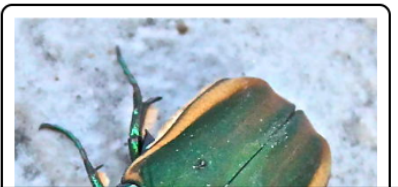




## Symbiota Collections of Arthropods Network (SCAN): A Data Portal Built to Visualize, Manipulate, and Export Species Occurrences

The Symbiota Collections of Arthropods Network (SCAN) serves specimen occurrence records and images from over 100 North American arthropod collections for all arthropod taxa. The focus is on North America but global in scope. SCAN is built on Symbiota, a web-based collections database system that is used for other taxonomic data portals, including (Symbiota Portals). SCAN is the primary repository for occurrence data produced by the three continuing Thematic Collections Networks (TCNs), the Southwest Collections of Arthropods Network (SCAN TCN), the Lepidoptera of North America Network (LepNet TCN), and arthropod data produced by InvertEBase TCN. InvertEBase serves occurrence data for mollusk and other non-arthropod taxa. We also host observational data, the largest data provider is iNaturalist. Each collection is primarily responsible for their data and we have structured the database to make it easy to include collections of interest when querying the database.

**Taxon Search**

**Important features of all Symbiota portals include:**

1. Easy web-based data entry.
2. Download entire datasets in two clicks.
3. Map georeferenced records in two clicks.
4. Upload high-resolution images & create species profile pages.
5. Design custom species lists for any locality at multiple scales.
6. Develop educational games with data.
7. Create taxonomic keys.

The key organizational feature is that each museum "collections", or just a subset. This website is the central network updates.

SCAN currently serves 22,741,914 records for over

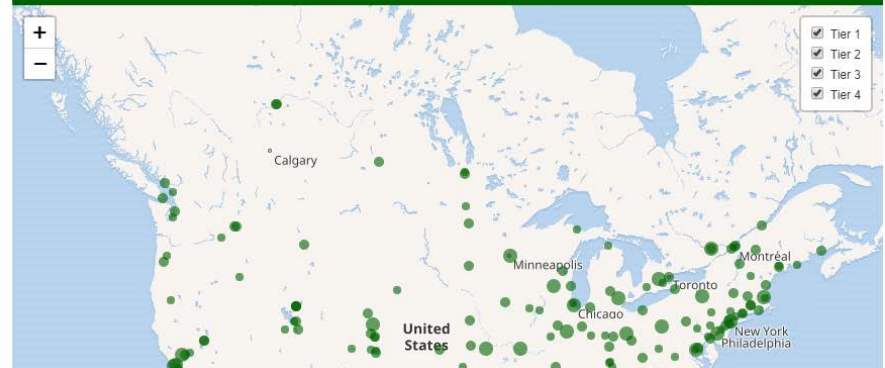
**Get a free 1-on-1 Demo**  
Manage your collection data better with a free skype/phone meeting



- HOME
- TCN NETWORKS
- DATA & IMAGE PORTAL
- DATA SEARCH & USE
- PROJECTS
- UPDATES, OUTREACH & MEETINGS
- SYMBIOTA

ANY PROBLEMS WITH THE SCAN DATABASE WILL BE POSTED HERE.

### North American Arthropod Collections



SEARCH

**FOLLOW US ON TWITTER**

**Lep-Net.org**   
The official Twitter account of Lepidoptera of North America Network. National Science Foundation Award EF 1602081

**Lep-Net.org** @Lep\_Net · 22 Nov  
Every butterfly in the United States and Canada now has a genome sequence  
<https://www.nature.com/articles/d41586-019-03521-4>  
12 retweets 25 likes

**Lep-Net.org** @Lep\_Net · 22 Nov  
The Extended Specimen Network: A Strategy to Enhance US Biodiversity Collections. Promote Research and

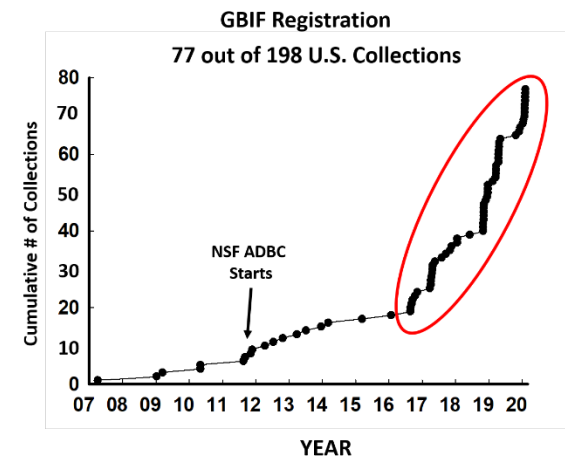


# SCAN

## 1. Data Portal

- Most Complete arthropod occurrence data for North America

**22 million records**  
**4.7 million images**  
**218 collection datasets**



## 2. WordPress site

Provides user guides, compiled data and literature

# SCAN Support - ParasiteTracker

## Basic Support

1. Maintain portal functionality (keep the database working 24/7/365)
2. General end user support (webinar, user guides on website) and small-group or one-on-one consultation (skype, email , phone). TPT updates on SCAN support site [https://scan-all-bugs.org/?page\\_id=2717](https://scan-all-bugs.org/?page_id=2717). SCAN issues on Github <https://github.com/scan-bugs-org/scan/issues>
3. Update & integrate data (IPTs, direct DwC-A, and csv's) from non-Symbiota & Symbiota Snapshot data providers
4. Provide for host association data to be **Fully** entered into Symbiota (Live Collections) and/or **Full** harvest of association data from Snapshot collections (e.g., IPT).



# SCAN Support - ParasiteTracker

## Optional Support/Development

1. Incorporate mammal and bird taxonomy tables to SCAN
  - Allows controlled taxonomic vocabulary
2. Continue collaboration with Fieldguide for computer vision
  - Collections can train Fg and later screen new images for identification
3. Store copies of all TPT images, not just Live Collections
  - Under current model only Live collections have to upload images to make them available
4. Make a dedicated multiphyla portal with following occurrence data
  - **Parasitic arthropods**
  - **Vertebrates**
  - Non-arthropod parasitic invertebrates
  - Vertebrate diseases
  - Parasite symbionts
5. Present associated taxa statistics



FMNH :  
FMNHINS

## Field Museum of Natural History Collection of Insects, Arachnids, and Myriapods

**Catalog #:** FMNHINS 0000 028 461

**Secondary Catalog #:** [http://fm-digital-assets.fieldmuseum.org/613/791/28461\\_Abrocomophaga\\_chilensis\\_PT\\_d\\_IN.jpg](http://fm-digital-assets.fieldmuseum.org/613/791/28461_Abrocomophaga_chilensis_PT_d_IN.jpg) | [http://fm-digital-assets.fieldmuseum.org/613/793/28461\\_Abrocomophaga\\_chilensis\\_PT\\_v\\_IN.jpg](http://fm-digital-assets.fieldmuseum.org/613/793/28461_Abrocomophaga_chilensis_PT_v_IN.jpg) | [http://fm-digital-assets.fieldmuseum.org/558/371/28461\\_Abrocomophaga\\_chilensis\\_PT\\_w\\_IN.jpg](http://fm-digital-assets.fieldmuseum.org/558/371/28461_Abrocomophaga_chilensis_PT_w_IN.jpg)

**Taxon:** *Abrocomophaga chilensis*

**Family:** Gyropidae

**Collector:**

**Date:** 1974-11-02 - 1974-01-02

**Verbatim Date:** 1974-11-2

**Locality:** Chile, Reg. Metropolitana, Santiago, Til, Til

**Life Stage:** adult female

**Sex:** adult female

**Individual Count:** 2

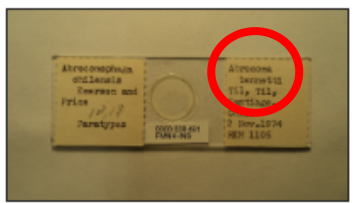
### Specimen Images



Open Large Image



Open Large Image



Open Medium Image



Bennett's chinchilla rat

**Usage Rights:** CC BY-NC 3.0 (Attribution-Non-Commercial)

**Rights Holder:** Copyright © 2015 The Field Museum of Natural History

**Access Rights:** <http://fieldmuseum.org/about/copyright-information>

**Record ID:** 9f6db642-b1c3-4e5e-bc03-c7d2b64adccb

**Occurrence ID (GUID):** f3d57ace-4a05-438f-9c12-6c5a5ecbb87d

For additional information on this occurrence, please contact: Sharon Grant (Collection Manager) ([sgrant@fieldmuseum.org](mailto:sgrant@fieldmuseum.org))



Do you see an error? If so, errors can be fixed using the Occurrence Editor























# SCAN Support - ParasiteTracker

TCN support travels with <https://scan-bugs.org/portal/> regardless of where the database is located. Plan to move from TACC to ASU by March 31, 2020.

Symbiota2 development will not negatively impact TCN work <https://symbiota2.github.io/Symbiota2/>























# ParasiteTracker TCN has own set of collections

-   **Academy of Natural Sciences Entomology Collection – ParasiteTracker (ANSP-PARA)** [more info](#)
-   **Bernice P. Bishop Museum (HSMNCH-BPBM)** [more info](#)
-   **Brigham Young University Arthropod Museum (BYU-BYUC)** [more info](#)
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-   **Museum of Southwestern Biology Division of Parasitology - ParasiteTracker (MSB-PARA)** [more info](#)
-   **Nebraska State Museum - ParasiteTracker (UNL-NSM)** [more info](#)
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





	<input checked="" type="checkbox"/> Academy of Natural Sciences Entomology Collection – ParasiteTracker (ANSP-PARA) <a href="#">more info</a>
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Four Collections serve TPT Only data

We can create TPT-only collections for other institutions

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# Databases used by TPT data providers

Database/CMS		
	Symbiota	10
	Specify	4
	TaxonWorks	3
	EMu	2
	Institutional	2
	Arctos	1
	Uncommitted	1


Live & Snapshot  
Snapshot

**From SCAN perspective switching databases is not a big deal**



## Live Collections

## Snapshot Collections

### Single Record Data entry

- Single record entry through Symbiota in SCAN
- Excel or other program

- Record entry through non-Symbiota database

### Batch Record Upload

- CSV file

- IPT, DwC-A or CSV file
- Specify has a linkage workflow

### Image upload

- Single image upload (record entry) or batch image upload via zip file through SCAN image uploader

- Link image URL in record and/or batch image upload via zip file through SCAN image uploader

### Data annotation

- Annotate directly in SCAN and/or batch upload annotations.

- Annotate in native database and update records as part of SCAN harvest.

## **Overview of four specific functions**

1. Collection Profile
2. Uploading data and images
3. Query summary stats to assess progress
4. Computer Vision: Fieldguide reporting in SCAN

# 1. Collection Profile



## Symbiota Collections of Arthropods Network (SCAN): A Data Portal Built to Visualize, Manipulate, and Export Species Occurrences

The Symbiota Collections of Arthropods Network (SCAN) serves specimen occurrence records and images from over 100 North American arthropod collections for **all** arthropod taxa. The focus is on North America but global in scope. SCAN is built on Symbiota, a web-based collections database system that is used for other taxonomic data portals, including (Symbiota Portals). SCAN is the primary repository for occurrence data produced by the three continuing Thematic Collections Networks (TCNs), the Southwest Collections of Arthropods Network (SCAN TCN), the Lepidoptera of North America Network (LepNet TCN), and arthropod data produced by InvertEBase TCN. InvertEBase serves occurrence data for mollusk and other non-arthropod taxa. We also host observational data, the largest data provider is iNaturalist. Each collection is primarily responsible for their data and we have structured the database to make it easy to include collections of interest when querying the database.

### Important features of all Symbiota portals include:

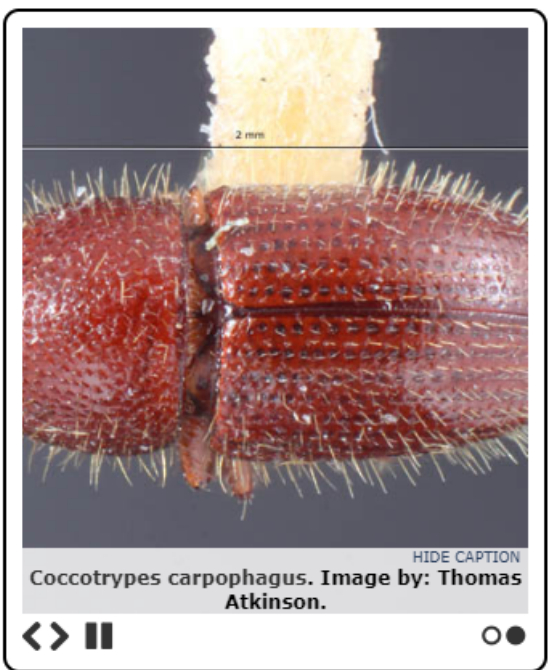
1. Easy web-based data entry.
2. Download entire datasets in two clicks.
3. Map georeferenced records in two clicks.
4. Upload high-resolution images & create species profile pages.
5. Design custom species lists for any locality at multiple scales.
6. Develop educational games with data.
7. Create taxonomic keys.

The key organizational feature is that each museum or project is listed as a separate collection, so that one database group does not interfere with another. End users can select all "collections", or just a subset. This website is the central data portal for SCAN; all other project information can be found on the LepNet WordPress site, including How-To-Guides and network updates.

SCAN currently serves 22,741,914 records for over 238,177 species, and over 2,276,630 specimen/label images (2020-02-23 18:44:15 America/Phoenix ).
























**Get a free 1-on-1 Demo**  
Manage your collection data better with a free skype/phone meeting

**Taxon Search**



This project made possible by National Science Foundation Award EF 1207371

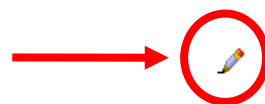


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Click on  
Collection



Click on  
Pencil



## Price Institute of Parasite Research, School of Biological Sciences, University of Utah (UTAH-PIPR)

The Price Institute for Parasite Research (PIPR) is largely focused on the study of ectoparasitic insects (but we also work on vertebrate endoparasites, including avian malaria). The centerpiece of PIPR is a collection of 1200+ species of slide-mounted lice, representing about two thirds of the 301 recognized genera, making it the fourth most diverse collection in North America (top 10 worldwide). The collection is invaluable because of the consistent quality of its specimens, most of which were prepared by Dr. Roger Price, a leading authority on the systematics of lice. PIPR also contains an extensive collection of 40,000+ slides of fleas and lice assembled by the late Robert Elbel. It houses equipment for microscopy and the creation and analysis of digital images. This facility, in conjunction with the University's SEM unit, allows for rapid recording of morphometric data on a variety of scales. PIPR has facilities for preparing new slide-mounts and remounting slides. It houses one of the largest frozen ectoparasite tissue collections in the world, consisting of 7,000+ specimens from 250+ host species. PIPR also has an associated molecular lab with full capabilities for DNA extraction, PCR, and the preparation of material for the University of Utah's central automated sequencing facility. PIPR will serve as a base for research and training in ectoparasitology well into the new century. • 25,000 slides of lice (Phthiraptera) • 17,000 slides of fleas (Siphonaptera) • Additional ectoparasite specimens include: mites, ticks, flies, and helminths, but these are not yet catalogued.

**Contact:** Sarah Bush ([bush@biology.utah.edu](mailto:bush@biology.utah.edu))

**Home Page:** <http://darwin.biology.utah.edu/PIPeRX.html>

**Collection Type:** Preserved Specimens

**Management:** Live Data managed directly within data portal

**Global Unique Identifier:** 028dfa8-3d4b-4c1f-ab67-4cd41e01e213

**DwC-Archive Publishing:** <https://scan-bugs.org:443/portal/collections/datasets/datapublisher.php>

**Live Data Download:** DwC-Archive File

**Digital Metadata:** EML File

**Usage Rights:** CC BY-NC 3.0 (Attribution-Non-Commercial)

**Rights Holder:** Sarah E. Bush, Curator PIPR collection

### Collection Statistics

- 2 occurrence
- 0 georeferenced
- 0 families
- 0 genera
- 0 species

### Extra Statistics

[Show Geographic Distribution](#)  
[Show Family Distribution](#)



## Price Institute of Parasite Research, School of Biological Sciences, University of Utah (UTAH-PIPR)

### Data Editor Control Panel

- Add New Occurrence Record
- Create New Records Using Image
- Add Skeletal Records
- Edit Existing Occurrence Records
- Add Batch Determinations/Nomenclatural Adjustments
- Print Labels/Annotations
- Batch Georeference Specimens
- Loan Management

Quick Search  
Catalog Number

### Administration Control Panel

- View Posted Comments
- **Edit Metadata and Contact Information**
- Manage Permissions
- Fieldguide Batch Image Processing
- Import/Update Specimen Records
- Processing Toolbox
- Darwin Core Archive Publishing
- Review/Verify Occurrence Edits
- View Access Statistics
- Duplicate Clustering
- General Maintenance Tasks
  - Data Cleaning Tools
  - Download Backup Data File
  - Thumbnail Maintenance
  - Update Statistics
  - Clean SOLR Index

← Collection Profile

# Go to "collection" Sitemap



Home Search Images Fauna Projects Statistics Other Networks Symbiote Contact

Welcome Neil! My Profile Logout Sitemap

Home >> Collection Management >> Price Institute of Parasite Research, School of Biological Sciences, University of Utah Metadata Editor

## Price Institute of Parasite Research, School of Biological Sciences, University of Utah (UTAH)

### Edit Collection Information

Institution Code:	<input type="text" value="UTAH"/>
Collection Code:	<input type="text" value="PIPR"/>
Collection Name:	<input type="text" value="Price Institute of Parasite Research, School of Biological Sciences, University of Utah"/>
Description (2000 character max):	<p>The Price Institute for Parasite Research (PIPR) is largely focused on the study of ectoparasitic insects (but we also work on vertebrate endoparasites, including avian malaria). The centerpiece of PIPR is a collection of 1200+ species of slide-mounted lice, representing about two thirds of the 301 recognized genera, making it the fourth most diverse collection in North America (top 10 worldwide). The collection is invaluable because of the consistent quality of its specimens, most of which were prepared by Dr. Roger Price, a leading authority on the systematics of lice. PIPR also contains an extensive collection of 40,000+ slides of fleas and lice assembled by the late Robert Elbel. It houses equipment for microscopy and the creation and analysis of digital images. This facility, in conjunction with the University's SEM unit, allows for</p>
Homepage:	<input type="text" value="http://darwin.biology.utah.edu/PIPeRX.html"/>
Contact:	<input type="text" value="Sarah Bush"/>
Email:	<input type="text" value="bush@biology.utah.edu"/>
Latitude:	<input type="text" value="40.763734"/>
Longitude:	<input type="text" value="-111.848542"/>
Category:	<input type="text" value="Parasite Tracker"/>
Allow Public Edits:	<input type="checkbox"/>
License:	<input type="text" value="CC BY-NC 3.0 (Attribution-Non-Commercial)"/>
Rights Holder:	<input type="text" value="Sarah E. Bush, Curator PIPR collection"/>
Access Rights:	<input type="text"/>
GUID source:	<input type="text" value="Symbiote Generated GUID (UUID)"/>
Publish to Aggregators:	<input checked="" type="checkbox"/> GBIF
Source Record URL:	<input type="text"/>
Icon URL:	<input type="text" value="https://scan-bugs.org.443/portal/content/collicon/utah-pipr.png"/> <a href="#">Upload Local Image</a>
Collection Type:	<input type="text" value="Preserved Specimens"/>
Management:	<input type="text" value="Live Data"/>
Sort Sequence:	<input type="text"/>
Global Unique ID:	<input type="text"/>
Security Key:	<input type="text"/>

Save Edits

### Mailing Address

No addresses linked

Select Institution Address  Link Address

Add an institution not on list





## Price Institute of Parasite Research, School of Biological Sciences, University of Utah (UTAH-PIPR)



### Data Editor Control Panel

- Add New Occurrence Record
- Create New Records Using Image
- Add Skeletal Records
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- View Access Statistics
- Duplicate Clustering
- General Maintenance Tasks
  - Data Cleaning Tools
  - Download Backup Data File
  - Thumbnail Maintenance
  - Update Statistics
  - Clean SOLR Index

## 2. Uploading data and images

# How to Batch Upload Data on SCAN

General Reference Material [https://scan-all-bugs.org/?page\\_id=201](https://scan-all-bugs.org/?page_id=201)



HOME ▾ TCN NETWORKS ▾ DATA & IMAGE PORTAL DATA SEARCH & USE ▾ PROJECTS ▾ UPDATES, OUTREACH & MEETINGS ▾ SYMBIOTA

- HOW THE PORTAL WORKS >
- SPECIMEN DIGITIZATION >**
  - CATALOGNUMBER – BARCODE
  - DATA FIELDS OVERVIEW >
  - DATA ENTRY, EDIT, UPLOAD >**
    - DATA ENTRY
    - SEARCH/EDIT RECORDS
    - BATCH RECORD & IMAGE UPLOAD >**
      - EXPORT SPECIFY DATA TO SCAN COLLECTION –**
      - GEOREFERENCING GUIDES
      - ADDING NEW TAXONOMIC NAMES
  - PUBLISHING TO GBIF & IDIGBI
  - COLLECTION DATA BACKUP
- IMAGING
- SYMBIOTA HOW-TO GUIDES >
- CURATION >

Tier 2

3. Query summary stats to assess progress



Home >> Collections >> Collection Statistics

## Select Collections to be Analyzed

Restrict query to a specific taxa and/or country

Collections

### Record Criteria

Parent Taxon:

Country:

Select/Deselect all Collections

Select all TPT collections or individual ones

**Parasite Tracker (TPT)**

- Academy of Natural Sciences Entomology Collection – ParasiteTracker (ANSP-PARA) [more info](#)
- Bernice P. Bishop Museum (HSMNCH-BPBM) [more info](#)
- Brigham Young University Arthropod Museum (BYU-BYUC) [more info](#)
- California Academy of Sciences Entomology (CAS-ENT) [more info](#)
- Clemson University Arthropod Collection (CU-CUAC) [more info](#)
- Field Museum of Natural History Collection of Insects, Arachnids, and Myriapods (FMNH-FMNHINS) [more info](#)
- Illinois Natural History Survey Insect Collection (INHS-INHSIC) [more info](#)


**Run Statistics**

Update Statistics


# Selected Collection Statistics


## Display List of Collections Analyzed

- 3,644,415 occurrence records
- 2,358,629 (65%) georeferenced
- 157,584 (4%) imaged
- 1,979,351 (54%) identified to species
- 1,696 families
- 21,483 genera
- 92,319 species
- 93,956 total taxa (including subsp. and var.)

Show Statistics per Collection 

### Extra Statistics

Show Family Distribution 

Show Geographic Distribution 

Load Order Distribution

### Year Stats

Years:  Load Stats

Shows monthly activity for X number of years



### Month Totals

Institution	Object	2019-2	2019-3	2019-4	2019-5	2019-6	2019-7	2019-8	2019-9	2019-10	2019-11	2019-12	2020-1	2020-2	Total
Bernice P. Bishop Museum	Specimens	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unprocessed	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Stage 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Stage 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Stage 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Images	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brigham Young University Arthropod Museum	Georeferenced	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Specimens	515	1238	365	293	3956	5172	1460	1567	1384	216	83	442	354	17045
	Unprocessed	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Stage 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Stage 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Stage 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Images	47	59	55	90	32	6	59	0	0	0	0	0	0	348
	Georeferenced	0	8	0	1	73	45	14	25	43	2	0	39	26	276

## 4. Computer Vision: Fieldguide



## C.P. Gillette Museum of Arthropod Diversity (CSU-CSUC)

### Data Editor Control Panel

- Add New Occurrence Record
  - Create New Records Using Image
  - Add Skeletal Records
- Edit Existing Occurrence Records
- Add Batch Determinations/Nomenclatural Adjustments
- Print Labels/Annotations
- Batch Georeference Specimens
- Loan Management

Quick Search  
Catalog Number

### Administration Control Panel

- View Posted Comments
- Edit Metadata and Contact Information
- ~~Manage Permissions~~
- **Fieldguide Batch Image Processing**
- Import/Update Specimen Records
- Processing Toolbox
- Darwin Core Archive Publishing
- Review/Verify Occurrence Edits
- View Access Statistics
- Duplicate Clustering
- General Maintenance Tasks
  - Data Cleaning Tools
  - Download Backup Data File
  - Thumbnail Maintenance
  - Update Statistics
  - Clean SOLR Index

Open Fieldguide computer vision module



Batch process initiated

## Fieldguide Batch Processing

Use this dialogue to initiate, cancel, or view the results of a Fieldguide Batch Image identification process. Either type a parent taxon into the Parent Taxon box to initiate a batch image identification process for a specific taxon, or leave the Parent Taxon box empty and click Initiate Process to initiate a batch image identification process for your whole collection. Processes that are currently being identified by Fieldguide will be identified by Fieldguide. Processes that are currently being identified by Fieldguide will be identified by Fieldguide. Processes that are currently being identified by Fieldguide will be identified by Fieldguide. Processes that are currently being identified by Fieldguide will be identified by Fieldguide.

Parent Taxon:

### Current Jobs:

Date Initiated	Parent Taxon	Cancel
2018-04-10	Noctuidae	X

### Current Results:

	Date Initiated	Date Received	Parent Taxon	Delete
<a href="#">View Results</a>	2018-03-04	2018-03-04	Erebidae	X
<a href="#">View Results</a>	2018-03-07	2018-03-07	Erebidae	X
<a href="#">View Results</a>	2018-03-09	2018-03-12	Lepidoptera	X
<a href="#">View Results</a>	2018-04-02	2018-04-02	Erebidae	X
<a href="#">View Results</a>	2018-04-05	2018-04-05	Lepidoptera	X

This job is currently running

These jobs are completed



SCAN Portal: <https://scan-bugs.org/portal/>

SCAN Support Documentation: <https://scan-all-bugs.org/>