

**Mid-Atlantic Megalopolis TCN
Quarterly Progress Report¹
May – July 2020**



Progress in Digitization Efforts: Figure 1 shows progress over time for the MAM Project by changes in the number of both specimens entered into workflow and completely digitized specimens (= imaged + transcribed + georeferenced) against the number of specimens promised to NSF for the project. The current numbers for progress of digitization efforts by specimen category for each herbarium² are shown in Table 1 and Figure 2.

Share and Identify Best Practices and Standards: Nothing to report.

Identify Gaps in Digitization Areas and Technology: Nothing to report.

Share and Identify Opportunities to Enhance Training Efforts: MAM ran two georeferencing training workshops online, one in May and one in June 2020. Attendees included PIs, staff, and students from BALT, CHRB, PAC, and PH. The first session was a presentation of workflows and how-to demonstrations by Michelle Mancini (MOAR), followed by a presentation of georeferencing from the perspective of research by Cindy Skema (MOAR). The second webinar was an opportunity to come back together for a Question & Answer session after each individual had gone and tried georeferencing in their collection. Also, relevant examples and further pointers were presented by Michelle Mancini and Cindy Skema. Recordings of both these sessions are available online [https://drive.google.com/drive/folders/1-Eb9m7MnUaSfnEILlpQpf_071c60jgZf?usp=sharing].

Share and Identify Collaborations with other TCNs, Institutions, and Organizations: Nothing to report.

Share and Identify Opportunities and Strategies for Sustainability: Nothing to report.

Share and Identify Education and Outreach Activities: Megan King (CHRB) presented a talk related to MAM activities at the Virtual Botany 2020 conference. The talk was entitled “How Collections-Based Undergraduate Research Adapted to a Pandemic: A Case Study of the Herbarium Army at Rutgers University” (see attached abstract).

Other Progress: Nothing to report.

¹ Throughout this report, herbaria are referred to by their Index Herbariorum acronyms, which correspond to institutional names as follows: BALT = Towson University, CHRB = Rutgers University, CM = Carnegie Museum, DOV = Delaware State University, HUDC = Howard University, MARY = University of Maryland, MCA = Muhlenberg College, MOAR = Morris Arboretum of the University of Pennsylvania, NY = New York Botanical Garden, PAC = Pennsylvania State University, PH = The Academy of Natural Sciences of Drexel University, SIM = Staten Island Museum, TAWES = Maryland Department of Natural Resources

² Although updated progress for HUDC and NY are no longer included in these reports as they closed their NSF grants on the MAM Project as of 31 August 2019, their total numbers of specimens completed in the MAM Project to that date are still reported in Figure 1 and Table 1 in the interest of showing project totals.

Figure 1. Progress over time for MAM Project.

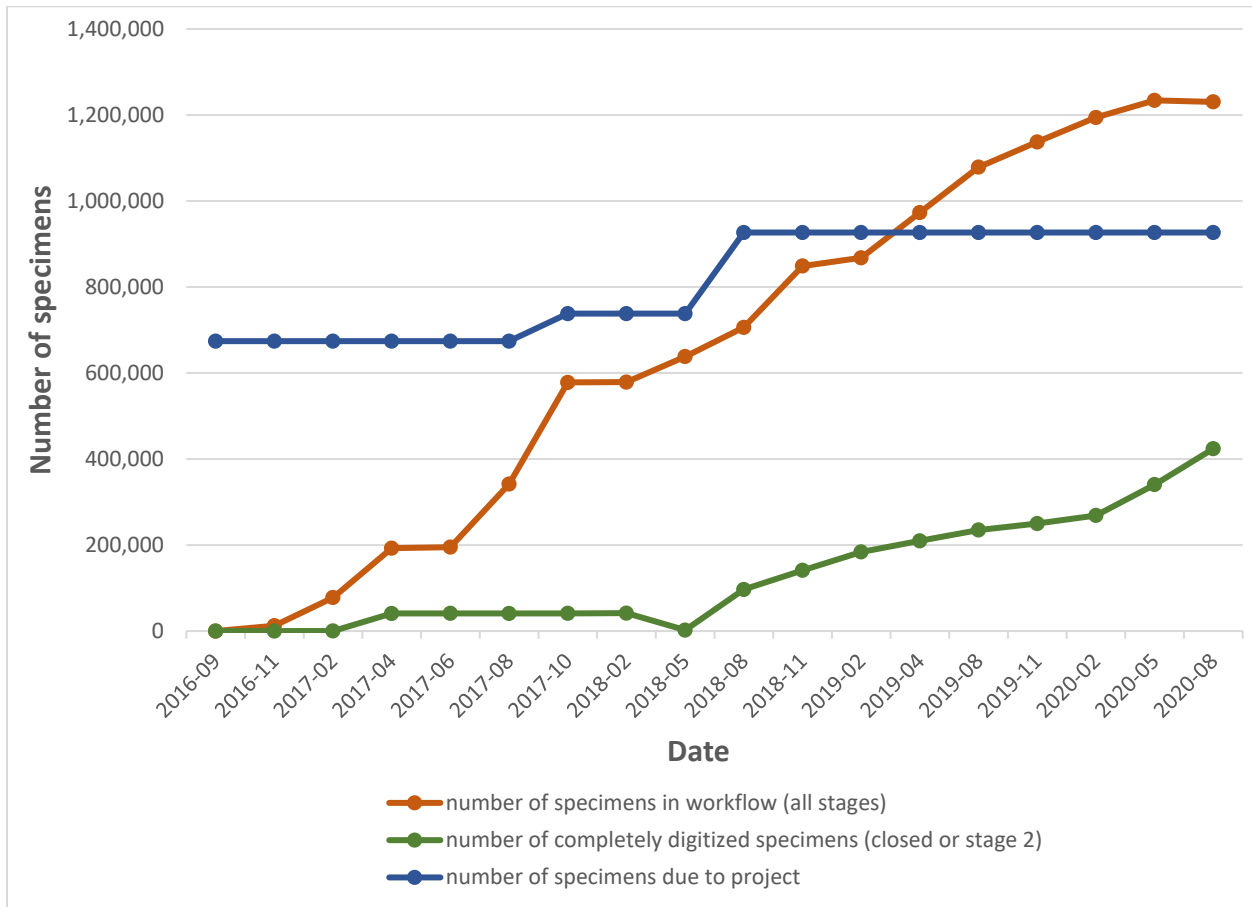


Table 1. Digitization of specimens by stage of completion and herbarium for MAM TCN.

Specimen Stage	Herbarium											Totals
	BALT	CHRB	DOV	MARY	MCA	MOAR	PH	SIM	TAWES	PAC	CM ⁷	
# specimens imaged ¹	30,000	4,739	0	0	0	0	0	0	0	0	2,721	37,460
# specimens as above and uploaded to Symbiota along with skeletal data; transcription/review may be in progress ²	6,570	37,371	1,645	7,719	0	0	206,883	0	254	42,471	0	452,674
# specimens as above + completely transcribed and transcription reviewed ³	0	22,209	46,797	0	0	0	154,837	707	821	23,096	4,392	311,329
# specimens as above + georeferenced ⁴	0	310	4,858	40,987	51,009	20,852	91,992	16,163	2,881	0	106,755	422,198
# specimens that need special attention, e.g. go back to sheet ⁵	127	31	0	46	2	274	315	3,857	270	0	0	5,089
# specimens imaged, uploaded, transcribed BUT not able to be georeferenced ⁶	2	1	0	226	52	47	225	1,011	61	0	12	1,775
Totals	36,699	64,661	53,300	48,978	51,063	21,003	454,252	21,738	4,287	65,667	113,880	1,230,525

Processing Status in the MAM Portal: ¹ No stage, not in Symbiota yet; ² Unprocessed + Expert Required + Pending Review; ³ Stage 1; ⁴ Stage 2; ⁵ Stage 3; ⁶ Closed
⁷ CM also has 80,639 specimens that have been georeferenced and were previously transcribed, but are not yet imaged.

Figure 2. 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%). Specimens not yet in workflow are set as negative numbers.

