Welcome to the Terrestrial Parasite Tracker (TPT) Best Practices and Standardization of Digital Data Capture Workshop!
Workshop Development Team:
Jen Zaspel, Kathryn Sullivan, Katja Seltmann, Jorrit Poelen, Julie Allen, Alyssa Caywood, Julia Colby, Chris Tyrrell, Stephen Cameron, Petra Sierwald, Rebekah Shuman, Jim Louderman, Erika Tucker, Matt Yoder, Neil Cobb, Maureen Turcatel, Julia Snyder, Theresa Reilly

Workshop Information and Agenda

- **What are we doing here?**
- **What do we hope to accomplish?**
- **What are the next steps?**

Next Steps: A Review

- Review digitization plans
- Work with Kat/Mark on ordering
- Work with Kat on taxonomy x platform
- Work with Chris/Alyssa on workflow development and reporting
- Hire technicians/students (slide cleaning, organizing, barcoding, taxonomy)
- Learn Inselect (segmentation) and Geolocate (georeferencing)

INSTITUTION	Imaged Pinned Specimens	Scanned Vials	Scanned Slides	Total Transcribed	Legacy Data Import	Data Crowdsourced
ANS	30	21,200	7,289	28,519	20,000	
BPBM	4,500	35,000	10,000	70,000		55,000
BYU			79,200	79,200		
CAS	5,241	6,289		99,840		6,289
CU	200	9,370		14,640		
FMNH	809	6,000	189,000	198,000		
INHS	400	9,906	13,111	73,258	8,214	
MSU	1000	530	2100	36,000		
MPM	200	1500	1000	2,700		
OSU			6,000	6,000		
PSU	200	8,301	5,000	38,301	images	
PU	300	300		27,600		
TAMU	500	13,595	23,452	165,000		13,595
UH	4,600		6,400	11,316		
UM			180,000	180,000		30,000
UMSP	48		56,204	56,252		
UNL			10,000	10,000	20,000	
UNH	4,500	1000	1000	30,000		
UNM		18,500	2,000	43,000	2,500	
UU		8,300	39,700	48,000		
UWM		6,426	13,053	19,985		
UWSP			9,280	9,280		
TOTAL	22,528	146,217	653,789	1,246,891	50,714	104,884

Inselect

An innovative tool for automating digitisation of natural history collections

Workshop Information and Agenda

- **What are we doing here?**
- - Demonstrating/distributing digitization workflows
- - Developing/communicating approaches for sharing taxonomy (arthropod/host)
- - Demonstrating online data/image delivery to SCAN
- - Learning how to set up NfN expeditions
- - Demonstrating/distributing georeferencing workflows and best practices
- - Practicing transcription and interpretation of interactions data for GloBI
- - Learning about FieldGuide, BrainScoop, and BLUE!
- - Meeting colleagues from various TPT stakeholder/collaborator groups

Workshop Information and Agenda

● **What do we hope to accomplish?**
- Our primary goal is to provide data providers the tools needed to meet their digitization goals for TPT
- Develop ideas for research projects that will use TPT data
- Develop a schedule of deliverables for BI activities
- Outline 2-3 papers for TPT community publications

Workshop Information and Agenda

- **Where are we headed next?**
- Project tracking review; online data delivery is key…
- TPT Data Entry/Interactions Webinar April 1st
- Next iDigBio QReport May
- Next TPT workshop FMNH (October 2020 *tentative*)
- Last TPT workshop TBD (year 3)

Workshop Information and Agenda

- **Materials/handouts**
- Workshop folder
- USB Drives
- Association data mapping x platform
- TaxonWorks files

2020 TPT Personnel Organizational Chart

Terrestrial Parasite Tracker

Research Advisory Board

Julie Allen
Jen Zaspel
Jessica Light
Rob Guralnick
Nate Lemoine
Anna Monfils
Sarah Bush
Jason Weckstein
Others TBD

Bioinformatics Teams

Data Integration

GLOBI

Jorrit Poelen
Katja Seltmann
Jen Zaspel

Project Leads
Jen Zaspel
Stephen Cameron

Project Manager
Kat Sullivan

Project communications, goals, and tracking

Data Providers

ANSP-Jason Weckstein
BPBM-Jim Boone
BYU-Mike Whiting
CAS-Chris Grinter
CU-Michael Caterino
FMNH-Petra Sierwald/Maureen Turcatel
INHS-Dmitry Dmitriev
MSU-Anthony Cognato
MPM-Julia Colby/Jen Zaspel
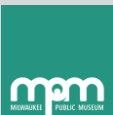OSU-Hans Klompen
PSU-Andy Deans

PU-Stephen Cameron/Jen Zaspel
TAMU-Jessica Light/Karen Wright
UH-Dan Rubinoff
UM-Barry OConnor/Erika Tucker
UMSP-Robin Thomson
UNL-Scott Gardner
UNH-Istvan Miko
UU-Sarah Bush
UNM-Mariel Campbell/Joe Cook
UWM-Dan Young/ Craig Brabant
UWSP-Sarah Orlofske

Taxonomy

TaxonWorks-Matt Yoder
Management, curation, and file formatting

Kat Sullivan
Jen Zaspel
Taxonomy file aggregation

VertNet

David Bloom
Vertebrate taxonomy

Digitization

Mark Smith
Pinned and slides
Alyssa Caywood
Pinned

MacroscopicSolutions
Portable, High Performance Imaging and Microscopy Systems

MPM

Image/Label Data Aggregation

Symbiota
SCAN

Katja Seltmann Neil Cobb

Broader Impacts

Anna Monfils   Julie Allen
Jen Zaspel   Emily Graslie
Rob Guralnick   Katja Seltmann

Machine Learning Species Identification

Fg

Fieldguide-Andre Poremski

Scanning

Kat Sullivan
Trays
Julia Colby
Slides and vials; barcodes
Jen Zaspel

Inselect-Julia Colby,
Kat Sullivan
Jen Zaspel

NOTES FROM NATURE

Julie Allen
Michael Denslow
Rob Guralnick

Update on Research Advisory Board
and
Georeferencing Working Group

- RAB is comprised of researchers from academic and non-academic institutions
- Working to define project goals and conditions for collaboration (e.g., how to handle student data, data requested for proposals, publications, etc.)
- Developing digitization priorities for research publications
- TPT needs a GR working group to synthesize existing resources and develop standards
- DD2021 TPT Talks

Workshop Ground Rules
Guidelines for Participation

- Everyone's input is equally valued; no idea is bad
- Only one conversation will go on at once (unless subgroups are working on a topic)
- Respect each speaker: Don't take part in side conversations; listen and ask clarifying questions
- Off-target discussions are limited to five minutes and then recorded as issues
- Discussions and criticisms will focus on interests, not people
- Encourage other team members
- Support everyone's right to be heard; share "air time"
- Keep phones on silent or vibrate mode during the session
- Include everyone in the discussion, respect one another's ideas
- Exchange relevant workshop information with non-group members

TPT Equipment Update

- Scanning Trays
    - Next batch order around end of March
    - Tray template information documents on flash drives
    - Still able to order trays!

TPT Taxonomy Update

- Taxonomy
  - Available csv files in Google drive
    - Astigmata mites and Acari higher taxonomy
    - Worldwide fleas
    - Black flies
  - New csv files
    - Psychodids--sandfly list from WRBU
  - Diptera coming soon (NA mosquitoes)
  - Other resources
    - Vectorbase ontology
      https://www.vectorbase.org/ontology-browser

TPT Taxonomy Update

TaxonWorks is the new taxonomy management tool for TPT

- 3 files live in TW now, try to access during workshop
- Long term sustainability
  - Collaborative
  - Generate project checklists
  - Tool to navigate collections
  - Batch download files in variety of formats, advanced filtering available
  - Community paper