

# Pre-digitization Curation

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Disclaimer

# Overview

- Phase 1: Collection specific priorities/ goals
- Phase 2: Getting started: Taxon authority file generation and validation
- Phase 3: Physical recuration
- Phase 4: Arranging/Barcoding
- Phase 5: Photography and Digitization
  - (another presentation for another time)

# Phase 1 – collection specific priorities






# Phase 2 – Taxon Authority files

Xylocopinae	Ceratinini	Ceratina	<del>Hirashima</del>	lativentris	Fr. Friese, 1905	Afr	
Xylocopinae	Ceratinini	Ceratina	<del>Colloceratina</del>	laeta	Spinola, 1841	Neo	= <u>chloris</u> (Illiger, 1806)
Xylocopinae	<del>Ceratinini</del>	Ceratina	<del>Exoneuridia</del>	libanensis	Fr. Friese, 1899	Afr	
Xylocopinae	Ceratinini	Ceratina	<del>Ctenoceratina</del>	littoralis	Cockerell, 1937	Afr	Allodapini ← check that this is what is in units!!
Xylocopinae	Ceratinini	Ceratina	<del>Exoceratina</del>	<del>minahadsomiae</del>	?? ask Mich?	Neo	= <u>lineola</u> Vachal, 1903
Xylocopinae	Ceratinini	Ceratina	<del>Copoceratina</del>	<del>medecaea</del> <u>madecossa</u>	Friese, 1900	Afr	
Xylocopinae	Ceratinini	Ceratina	<del>Simioceratina</del>	mutescens	Cockerell, 1937	Afr	= <u>tanganyicensis</u> Strand, 1911
Xylocopinae	Ceratinini	Ceratina	<del>Copoceratina</del>	minuta	Friese, 1905	Afr	
Xylocopinae	Ceratinini	Ceratina	<del>Pithitis</del>	nasalis	Fr. Friese, 1905	Afr	
Xylocopinae	Ceratinini	Ceratina	<del>Hirashima</del>	nigriceps	Fr. Friese, 1905	Afr	
Xylocopinae	Ceratinini	Ceratina	<del>Ceratina</del>	perpolita	Cockerell, 1937	Afr	
Xylocopinae	Ceratinini	Ceratina	<del>Ceratina</del>	pondoensis	Cockerell, 1937	Afr	= <u>oliceae</u> Cockerell, 1937
Xylocopinae	Ceratinini	Ceratina	<del>ceratinula Ceratina</del>	rectangulifera	Schwartz	Neo	2 - Schwarz & Michener, 1954
Xylocopinae	Ceratinini	Ceratina		<del>ruwenzotira</del> <u>ruwenzorica</u>	Cockerell, 1937	Afr	
Xylocopinae	Ceratinini	Ceratina		senegalensis	Strand, 1912	Afr	
Xylocopinae	Ceratinini	Ceratina		speculifrons	Cockerell, 1920	Afr	
Xylocopinae	Ceratinini	Ceratina		spilota	Cockerell, 1932	Afr	
Xylocopinae	Ceratinini	Ceratina	<del>Dalgotina</del>	truncata	Fr. Friese, 1905	Afr	
Xylocopinae	Ceratinini	<del>Ctenoptera</del> Ceratina		polita	Strand Friese, 1902	Afr	
Xylocopinae	Ceratinini	<del>Ctenoceratina</del> Hirashima	<del>Hirashima</del>	n. sp. nr. nyassensis	(Strand)	Afr	Hirashima
Xylocopinae	Ceratinini	<del>Ctenoceratina</del> Hirashima	<del>Hirashima</del>	nyassensis	(Strand) Strand, 1912	Afr	← m... not n
Xylocopinae	Ceratinini	<del>Ctenoceratina</del> Hirashima	<del>Hirashima</del>	penicillata	Friese, 1905	Afr	Ctenoceratina
Xylocopinae	Ceratinini	<del>Ctenoceratina</del> Hirashima	<del>Ctenoceratina</del>	penicilligera	Strand, 1912	Afr	
Xylocopinae	Ceratinini	<del>Ctenoceratina</del> Hirashima	<del>Hirashima</del>	tanganyicensis	Smith Strand, 1911	Afr	Simioceratina
Xylocopinae	Ceratinini	<del>Ctenoceratina</del> Hirashima	<del>Hirashima</del>	spp.		Afr	
Xylocopinae	Ceratinini	<del>Ctenoceratina</del> Euceratina		cyanea	(Kirby, 1802)	Pal	
Xylocopinae	Ceratinini	Ceratina	<del>Pithitis</del>	viridior	Cockerell, 1937	Afr	= <u>nasalis</u> Friese, 1905
Xylocopinae	Ceratinini	Ceratina	<del>Ceratinula</del>	zeteki	Cockerell, 1934	Neo	
Xylocopinae	Ceratinini	Ceratina	<del>Zodontomerus</del>	dupla	Say, 1837	Neo	
Xylocopinae	Ceratinini	Ceratina	<del>Pithitis</del>	viridis	Guérin-Ménéville, 1844	Afr	
Xylocopinae	Ceratinini	Ceratina		spp.		Afr	
Xylocopinae	Ceratinini	<del>Megaceratina</del> Mesoceratina		sculpturata	(Smith) Smith, 1858	Afr	
Xylocopinae	Ceratinini	<del>Pithitis</del>	<del>Pithitis</del>	binghami	(Cockerell)	Ori	Cockerell, 1908
Xylocopinae	Ceratinini	<del>Pithitis</del>	<del>Pithitis</del>	comberi	(Cockerell)	Ori	Cockerell, 1911
Xylocopinae	Ceratinini	<del>Pithitis</del>	<del>Pithitis</del>	indica	Hirashima	Ori	1 10 6830 (Hirashima, 1969)
Xylocopinae	Ceratinini	<del>Pithitis</del>	<del>Pithitis</del>	palmeri	?? ask Mich? (Cameron)	Ori	
Xylocopinae	Ceratinini	<del>Pithitis</del>	<del>Pithitis</del>	sexmaculata	(Smith) Smith, 1879	Ori	
Xylocopinae	Ceratinini	<del>Pithitis</del>	<del>Pithitis</del>	smaragdula	(Fabricius, 1787)	Pal	
Xylocopinae	Ceratinini	<del>Pithitis</del>	<del>Pithitis</del>	unimaculata	(Smith)	Ori	Smith 1879




# Phase 2 – Taxon Authority files




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## ITIS

Integrated Taxonomic Information System

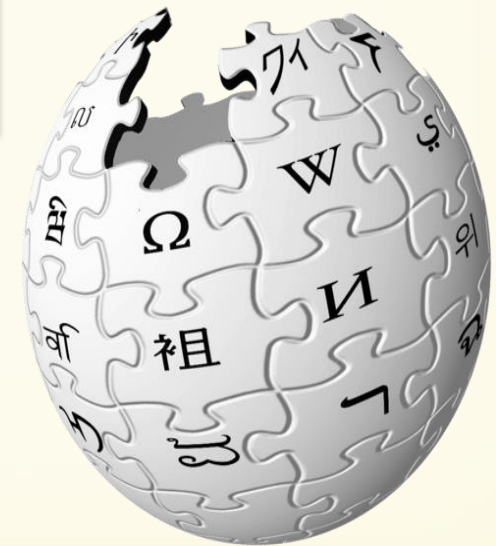


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## WIKIPEDIA

*The Free Encyclopedia*

# Phase 2 – Taxon Authority files



Snodgrass, Robert E., and Hungerford, H. B.,  
X International Congress of Entomology,  
Montreal, August 1956

# Phase 3 – physical recuration

Label Gizmo 4.4

**Tray**  
 **Determination**  
 **Drawer**

**Full Size**  
 8-lines max.Font=12  
 **Half Size**  
 8-lines max.Font=12

Lock Label Settings  
  
 #  Type   
  
 View Sheet:

Genus (Subgenus) **Braunsapis**  
 species subspecies **kaliago**  
 Authority Reyes & Sakagami, 1990  
 --custom text-- Type #: 8407 see type coll.  
 --blank--  
 --blank--  
 --blank--  
 --blank--

Tray Label Help:  
 Select one or more Cells in the same row.  
 That selection will be used to create the label.

Braunsapis	calidula	(Cockerell, 1908)				4	8403
Braunsapis							
Braunsapis						2	8421
Braunsapis						2	8414
Braunsapis						66	6696
Braunsapis						2	8412
Braunsapis						3	8413
Braunsapis						3	8405
Braunsapis							6804
Braunsapis	newitti	(Cameron, 1900)					
Braunsapis	hirsuta	Reyes, 1993			Aus	2	8415
Braunsapis	hyalina	Reyes, 1993			Aus	4	8422
Braunsapis	indica	Reyes, 1991			Ori	1	8406
Braunsapis	kaliago	Reyes & Sakagami, 1990			Ori	1	8407
Braunsapis	lateralis	Reyes, 1991			Ori	1	8409





# Collection specific goal: SEMC 1° type collection



# collection specific goal:

Incorporation of and/or retroactive capture of ancillary collections





# Phase 4 – Arranging and Barcoding



Within each species, specimens are arranged by collecting event:

- ❖ Collector
- ❖ Date
- ❖ Locality
- ❖ Elevation, host plant, habitat data...
- ❖ Then barcodes are attached in that order.



BR.MichenerMoure1955.01.12 001



# Phase 4 – Arranging and Barcoding

四川峨嵋山护國寺  
550—750 公尺  
中國科学院  
极春靴(国)  
1964.V.21  
采集者:吴燕如

6.11.63  
Polonia m.  
Babia Góra  
Sokolice  
leg. Dylewska  
12024  
Vaccinium  
myrtillus

Liouassal  
V. 35

Chomley  
Froggatt.  
4/11/893.

Maria Madre I.  
Arroyo Hondo  
May 17, 1925  
Tres Marias  
Islands  
G. D. Hanna  
Collector

MOLUCCAS  
Morotai.  
[1860(?)].  
C. Allen ]  
ex Stevens

MALAYA  
Selangor F.M.S.  
Gombak Valley.  
Dec: 26<sup>th</sup> 1930.  
H.M. Pendlebury.  
F. M. S.  
Museum s.

Eelov, Cal  
Mar. 22, '32  
C. M. Dargaves  
Coll.

# Finally, we're ready to digitize!



# Finally, we're ready to digitize!

The screenshot displays the Specify 6.4.08 software interface. The main window is titled "Specify 6.4.08" and features a menu bar with "File", "Edit", "Data", "System", "Tabs", and "Help". Below the menu bar is a toolbar with icons for "Welcome", "Data", "Trees", "Reports", "Interactions", "Statistics", "Query", "Workbench", "SGR", and "Lifemapper". A search bar is located in the top right corner.

The central area of the interface is a hierarchical tree view with the following columns: Planet, Continent, Country, 1° Division, and 2° Division. The tree structure is as follows:

- Planet: Earth
  - Continent: Afrotropical
  - Continent: Australian
  - Continent: Nearctic
  - Continent: Neotropical
  - Continent: Oriental
  - Continent: Pacific
  - Continent: Palearctic
    - Country: Afghanistan
    - Country: Algeria
    - Country: Armenia
    - Country: Austria
    - Country: Azerbaijan
    - Country: Belgium
    - Country: Bosnia and Herze...
    - Country: Bulgaria
    - Country: Croatia
    - Country: Cyprus
    - Country: Czech Republic
      - 1° Division: Central Bohemian Region (67, 349)
        - 2° Division: Beroun (2)
        - 2° Division: Dejvice (40)
        - 2° Division: Kolin (3)
        - 2° Division: Prague-East (252)
        - 2° Division: Prague-West (21)
        - 2° Division: Pribram (30)
        - 2° Division: Rakovnik (1)
      - 1° Division: Hradec Kralove Region (2, 131)
      - 1° Division: Moravia (1)
      - 1° Division: Moravian-Silesian Region (0, 2)
      - 1° Division: Olomouc Region (0, 4)
      - 1° Division: Pardubice Region (0, 22)
      - 1° Division: Prague [City] (320)
      - 1° Division: South Bohemian Region (2, 1)
      - 1° Division: South Moravian Region (67, 41)
      - 1° Division: Usti nad Labem Region (0, 3)
      - 1° Division: Zlin Region (1, 3)
    - Country: Denmark
    - Country: Egypt
    - Country: Finland

The bottom of the interface includes a "Find:" search bar with a "Find" button, a "Next" button, and a checked "Exact" checkbox. The taskbar at the bottom shows several open applications: "Welcome", "Workbench", "Cmaier Locality Query", "Collecting Information", "Locality", and "Geography".