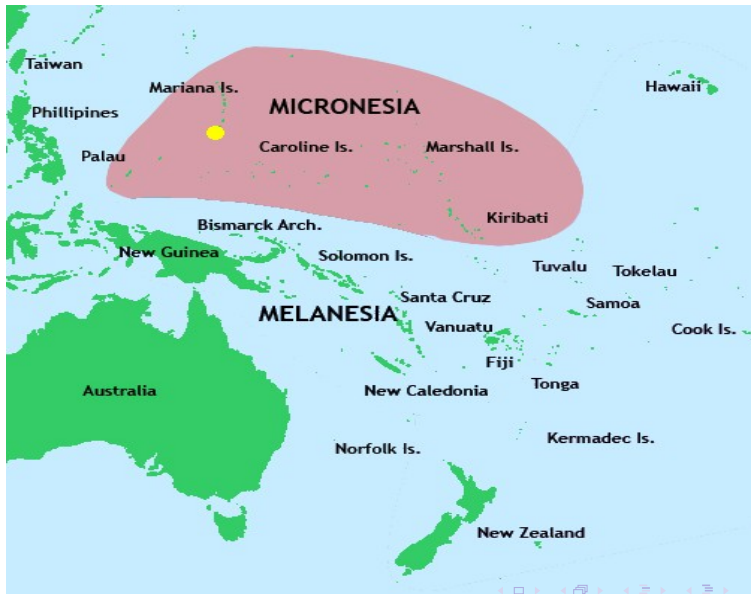


Evaluation of a Scratchpad Template as an Online Database for the University of Guam Insect Collection



Aubrey Moore
Extension Entomologist
University of Guam

Where is Guam?



Challenges

- Limited taxonomic expertise
- High endemism (~45%); many undescribed species
- Very high introduction rate for alien insects

Resources

- Limited Literature
 - Hawaii Sugar Planters' Association survey of 1936 published by Bishop Museum in *Insects of Guam* (2 volumes)
 - Bishop Museum surveys of 1950s and 60s published in [Insects of Micronesia](#)
- Entomological Collections
 - University of Guam
 - Northern Marianas College, Saipan
 - Palau National Museum

University of Guam Insect Collection



University of Guam Insect Collection



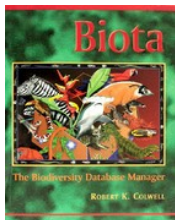
Wilfred Leon Guerrero Museum of Entomology

Curators

- Ross Miller, University of Guam
- Aubrey Moore, University of Guam

Board of Directors

- Richard Zack, Washington State University
- Robert Foottit, Agriculture Canada
- Robert Sites, University of Missouri



Digitization

- Initial attempts at specimen level databasing failed.
- All data lost due to hardware failures / defective back-up procedures



Digitization

- Biodiversity Information Management System provided free by CSIRO, Australia
- Development and support discontinued in 2005, however, BioLink has recently been reborn as an open source project
- Written in Visual Basic 6/C++ and sits on top a MicroSoft SQL Server database
- Typically run in client / server mode on a LAN or Internet



Digitization

Current Status

- 30,000 pinned specimens have been given a unique identifier and are recorded in our BioLink database

Desirable Features for an Online Collection Database

- Free and open source
- Reliable data security / backup
- Flexible data security (user permissions)
- Web browser used for data entry and information delivery
- Specimen records compliant with Darwin Core
- Storage for images, bibliographic data, informal notes, etc.
- Data shared via GBIF

LifeDesks and Scratchpads



- LifeDesks is part of the Encyclopedia of Life Project.
- ScratchPads is a project managed by the Natural History Museum, London.
- Both are Drupal templates hosted for free.
- My evaluation sites are at:
<http://micronesianinsects.lifedesks.org/>
<http://guaminsects.myspecies.info/>

Scratchpads

A multi-site implementation of Drupal

The screenshot shows the Scratchpads website in a browser window. The browser's address bar displays <http://scratchpads.eu/>. The website header features the Scratchpads logo (a green grid) and the text "Scratchpads biodiversity online". A navigation menu includes links for Home, About, Sites, Training, Progress, Blogs, and Help. A search bar is located in the top right corner.

The main content area is divided into several sections:

- Left Column:** A large black box with the text "A social networking tool to build, share & publish information on the diversity of life..." and a collage of website screenshots.
- Right Column (Navigation):** A vertical list of menu items: Overview, Image Galleries, eBooks, eJournals, DNA, Phylogeny & Specimens, Societies & Organizations, and Taxonomy & Literature.
- Right Column (Call to Action):** A red-bordered box containing a grid icon and the text "Apply Now or join a site".
- Right Column (Data Integration):** A section titled "Your data" showing logos for Google, Yahoo!, Flickr, and other services.
- Right Column (Site Building):** A section titled "Builds your site" showing a screenshot of a website layout.

Featured Sites: A section at the bottom left displays three featured sites with their respective logos and titles:

- Alfred Russel Wallace Memorial Fund
- Annelid Worms of the dark murky depths
- Stick Insect Study Group

At the bottom left of the page, it says "1068 reads".

<http://scratchpads.eu>

Scratchpad Application Form

Free to any individual or community

The screenshot shows a web browser window with the URL `http://scratchpads.eu/apply`. The page title is "Apply | Scratchpads". The header features the Scratchpads logo and the tagline "biodiversity online". A navigation menu includes links for Home, About, Sites, Training, Progress, Blogs, and Help. A search bar is located in the top right corner.

The main content area is titled "Apply" and contains the following sections:

- Apply**
Fill out and submit the electronic form below to initiate your scratchpad application. (*) Field Required).
- About You**
Details about the maintainer of this Scratchpad
 - Title:** *
 - Full Name:** *
At minimum this should be your first given name, and family name.
 - Email:** *
Your email address
 - Institution:** *
The institution with which you are most closely associated. If retired or amateur, please insert 'NA'
 - Country:** *
The country that you are based in.
- About Your Scratchpad**
Information about your Scratchpad, including necessary API keys.
 - Site Title:** *
 - Taxonomic Scope:** *
The taxonomic group which best describes what taxa will be featured on your site. e.g. Insecta, Aves, Pthiraptera, Dragons
 - Proposed subdomain of myspecies.info:** *
[INSERT HERE].myspecies.info
Tip on choosing a domain name
 - Mission statement:** *
A description of your site, including what information a user of your site is likely to find there. By default the mission statement will appear on the front page of your site (although this can be changed later).
 - Google API Key:** *

Flexible Template Site

With easy navigation

The screenshot shows a web browser window displaying the 'Task guide' page on the 'Scratchpad Sandbox' website. The browser's address bar shows the URL 'http://sandbox.scratchpads.eu/taskguide'. The website has a blue header with the 'Scratchpad Sandbox' logo and navigation links for 'Help', 'Bibliography', 'Contact us', and 'Forums'. Below the header, there is a 'Home' link and a 'Task guide' section with the heading 'Some tips to get you started:'. The main content area lists several categories with brief descriptions and icons: Taxonomy (with a tree icon), Literature (with a book icon), Users (with a person icon), Content (with a grass icon), Images, Specimens and Locations (with a beetle icon), Morphological and Molecular Data (with a DNA helix icon), Languages (with a globe icon), and Site Information (with an information icon). On the left side, there is a sidebar with a search box and a list of 'Primates' (including Primates, Callitrichidae, Cebidae, Cercopithecoidea, Cheirogaleidae, Daubentonidae, Galagonidae, Hominoidea, Hylobatidae, Indridae, Lemuridae, Loridae, Megaladapidae, and Pitheciidae) and a 'Content' menu. The 'Content' menu is highlighted in a separate box on the right, listing items like 'Biblio', 'Blog entry', 'Character project', 'Countries map', 'Forum topic', 'Group', 'Image', 'Location (DwC 1.2.1)', 'Newsletter issue', 'Page', 'Phylogenetic tree', 'Poll', 'Profile', 'Specimen (DwC 1.2.1)', and 'Taxonomy'. The browser's status bar at the bottom shows the URL 'http://www.primates.com/primates/ev-eyt.jpg'.

Task guide | Scratchpad Sandbox

http://sandbox.scratchpads.eu/taskguide

The Sandbox was last updated 33:07 (mins:seconds) ago. You have approximately 26:53 (mins:seconds) before the site is wiped.

Help Bibliography Contact us Forums

Scratchpad Sandbox

Home

Task guide

Some tips to get you started:

- Taxonomy**
Add a biological taxonomy (vocabulary), and then import a classification into your new vocabulary. Adding a taxonomy allows you to create taxon pages, and automatically integrate and navigate content across your site.
- Literature**
Import a bibliography, or add a new reference. To make this work with your biological taxonomy, make sure one or more taxon names are mentioned in the reference. You can access your full bibliographic list at any time.
- Users**
Add or list site users in different 'roles'. Contributors can add and edit their own content, editors can also edit other peoples content, and maintainers can also access advanced administrative features. The groups feature allows users to create private areas that can be selectively shared.
- Content**
Use the list content link to find and manage all content (nodes) within your site. Even found from there.
- Images, Specimens and Locations**
Add images, create galleries, and view images in the galleries. You can also add and edit images with geographic locations.
- Morphological and Molecular Data**
Create and import projects (collections of taxa, characters and data) that can be edited via the web.
- Languages**
Make your site multilingual by adding languages, allowing users to provide translations of content.
- Site Information**
Change basic site information, such as the site name, slogan, e-mail address, and mission statement. You can also specify the page address at the bottom of this page. Otherwise snippets of new content will be added to the bottom of the page.

feedback

Content

- Biblio
- Blog entry
- Character project
- Countries map
- Forum topic
- Group
- Image
- Location (DwC 1.2.1)
- Newsletter issue
- Page
- Phylogenetic tree
- Poll
- Profile
- Specimen (DwC 1.2.1)
- Taxonomy

Primates

- Primates (14)
- Callitrichidae (4)
- Cebidae (7)
- Cercopithecoidea (18)
- Cheirogaleidae (4)
- Daubentonidae (3)
- Galagonidae (4)
- Hominoidea (4)
- Hylobatidae (3)
- Indridae (3)
- Lemuridae (4)
- Loridae (4)
- Megaladapidae (1)
- Pitheciidae (4)

Content

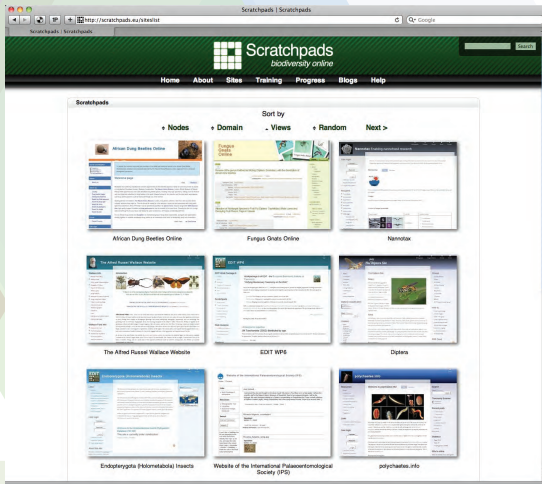
- Biblio
- Blog entry
- Character project
- Countries map
- Forum topic
- Group
- Image
- Location (DwC 1.2.1)
- Newsletter issue
- Page
- Phylogenetic tree
- Poll
- Profile
- Specimen (DwC 1.2.1)
- Taxonomy

test

- Administer
- Groups
- My Unread

http://www.primates.com/primates/ev-eyt.jpg

An Ecosystem of Communities



on 24 Aug 11

Sites: 280
Users: 3466
Pages: 363k

Countries: >60

Since March 07

Circa 2 new sites/wk
& 15 new users/wk

Scratchpad Functionality Summary

Taxonomy

Taxonomy import,
management and
navigation

The screenshots illustrate the following features:

- Import Page:** Options for destination classification (e.g., "Choose..."), batch import, and file formats (e.g., "FILE FORMAT - 12").
- Edit Page:** A tree view of taxonomic categories such as "Primates", "Arctocidae", "Loris", and "Nictyctibus".
- Search Results:** A search for "Loris" yields results like "Loris (1)", "Nictyctibus (2)", and "Pedicoticus (1)".
- Taxonomic Entry:** A detailed view of "Pediculus Linnaeus, 1758" showing its taxonomic rank (genus), relation to "Pediculidae Leach, 1817", and original published description.

Bibliographic data

The screenshot displays the Scratchpad Sandbox website interface. On the left, there is a navigation menu with sections for 'Primates' and 'Content'. The 'Primates' section lists various taxonomic groups such as Callitrichidae, Cercopithecoidea, and Hominoidea. The 'Content' section includes options like 'Bibliography', 'Blog entry', and 'Character project'. The main area shows an 'Import' form with a dropdown menu for 'File Type' set to 'Endnote Tagged'. A 'Taxonomy Settings' dialog box is open, showing a tree view of taxonomic categories. On the right, a 'Biblio' list is displayed, sorted by 'Author Keyw'. The list contains several entries, with the top one being: 'Susceptibility of British head lice, *Pediculus capitis*, to imidacloprid and fipronil' by Downs, AMR, Stafford KA, Coles GC, published in 'Medical and Veterinary Entomology' in 2000. A detailed view of this entry is shown in a pop-up window, providing full citation information and keywords.

Reference manager / Endnote support for bibliographies

Images

The screenshot displays the Scratchpad Sandbox website interface, which is a platform for sharing and managing digital content. The main page features a navigation menu with 'Home', 'Bibliography', 'Contact us', and 'Forums'. A sidebar on the left provides a 'Simple | Taxonomy' view with a search bar and a list of categories including Primates, Content, and Test. The central 'Library' section shows a grid of image thumbnails with labels such as 'Carnotaurus.jpg', 'Dromaeosaurus albertensis.jpg', 'Iguanodon skeleton.jpg', 'Iguanodon.jpg', and 'Replica Dinosaur - Diplotodus and Kentrosaurus.jpg'. An 'Upload images' dialog box is open in the foreground, showing a list of files with their file names and sizes, and a progress bar at the bottom. The files listed are: 'Replica Dinosaur - Diplotodus and Kentrosaurus.jpg' (334.8 KB), 'Iguanodon skeleton.jpg' (3439.4 KB), 'Iguanodon.jpg' (3032.6 KB), 'Carnotaurus.jpg' (3583.1 KB), and 'Dromaeosaurus albertensis.jpg' (1210.9 KB). The interface also includes a 'feedback' button on the right side.

Image galleries,
image upload &
annotation

Phylogeny

Create Phylogenetic tree | Scratchpad Sandbox

The Sandbox was last updated 15:41 (min:seconds) ago. You have approximately 44:13 (min:seconds) before the site is wiped.

Help | Bibliography | Contact us | Forum

Scratchpad Sandbox

Home | Create sandbox

Create Phylogenetic tree

A Simple Phylogeny

Newick or Newick data:

```

116 M_bornmagalenis,
117 M_spurialis,
118 M_pseuobuprestis,
119 M_rhacolata,
120 M_meliciana,
121 M_sarcacanthalis,
122 M_bachydonis,
123 M_pnyctis,
124 M_sethysis

```

Tree 119 = (1,0)110(96,0)(0)(7,17,0)(110((111,112),(113,114)))(103,101,112)(121,124,(121,121))103(11)(132,34,(36,37,38,39,40,41,42,43,44,45,46,47,48,49),(57,104,(104,105),(106,06,107))11(96,(77,78,119))103(114,08,01,116),(125,114,116,103))102,(09,(104,05,(04,05,06,07,08))107,090),091,094,095,096,097)(08,(09,090),(02,01))

Body:

A Simple Phylogeny | Scratchpad Sandbox

The Sandbox was last updated 18:37 (min:seconds) ago. You have approximately 41:23 (min:seconds) before the site is wiped.

Help | Bibliography | Contact us | Forum

Scratchpad Sandbox

Home

A Simple Phylogeny

View Edit Clone

Wed, 26/05/2009 - 09:02 - test

Primates

- MI Primates (14)
- MI Catarrhidae (4)
- MI Cebidae (7)
- MI Cercopithecoidea (18)
- MI Cheimapheridae (4)
- MI Daubentonidae (3)
- MI Galagidae (4)
- MI Haplorhina (6)
- MI Hylobatidae (1)
- MI Lemnidae (2)
- MI Lemuridae (4)
- MI Loridae (4)
- MI Mageritacidae (1)
- MI Proteclidae (4)

Content

- Admin
- Blog entry
- Character project
- Countlines map
- Forum topic
- Group
- Image
- Location (DWC 1.2.1)
- Newsletter issue
- Page
- Phylogenetic tree
- Profile
- Specimen (DWC 1.2.1)
- Taxonomy

test

- Administrator
- Group

Branch

Time

Add new comment | Delete post | Printer-friendly version

Nexus / Newick import for visualizing phylogenies

Character Matrices

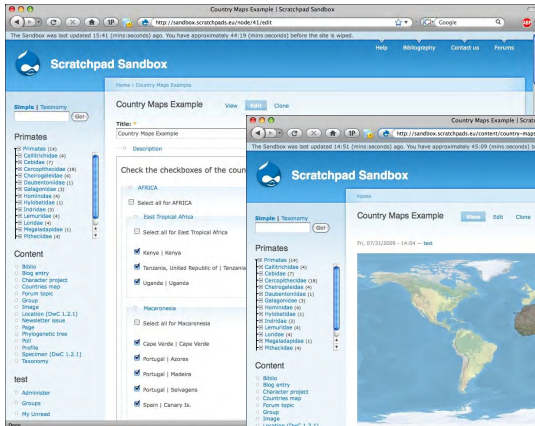
The screenshot displays the Scratchpad Sandbox web application. The main content area shows a 'Test Matrix' for 'Primates'. The table below is a character matrix with columns for 'head characters' (1, 2, 3) and 'Thoracic characters' (4, 5). Each cell contains a numerical value and a letter (A, B, C, T, Y, G).

	head characters			Thoracic characters		Add character
	1	2	3	4	5	
Primates						
Cebidae	1	1.2	A	Textual description 1	Edit text here...	
Alouatta	1	1.45	C	Textual description 2		
Alouatta belzebul (Linnaeus, 1766)	2	1.65	T	Textual description 3		
Red-handed howler monkey	2	1.22	T	Textual description 4		
Alouatta caraya (Humboldt, 1812)	2	1.55	T	Textual description 5		
Black howler monkey	2	1.89	G	Textual description 6		
Alouatta colombica Thomas, 1902	2	2.0	A	Textual description 7		
Coiba howler monkey	2	4.5	C	Textual description 8		
Alouatta fusca (É. Geoffroy Saint-Hilaire, 1812)	1	2.2	C			
Brown howler monkey	1	1.8	C			
Alouatta palliata (Gray, 1849)	1	1.9	C			

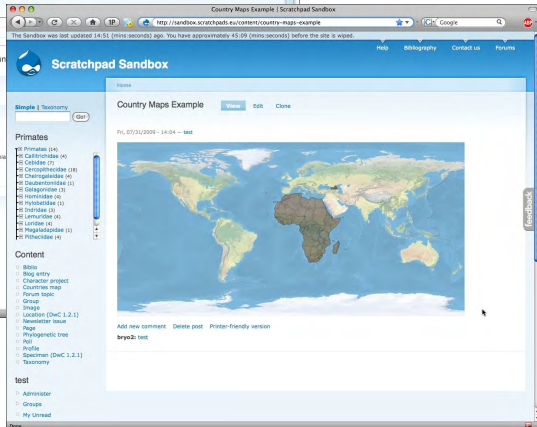
Below the table is an 'Edit character state' panel for 'Thorax2'. It contains a text input field with the placeholder 'Edit text here...' and a 'Save state' button. The panel also includes a 'filter taxa' input, 'Data editor', 'Select taxa', 'Export data', and 'Project settings' options.

Molecular & morphological character matrices
(discrete, morphometric and text characters)

Distribution Maps



Presence absence
country maps

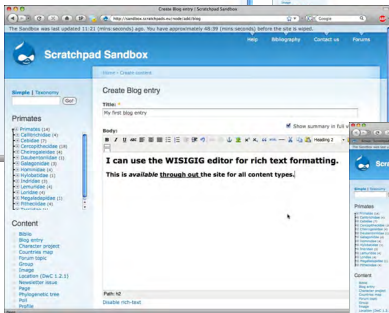
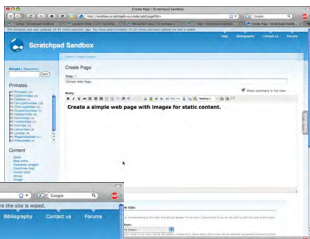
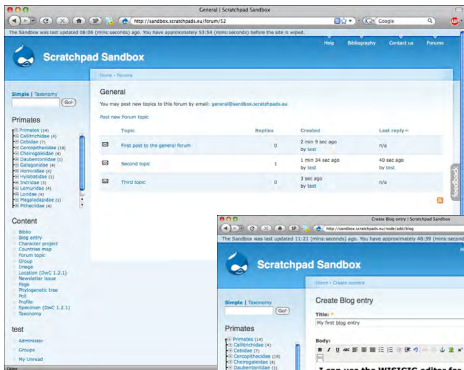


Specimens & locations

The image displays two overlapping browser windows from the Scratchpad Sandbox application. The top window is titled 'Create Specimen (DwC 1.2.1)' and shows a form with several sections: 'Required' (Taxonomy, Collection, Image), 'Basis of record' (a dropdown menu with options like 'Type', 'Image', 'Text', etc.), 'Catalogue number', 'Menu settings', and 'Menu link title'. The bottom window is titled 'Create Location (DwC 1.2.1)' and shows a form with fields for 'Location title', 'Locality', 'Location', 'Street', 'Additional', and 'Country'. A map of the United Kingdom is visible in the bottom right corner of the second window.

Specimen & location records (DwC)

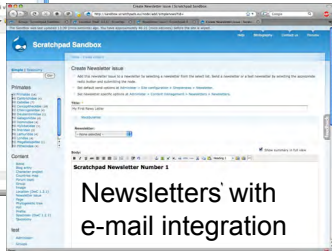
Pages, Forums, Blogs, Newsletters



Static web pages

Web fora with e-mail integration

User blogs



Newsletters' with e-mail integration

Mass Import

The image shows a two-step process for mass importing content into the Scratchpad Sandbox. The top screenshot displays the 'Import content' page (step 1 of 8), which includes instructions and buttons for navigating between steps. A yellow box highlights a warning: 'The Node import module is still in development. Check on the developers by writing documentation, reporting bugs (please read the issue submission instructions), and fund the development by donating some money.' The bottom screenshot shows 'step 2 of 8', 'Select file', where a file upload dialog is open. The dialog shows a file named 'DeText.txt' selected from the Desktop. The background interface remains the same as in the first screenshot, showing the 'Primates' and 'Content' content type lists.

Import from CSV text file to any content type

Multilingual Support

Scratchpad Sandbox

Home » Administrator » Advanced » Site configuration » Languages

Languages

List [Add language](#) [Configure](#)

Add all languages to be supported by your site. If your desired language is not available in the Language name drop-down, click Custom language and provide a language code and other details manually. When providing a language code manually, be sure to enter a standardized language code, since this code may be used by browsers to determine an appropriate display language.

Predefined language

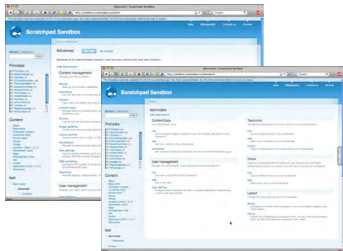
Language name:

- Abkhazian (аҧсшәа бзырә)
- Abkhazian (аҧсшәа бзырә)
- Afar
- Afrikaans
- Akan
- Albanian (Shqip)
- Amharic (አማርኛ)
- Arabic (العربية)
- Armenian (Հայերեն)
- Assamese
- Avar
- Avestan
- Aymara
- Azerbaijani (Azərbaycan)
- Bambara (Bamanankan)
- Bashkir
- Basque (Euskara)
- Belarusian (Беларуская)
- Bangali
- Brunei
- Bharti
- Bislama
- Bosnian (Bosanski)
- Breton
- Bulgarian (Български)
- Burmese
- Cambodian
- Catalan (Català)

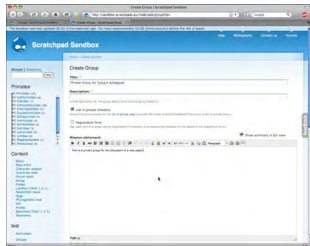
feedback

Create & switch between content in any language

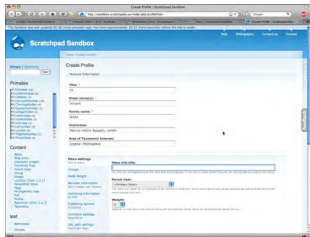
Administration



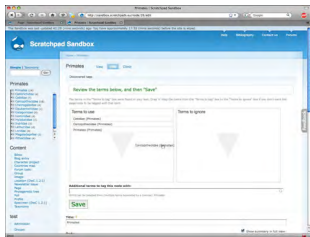
Simple & advanced admin.



Private Groups



Customized user profiles



AutoTag content
(automatically adds structure)

Taxon Pages

Integrating data & “publishing” in a Scratchpad

The screenshot shows a web browser window with the URL <http://phasmid-study-group.org/category/species/397>. The page title is "Carausius morosus | Phasmid Study Group". The website has a green header with navigation links: Home, Image Galleries, Forums, and Development Blog. The main content area is titled "Carausius morosus" and includes a "print this page" button. The page is divided into several sections:

- Phasmid Information:** A sidebar menu with links to Phasmids: An Introduction, World Phasmid Catalogue, Foodplants, Phasmid FAQs, UK Phasmids, Knowledge Base, Phasmid Publications, Phasmid Glossary, Contact Us, and Links.
- PSG Information:** A sidebar menu with links to History of the PSG, How to Join the PSG, PSG Culture List, Forthcoming Events, and PSG News.
- Create Content:** A sidebar menu with links to Biblio, Blog entry, Book, Culture List Species, Fishere, and Fossilifer page.
- Phasmid Taxonomy:** A tree view showing the classification of Carausius morosus: Orthopteroidea (3) > Phasmida (10) > Diapheromeridae (5) > Lonchodinae (13) > Carausius (6) > Carausius morosus.
- How to navigate:** A text box explaining how to use the taxonomy tree to navigate the website.
- Images:** A grid of six images showing different views of the insect Carausius morosus.
- Vernacular Names:** A section listing "Indian Stick Insect" and "Laboratory Stick Insect".
- PSG Culture List Record:** A table with columns for PSG#, Locality, and Reproduction. The record for Carausius morosus shows a locality of "India".
- Bibliography:** A list of references, including "1907 Brunner Die Insektenfamilie von der Phasmoden, II. Walter de Gruyter, Berlin.".

This screenshot shows a different view of the Phasmid Study Group website, likely a mobile or tablet version. It features a green header with the "Phasmid Study Group" logo and navigation links. The main content area is titled "Carausius morosus" and includes a "print this page" button. The page is divided into several sections:

- Phasmid Information:** A sidebar menu with links to Phasmids: An Introduction, World Phasmid Catalogue, Foodplants, Phasmid FAQs, UK Phasmids, Knowledge Base, Phasmid Publications, Phasmid Glossary, Contact Us, and Links.
- PSG Information:** A sidebar menu with links to History of the PSG, How to Join the PSG, PSG Culture List, Forthcoming Events, and PSG News.
- Create Content:** A sidebar menu with links to Biblio, Blog entry, Book, Culture List Species, Fishere, and Fossilifer page.
- Phasmid Taxonomy:** A tree view showing the classification of Carausius morosus: Orthopteroidea (3) > Phasmida (10) > Diapheromeridae (5) > Lonchodinae (13) > Carausius (6) > Carausius morosus.
- How to navigate:** A text box explaining how to use the taxonomy tree to navigate the website.
- Images:** A grid of six images showing different views of the insect Carausius morosus.
- Vernacular Names:** A section listing "Indian Stick Insect" and "Laboratory Stick Insect".
- PSG Culture List Record:** A table with columns for PSG#, Locality, and Reproduction. The record for Carausius morosus shows a locality of "India".
- Bibliography:** A list of references, including "1907 Brunner Die Insektenfamilie von der Phasmoden, II. Walter de Gruyter, Berlin.".

Dynamically built species pages

Taxon Pages

Integrating data & “publishing” in a Scratchpad

Phasmid Study Group

Carausius morosus

Phasmid Taxonomy

- Orthopteroidea (3)
- Phasmida (10)
- Diapheromeridae (5)
- Lonchodinae (13)
- Carausius (10)
- Carausius morosus

Phasmid Information

Phasmid Taxonomy

How to navigate

PSG Information

Create Content

PSG Culture List Record

Bibliography

Phasmid Study Group

Carausius morosus

Phasmid Information

PSG Culture List Record

Bibliography

Map

Why write

Secondary Heritage Library

PSG News

Authors records

Browsed through a taxonomy

Taxon Pages

Integrating data & “publishing” in a Scratchpad

flickr

YAHOO!

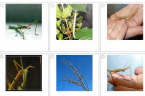


Google Scholar


Biodiversity Heritage Library



Web Images



GBIF Map



Wikipedia

Carausius morosus (the 'common', 'Indian' or 'laboratory' stick insect) is a species of phasmid that is often kept by schools and individuals as pets. Culture stocks originate from an original collection from Tamil Nadu, India. Like the majority of the phasmatodea, they are nocturnal. Culture stocks are parthenogenetic females that can reproduce without mating. There are no reports of males, although in captivity gynandromorphs (individuals with both female and male characteristics) are sometimes reared.

Google scholar

The function of the legs in the free walking stick insect, *Carausius morosus*

The control of the anterior extreme position of the hindleg of a walking insect, *Carausius morosus*

Sensory control of leg movement in the stick insect *Carausius morosus*

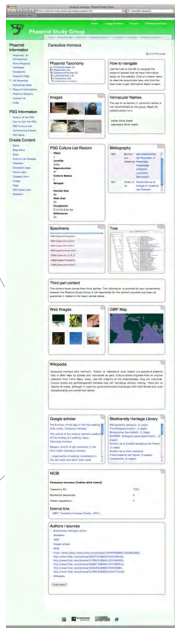
organisation of walking movements in the 1st instar and adult stick insect.

Biodiversity Heritage Library

Bibliographia zoologica. (1 page)
The Biological bulletin. (1 page)
Biologisches Zentralblatt. (1 page)
BIOSPEX, Biological space experiments : (3 pages)
Bulletin de la Société zoologique de France. (1 page)
Bulletin de la Socit nationale d'acclimatation de France. (3 pages)
Carotenoids, (2 pages)

NCBI

Including 3rd party content



Taxon Pages

Adjusting the layout

Admin | Phasmid Study Group

Home | Image Galleries | Forums | Development Blog

Phasmid Study Group

Home > Administrator > Panels > Panel pages

%term Preview Layout Settings Layout settings Advanced Context Context Export

Grab the title bar of any pane to drag-and-drop it into another panel. Click the add pane button (+) in any panel to add more content. Click the configure (C) button on any pane to re-configure that pane. Click the cache (C) button to configure caching for that pane specifically. Click the show/hide (S/H) toggle button to show or hide that pane. Panes hidden in this way will be hidden from everyone until the hidden status is toggled off.

Hide all Show all Cache settings

Top

Tinytax Block for Phasmid Taxonomy

Tinytax Block for Phasmid Taxonomy

Flow 1, Column 2

Custom (How to navigate)

Custom (How to navigate)

Left

Images

Images

Right

Vernacular Names

Vernacular Names

Center

Left

PSG Culture List Record

PSG Culture List Record

Right

Bibliography

Bibliography

Left

Substrata

Specimens

Right

Tree

Tree

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Vernacular Names

Vernacular Names

Center

Left

PSG Culture List Record

PSG Culture List Record

Right

Bibliography

Bibliography

Left

Substrata

Specimens

Right

Tree

Tree

Control what to display

n.b. Taxon page tools have since been updated

Available Panels for Taxon Pages

Internal Data

- Specimens
- Images
- Bibliographic refs
- Blogs

External Data

- References from Biodiversity Heritage Library, Google Scholar
- Images from MorphBank, Flickr, Yahoo
- GBIF Maps
- More

Go!

Taxonomy

- Animalia (1)
- Arthropoda (3)
- Insecta (28)
- Hymenoptera (104)
- Formicidae (1)
- Wasmannia (1)
- Wasmannia auropunctata

Who's online

There are currently 1 user and 3 guests online.

Online users

- Aubrey Moore



Content

- biblio
- Biography
- Blog entry
- Character project
- Countries map
- Forum topic
- Group
- Hypolimnus octocula marianensis sighting

Wasmannia auropunctata

Flickr Images

Sort -- |



Yahoo! Images

Sort -- |

We have no content for this dynamic view

Biodiversity Heritage Library

Sort -- |

- American fern journal. (4 pages)
- Annales de la Société entomologique de Belgique. (1 page)
- Annales de la Société entomologique de France. (1 page)
- Annals of the Missouri Botanical Garden (1 page)
- Archiv für Naturgeschichte. (2 pages)
- Archiv für Naturgeschichte. (1 page)
- Biologia Centrali-Americana : (1 page)
- Biologia Centrali-Americana; (1 page)
- Bulletin - American Museum of Natural History. (2 pages)
- Bulletin of miscellaneous information / (1 page)
- Bulletin of the Museum of Comparative Zoology at Harvard College. (2 pages)
- Bulletin of the U.S. Department of Agriculture. (3 pages)

Google Scholar

Sort -- |

- Changes in the native fauna of the Galapagos Islands following invasion by the little red fire ant, *Wasmannia auropunctata*
- The tramp ant *Wasmannia auropunctata*: autecology and effects on ant diversity and distribution on Santa Cruz Island, Galapagos

Likes & Dislikes

- The Scratchpad template was not specifically designed as a collections database management system (DBMS)
- Missing features: label printer, loans forms, etc.
- Useful features not commonly found in collections DBMS:
 - Blogs and forums (for incidental observations, special projects)
 - Group pages with restricted access (bed bug reports, rare butterfly sightings)

Likes

- Free hosting, backups, development
- No installation: all interaction via web browser
- Open source will allow me the option of "rolling my own" site if I choose to
- Display of images at variable resolutions is good
- Darwin Core data standards used for specimens and locations
- Automatic discovery of associated data on the web via "Taxon Pages"

Dislikes

- Batch import of data is extremely slow
- Having problems merging imported data with existing data when importing taxonomic hierarchies
- No direct access to underlying MySQL database for ad hoc queries using SQL
 - Note: the Drupal Views Module can be used to do almost anything with the data, if you know how to use it

Dislikes



Scrachpads: the name is lame

Acknowledgments

Many thanks to the Natural History Museum and the Scratchpad Developers:

- Simon Rycroft
- Vince Smith
- Irina Brake

Links to More Info

- Scratchpads: a data-publishing framework to build, share and manage information on the diversity of life. BMC Bioinformatics 2009 10(Suppl. 14). [PDF](#)
- Streamlining taxonomic publication: a working example with Scratchpads and ZooKeys. ZooKeys 2010 (50) 17-28. [PDF](#)
- [Scratchpads Sand Box](#)