ABI Sustaining proposals – please call your Program Officer



Limits on number of proposals per P.I. or co-P.I. within a fiscal year (Oct.-Sept.)

- The number of proposals per P.I. or co-P.I. that can be submitted to IIBR or ICB are:
 - Two per the IIBR solicitation of which one must be to the Rules of Life Track or
 - One to each of the new DBI solicitations, (IIBR or ICB) or
 - Two per the ICB solicitation, but only one per program within the ICB solicitation
- There is no limit on Senior Personnel or subawards *etc.*

