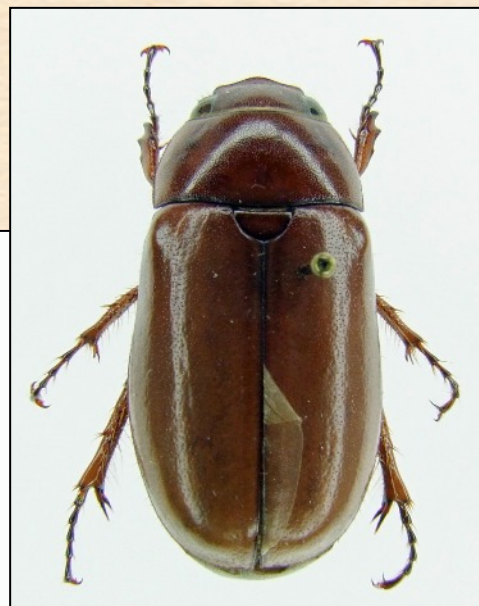
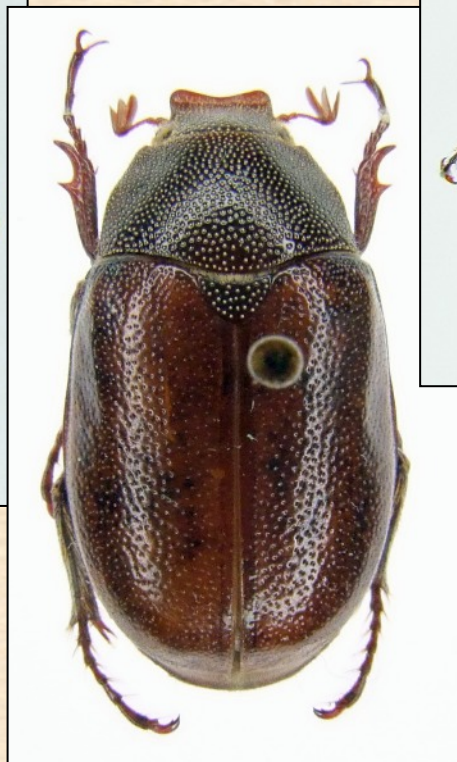


**ATLAS
DES MELOLONTHIDAE
DE LA REGION MALGACHE**



L'auteur :

Attaché honoraire du Muséum national d'Histoire naturelle, **Marc Lacroix** est un entomologiste amateur qui s'est spécialisé dans les Scarabaeoidea Melolonthidae, et plus particulièrement dans les faunes africaine et malgache. Auteur de nombreux articles sur les Melolonthinae et Pachydeminae de ces régions, ses études lui ont permis de réaliser deux ouvrages majeurs de la « Faune de Madagascar » : **Coléoptères Melolonthidae** (en deux parties, 1989 et 1993, 875 pages) et **Coléoptères Hopliidae** (en deux parties, 1997 et 1998, 755 pages). Il est aussi l'auteur d'un **Genera et Catalogue des Pachydeminae du Monde** paru en 2007 (714 pages et 2400 figures) et d'un **Genera et Catalogue des Melolonthinae afrotropicaux** paru en 2010 (277 pages et 192 planches). Ces différents travaux lui ont permis de décrire 98 nouveaux genres et 352 nouvelles espèces.

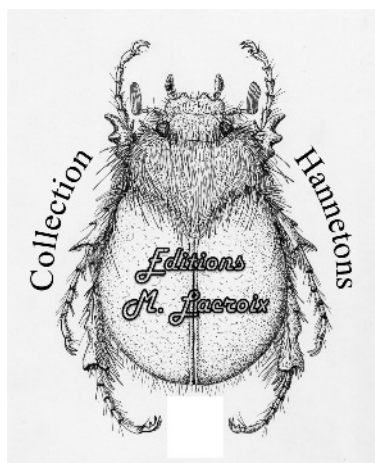
Collection Hannetons

Première publication en novembre 2014 par :

Editions Marc Lacroix

4c rue Danièle Casanova
26100 Romans sur Isère
France

e-mail : hannetons@free.fr
<http://hannetons.free.fr>



Hannetons est indexé et résumé dans le *Zoological Record*.

Copyright : © 2014, Hannetons. Tous droits de traduction et d'adaptation réservés pour tous pays.

Cette étude peut être téléchargée gratuitement au format PDF, diffusée et dupliquée dans son format d'origine à titre personnel mais ne peut faire l'objet d'une utilisation partielle de son contenu, textes et figures, sur d'autres supports.

This is an open access book which means that all content is freely available without charge to the user or his/her institution. Users are allowed to read, download, copy, distribute, print, search, or link to the full texts of the articles in this book without asking prior permission from the publisher or the author. This is in accordance with the BOAI definition of open access.

Version numérique en ligne sur :
<http://hannetons.free.fr>

ISBN : 978-2-9529275-4-3

Volume 5 dans la collection « Hannetons »

Distribué le 3 novembre 2014

Atlas des Melolonthidae de la région malgache (Coleoptera, Scarabaeoidea)

par

Marc Lacroix

4c rue Danièle Casanova – 26100 Romans sur Isère – France

hannetons@free.fr

urn:lsid:zoobank.org:author:F334E7F6-154B-43A8-9788-00608C58DE84

Cet atlas est le complément iconographique du Catalogue des Melolonthidae de la région malgache. Il inclut des photos d'habitats des principales espèces décrites. Les espèces les plus rares ou non différenciables sur photo ne sont pas incorporées.

Des cartes précisent la répartition de toutes les espèces présentes dans la région.

Les photos sont prises d'après des exemplaires des collections Marc Lacroix et du MNHN, Paris. Il a été effectué un minimum de retouches sur Photoshop afin de garder l'identité du spécimen photographié.

Les photos référencées MNHN et reproduisant des types sont issues de la base de données des types conservés au MNHN, Paris et consultables sur internet. Elles peuvent être utilisées librement si on mentionne leur origine et si leur diffusion est faite gratuitement, sans utilisation commerciale.

copyright : A. Mantilleri, MNHN.

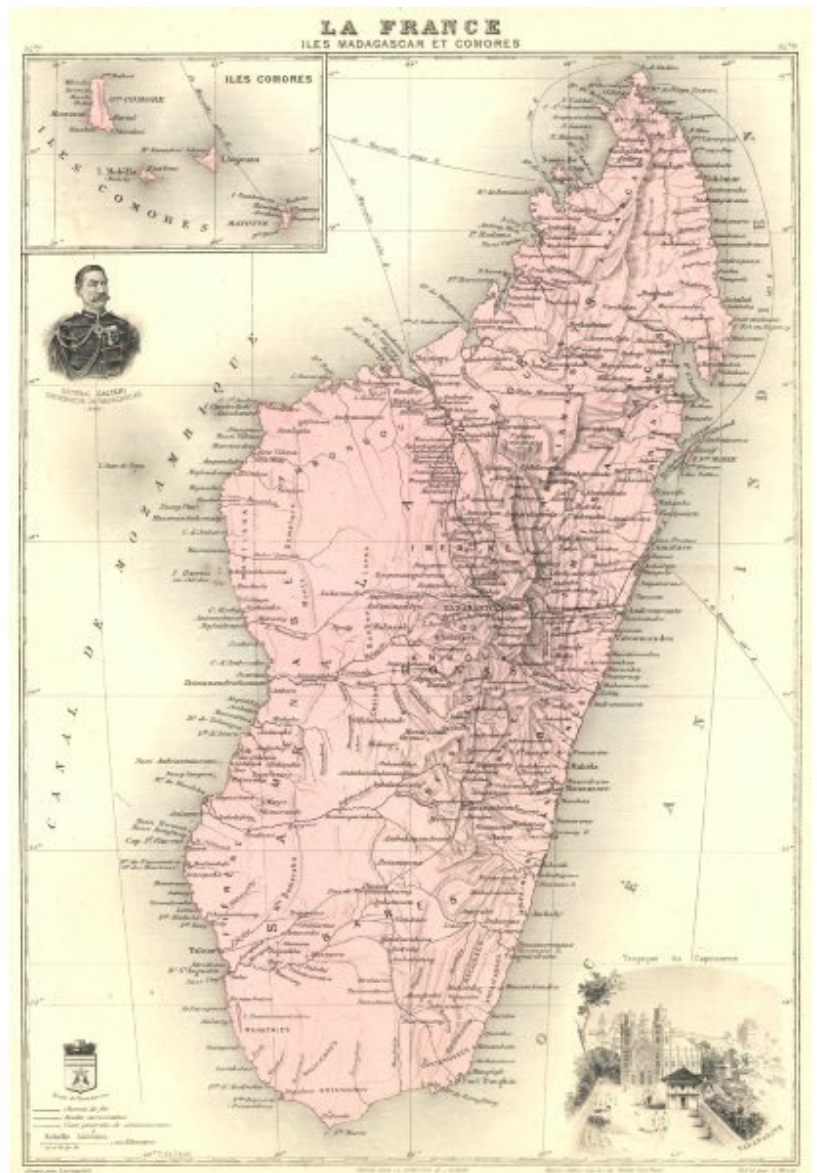
Collection/Insectes/Coléoptères (EC) -
spécimen

<http://colddb.mnhn.fr/>

Avec les plus vifs remerciements de
l'auteur pour cette collaboration.






La faune des Melolonthinae de la région malgache s'élève actuellement à 258 espèces réparties comme suit : 41 Diplo-taxini, 1 Schizonychini (douteux), 164 Enariini, 35 Rhizotrogini et 17 Leucopholini.

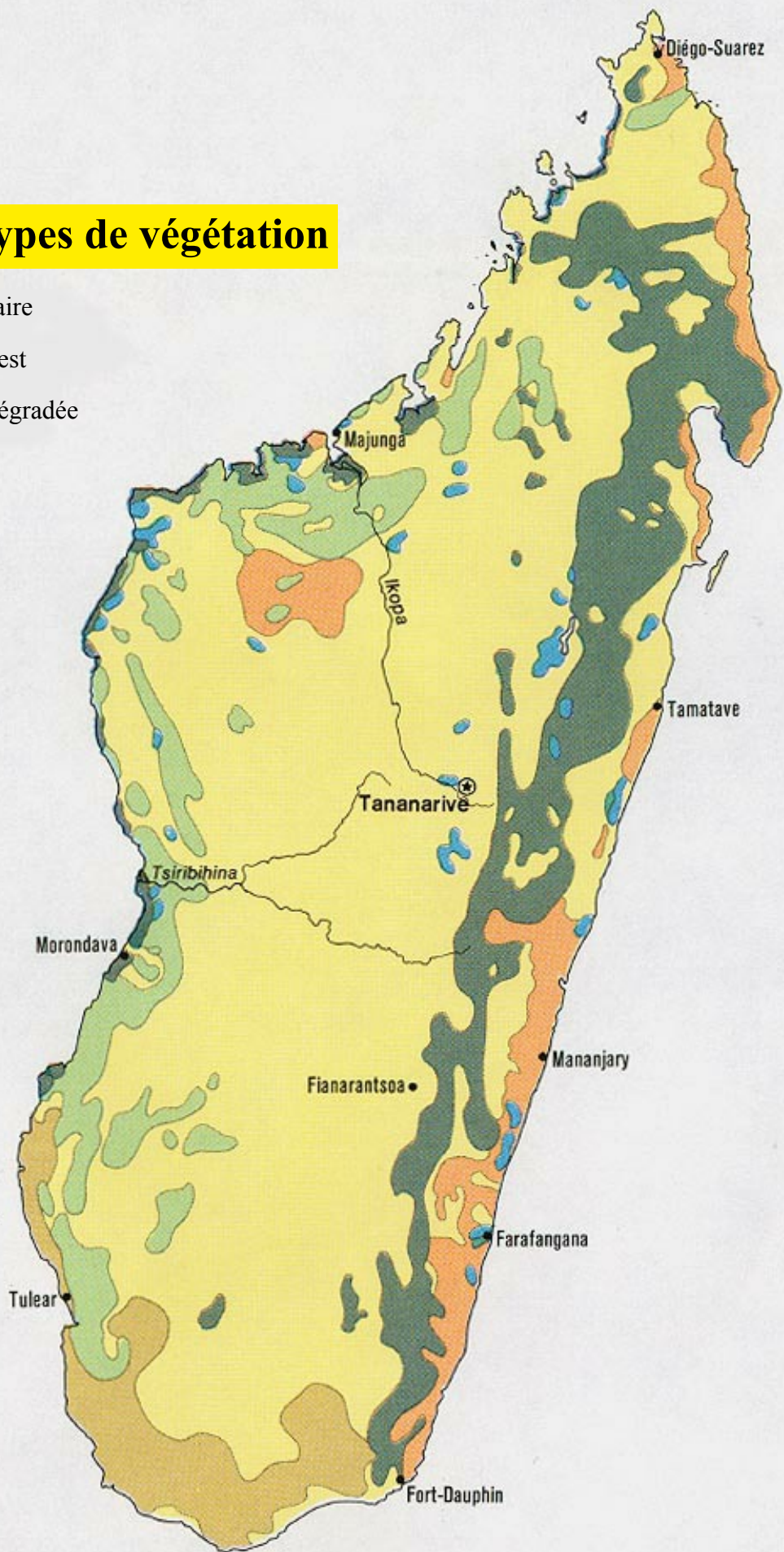
Ce nombre représente 6% de la faune mondiale (4079 espèces). La faune malgache est particulièrement riche et diversifiée par rapport aux pays les plus proches, ceux de la région afrotropicale qui pour des superficies souvent égales n'offrent pas cette richesse faunistique.



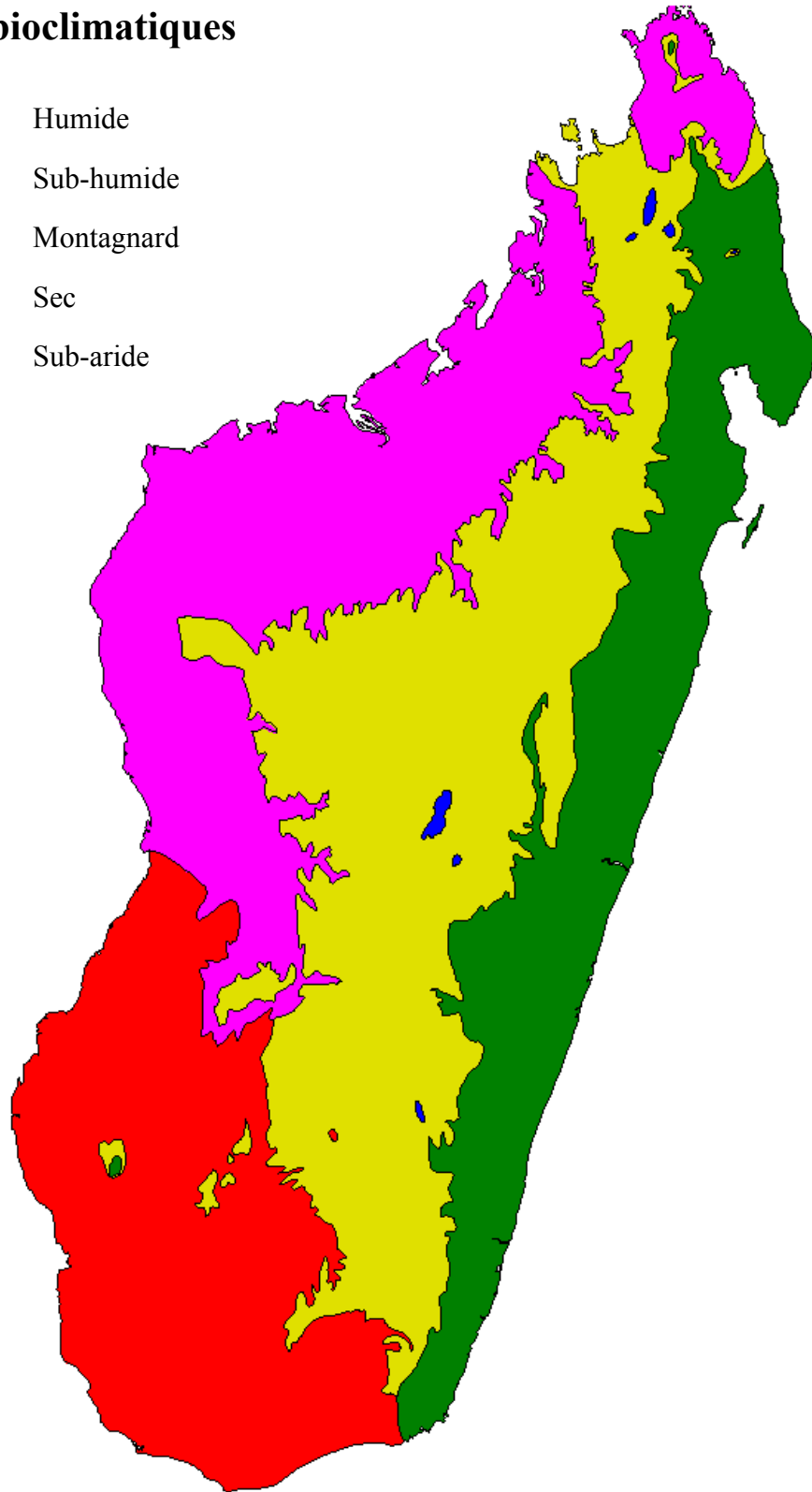
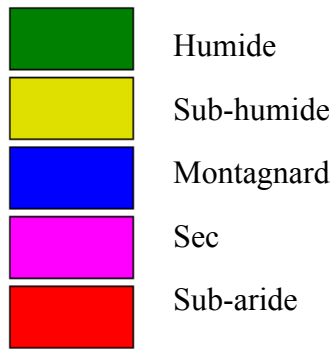
Madagascar en 1903

Principaux types de végétation

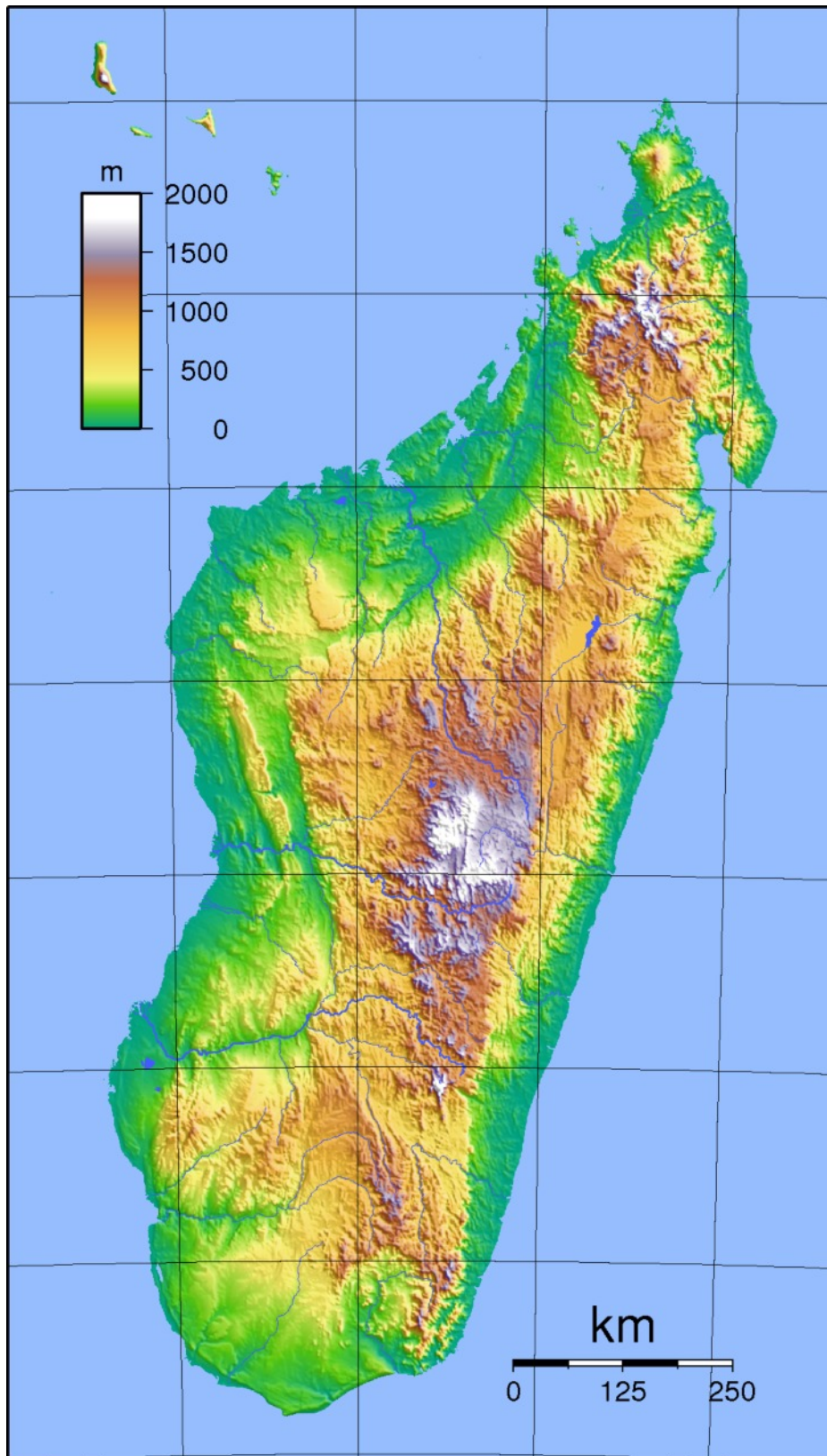
-  Forêt humide primaire
-  Forêt sèche de l'ouest
-  Forêt secondaire, dégradée
-  Savane
-  Marais, marécages
-  Bush - Fourré



Zones bioclimatiques



Melolonthidae région malgache

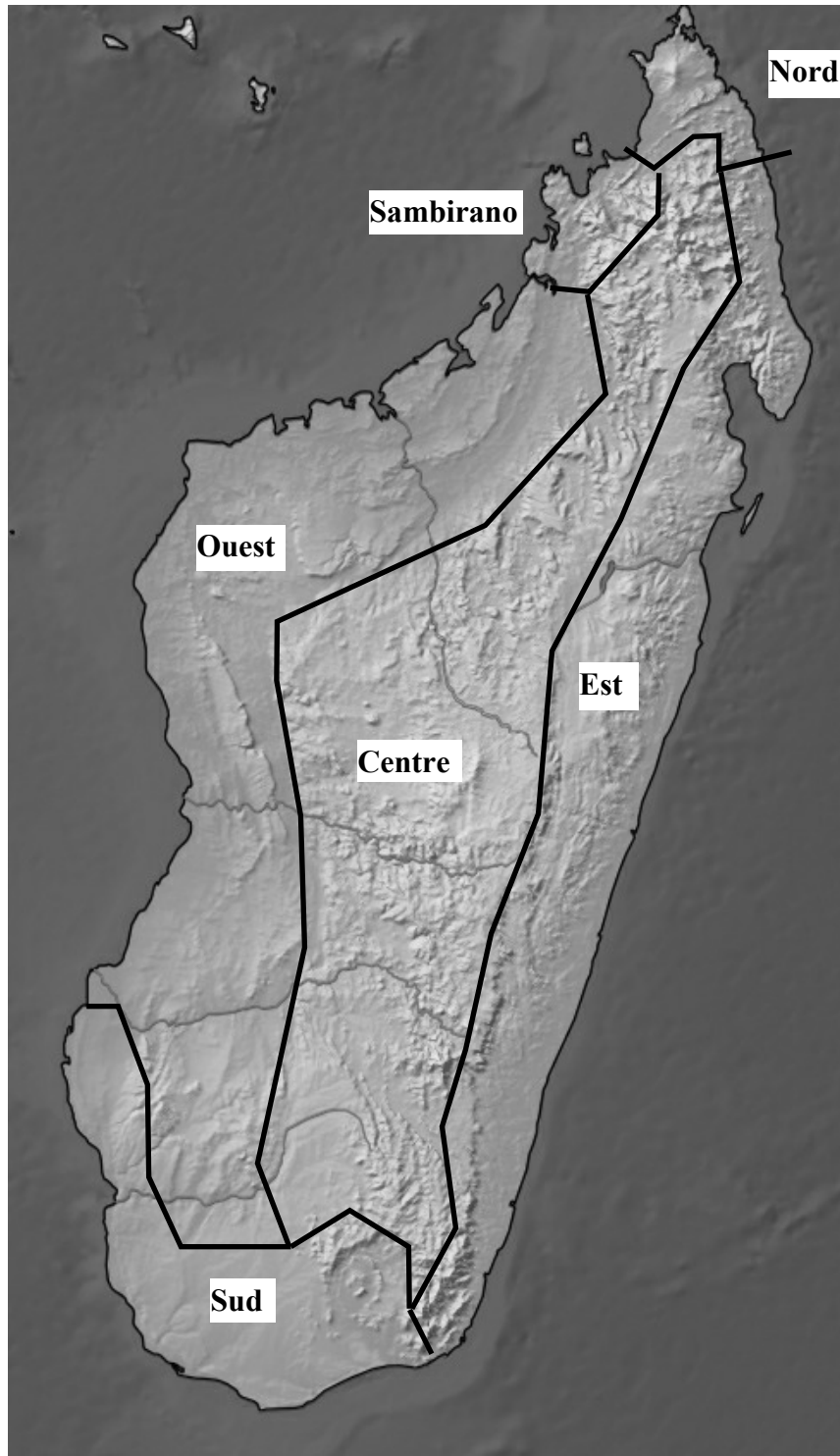


Carte indiquant le relief de la Grande Ile

Melolonthidae région malgache



Melolonthidae région malgache



Domaines biogéographiques de Madagascar



Empecta vadoni



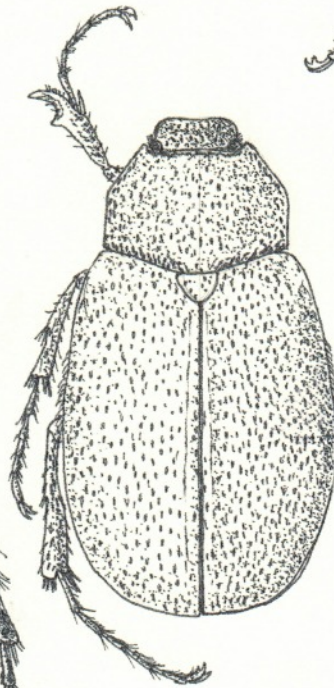
Empecta cuprea



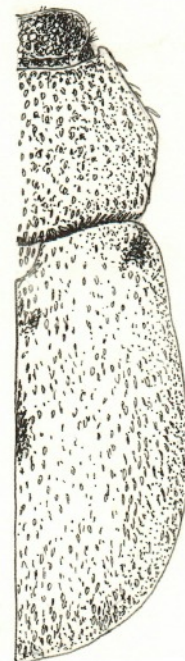
Empecta inaequalis



Empecta densevestita



Empecta scutata



Empecta dewaillyi

LES DIPLLOTAXINI

Melolonthidae région malgache



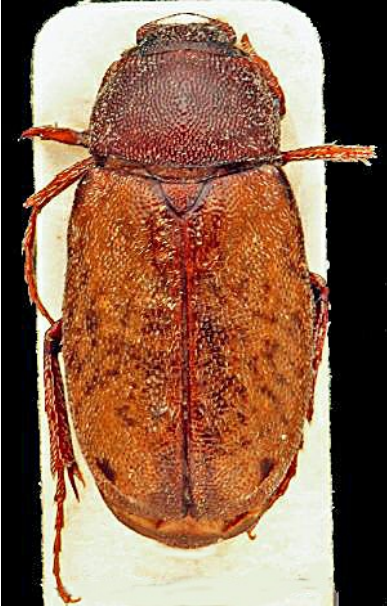
Empectoides drouhardi Dewailly
Holotype, MNHN, 8 mm



Empectoides pygipunctis Dewailly
Holotype, MNHN, 7 mm



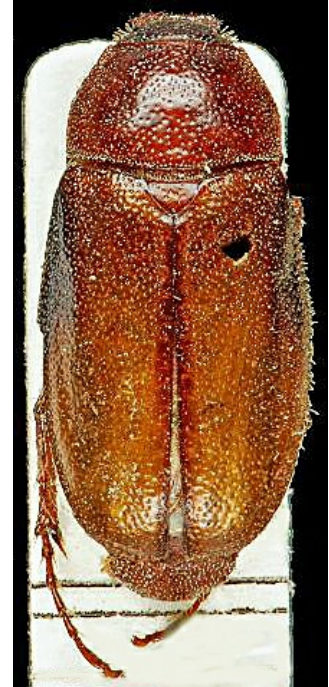
Clypeasta pruinosa (Fairmaire)
Lectotype, MNHN, 10 mm



Clypeasta rufescens Dewailly
Holotype, MNHN, 9 mm



Clypeasta vadoni Dewailly
Holotype, MNHN, 8,5 mm



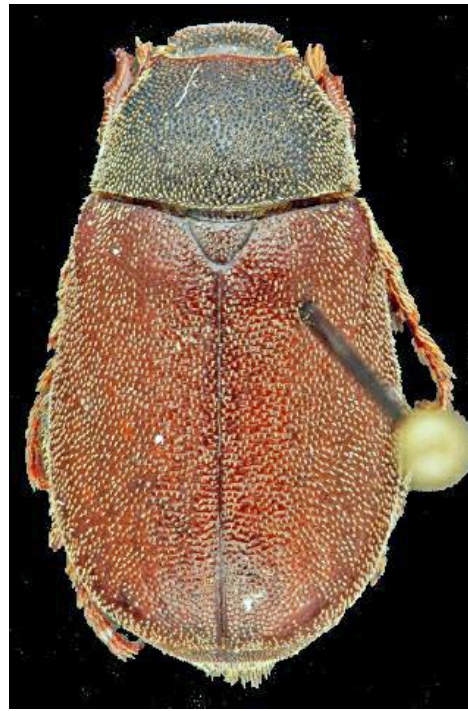
Clypeasta adusta (Fairmaire)
Lectotype, MNHN, 11 mm

Empectoides Dewailly et *Clypeasta* Fairmaire

Melolonthidae région malgache



Clypeasta martini Dewailly
Holotype, MNHN, 9 mm



Clypeasta dechambrei Lacroix,
Holotype femelle, MNHN, 9,5 mm



Clypeasta rufa Dewailly,
Holotype, MNHN, 12,5 mm



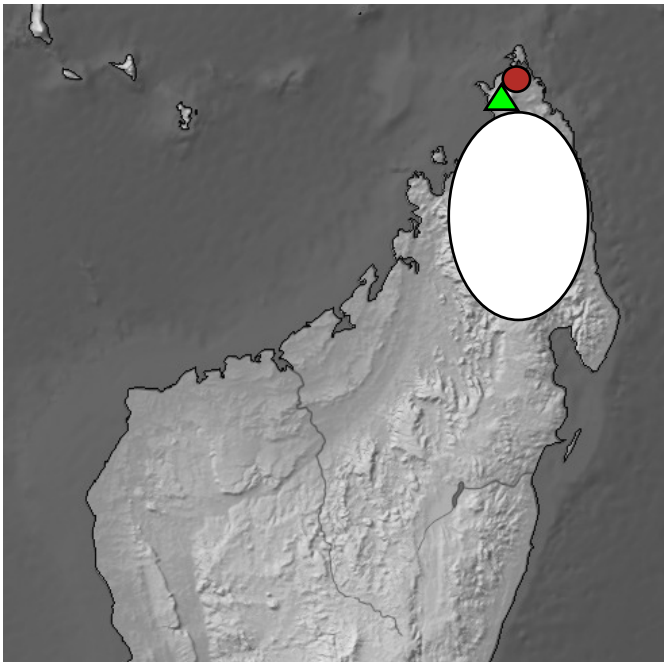
Clypeasta suturalis Dewailly,
Holotype, MNHN, 11,5 mm



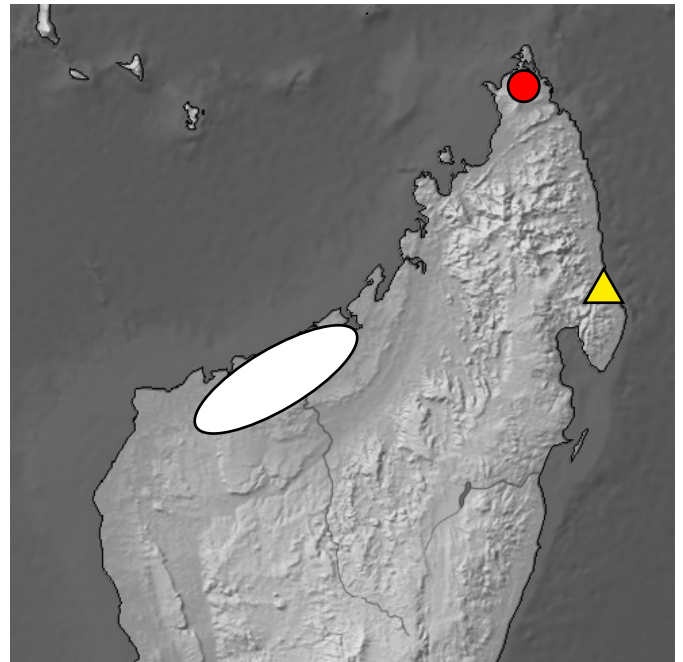
Clypeasta thoracica Dewailly,
= *gracilis* (Blanchard)
Holotype, MNHN, 9,5 mm

***Clypeasta* Faimaire**

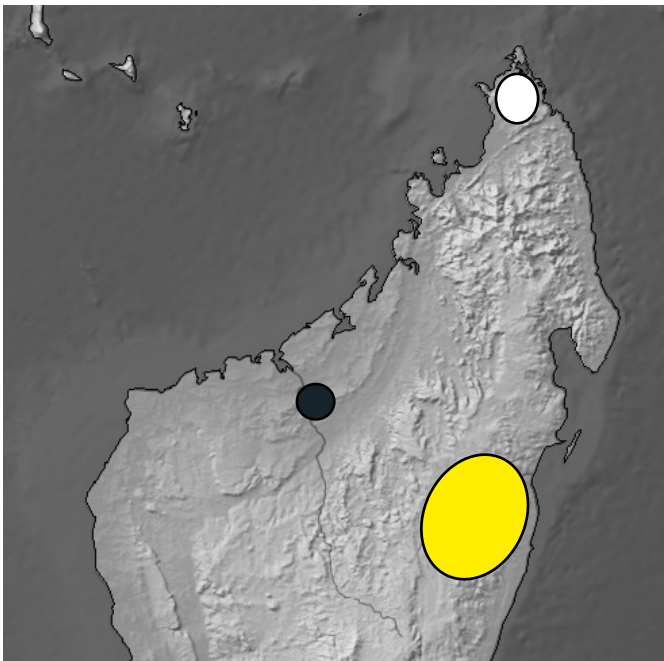
Melolonthidae région malgache



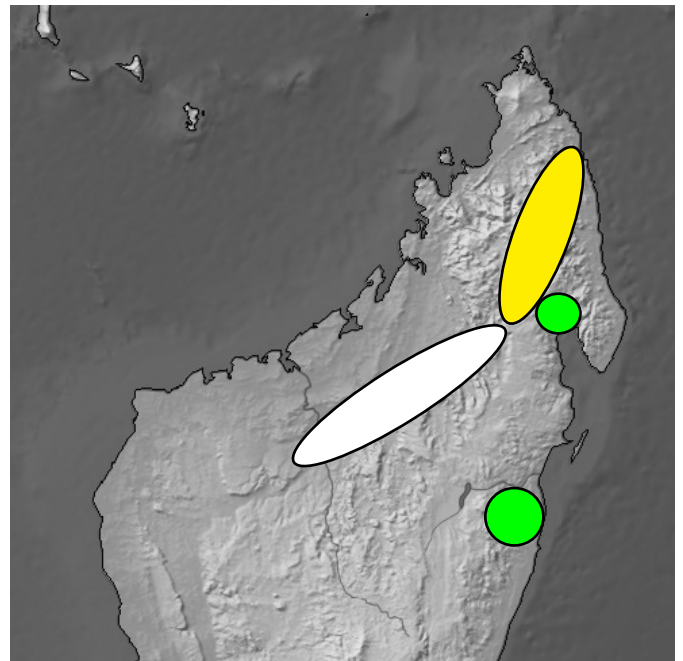
- Empectoides :**
- gentilis
 - ▲ pygipunctis
 - drouhardi



- Clypeasta :**
- suturalis
 - rufescens
 - ▲ rufa



- Clypeasta :**
- dechambrei
 - adusta
 - gracilis



- Clypeasta :**
- martini
 - pruinosa
 - vadoni

Melolonthidae région malgache



Empecta albosparsa
(Fairmaire)



Empecta atomaria
Fairmaire



Empecta concolor
Lacroix



Empecta densevestita
(Fairmaire)



Empecta dewaillyi
Lacroix



Empecta gracilis
Lacroix

Empecta
Erichson

Melolonthidae région malgache



Empecta grossepunctata
Lacroix



Empecta maculipennis
Blanchard



Empecta marmorea
Dewailly



Empecta obsoleta
Blanchard



Empecta scutata
Fairmaire



Empecta squamifera
Blanchard

Empecta
Erichson

Melolonthidae région malgache



Empecta alba Dewailly,
Holotype, MNHN, 12 mm



Empecta ardoini Lacroix,
Holotype, MNHN, 13 mm



Empecta fasciata Dewailly,
Holotype, MNHN, 12 mm



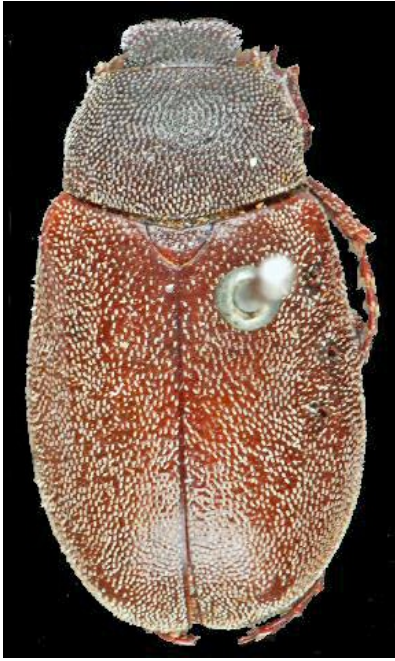
Empecta micheli Dewailly,
Holotype femelle, MNHN, 11,5 mm



Empecta mixta Lacroix,
Holotype mâle, MNHN, 13 mm

Empecta
Erichson

Melolonthidae région malgache



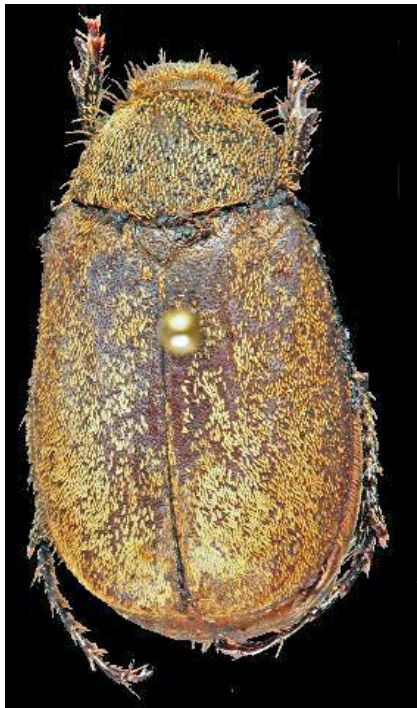
Empecta pexicollis Dewailly,
Holotype, MNHN, 11,5 mm



Empecta raffrayi Lacroix,
Holotype, MNHN, 13 mm



Empecta sicardi Dewailly,
Holotype, MNHN, 14 mm



Empecta villosella Lacroix,
Holotype, MNHN, 14,5 mm



Empecta perroti Dewailly,
Holotype, MNHN, 17 mm

Empecta
Erichson

Melolonthidae région malgache



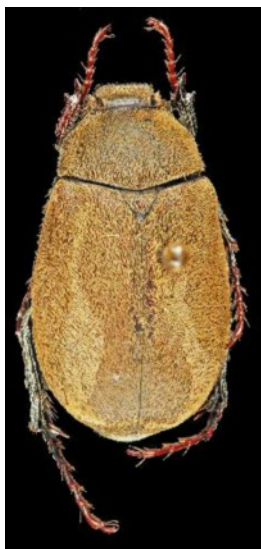
albosparsa (Fairmaire)
Lectotype f., MNHN, 13 mm



atomaria Fairmaire
Lectotype f., MNHN, 12 mm



cambouei Nonfried
Lectotype, MNHN, 15 mm



concolor Lacroix
Holotype, MNHN, 17 mm

Empecta, Types, MNHN



cuprea Blanchard
Lectotype f., MNHN, 15 mm



densaticollis Fairmaire
Lectotype, MNHN, 14 mm



densevestita (Fairmaire)
Lectotype, MNHN, 17 mm



dewaillyi Lacroix
Holotype, MNHN, 17 mm



gracilis Lacroix
Holotype, MNHN, 12 mm

Melolonthidae région malgache



grossepunctata Lacroix
Holotype, MNHN, 15 mm



inaequalis Lacroix
Holotype, MNHN, 16 mm

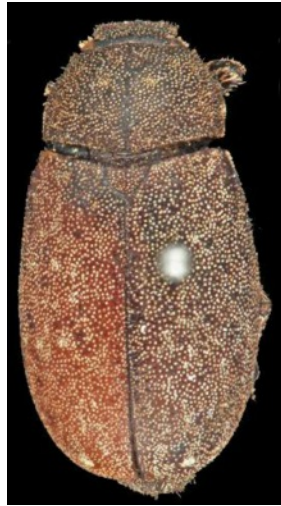


maculipennis Blanchard
Lectotype f., MNHN, 16 mm

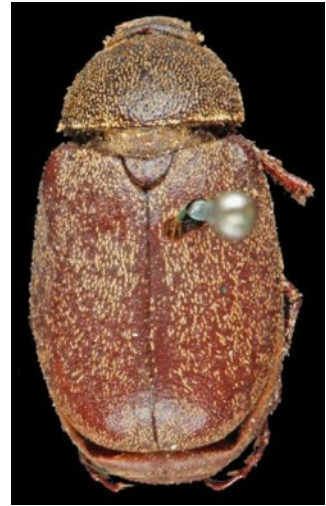


marmorea Dewailly
Holotype, MNHN, 13 mm

Empecta, Types, MNHN



obsoleta Blanchard
Lectotype, MNHN, 13 mm



scutata Fairmaire
Lectotype f., MNHN, 13 mm



semicribrosa Fairmaire
Lectotype, MNHN, 13 mm



squamifera Blanchard
Lectotype f., MNHN, 13 mm



vadoni Dewailly
Holotype, MNHN, 13 mm

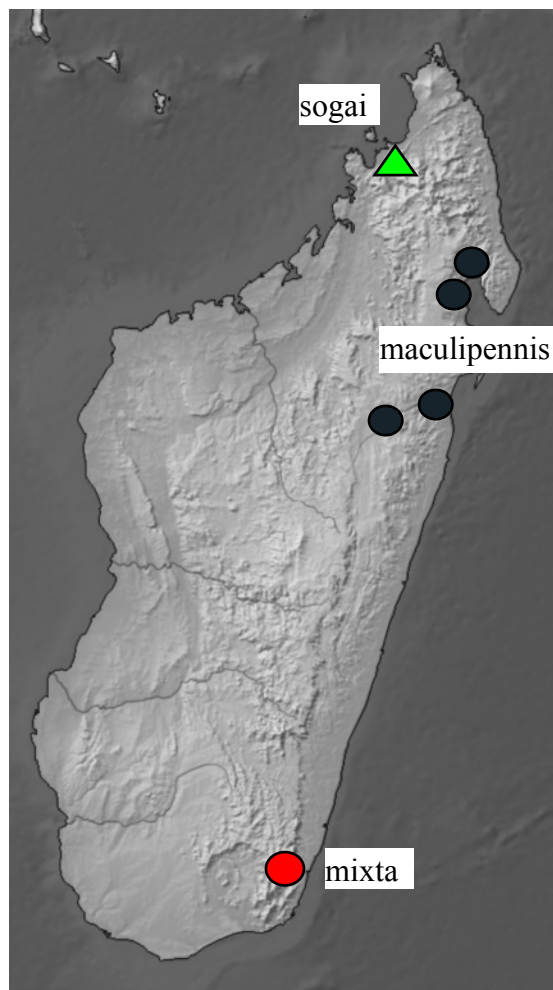
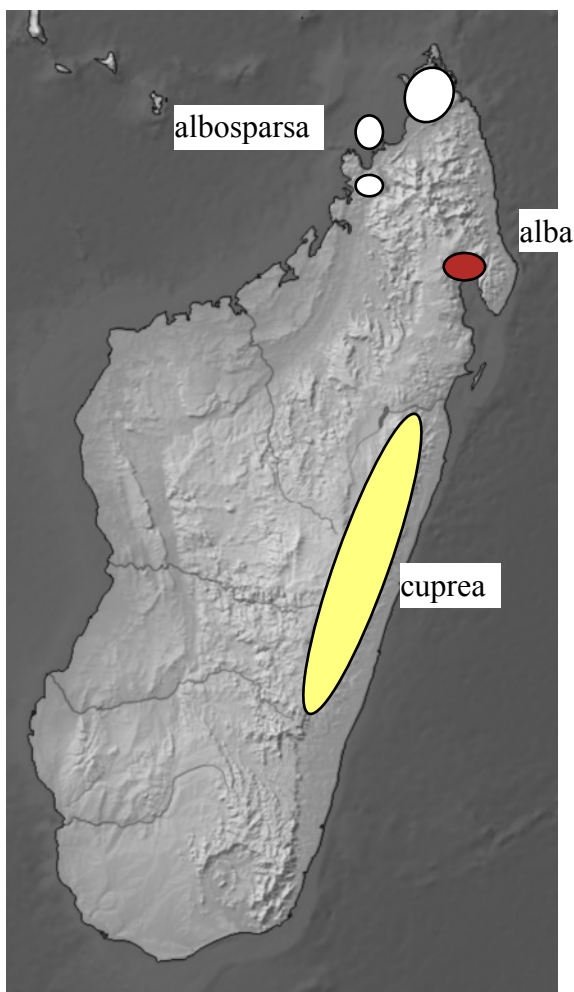
Melolonthidae région malgache



Empecta vadoni
Dewailly

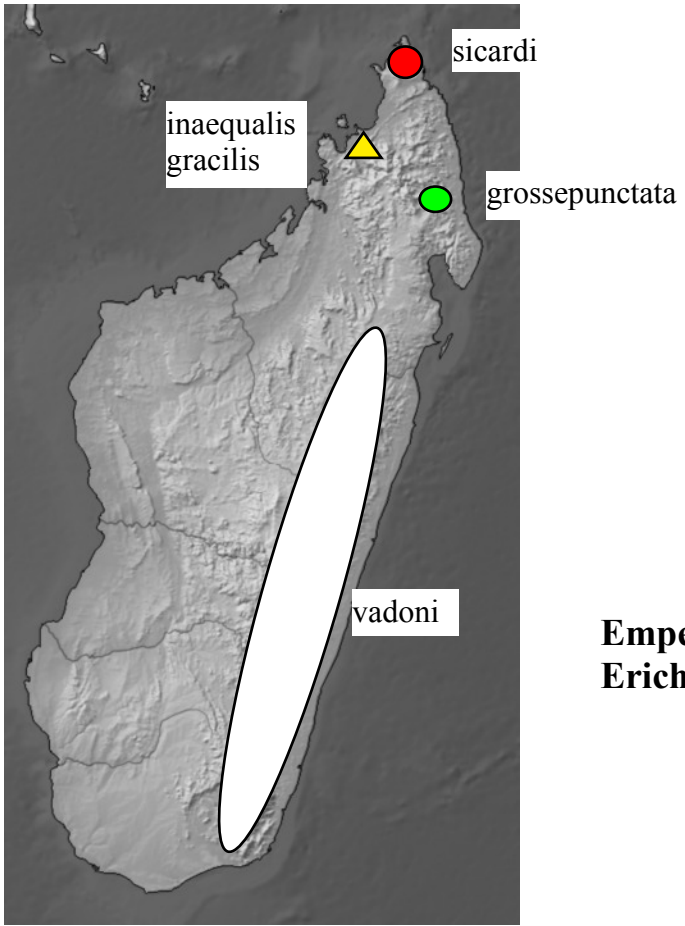


Empecta
Erichson

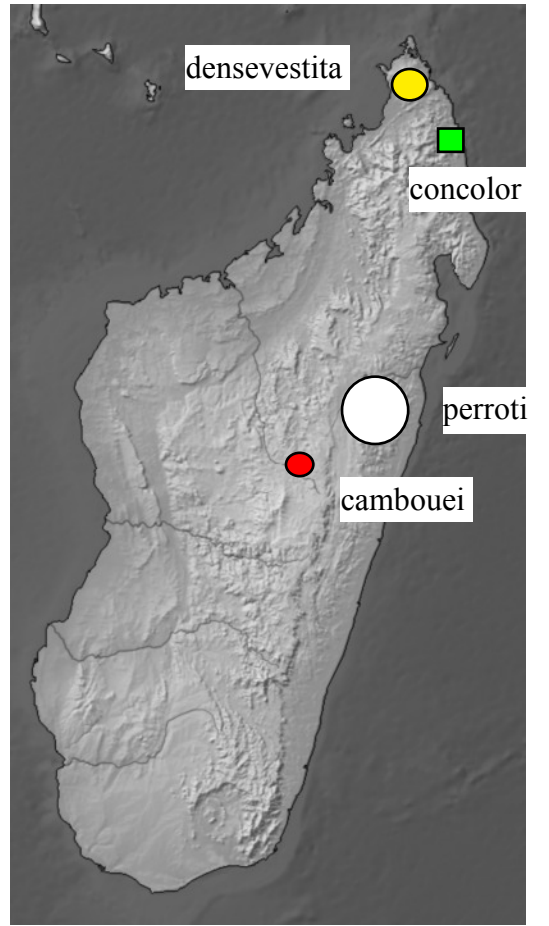


Distribution des espèces du genre *Empecta*
pages 20, 21 et 22

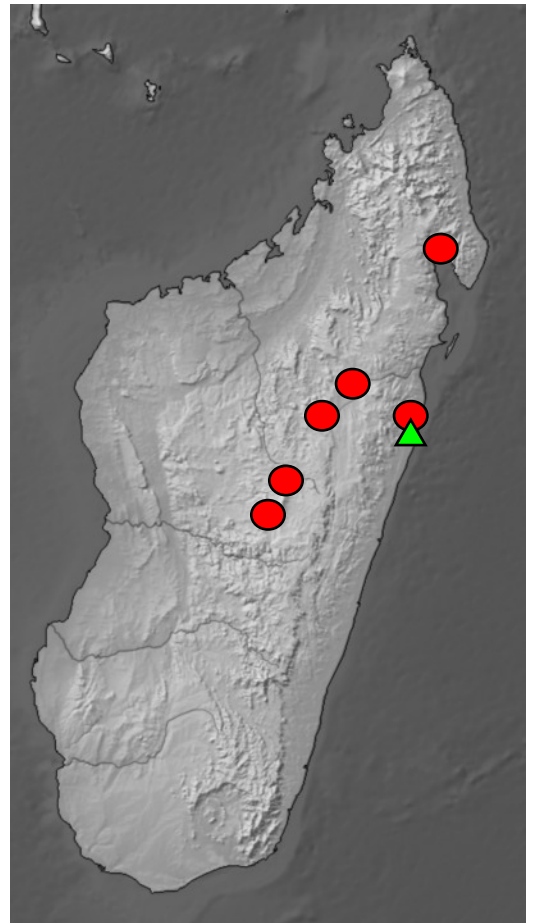
Melolonthidae région malgache



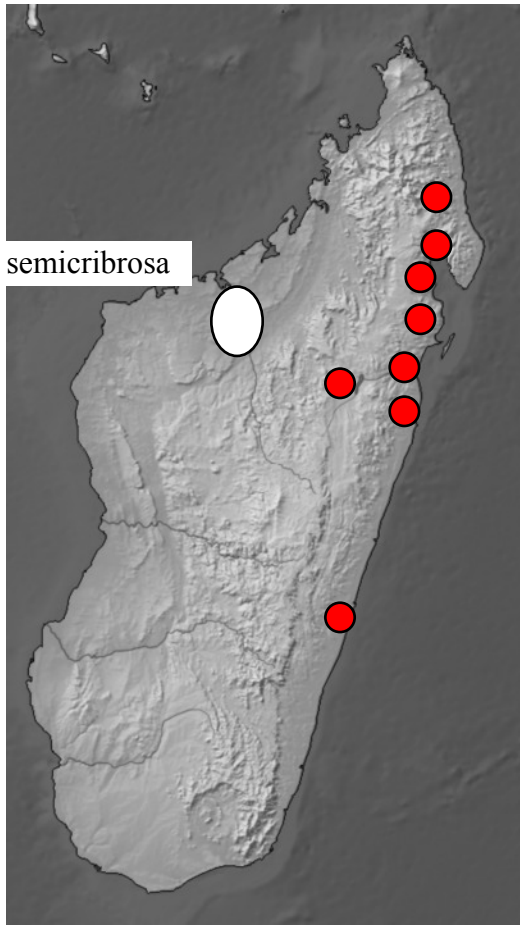
**Empecta
Erichson**



- dewaillyi
- densaticollis
- ▲ raffrayi

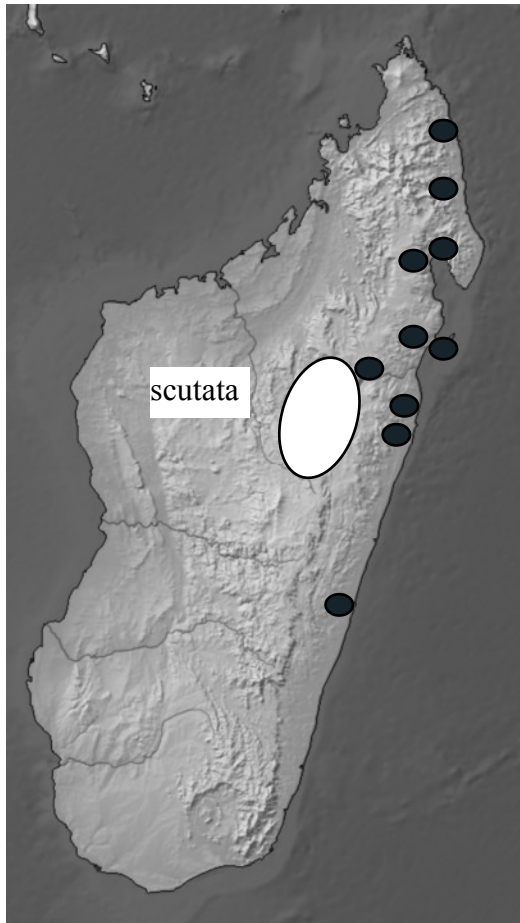
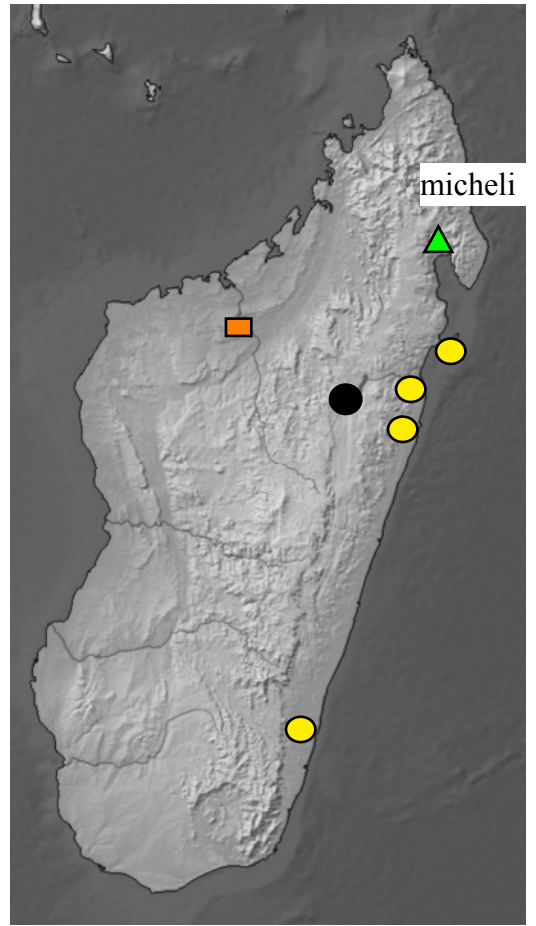


Melolonthidae région malgache

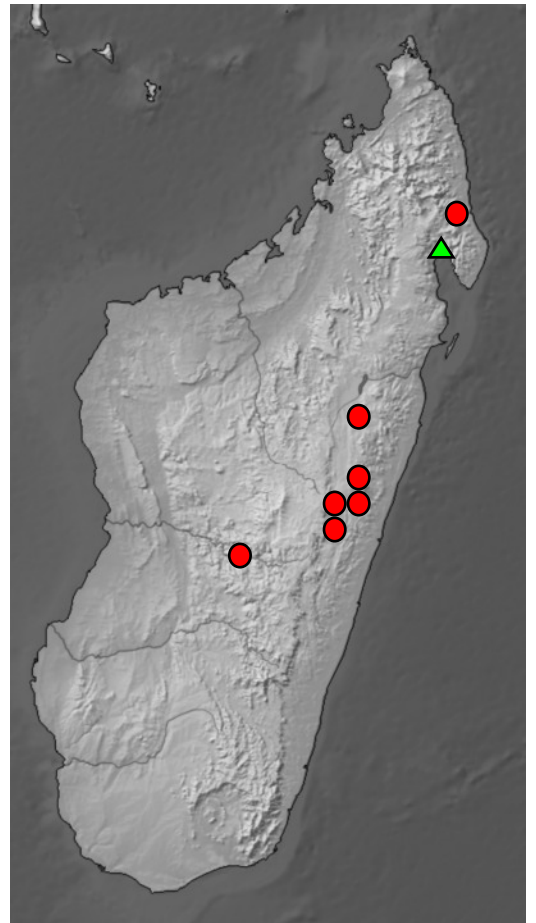


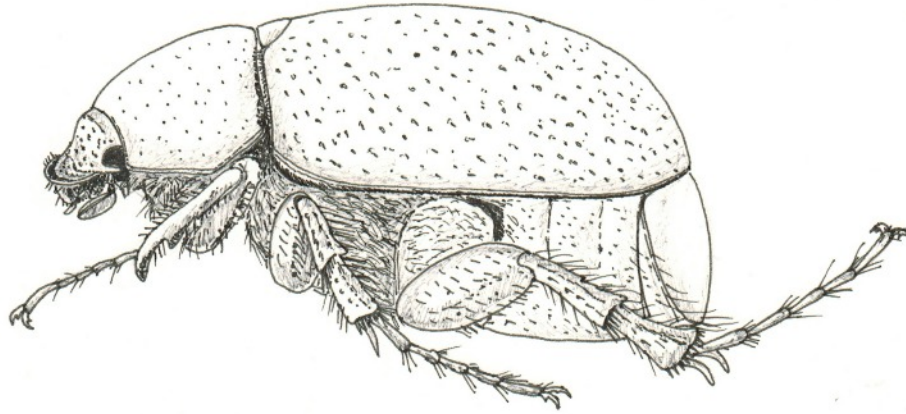
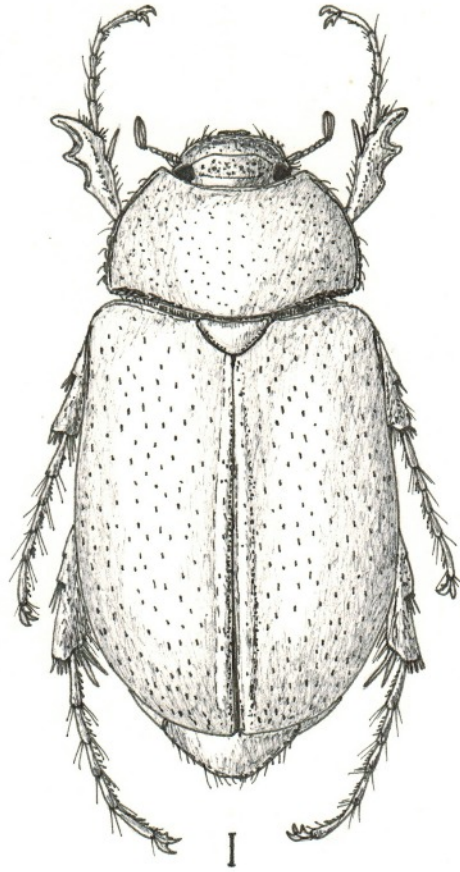
- squamifera
- atomaria
- ardoi
- pexicollis

**Empecta
Erichson**



- marmorea
- obsoleta
- ▲ fasciata





Hoplochelus obliteratedus Lacroix

Melolonthidae région malgache

Asaphomorpha
Brancsik

Asaphomorpha
colasi
Dewailly



Asaphomorpha
furfuracea
(Fairmaire)

Asaphomorpha
gaudroni
Dewailly



Asaphomorpha
hirsuta
Lacroix

Asaphomorpha
latipennis
(Fairmaire)



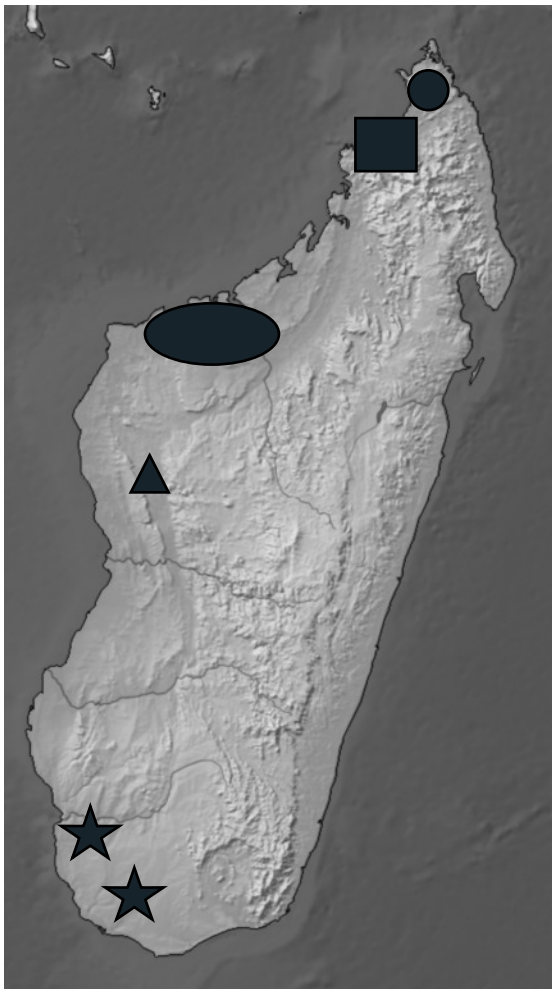
Asaphomorpha
nigra
(Künckel)

Melolonthidae région malgache

*Asaphomorpha
obesa*
(Fairmaire)



*Asaphomorpha
setigera*
Lacroix



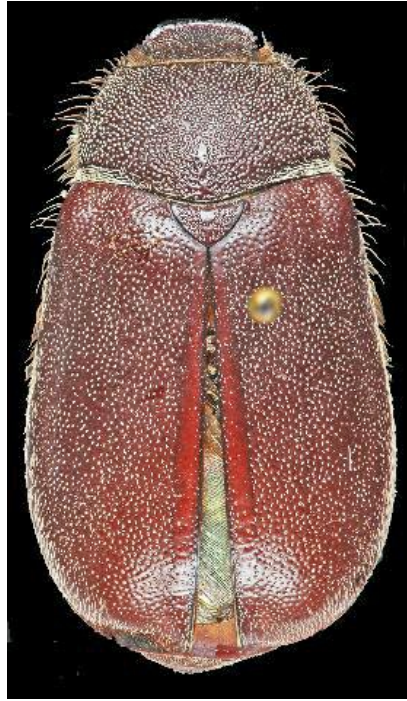
- colasi latipennis ○
- nigra bastardi ★
- ▲ peyrierasi

- setigera
- ☾ gaudroni, geayi, rotundiceps, laticrenata
- androkensis, obesa, fiherenae, hirsuta, furfuracea

Melolonthidae région malgache



androkensis Dewailly
Holotype, MNHN, 20 mm



bastardi Dewailly
Holotype, MNHN, 22 mm



fiherenae Lacroix
Holotype, MNHN, 20 mm



geayi Dewailly
Holotype, MNHN, 12 mm



laticrenata Dewailly
Holotype femelle, MNHN, 21 mm



peyrierasi Lacroix
Holotype, MNHN, 20 mm

Asaphomorpha
Types, MNHN

Melolonthidae région malgache



rotundiceps Lacroix
Holotype, MNHN, 16 mm



colasi Dewailly
Holotype, MNHN, 24 mm



furfuracea (Fairmaire)
Lectotype, MNHN, 19 mm



gaudroni Dewailly
Holotype, MNHN, 22 mm



hirsuta Lacroix
Holotype, MNHN, 16,5 mm



setigera Lacroix
Holotype, MNHN, 19 mm

Asaphomorpha
Types, MNHN

Melolonthidae région malgache

Hoplochelus
Blanchard

Hoplochelus
betanimena
(Künckel)



Hoplochelus
lebisi
Dewailly

Hoplochelus
marginalis
(Fairmaire)



Hoplochelus
piliger
(Blanchard)

Hoplochelus
pruinus
(Fairmaire)



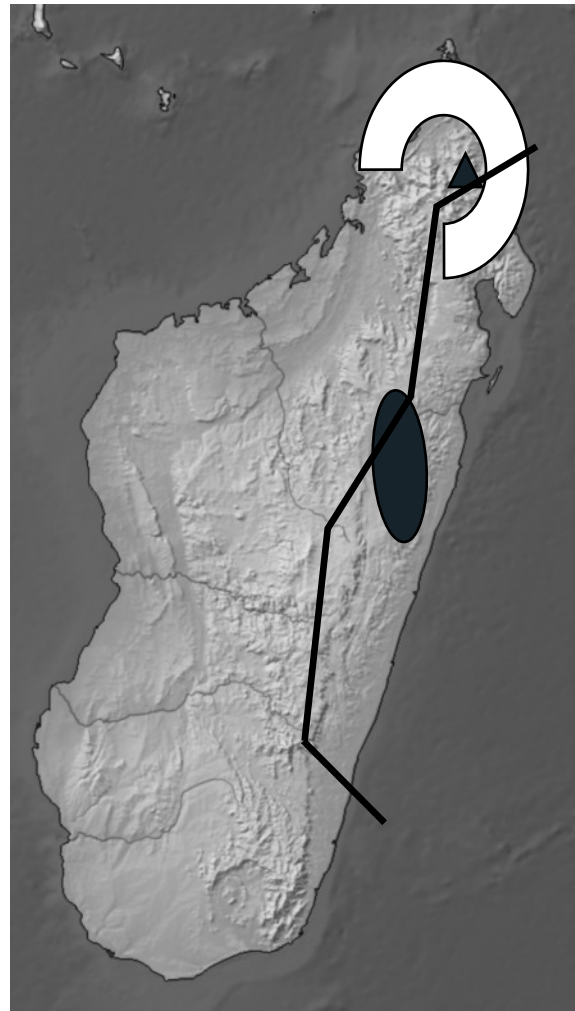
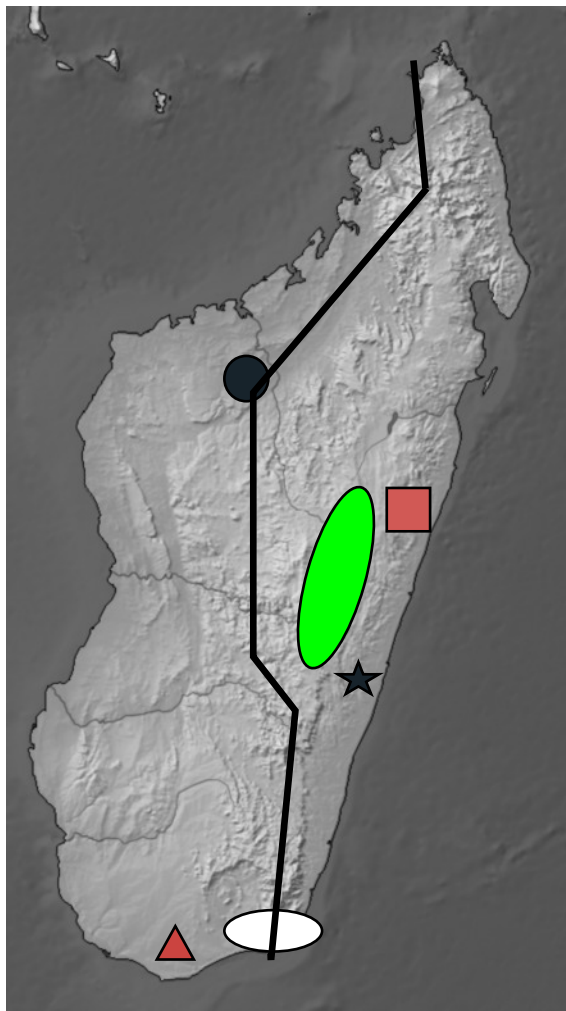
Hoplochelus
rhizotrogoides
Blanchard

Melolonthidae région malgache



Hoplochelus tenuipunctatus Fairmaire ; *H. textilipennis* (Fairmaire) ;

H. vadoni Dewailly



- tenuipunctatus
- lebisi
- ★ primoti
- marginalis

- ▲ lepidus
- textilipennis
- betanimena

- vadoni
- ▲ peyrerasi, obliterated
- rhizotrogoides
- piliger

Melolonthidae région malgache



betanimena (Künckel)
Lectotype, MNHN, 18 mm



lepidus Lacroix
Holotype, MNHN, 15 mm



marginalis (Fairmaire)
Lectotype, MNHN, 18 mm



obliteratus Lacroix
Holotype, MNHN, 21 mm



peyrierasi Lacroix
Holotype, MNHN, 19 mm



primoti Dewailly
Holotype, MNHN, 19 mm

Hoplochelus
Types, MNHN

Melolonthidae région malgache



lebisi Dewayilly
Holotype, MNHN, 20 mm



rhizotrogoides Blanchard
Holotype f., MNHN, 14 mm



tenuepunctatus Fairmaire
Lectotype, MNHN, 14 mm



textilipennis (Fairmaire)
Lectotype, MNHN, 19 mm

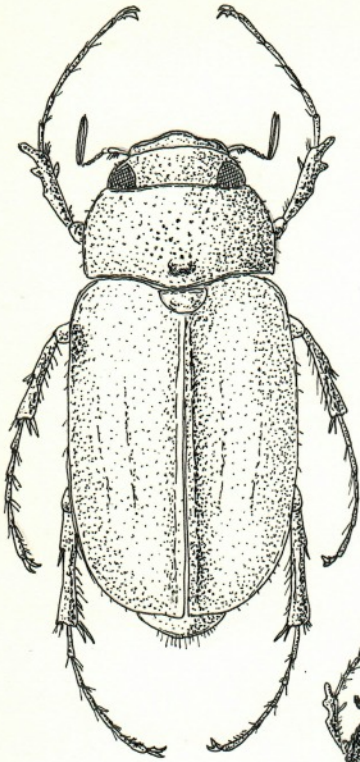


vadoni Dewayilly
Holotype, MNHN, 23 mm

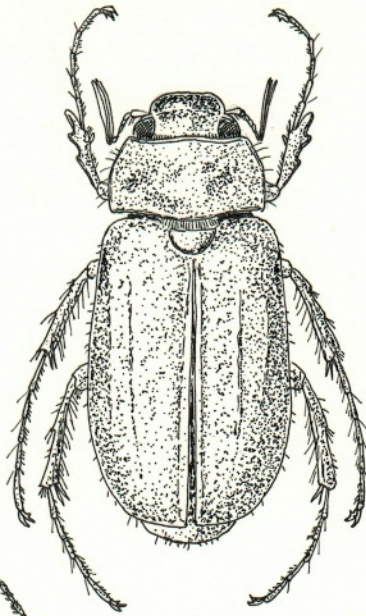
Hoplochelus
Types, MNHN

Melolonthidae région malgache

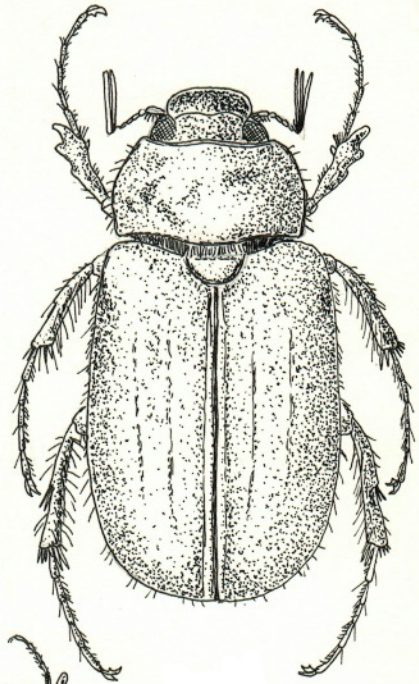
Mascarena rodriguezi



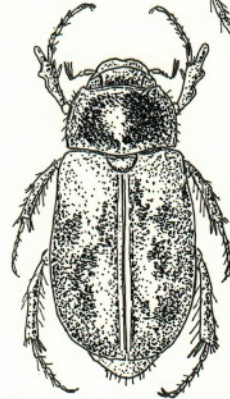
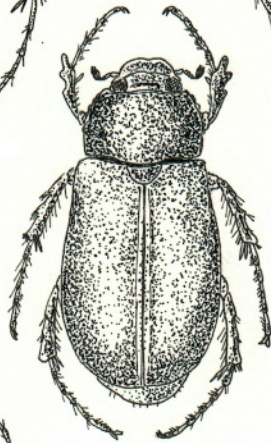
Dinarobina pallens



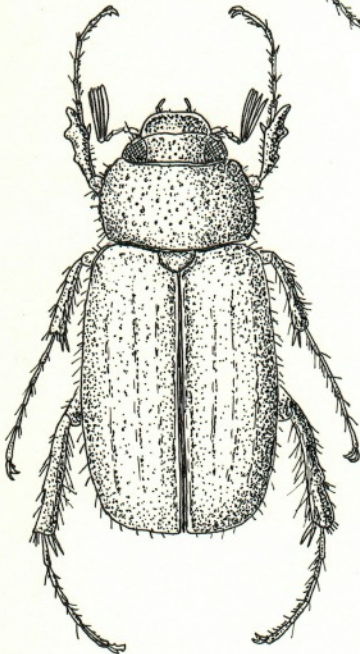
Dinarobina gravis



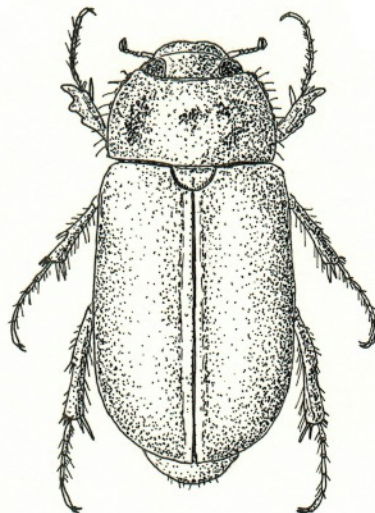
Clemora smithi



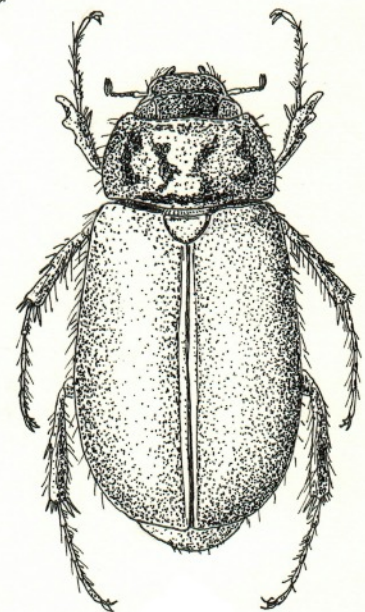
Dinamoraza courtoisi



Gymnogaster buphthalma



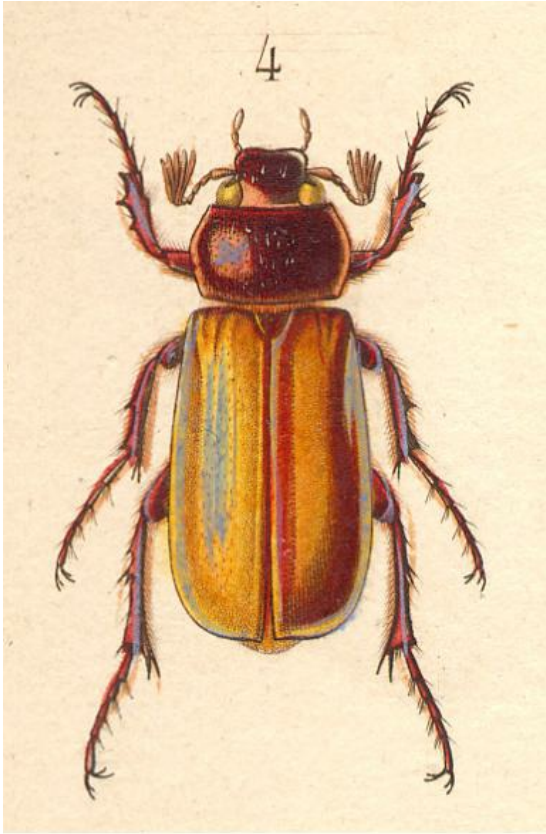
Dinamoraza gradaria



Dinamoraza vinsoni

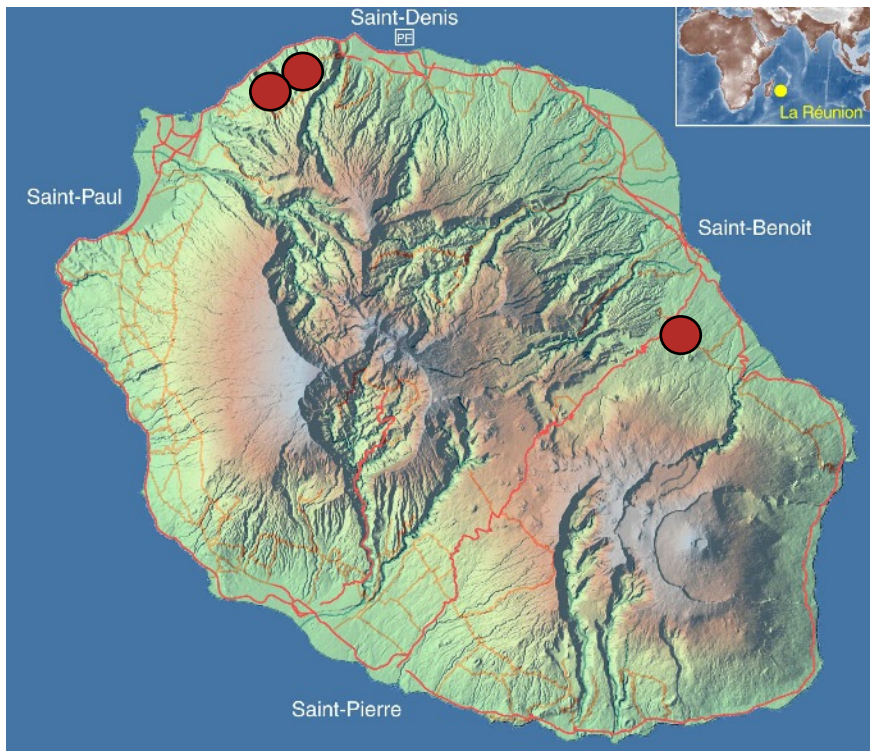
Melolonthinae des Mascareignes

Melolonthidae région malgache



Lacordaire, atlas

*Gymnogaster
buphthalma*
Blanchard,
mâle



Distribution de *Gymnogaster* à La Réunion



Gymnogaster buphthalma
femelle, lectotype, MNHN

Melolonthidae région malgache

*Dinamoraza
vinsoni*
(Arrow)



*Dinarobina
pallens*
(Arrow)



Maurice

Dinarobina gravis
Dinarobina pallens
Dinamoraza vinsoni

Importé :
Clemora smithi

Rodrigues

Mascarena rodriguezi
Dinamoraza courtoisi
Dinamoraza gradaria

*Mascarena
rodriguezi*
(Waterhouse)



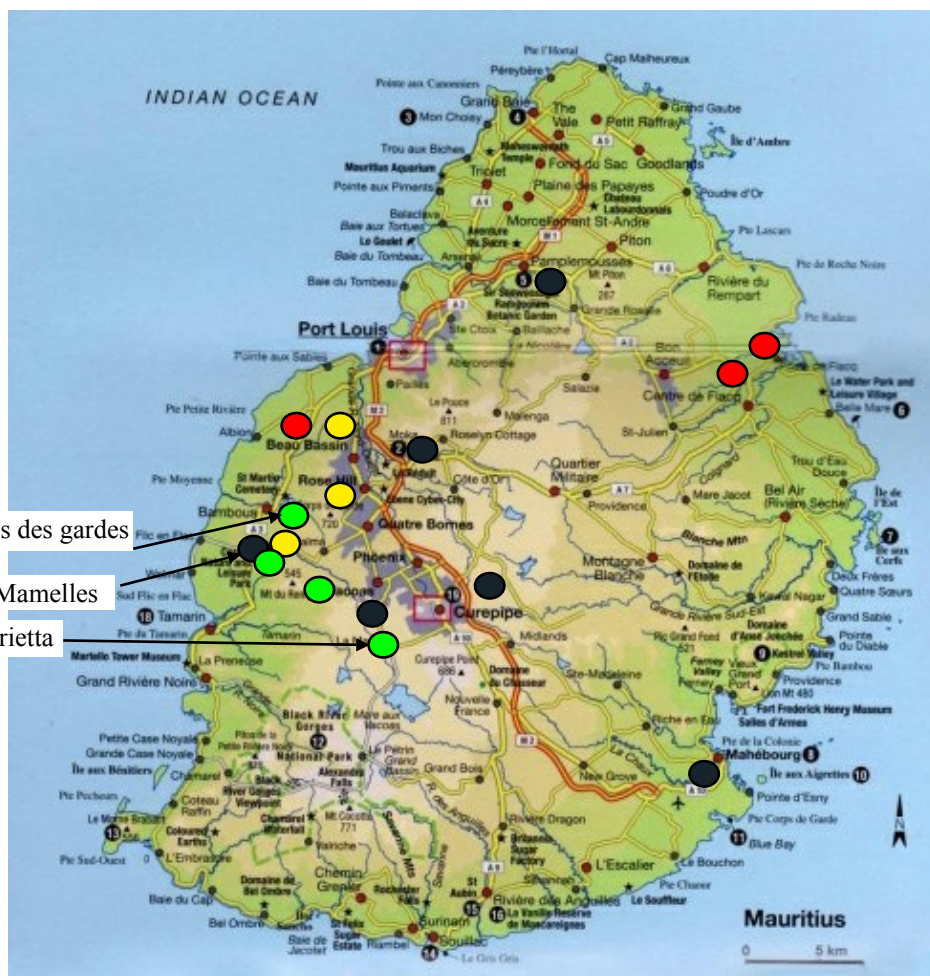
La Réunion

Gymnogaster buphthalma

Importé :
Hoplochelus marginalis

Melolonthinae des Mascareignes

Distribution des espèces de Melolonthinae à Maurice



Maurice

- Dinarobina gravis
- Dinarobina pallens
- Dinamoraza vinsoni
- Clemora smithi

Corps des gardes

Trois Mamelles

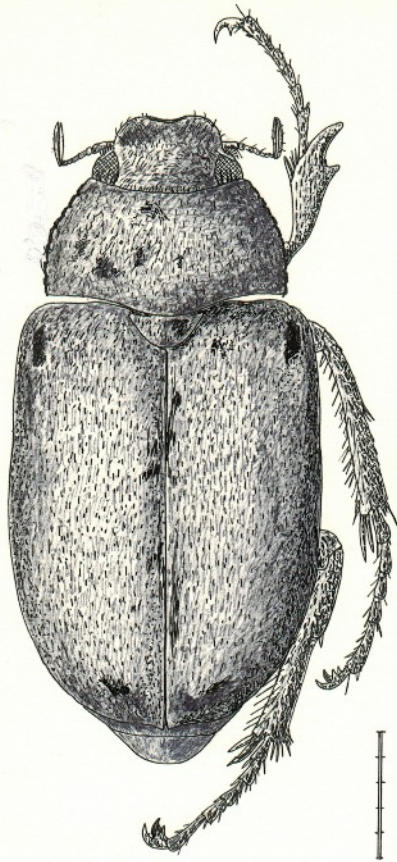
Henrietta

Melolonthidae région malgache

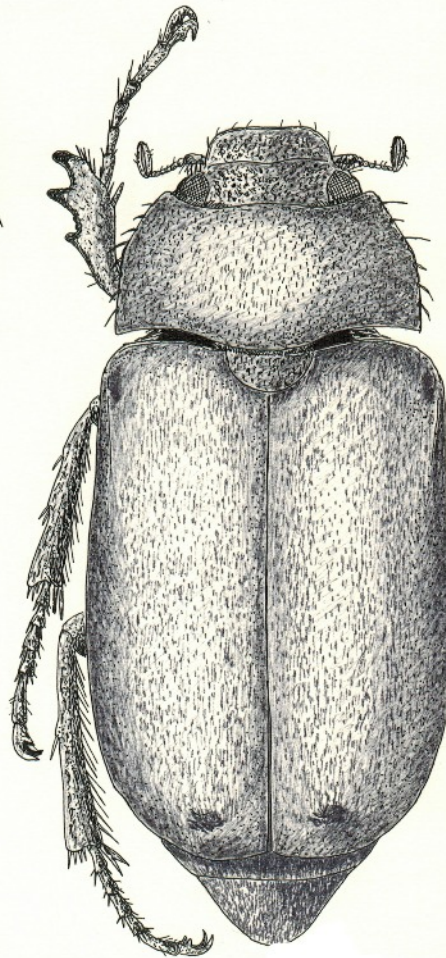


- Dinamoraza courtoisi (Vinson)
- Dinamoraza gradaria (Waterhouse)
- Mascarena rodriguezi (Waterhouse)

Distribution des espèces de Melolonthinae à Rodrigues



Eulepida lepidota mayottensis
Lacroix

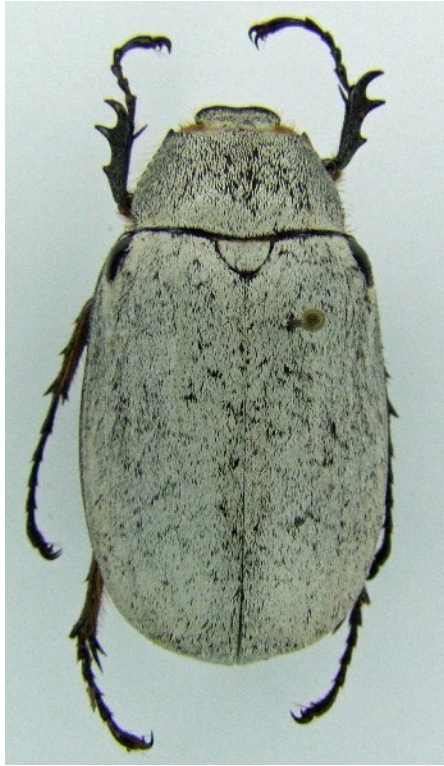


Kuenckeliana dubia
(Künckel)

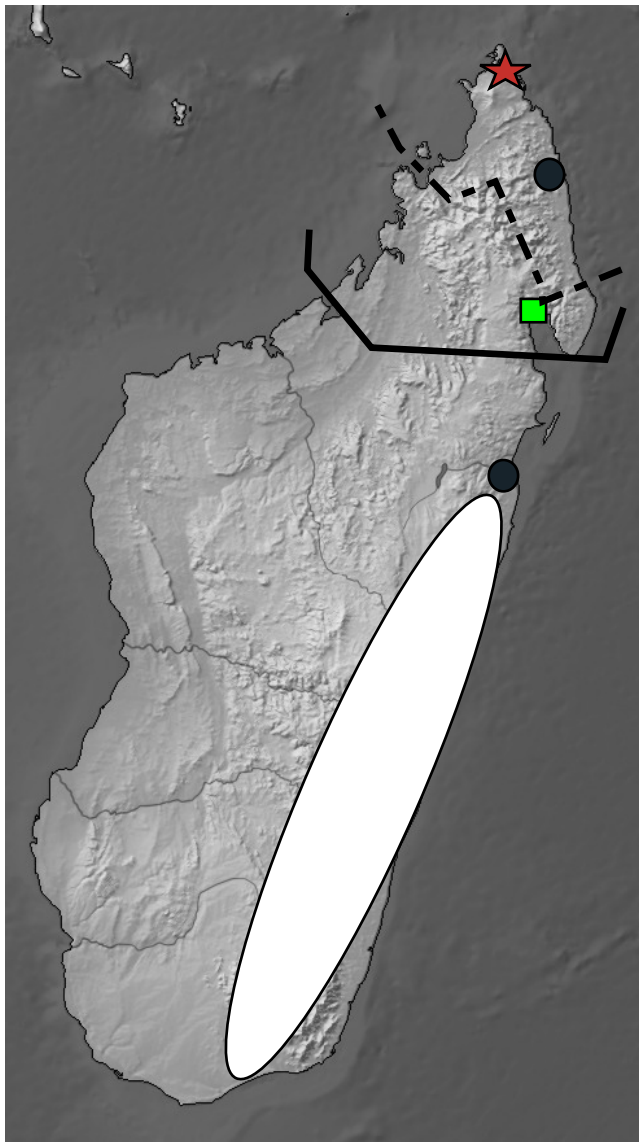
LES LEUCOPHOLINI

Melolonthidae région malgache

*Tricholepis
albosquamosa*
Ley



*Tricholepis
niveopilosa*
Blanchard



*Lacroixilepis
parvicollis*
(Moser)



- *Lacroixilepis parvicollis*
- ★ *L. major* ; *Tricholepis bouvieri*
- *Tricholepis emmae*
- *Tricholepis niveopilosa*
- *Tricholepis albosquamosa*
- - - *Tricholepis lineata*

Melolonthidae région malgache



bouvieri Ley
Holotype, MNHN, 31 mm



emmae Dewailly
Holotype, MNHN, 39 mm



niveopilosa Blanchard
Lectotype, MNHN, 45 mm

Tricholepis Blanchard



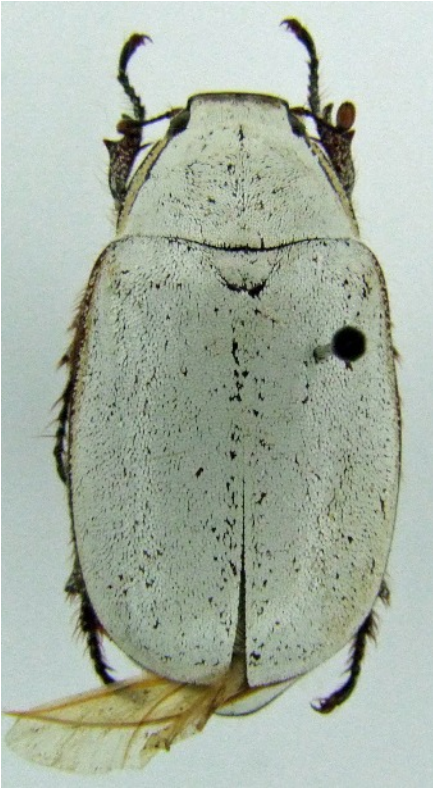
Lacroxilepis major (Fairmaire)
Lectotype, MNHN, 26 mm



Terebrogaster squalida Lacroix
Holotype, MNHN, 21 mm

Leucopholini, Types, MNHN

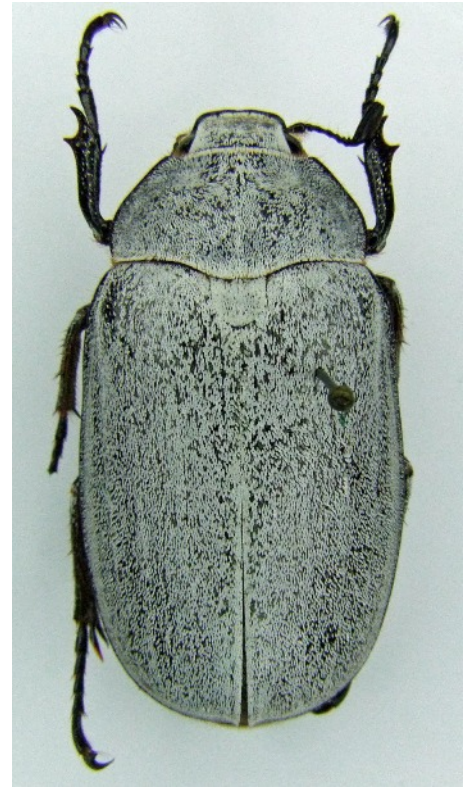
Melolonthidae région malgache



Proagosternus lacteus (Gory)



Proagosternus sicardi Dewailly



Proagosternus niveus Blanchard,
mâle



*Proagosternus
niveus*
Blanchard

< femelle

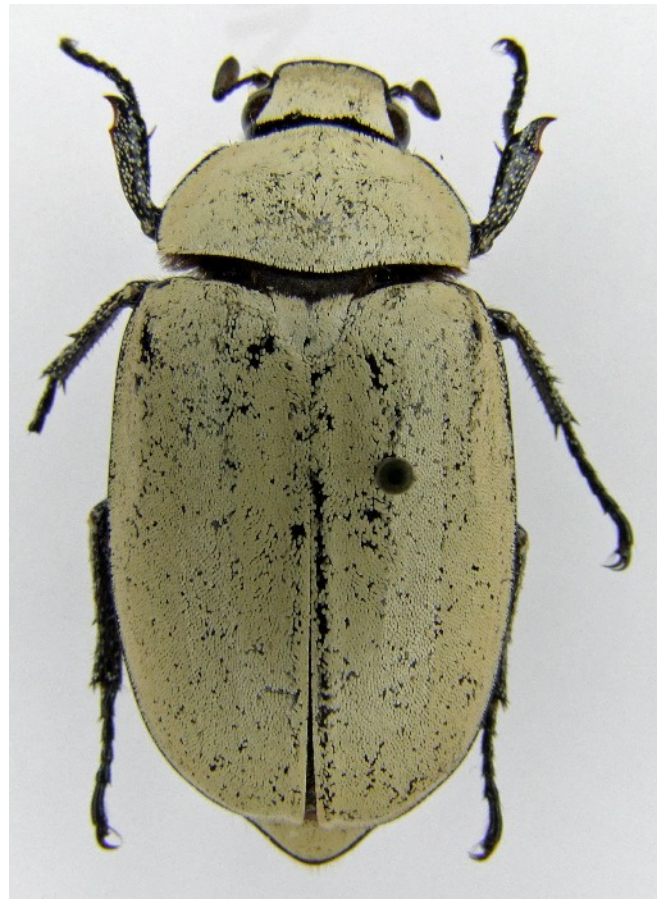
forme ocre >



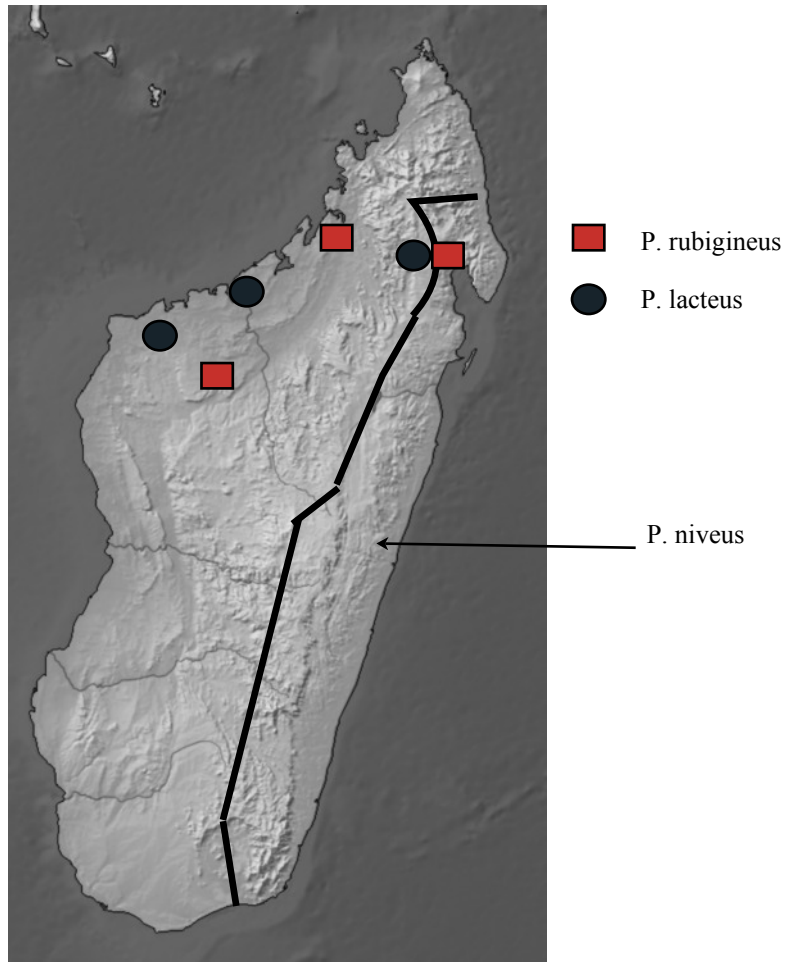
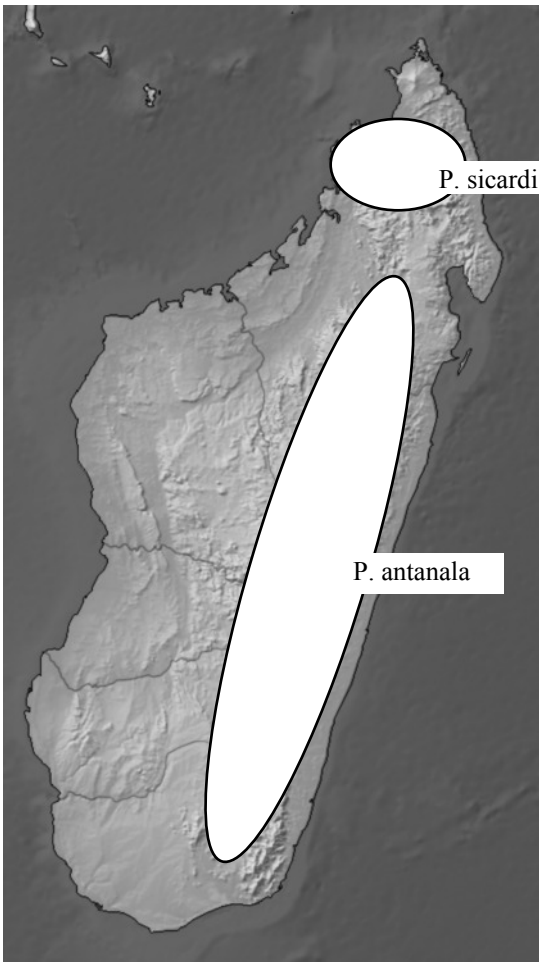
Melolonthidae région malgache



Proagosternus rubiginus Fairmaire



Proagosternus antanala Künckel



Melolonthidae région malgache



antanala Künckel
Lectotype femelle, MNHN, 36 mm



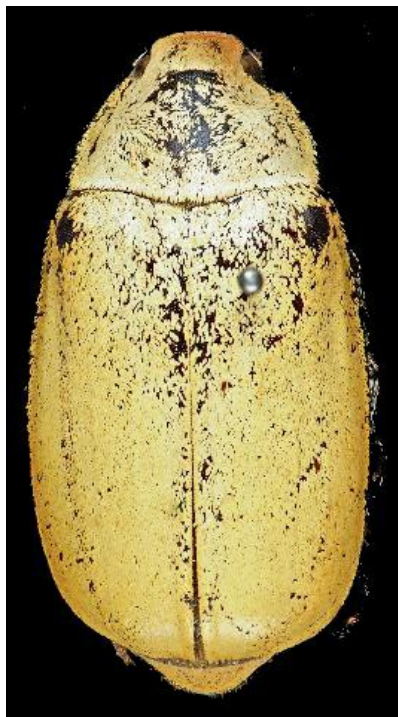
godeli Dewailly
Holotype, MNHN, 38 mm
= *niveus* Blanchard



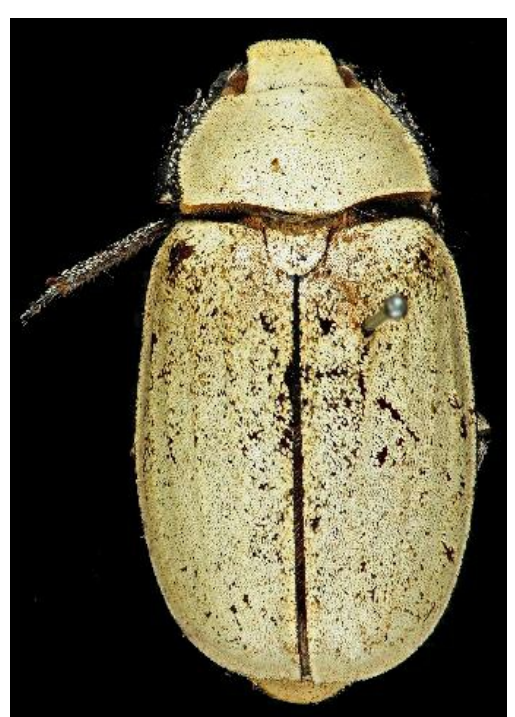
niveus Blanchard
Lectotype, MNHN, 46 mm



rectipenis Dewailly
Holotype, MNHN, 37 mm
= *niveus* Blanchard



rubiginus Fairmaire
Lectotype, MNHN, 34 mm



sicardi Dewailly
Holotype, MNHN, 31 mm

Proagosternus
Types, MNHN

Melolonthidae région malgache

Melolonthoides



Kuenckeliana dubia (Künckel)
Lectotype mâle, MNHN, 34 mm

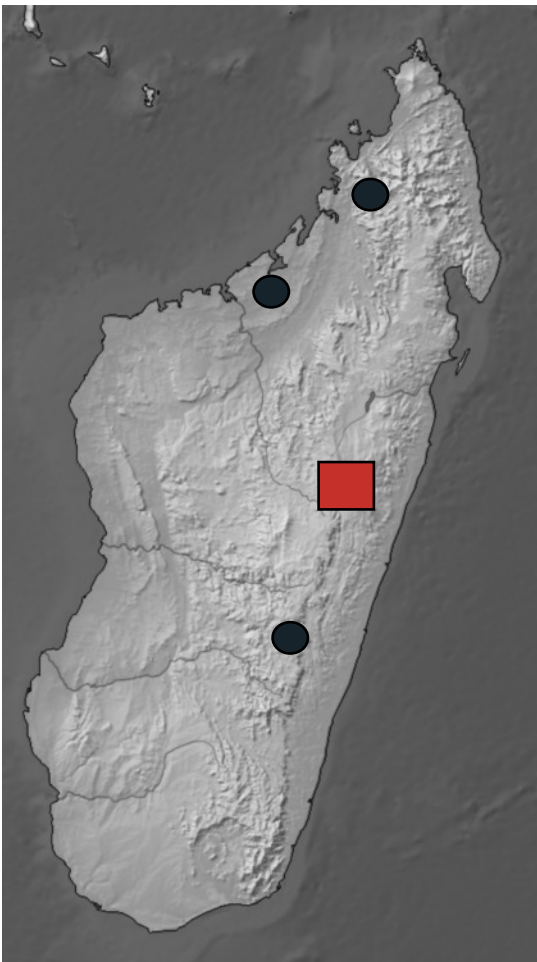


Melolonthoides rotschildi Dewailly
Holotype mâle, 26 mm

Melolonthidae région malgache



Terebrogaster pygidialis (Waterhouse) - mâle - femelle

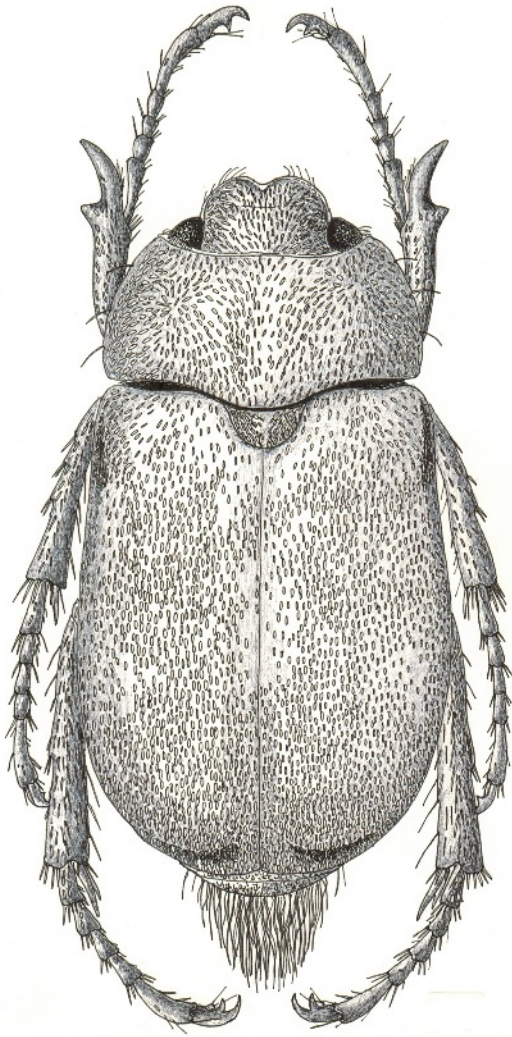


- *T. pygidialis*
- *T. squalida*

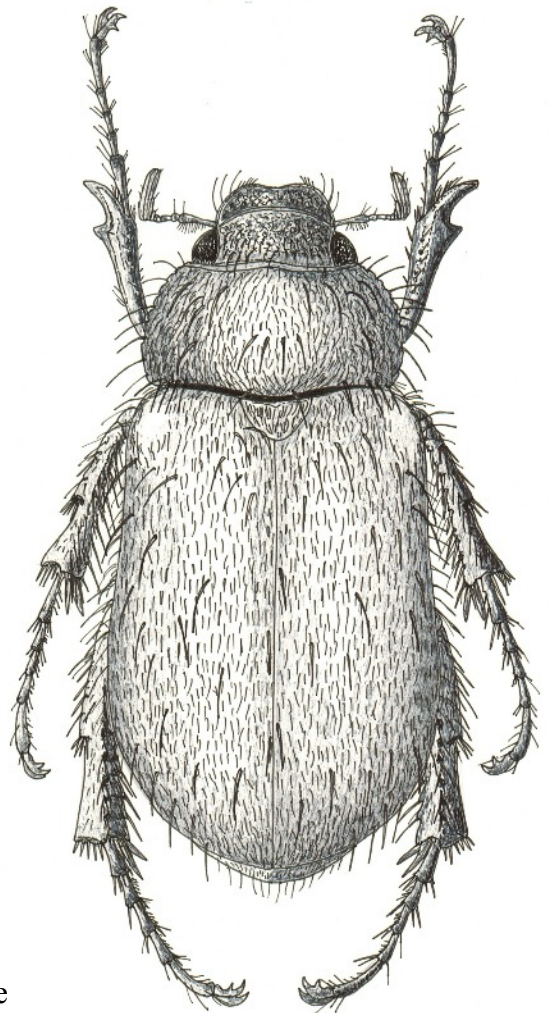


Terebrogaster squalida
Lacroix

Terebrogaster
Lacroix



Encya commersoni (Olivier)



Eutrichesis pilosicollis Waterhouse

LES ENARIINI

Melolonthidae région malgache

Enthora
Erichson

Enthora
alluaudi
Dewailly



Enthora
polita
Waterhouse



Enthora
atomaria
Fairmaire



Enthora
miliaris
Kolbe



Enthora
chlorodera
Blanchard



Enthora
ornata
Nonfried



Melolonthidae région malgache

alluaudi
Dewailly
Holotype
MNHN
19 mm



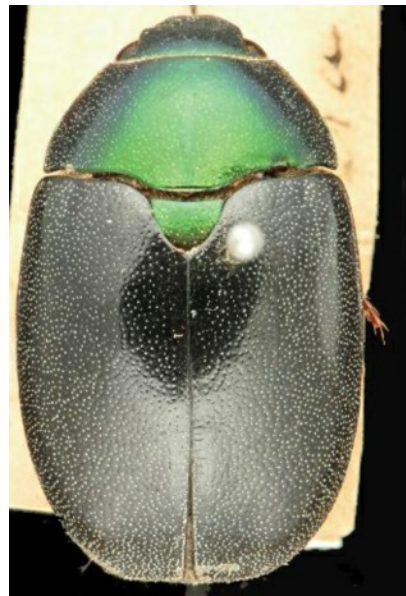
atomaria
Fairmaire
Lectotype
MNHN
17,5 mm



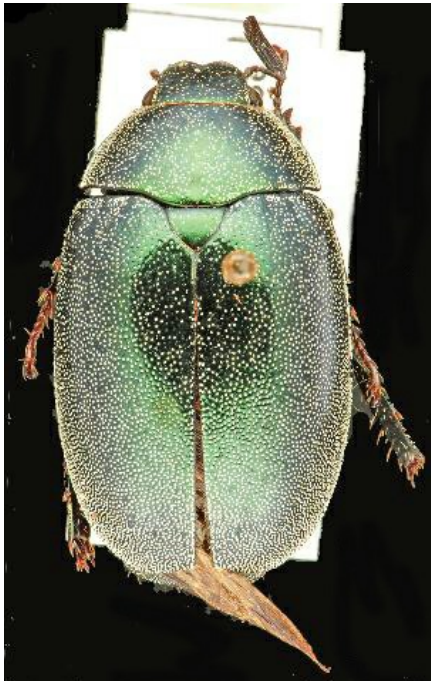
catalai
Dewailly
Holotype,
femelle
MNHN
20 mm



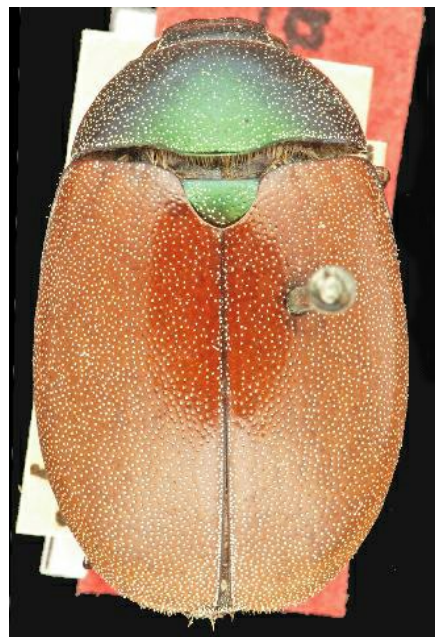
chlorodera
Blanchard
Lectotype
MNHN
18 mm



lunata
Lacroix
Holotype
MNHN
20 mm

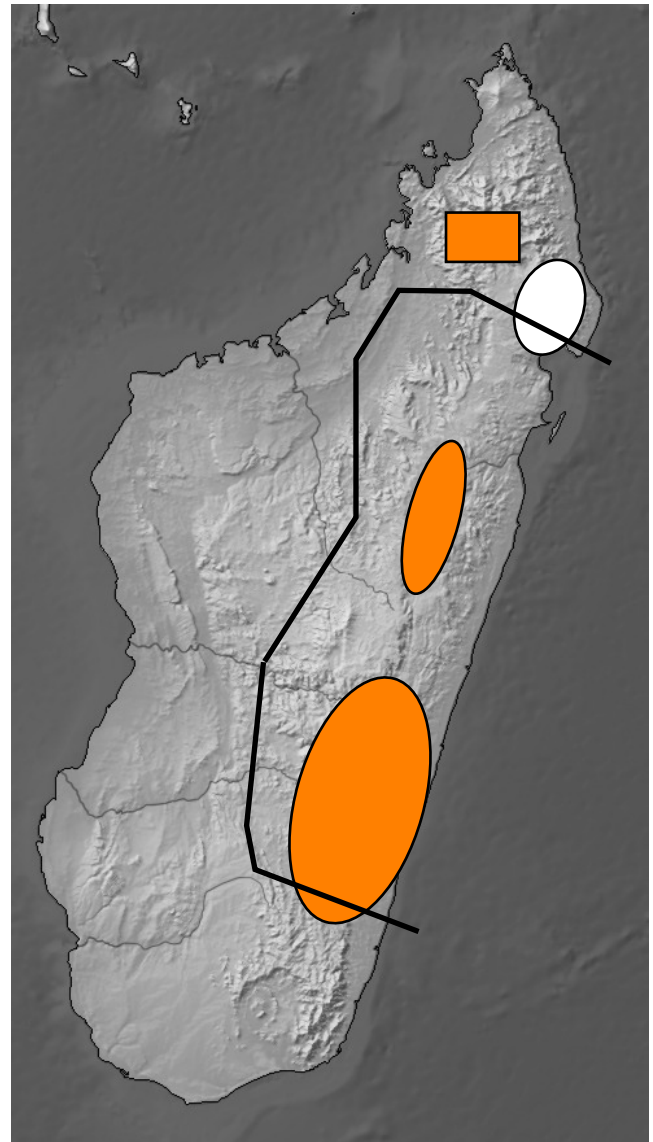
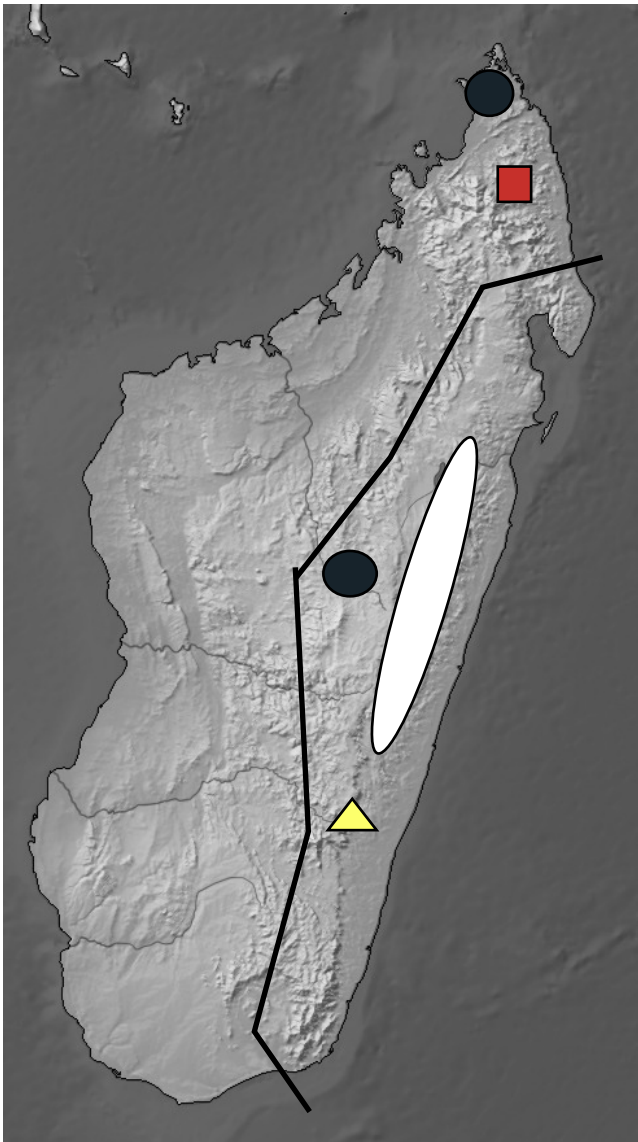


ornata
Nonfried
Lectotype
20 mm



Enthora
Erichson
Types
MNHN

Melolonthidae région malgache



Enthora Erichson

- atomaria
- lunata
- ▲ catalai
- alluaudi
- chlorodera

- polita
- miliaris
- ornata

Melolonthidae région malgache



Encya albostriata Brenske



Encya commersoni (Olivier)

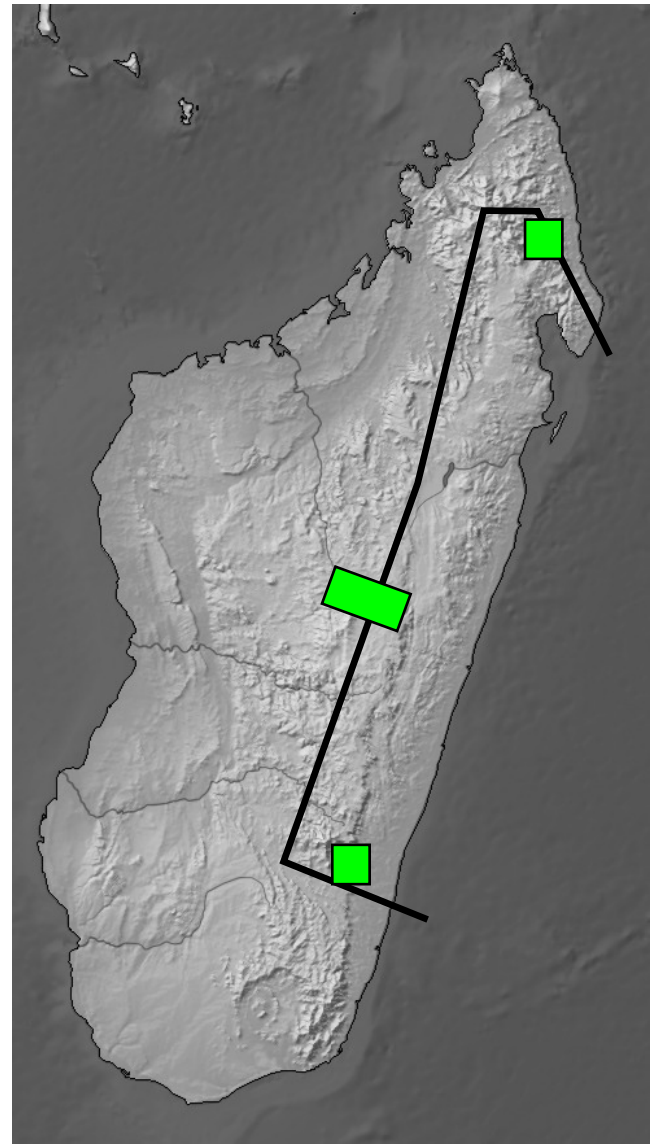
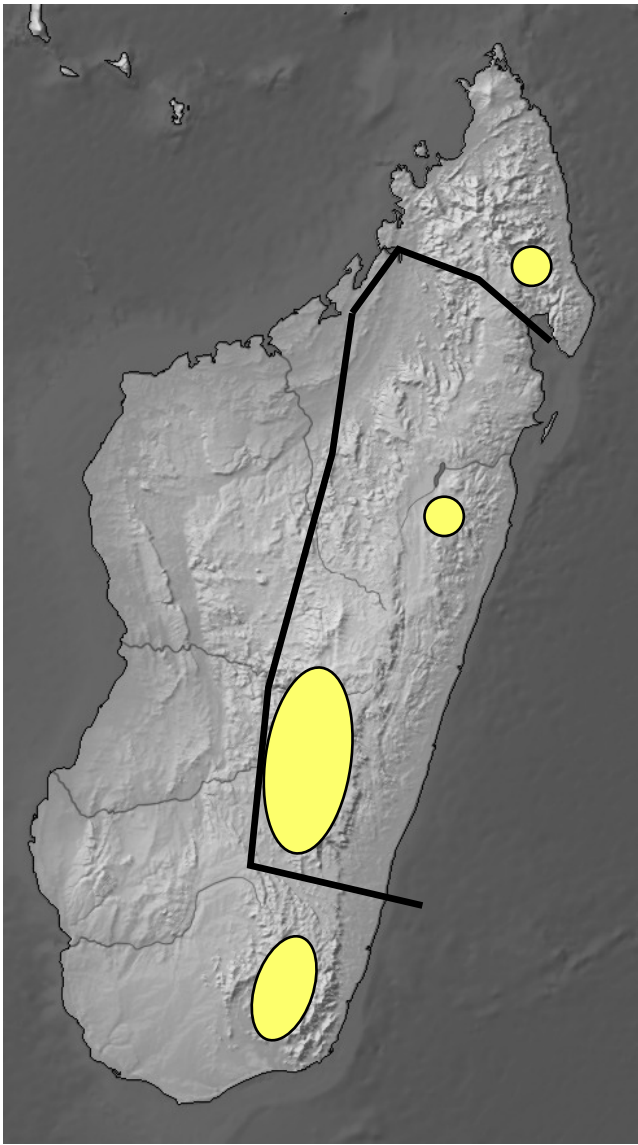


Encya sikorai Brenske



Encya strigiscutata Fairmaire

Melolonthidae région malgache



Encya Dejean

- strigiscutata
- albostriata

- commersoni
- sikorai

Melolonthidae région malgache

Eutrichesis
Waterhouse

Eutrichesis
pilosicollis
Waterhouse

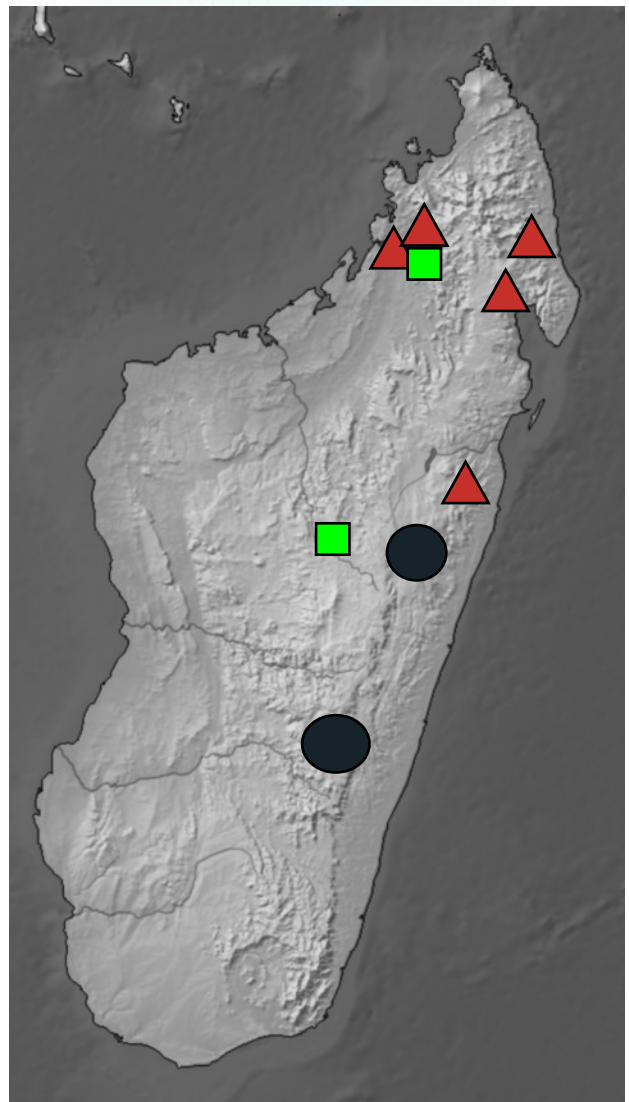


Eutrichesis
punctatus
Waterhouse



Eutrichesis bourgini (Dewailly)

- Les trois espèces ●
bourgini ▲
pilosicollis ■



Melolonthidae région malgache

**Bisencya
Lacroix**

*Bisencya
bisignata*
(Blanchard)



*Bisencya
catalai*
(Dewailly)

*Bisencya
gutticollis*
(Waterhouse)



*Bisencya
invulnerata*
(Waterhouse)

*Bisencya
lacunosa*
Lacroix

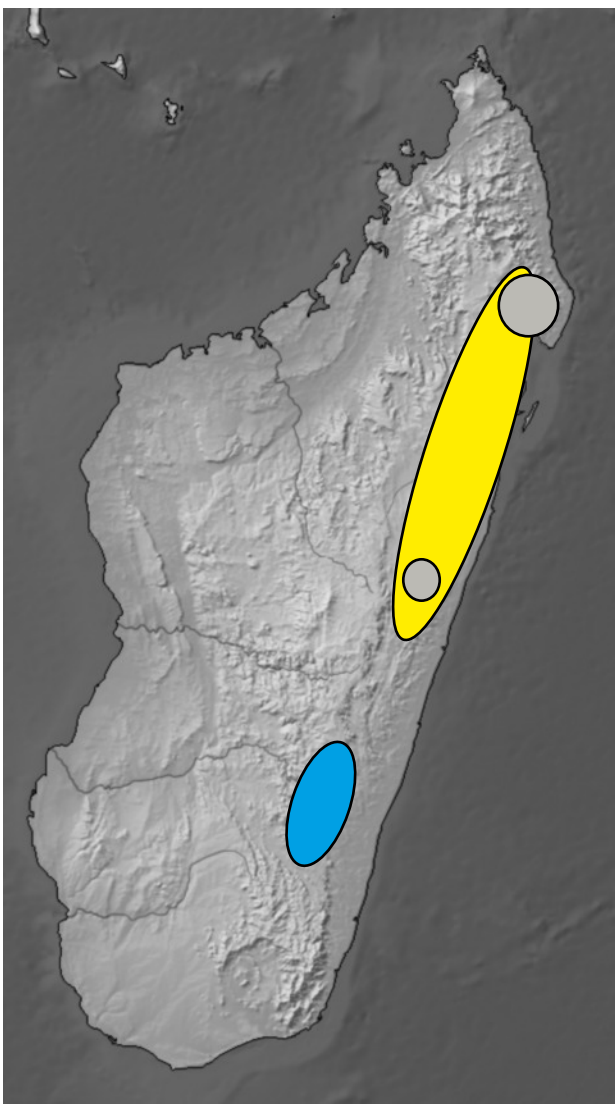
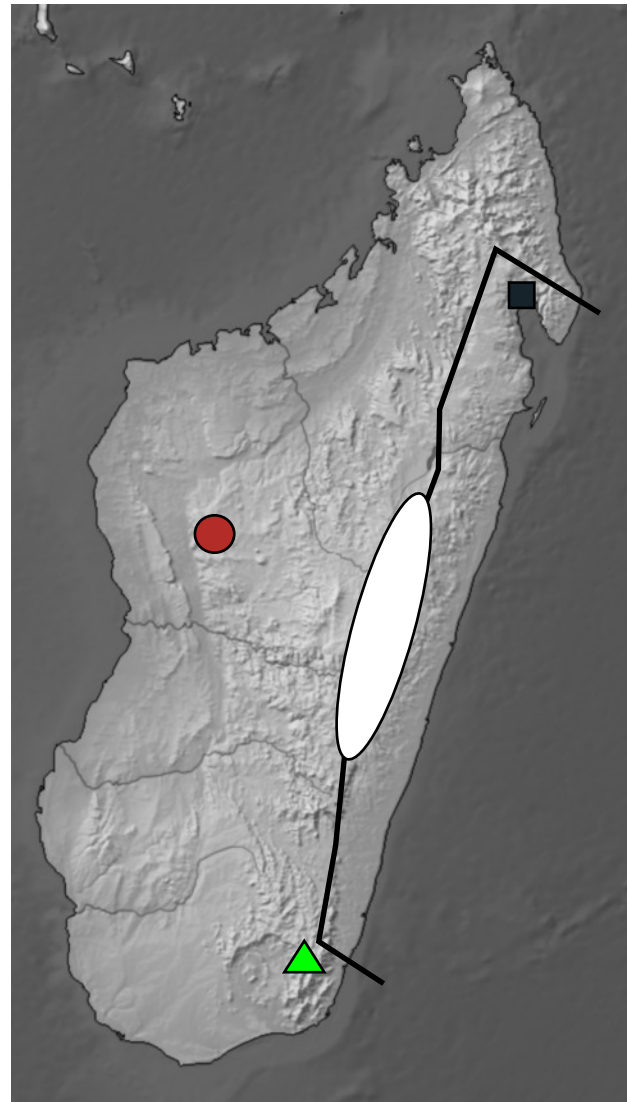


*Bisencya
sogai*
Lacroix

Melolonthidae région malgache

Bisencya
Lacroix

Bisencya
viettei
Lacroix



- lacunosa
- ▲ viettei
- pyriformis
- gutticollis
- invulnerata
- bisignata
- catalai
- sogai

Melolonthidae région malgache

bisignata
(Blanchard)
Lectotype,
femelle
MNHN
29 mm



catalai
(Dewailly)
Holotype
MNHN
19 mm



lacunosa Lacroix
Holotype, MNHN, 22 mm



sogai Lacroix
Holotype, MNHN, 25 mm



viettei Lacroix
Holotype, MNHN, 19 mm

***Bisencya* Lacroix
Types, MNHN**

Melolonthidae région malgache

Globencya
Anthrenia
Anenaria

Globencya
griveaudi
Lacroix

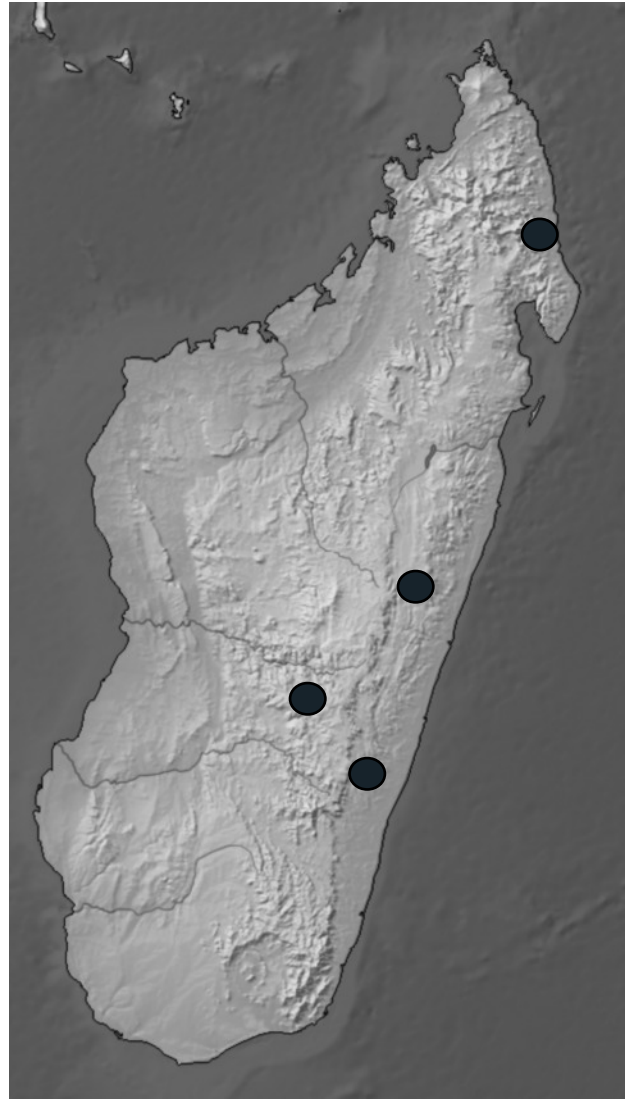


Anenaria
rubiginea
(Dewailly)

Anthrenia
castanipes
(Dewailly)

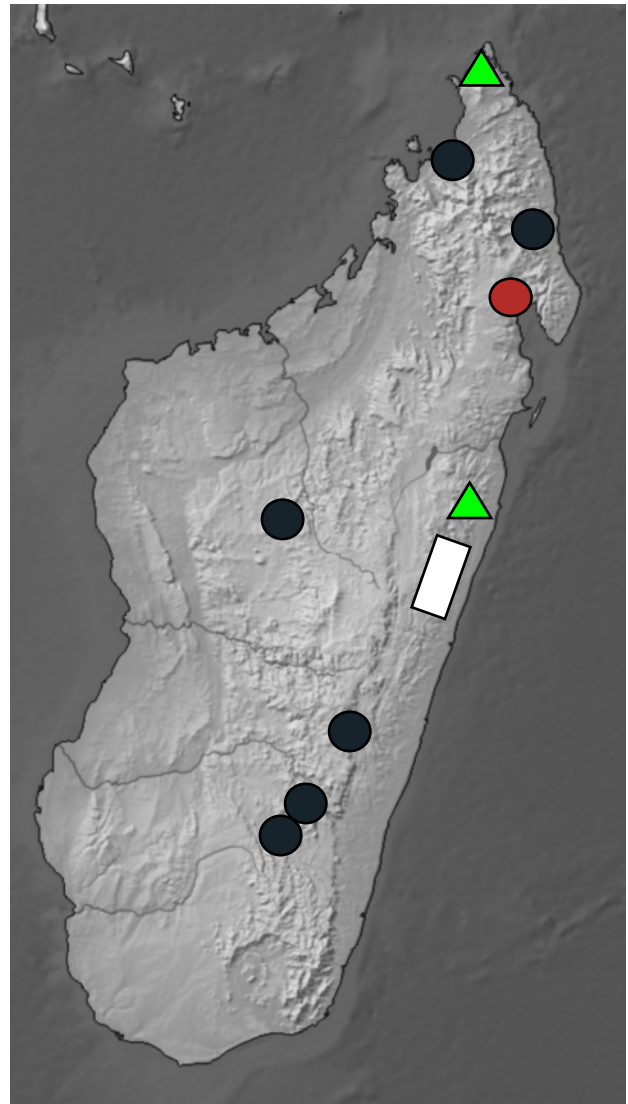
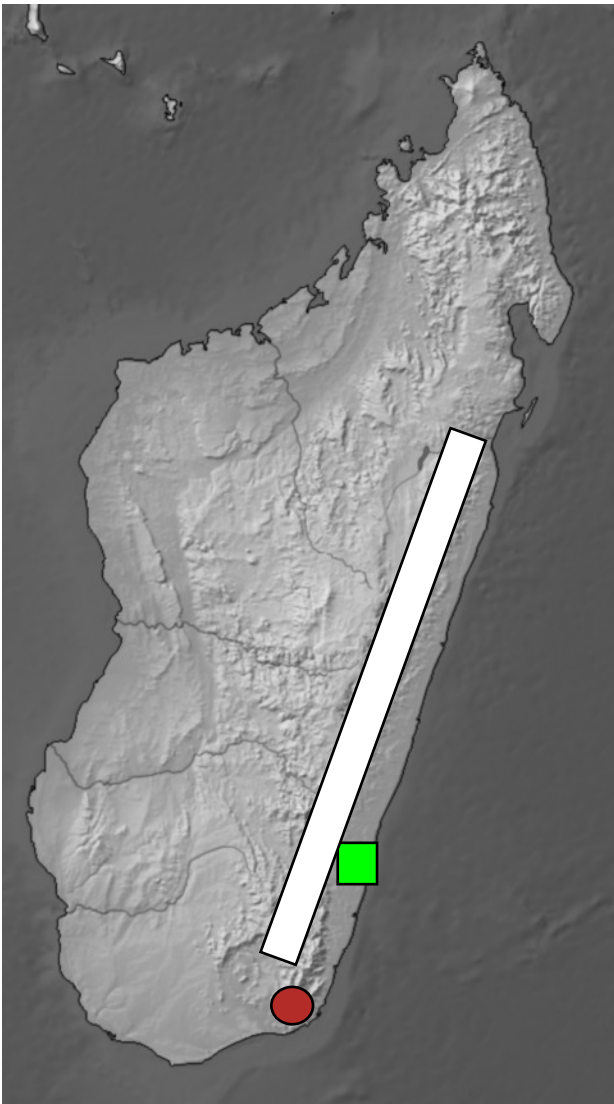


Anthrenia
arrowi
(Dewailly)



Anenaria rubiginea, répartition

Melolonthidae région malgache



Globencya

- griveaudi
- farafanganae
- ▭ cribrata

Anthrenya

- castanipes
- arrowi
- ▲ anthracina
- ▭ lebisi

Melolonthidae région malgache



anthracina (Fairmaire)
Holotype femelle, MNHN, 26 mm



arrowi (Dewailly)
Holotype, MNHN, 14 mm

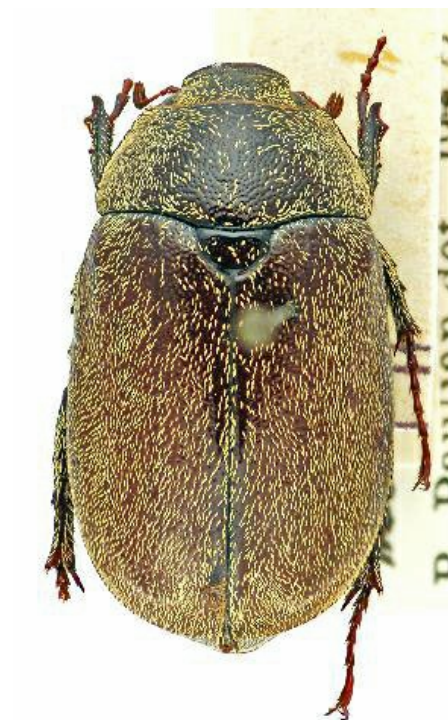


castanipes (Dewailly)
Holotype, MNHN, 21 mm

***Anthrenocya* Lacroix**



Anthrenocya lebisi (Dewailly)
Holotype, MNHN, 16 mm



Comencya mohelica (Paulian)
Holotype, MNHN, 21 mm



Globencya griveaudi Lacroix
Holotype femelle, MNHN, 18 mm

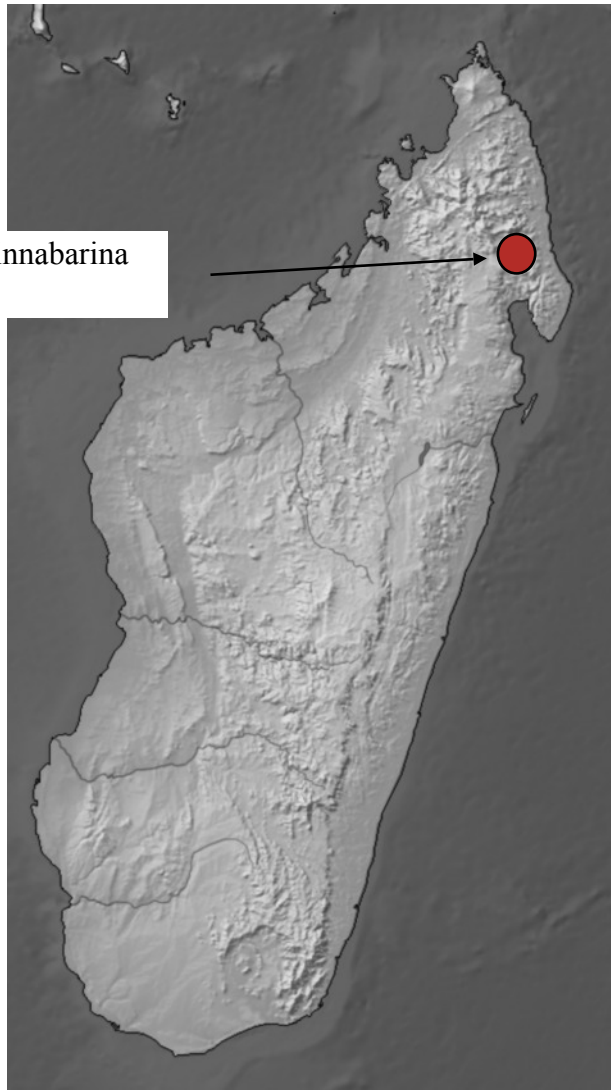
***Anthrenocya*, *Comencya*, *Globencya*
Types, MNHN**

Melolonthidae région malgache

Pseudencya cinnabarina Lacroix
Holotype, MNHN, 19 mm



Pseudencya cinnabarina
Lacroix



Melolonthidae région malgache

Mucrenca
Lacroix



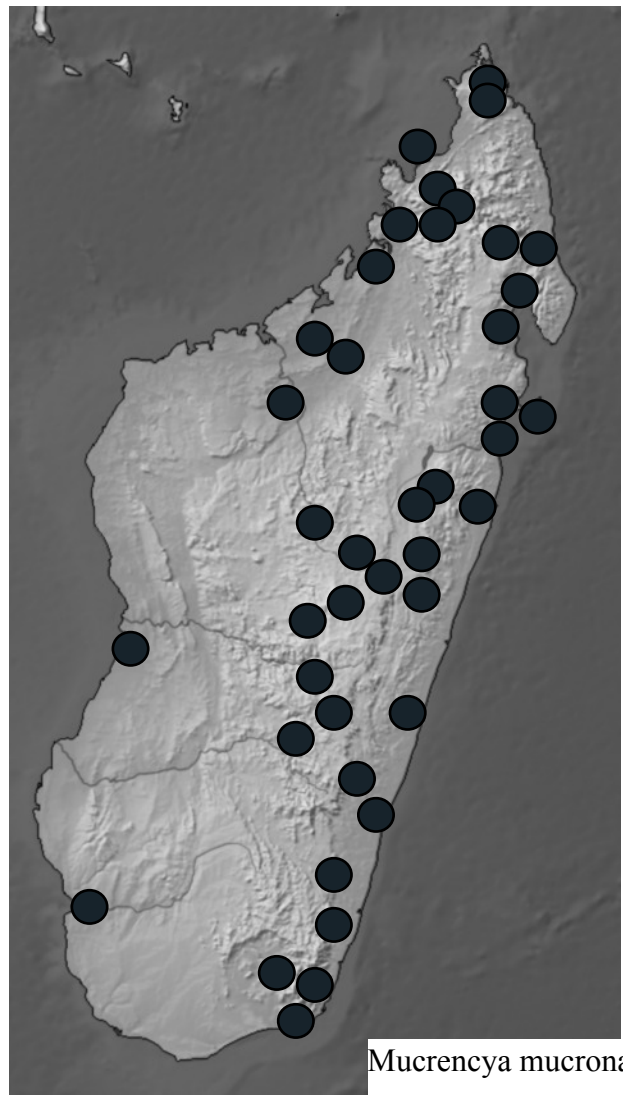
inermis (Fairmaire)
Lectotype, MNHN, 27 mm



Mucrenca
inermis
(Fairmaire)
Grande
Comore



Mucrenca mucronata (Klug)



Mucrenca mucronata

Melolonthidae région malgache

Varencyra
Lacroix

Varencyra
homalophylla
(Dewailly)



Varencyra
intricata
Lacroix

Varencyra
montana
(Moser)



Varencyra
perinetensis
(Dewailly)

Varencyra
picea
Lacroix



Varencyra
varia
(Dewailly)

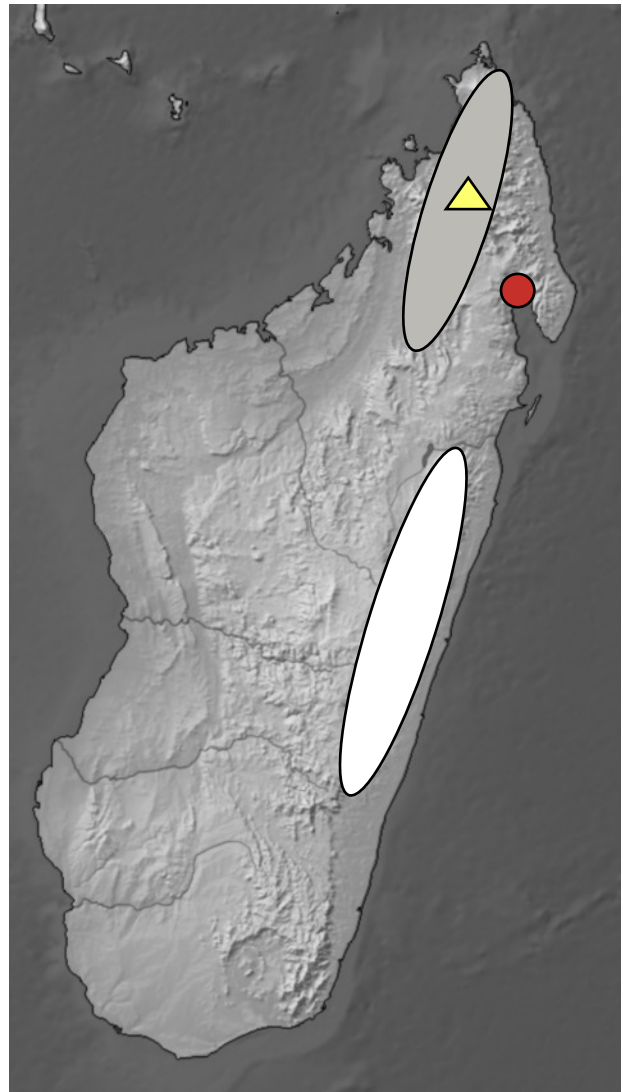
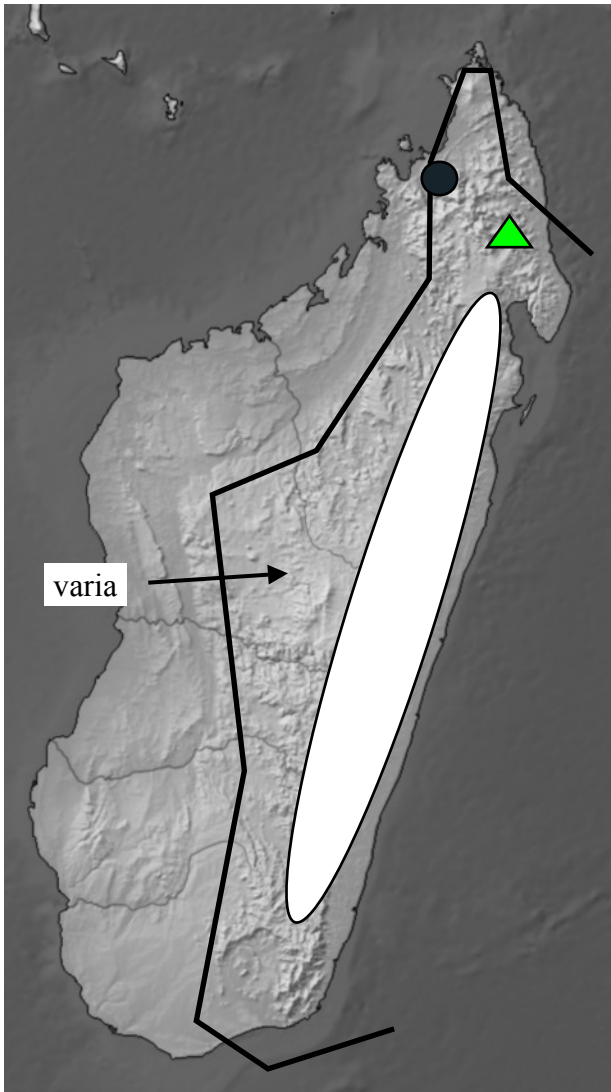
Melolonthidae région malgache

Varencyra
Lacroix

Varencyra
variipennis
(Blanchard)



Varencyra
vittata
Lacroix



- | | | | |
|---|--|---|--|
| — | Répartition du genre | ● | <i>notata</i> , <i>conspersa</i> , <i>mocquersyi</i> , <i>longiclava</i> |
| ▲ | <i>vittata</i> | ▲ | <i>tessellata</i> |
| ● | <i>intricata</i> | ○ | <i>perinetensis</i> |
| | <i>variipennis</i> , <i>homalophylla</i> | ○ | <i>montana</i> |

Melolonthidae région malgache



conspersa Lacroix
Holotype, MNHN, 17 mm



devillei (Dewailly)
Holotype, MNHN, 21 mm



homalophalla (Dewailly)
Holotype, MNHN, 18 mm



intricata Lacroix
Holotype, MNHN, 18 mm



longiclava (Dewailly)
Holotype, MNHN, 16 mm



mocquerysi (Dewailly)
Holotype, MNHN, 12 mm

Varencyia
Types, MNHN

Melolonthidae région malgache



notata Lacroix
Holotype, MNHN, 22 mm



perinetensis (Dewailly)
Holotype, MNHN, 17 mm



picea Lacroix
Holotype, MNHN, 22 mm



tessellata Lacroix
Holotype, MNHN, 23 mm



varia (Dewailly)
Holotype, MNHN, 21 mm



vittata Lacroix
Holotype, MNHN, 21 mm

Varencyia
Types, MNHN

Melolonthidae région malgache

Apicencya
Lacroix

Apicencya
apicalis
(Blanchard)



Apicencya
calva
(Waterhouse)

Apicencya
nuda
Lacroix



Apicencya
pauliani
(Dewailly)

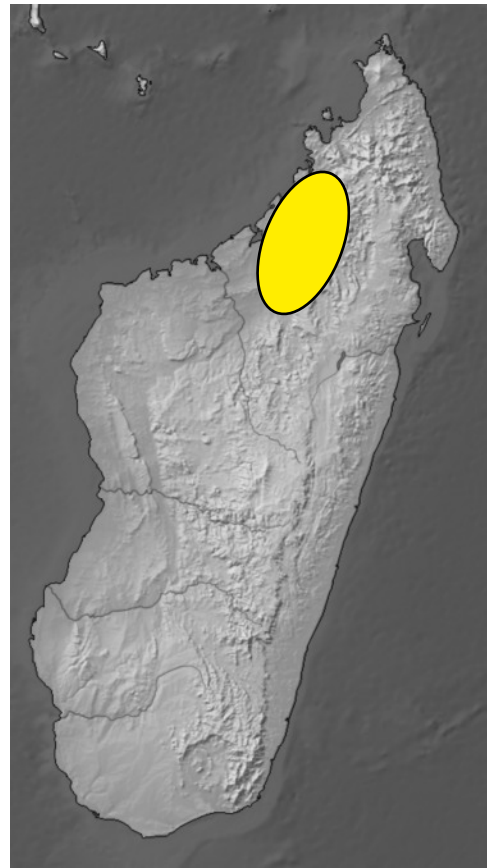
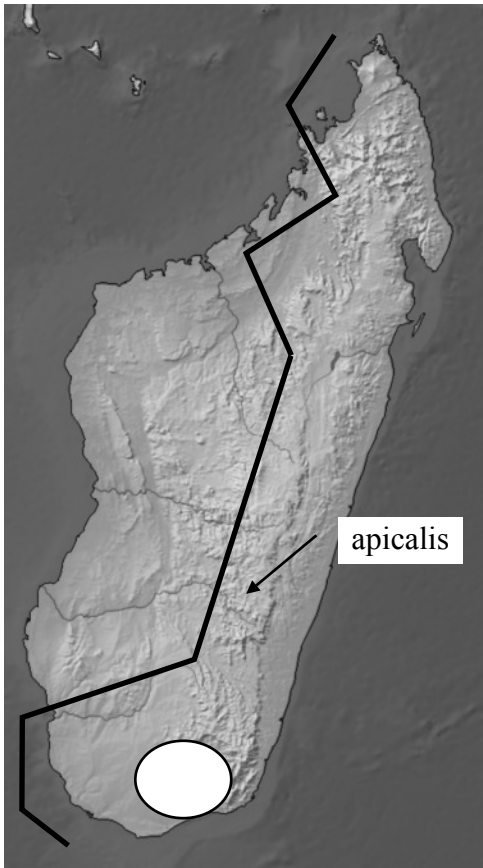
Apicencya
plagulata
(Fairmaire)



Apicencya
speculifera
(Fairmaire)

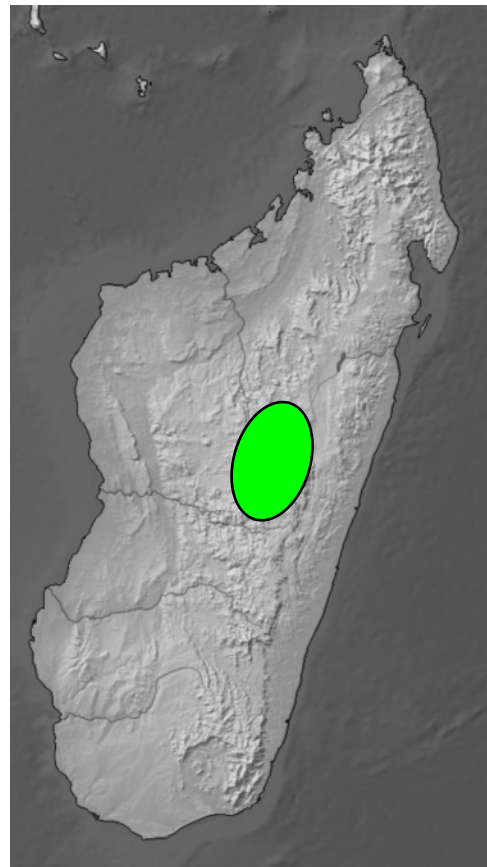
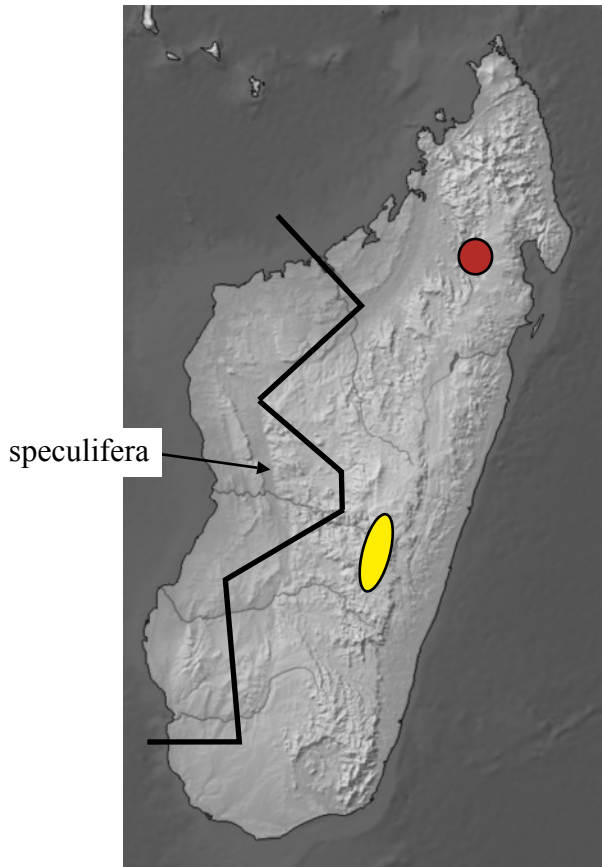
Melolonthidae région malgache

Apicencya
Lacroix



— apicalis
○ plagulata

● parva



● vadoni
● calva

● waterloti

Melolonthidae région malgache



apicalis (Blanchard)
Lectotype, femelle, MNHN,
24 mm



nuda nuda Lacroix
Holotype, MNHN, 16,5 mm



nuda griveaudi Lacroix
Holotype, MNHN, 16 mm



parva Lacroix
Holotype, MNHN, 18 mm



pauliani (Dewailly)
Holotype femelle, MNHN, 20



plagulata (Fairmaire)
Lectotype, MNHN, 16 mm

Apicencya
Types, MNHN

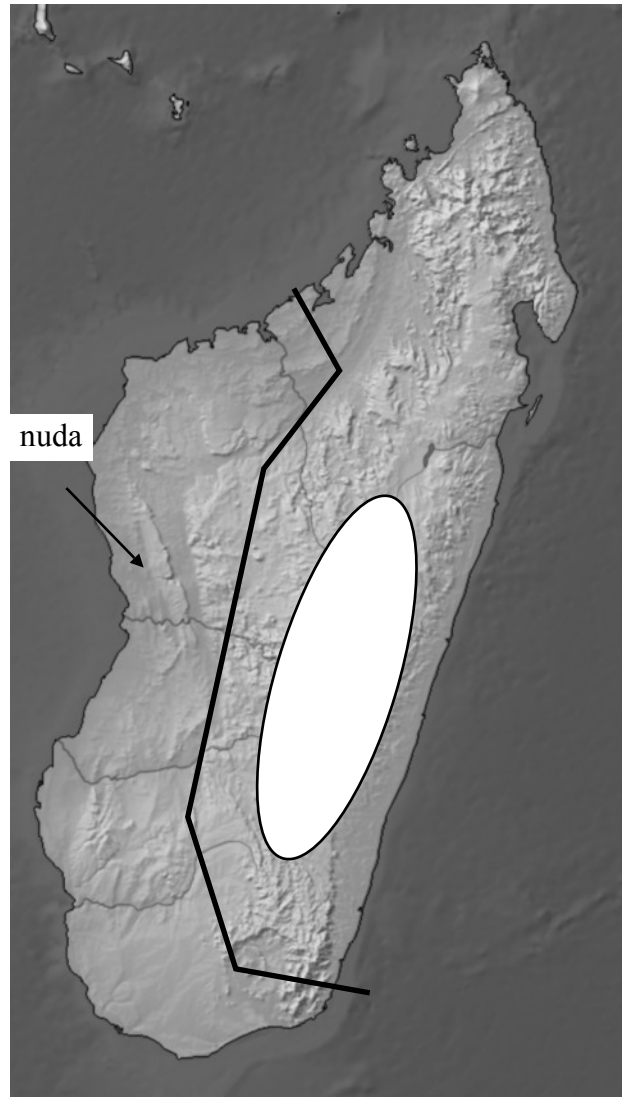
Melolonthidae région malgache



vadoni Lacroix
Holotype, MNHN
15 mm



waterloti
(Dewailly)
Holotype, MNHN
19 mm



— *Apicencya nuda*
○ *pauliani*

***Apicencya*
Lacroix**



Apicencya
waterloti
(Dewailly)

Melolonthidae région malgache

Semienaria
Dewailly



descarpentriesi Dewailly
Holotype, MNHN
9 mm



Semienaria
descarpentriesi
Dewailly



Semienaria descarpentriesi, distribution

Melolonthidae région malgache

*Polyenaria
ciliata*
Dewailly
Holotype
MNHN
9 mm



*Djafouna
fairmairei*
(Dewailly)
Holotype
femelle
MNHN
13 mm



*Ravautiana
jucunda*
Lacroix
Holotype
femelle
MNHN
11 mm



Melolonthidae région malgache



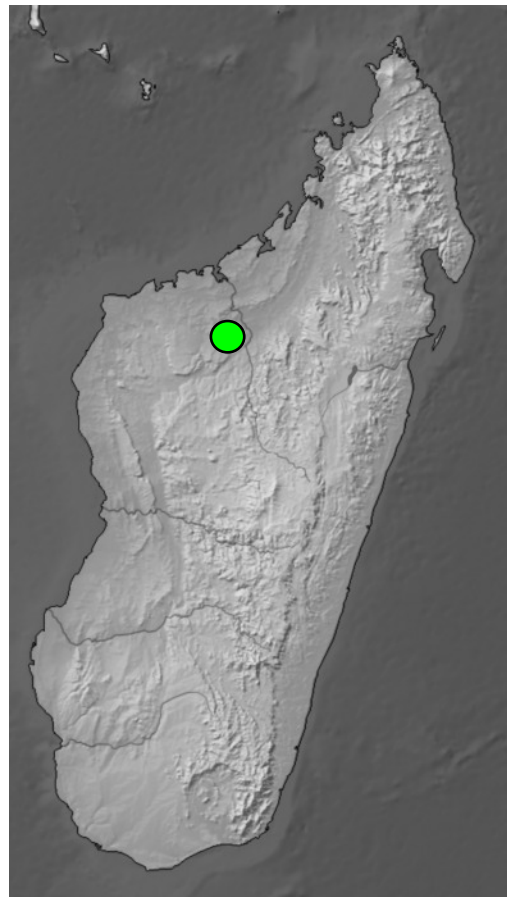
Polyenaria ciliata Dewailly



Ravautiana jucunda Lacroix



Synenaria borealis Lacroix



Djafouna fairmairei (Dewailly)

Melolonthidae région malgache



Machala transversa Lacroix



Lebbea triangularis (Dewailly)

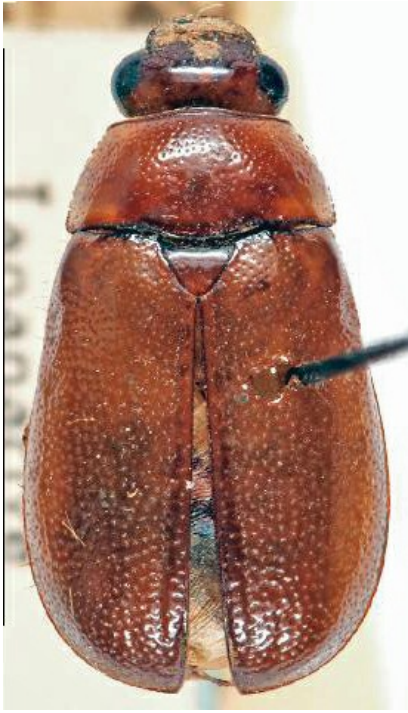


Machala trasnversa Lacroix
Holotype, MNHN, 11 mm



Lebbea triangularis (Dewailly)
Holotype, femelle, MNHN, 22

Melolonthidae région malgache



Pentaphylla gieseckiei Dewailly
Holotype, MNHN, 11 mm



Pentaphylla gieseckiei Dewailly



Melolonthidae région malgache

Enaria
Erichson

*Enaria
ambalavaoensis*
Lacroix



*Enaria
asperula*
Fairmaire

*Enaria
barbieri*
Dewailly



*Enaria
biapicata*
Fairmaire

*Enaria
boissayei*
Dewailly



*Enaria
conspurcata*
(Klug)

Melolonthidae région malgache

Enaria
Erichson

Enaria
hepatica
Lacroix



Enaria
mathiauxi
Dewailly

Enaria
melanictera
(Klug)



Enaria
micantipennis
(Blanchard)



Enaria
pauliani
Lacroix



Enaria
scutellata
Dewailly



Melolonthidae région malgache



alluaudi (Dewailly)
Holotype, MNHN, 12 mm



ambalavaoensis Lacroix
Holotype, MNHN, 12 mm



andriai Lacroix
Holotype, MNHN, 10 mm



androyensis (Dewailly)
Holotype, MNHN, 11,5 mm



antanala Künckel
Lectotype, MNHN, 16 mm



asperula Fairmaire
Lectotype, MNHN, 8 mm



barbieri Dewailly
Holotype f., MNHN, 9 mm
Enaria, Types, MNHN



betiokensis Lacroix
Holotype, MNHN, 10 mm



biapicata Fairmaire
Lectotype f., MNHN, 12 mm

Melolonthidae région malgache



boissayei Dewailly
Holotype, MNHN, 16 mm



cinerea (Blanchard)
Lectotype, MNHN, 11 mm



crassa Fairmaire
Holotype, MNHN, 12 mm



eliei Lacroix
Holotype f., MNHN, 12 mm



fasciaria Lacroix
Holotype f., MNHN, 9,5 mm



grandidieri Dewailly
Holotype, MNHN, 15 mm



granulosa Fairmaire
Lectotype, MNHN, 10 mm



grossepunctata Dewailly
Holotype, MNHN, 10 mm



hepatica Lacroix
Holotype, MNHN, 12 mm

***Enaria*, Types, MNHN**

Melolonthidae région malgache



laeviscutata Fairmaire
Lectotype f., MNHN, 8 mm



limbalis Fairmaire
Lectotype, MNHN, 13 mm



locellata Lacroix
Holotype, MNHN, 14 mm



mathiauxi Dewailly
Holotype, MNHN, 10 mm



micantipennis (Blanchard)
Lectotype f., MNHN, 15 mm



orientalis Lacroix
Holotype, MNHN, 13 mm



pauliani Lacroix
Holotype, MNHN, 12 mm



perrieri Dewailly
Holotype, MNHN, 11 mm



reticulata Lacroix
Holotype, MNHN, 13 mm

***Enaria*, Types, MNHN**

Melolonthidae région malgache



scapulata Fairmaire
Lectotype f., MNHN, 11 mm



scutellata Dewailly
Holotype, MNHN, 11 mm



seyrigi Dewailly
Holotype, MNHN, 9 mm



speculifera Fairmaire
Lectotype, MNHN, 12 mm



squamata Lacroix
Holotype, MNHN, 12 mm

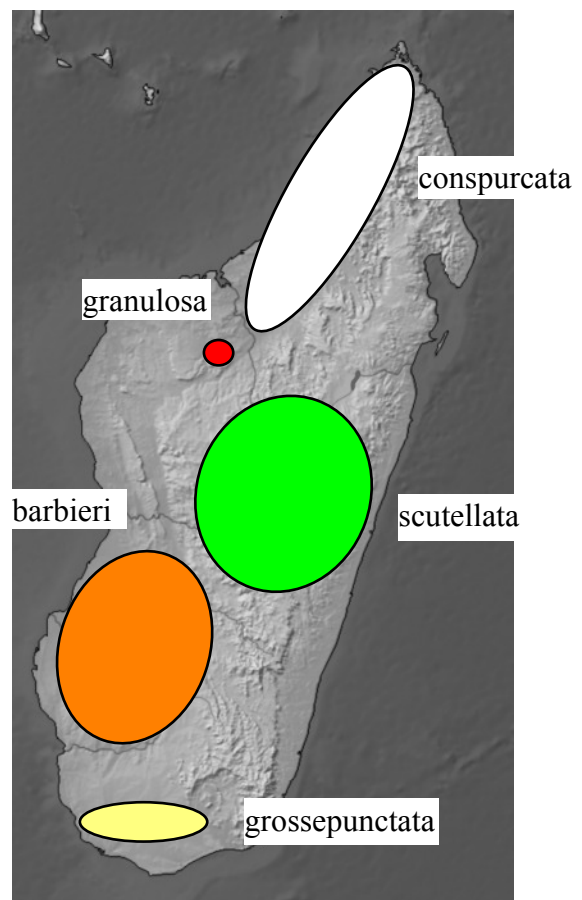
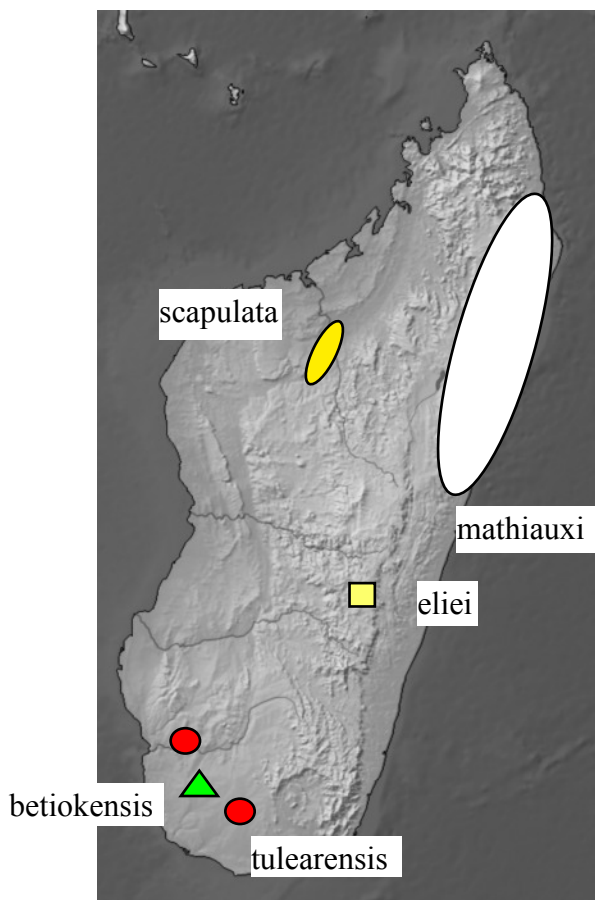
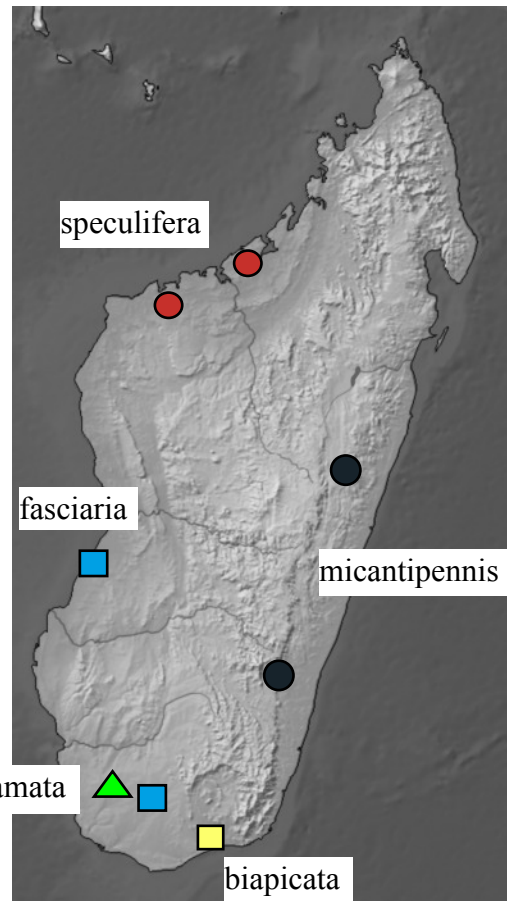
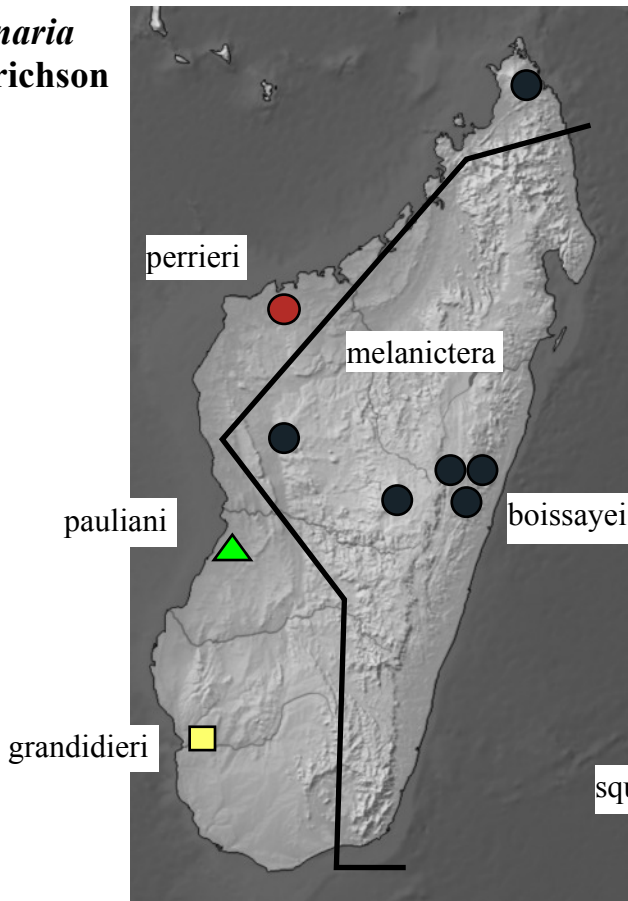


tulearensis Dewailly
Lectotype, MNHN, 9,5 mm

***Enaria*, Types, MNHN**

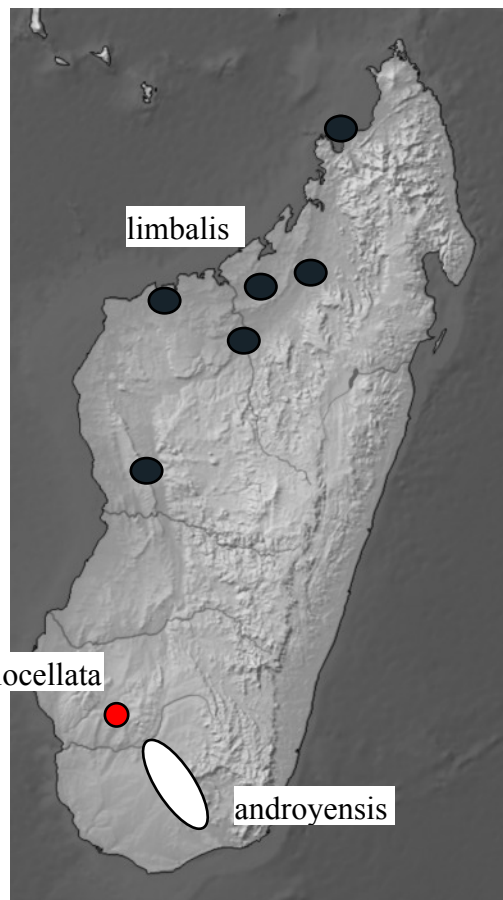
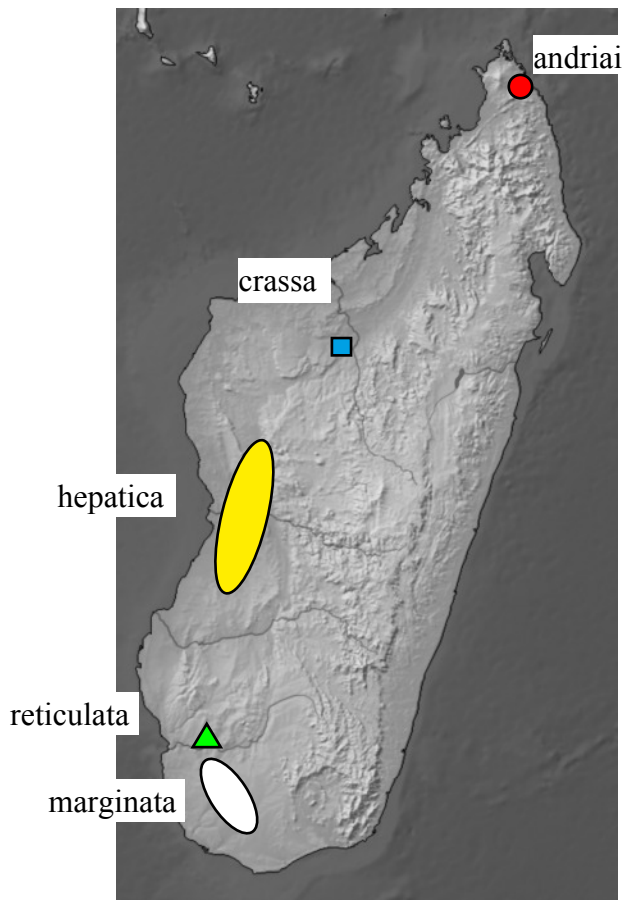
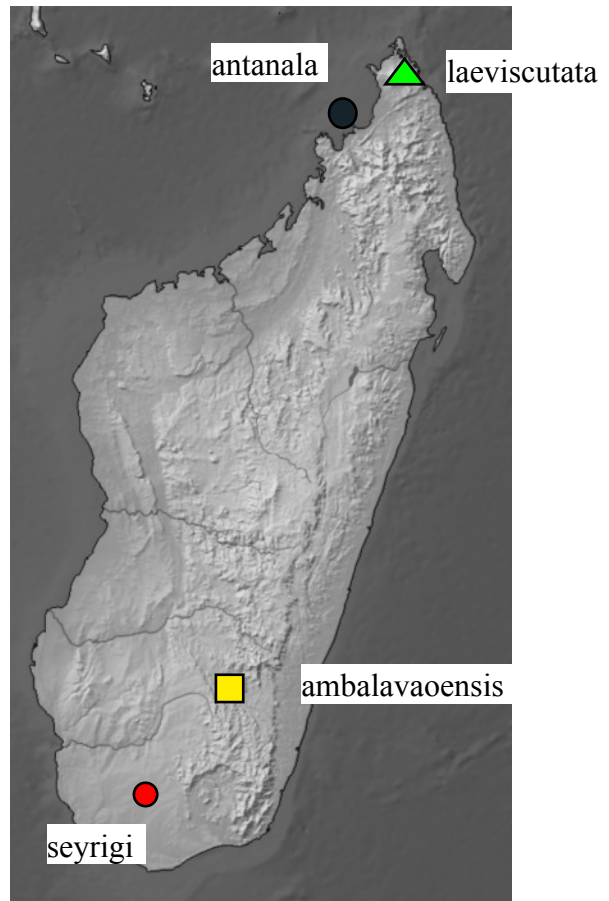
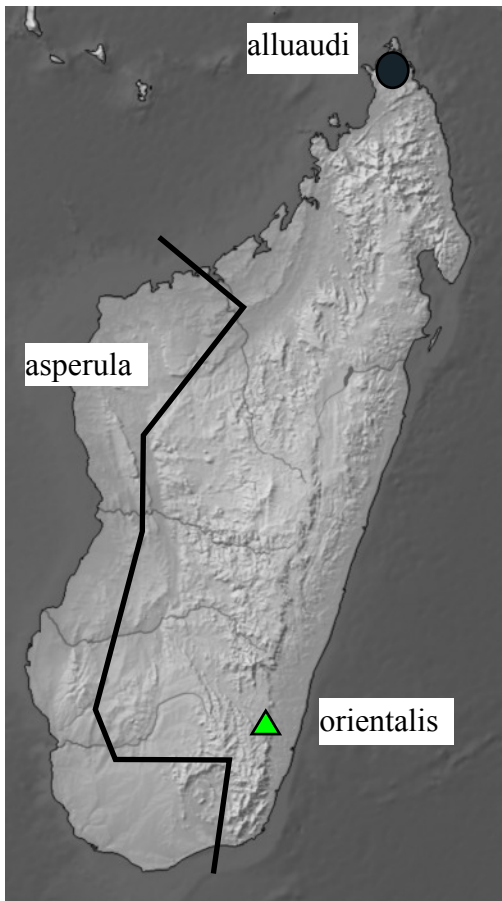
Melolonthidae région malgache

Enaria
Erichson



Melolonthidae région malgache

Enaria Erichson



Melolonthidae région malgache

Cherbezatina
Lacroix



Cherbezatina
bicolor
Lacroix

Cherbezatina
depressiuscula
(Waterhouse)

Cherbezatina
fanovanensis
Lacroix



Cherbezatina
ferruginea
Lacroix

Cherbezatina
fuliginosa
Lacroix



Cherbezatina
integra
Lacroix

Melolonthidae région malgache

Cherbezatina
Lacroix

Cherbezatina
livens
(Dewailly)



Cherbezatina
maculata
Lacroix

Cherbezatina
margiciliata
Lacroix

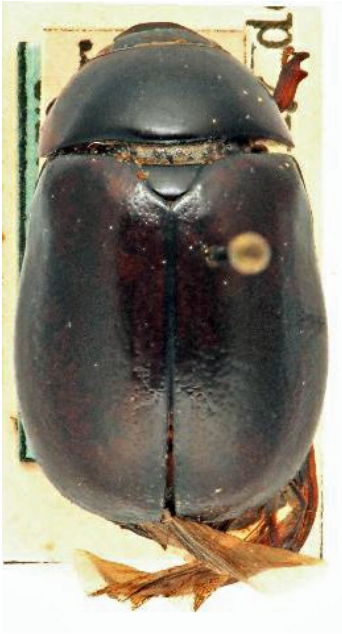


Cherbezatina
marmorata
Lacroix



Cherbezatina
strigosa
Lacroix

Melolonthidae région malgache



alluaudi (Dewailly)
Holotype, MNHN, 14 mm



andriai Lacroix
Holotype, MNHN, 13 mm



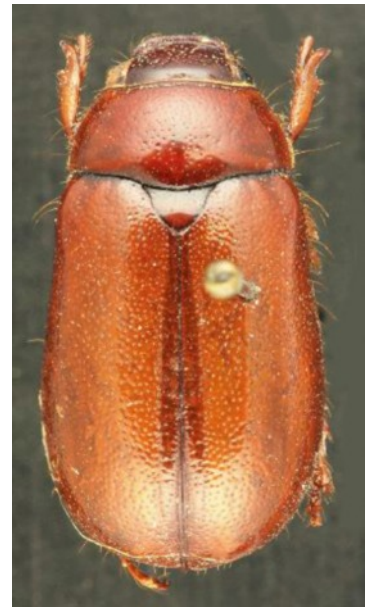
apposita Lacroix
Holotype f., MNHN, 12 mm



bicolor Lacroix
Holotype, MNHN, 17 mm



dilutipes (Dewailly)
Holotype, MNHN, 14,5 mm



fanovanensis Lacroix
Holotype, MNHN, 16 mm

Cherbezatina
Types, MNHN

Melolonthidae région malgache



ferruginea Lacroix
Holotype, MNHN, 17 mm



fuliginosa Lacroix
Holotype, MNHN, 15 mm



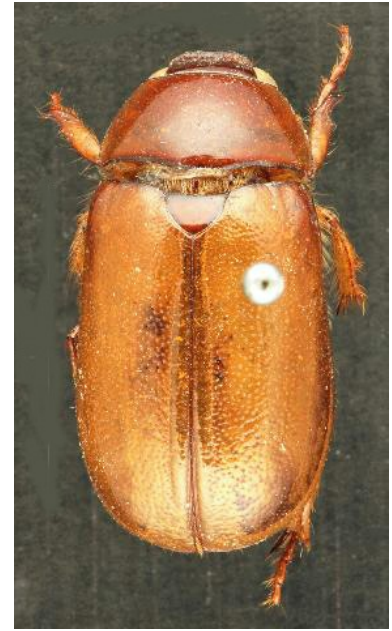
integra Lacroix
Holotype, MNHN, 17 mm



kalalaoensis Lacroix
Holotype, MNHN, 13 mm



laevis Lacroix
Holotype, MNHN, 15 mm



livens (Dewailly)
Holotype, MNHN, 16 mm

Cherbezatina
Types, MNHN

Melolonthidae région malgache



maculata Lacroix
Holotype, MNHN, 13 mm



mandarina Lacroix
Holotype, MNHN, 13 mm



margiliata Lacroix
Holotype, MNHN, 15 mm



marmorata Lacroix
Holotype, MNHN, 13 mm



meridiana Lacroix
Holotype, MNHN, 18 mm



micropunctata Lacroix
Holotype f., MNHN, 17 mm

Cherbezatina
Types, MNHN

Melolonthidae région malgache



oblongula (Fairmaire)
Lectotype f., MNHN, 14 mm



parallela (Dewailly)
Holotype, MNHN, 14 mm



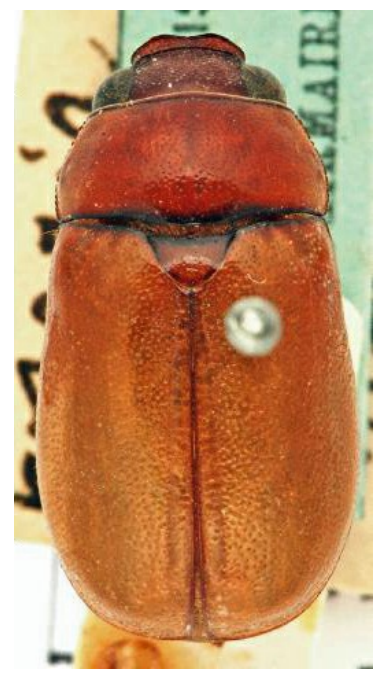
pierroni (Dewailly)
Holotype f., MNHN, 14 mm



pilosa Lacroix
Holotype f., MNHN, 21 mm



pinguis (Fairmaire)
Lectotype, MNHN, 16 mm



rufifulva (Fairmaire)
Lectotype, MNHN, 13 mm

Cherbezatina
Types, MNHN

Melolonthidae région malgache



scrobiculata Lacroix
Holotype, MNHN, 14 mm



setigera (Dewailly)
Holotype f., MNHN, 12 mm



spadicea Lacroix
Holotype, MNHN, 14 mm



squamulosa Lacroix
Holotype, MNHN, 16 mm



strigosa Lacroix
Holotype, MNHN, 16 mm

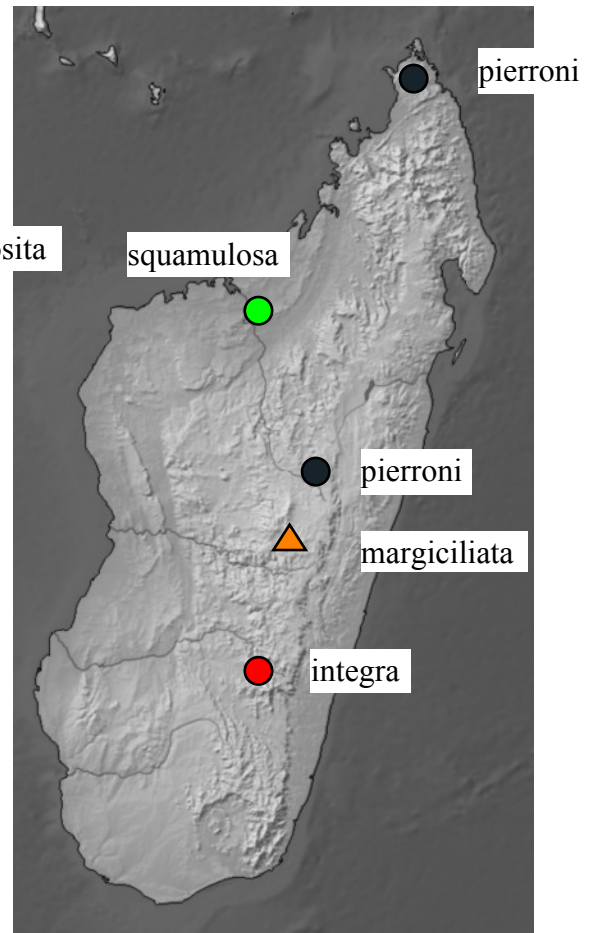
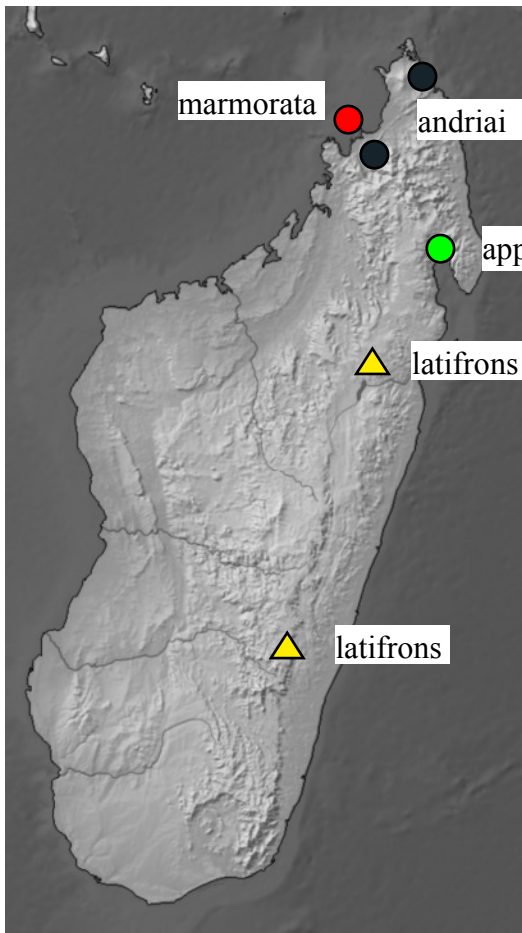
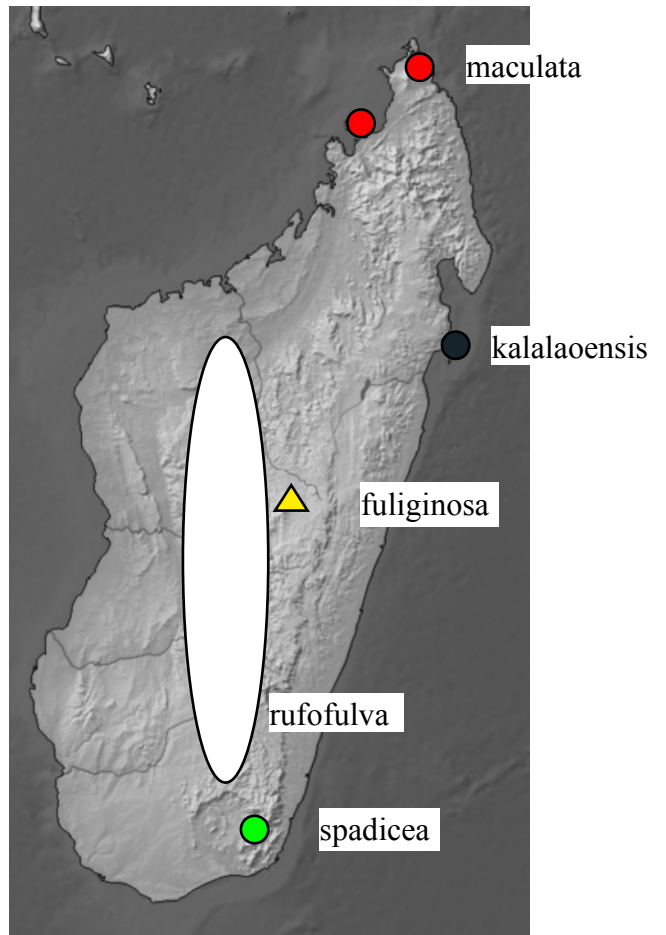
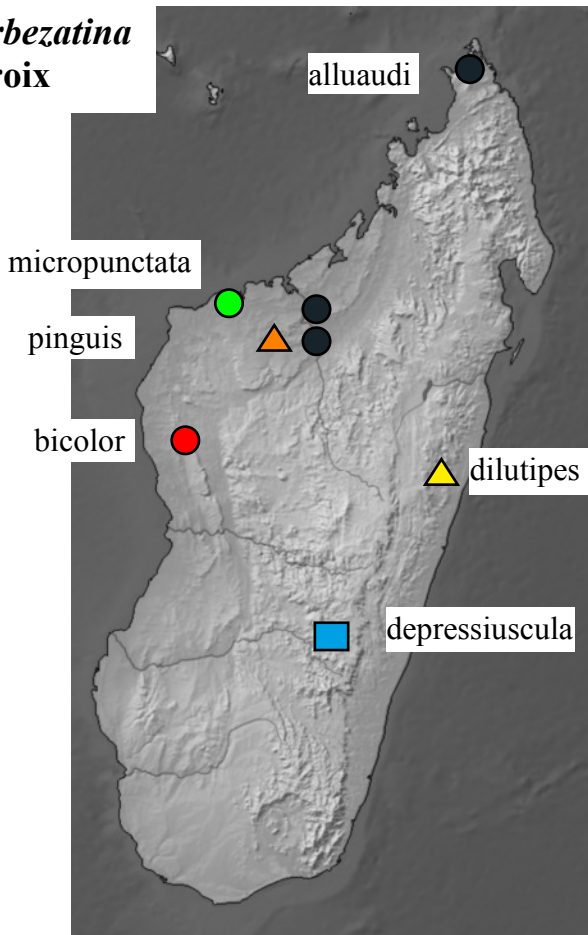


viossati Lacroix
Holotype, MNHN, 19 mm

Cherbezatina
Types, MNHN

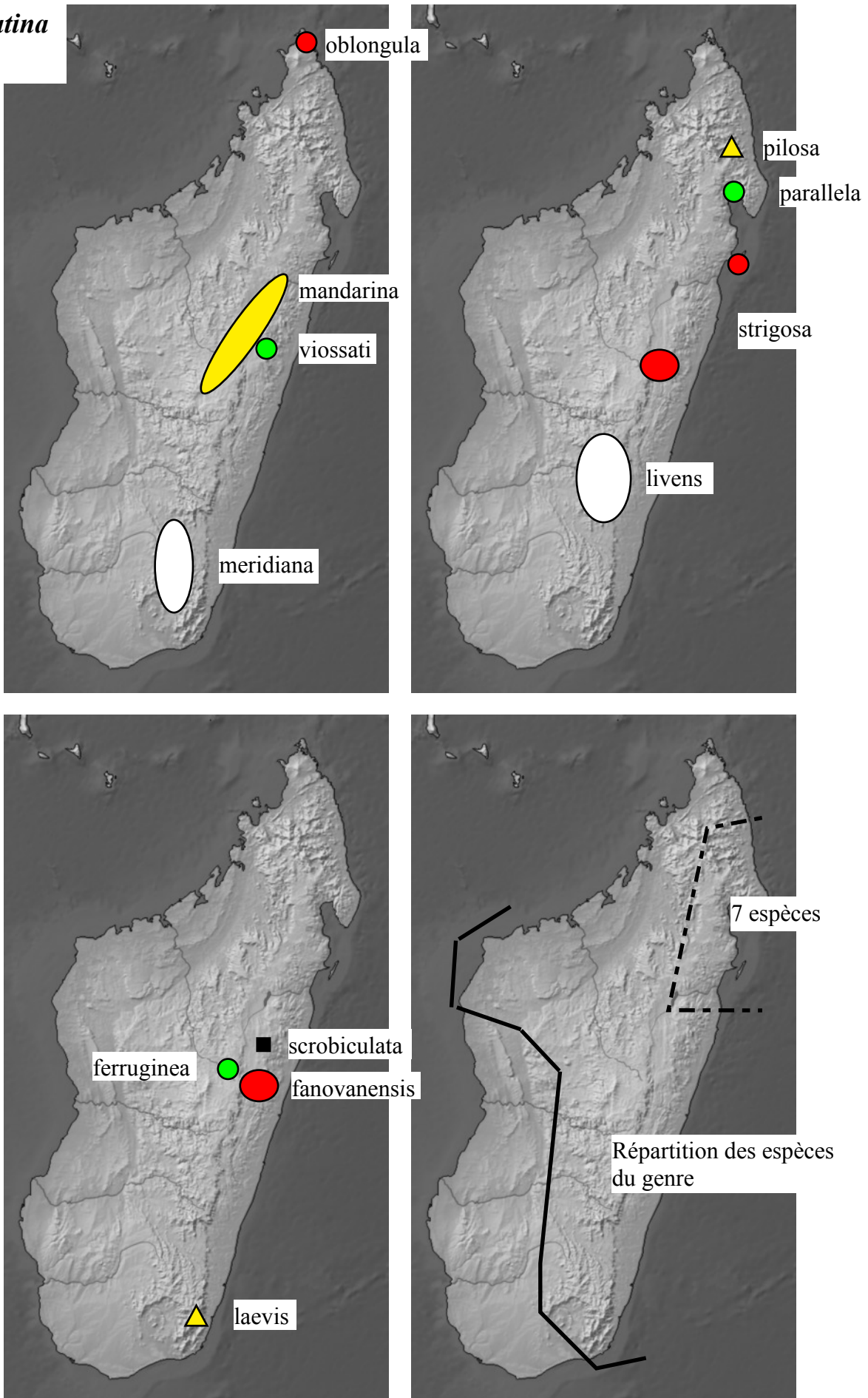
Melolonthidae région malgache

Cherbezatina
Lacroix



Melolonthidae région malgache

Cherbezatina
Lacroix



Melolonthidae région malgache

Pseudenaria
Fairmaire



Pseudenaria ornatipennis
(Blanchard)



Pseudenaria maculata
(Moser)



Pseudenaria sogai
Lacroix



Pseudenaria unguicularis
(Moser)



Pseudenaria vadoni
Lacroix



Pseudenaria fairmairei
(Dewailly)

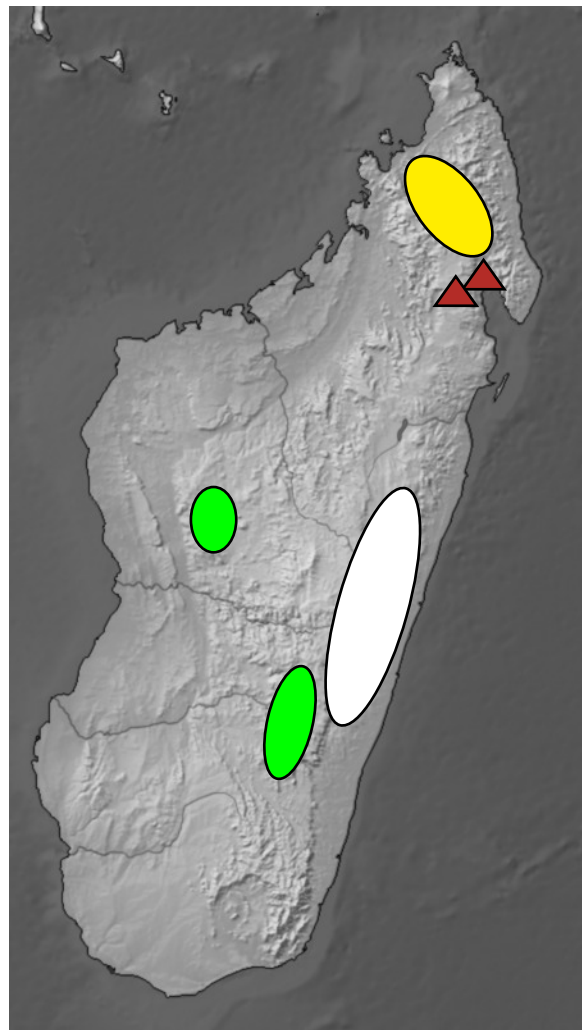
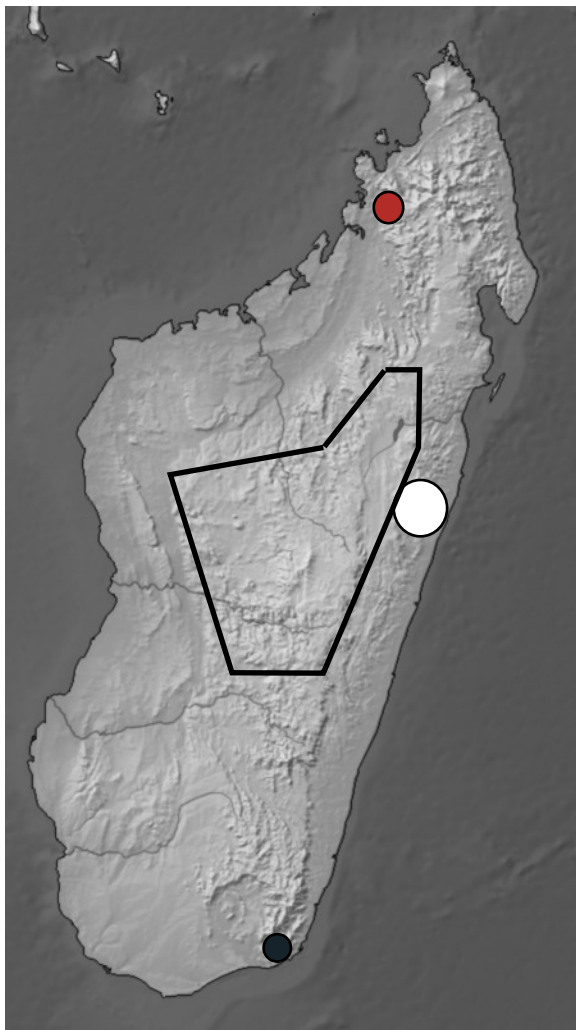
Melolonthidae région malgache

Pseudenaria
Fairmaire

Pseudenaria
bidens
Lacroix



Pseudenaria
catalai
(Dewailly)



● bidens
○ vadoni

— maculata
● fairmairei

● sogai
○ catalai

● unguicularis
▲ ornatipennis

Melolonthidae région malgache



bidens Lacroix
Holotype, MNHN, 15 mm



catalai (Dewailly)
Lectotype, MNHN, 16 mm



fairmairei
(Dewailly)
Holotype,
MNHN,
15 mm



sogai
Lacroix
Holotype,
MNHN,
17 mm



hexaphylla Fairmaire
Lectotype, MNHN, 15 mm
= *ornatipennis*



ornatipennis (Blanchard)
Lectotype f., MNHN, 17 mm



vadoni
Lacroix
Holotype,
MNHN,
16 mm

Pseudenaria
Types, MNHN

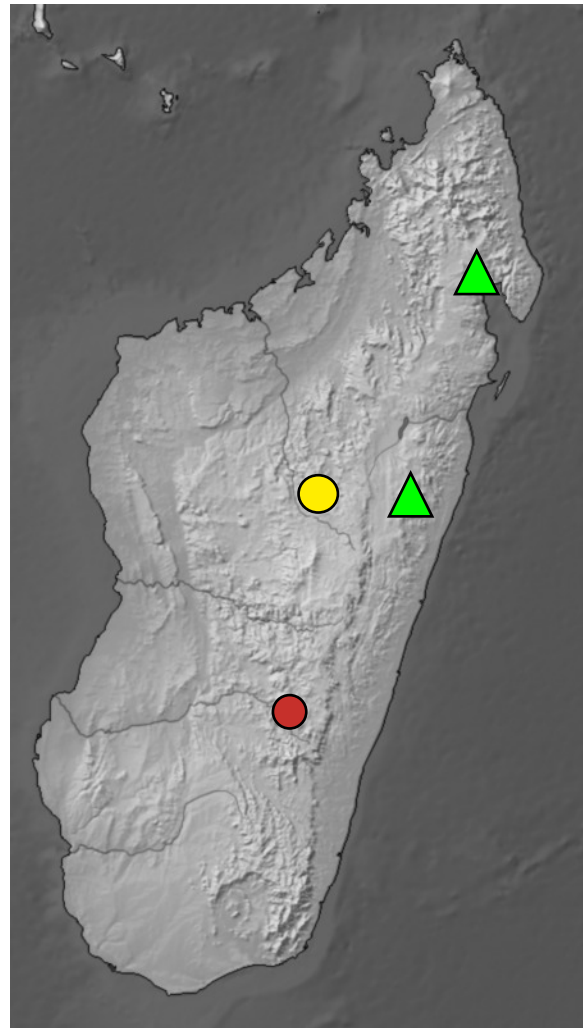
Melolonthidae région malgache

Vadonaria
Dewailly

Vadonaria
ambreensis
(Dewailly)



Vadonaria
guilhoni
Dewailly



● ambreensis
○ guilhoni

▲ caliginosa ● variegata
● maxima

Melolonthidae région malgache



ambreensis (Dewailly)
Holotype f., MNHN, 15 mm



caliginosa Lacroix
Holotype, MNHN, 13,5 mm



guilhoni Dewailly
Holotype, MNHN, 13 mm



maxima Lacroix
Holotype, MNHN, 17 mm

Vadonaria
Types MNHN

Melolonthidae région malgache

Renaudiana
Lacroix

Renaudiana
guttata
Lacroix
Holotype,
MNHN
14 mm



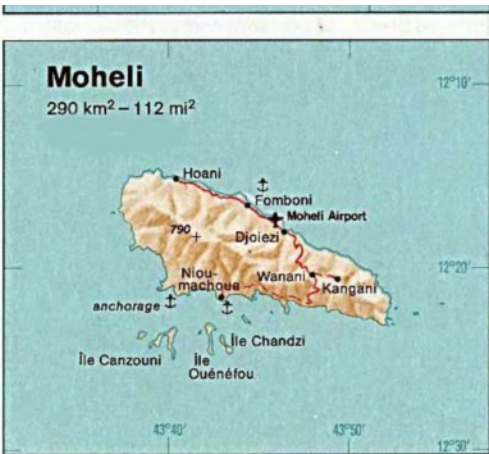
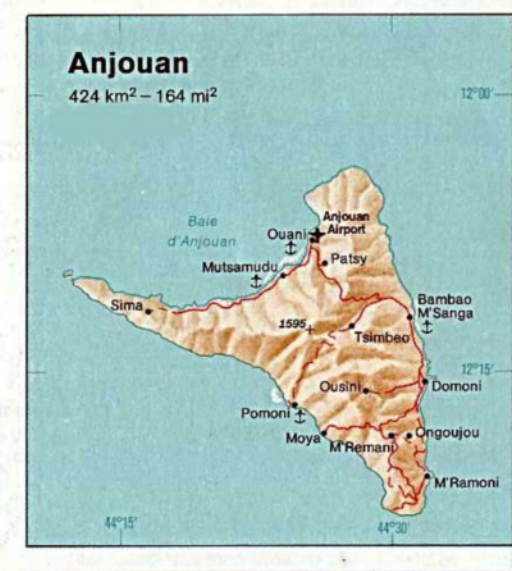
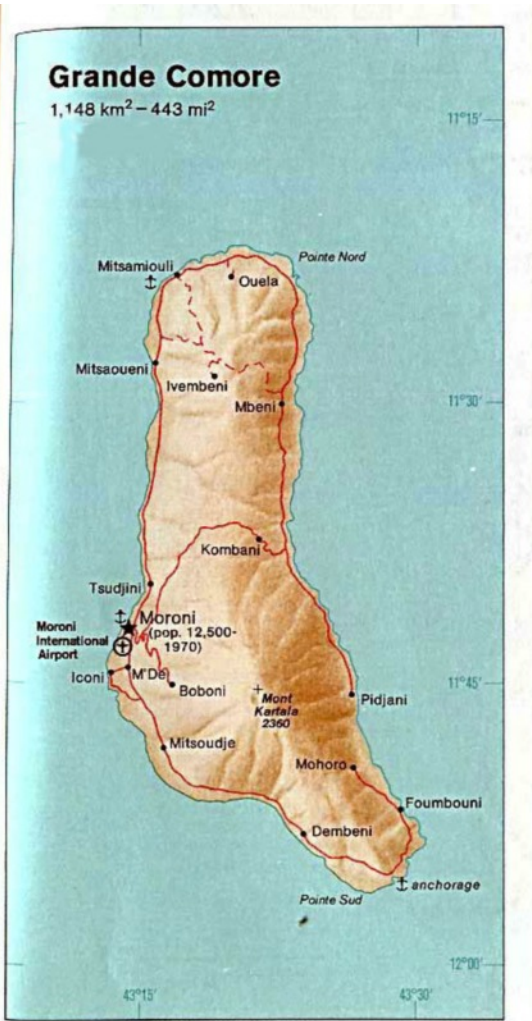
Renaudiana
ranomandriensis
Lacroix
Holotype,
MNHN
14 mm



Distribution du genre *Renaudiana*

Chaînes Anosyennes,
massif nord
moyenne Ranomandry

Melolonthidae région malgache



Archipel des Comores

Melolonthidae région malgache

Comores

Comencya mohelica
(Paulian)



Mayataia griveaudi
(Paulian)



Djadjoua viettei
Lacroix



Djadjoua viossati
Lacroix



Komrina villosa
Lacroix



Melolonthidae région malgache

Comores
Joziratia

*Joziratia
mayottensis*
(Dewailly)



*Joziratia
breviclava*
Lacroix



*Joziratia
pamanzii*
(Paulian)



*Joziratia
andriai*
(Paulian)



*Joziratia
desruisseauxi*
Lacroix



Melolonthidae région malgache



Humblotania brevitarsis Lacroix
Holotype f., MNHN, 14,5 mm



Komrina villosa Lacroix
Holotype, MNHN, 10 mm



Mayataia griveaudi (Paulian)
Holotype, MNHN, 15 mm



Djadjoua viettei Lacroix
Holotype, MNHN, 15 mm



Djadjoua viossati Lacroix
Holotype, MNHN, 12,5 mm

Comores
Types, MNHN

Melolonthidae région malgache



andriai (Paulian)
Holotype, MNHN, 12 mm



anjouanae (Paulian)
Holotype, MNHN, 16 mm



breviclava Lacroix
Holotype, MNHN, 14 mm



cinnamomea Lacroix
Holotype f., MNHN, 13 mm



desruisseauxi Lacroix
Holotype, MNHN, 12 mm



longiclava Lacroix
Holotype, MNHN, 13 mm



mayottensis (Dewailly)
Holotype, MNHN, 12 mm



pamanzii (Paulian)
Holotype, MNHN, 11 mm

Joziratia
Types, MNHN

Melolonthidae région malgache

Melolonthinae des Comores

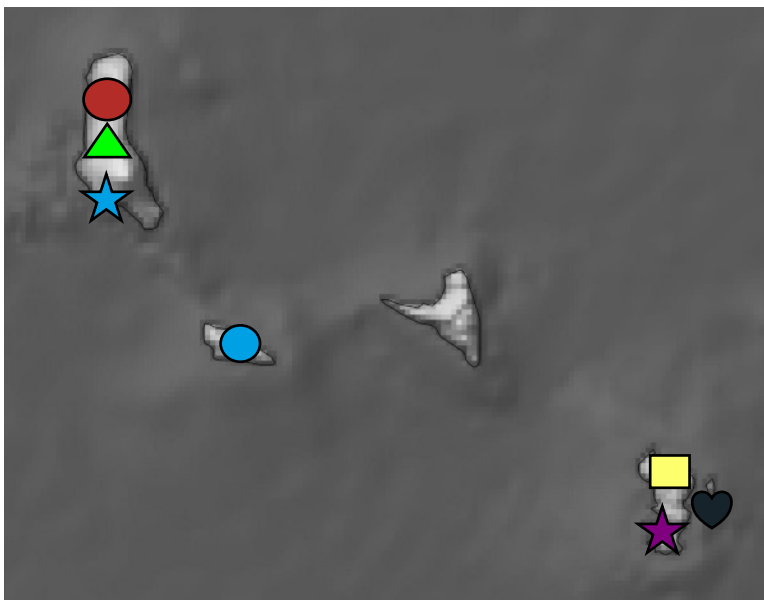
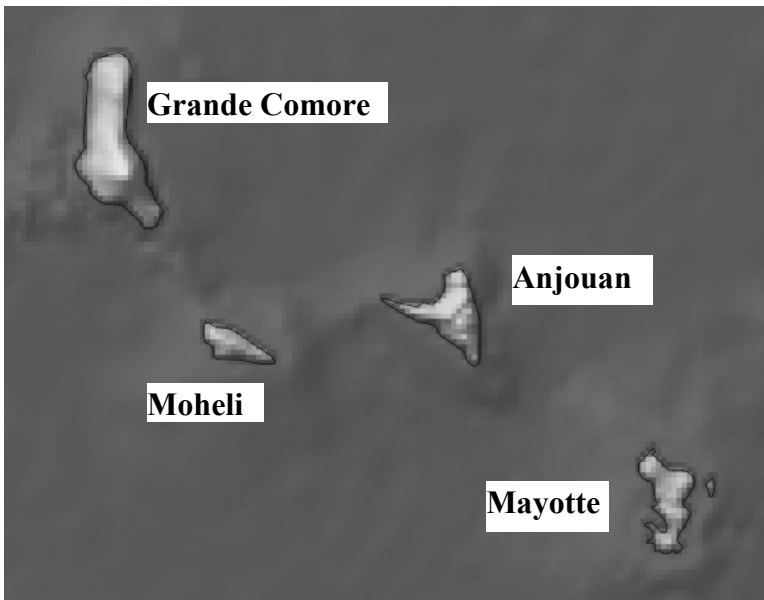
Nombre d'espèces (16)

Grande Comore : 5

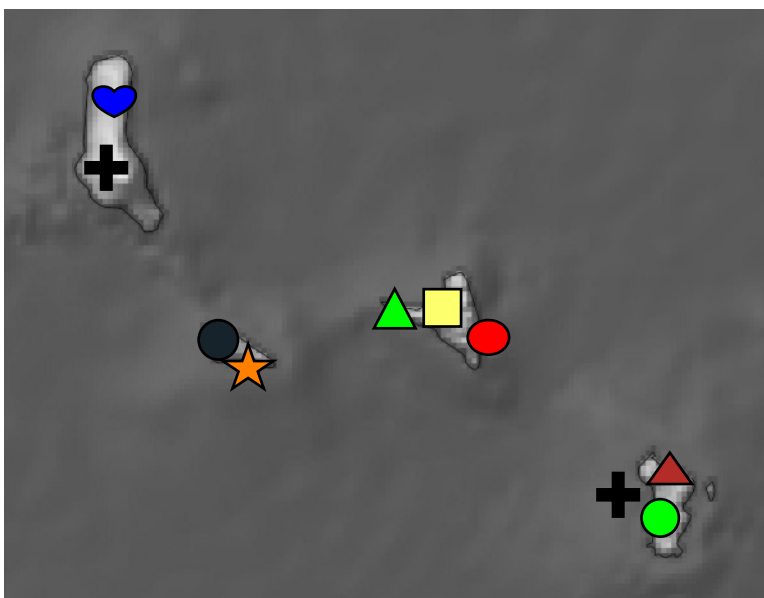
Moheli : 3

Anjouan : 3

Mayotte : 6

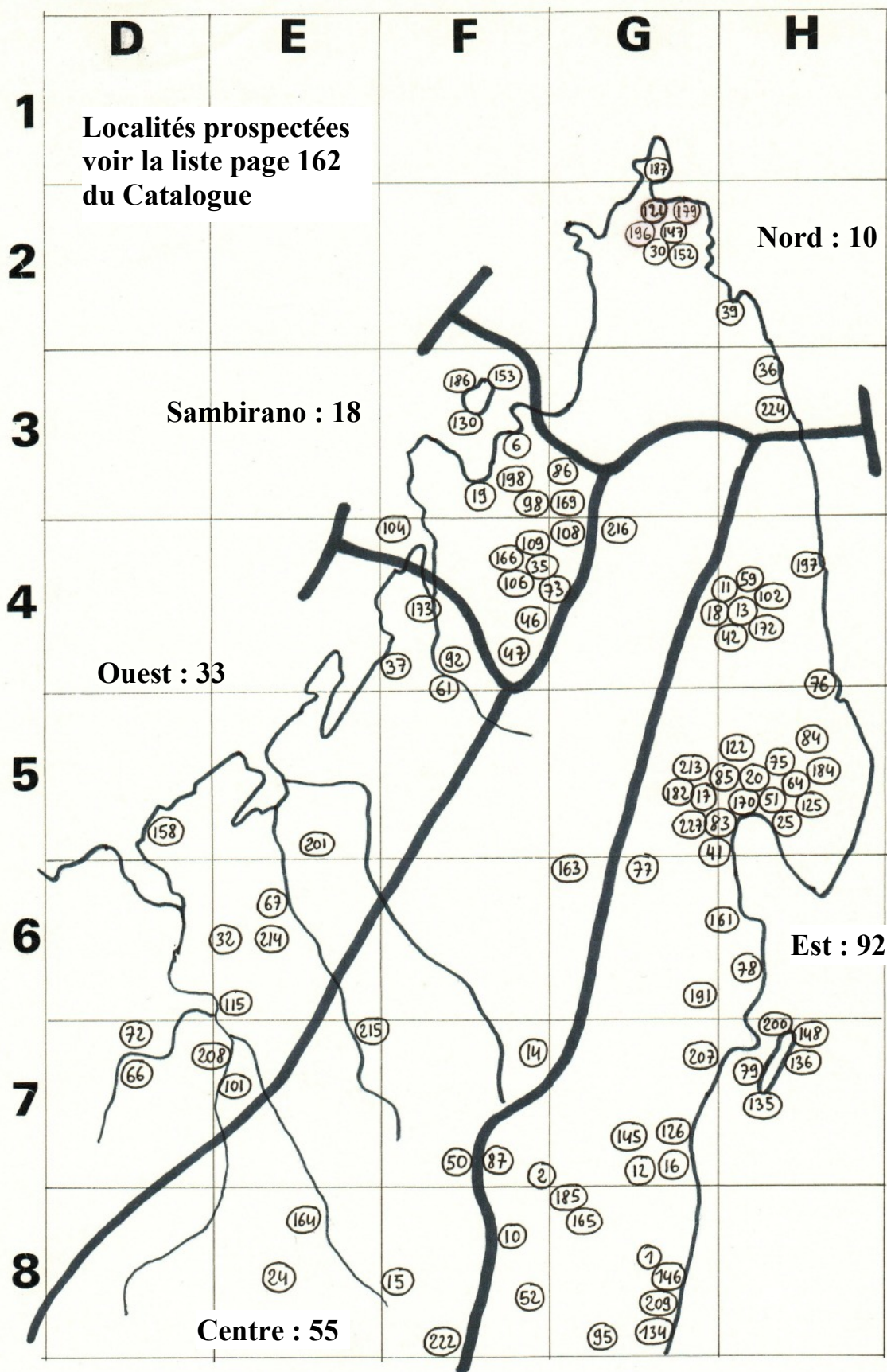


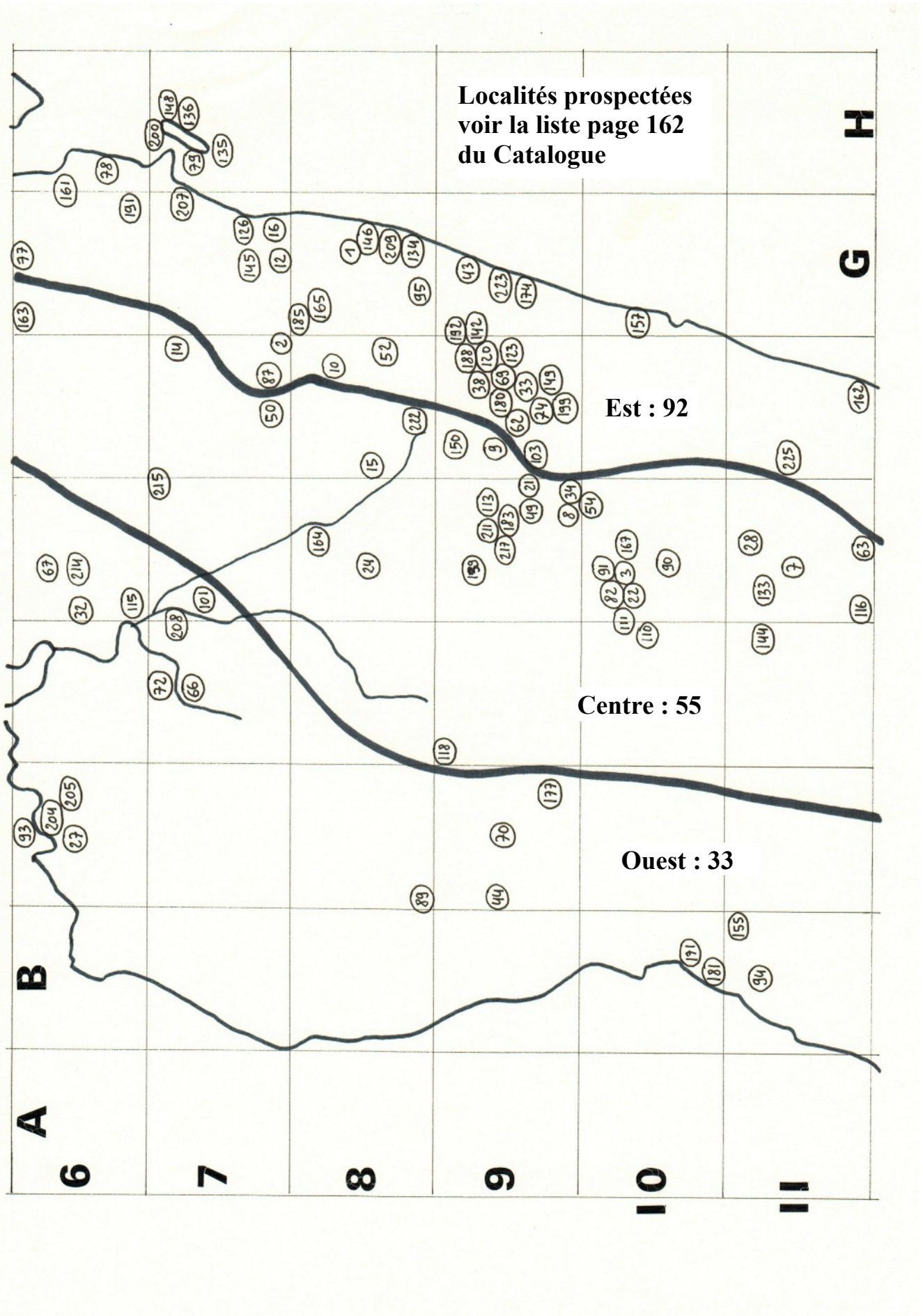
- *Mucencya inermis*
- ▲ *Humblotania brevitarsis*
- *Mayataia griveaudi*
- ★ *Djadjoua viettei*
- ★ *Djadjoua viossati*
- ♥ *Komrina villosa*
- *Comencya mohelica*

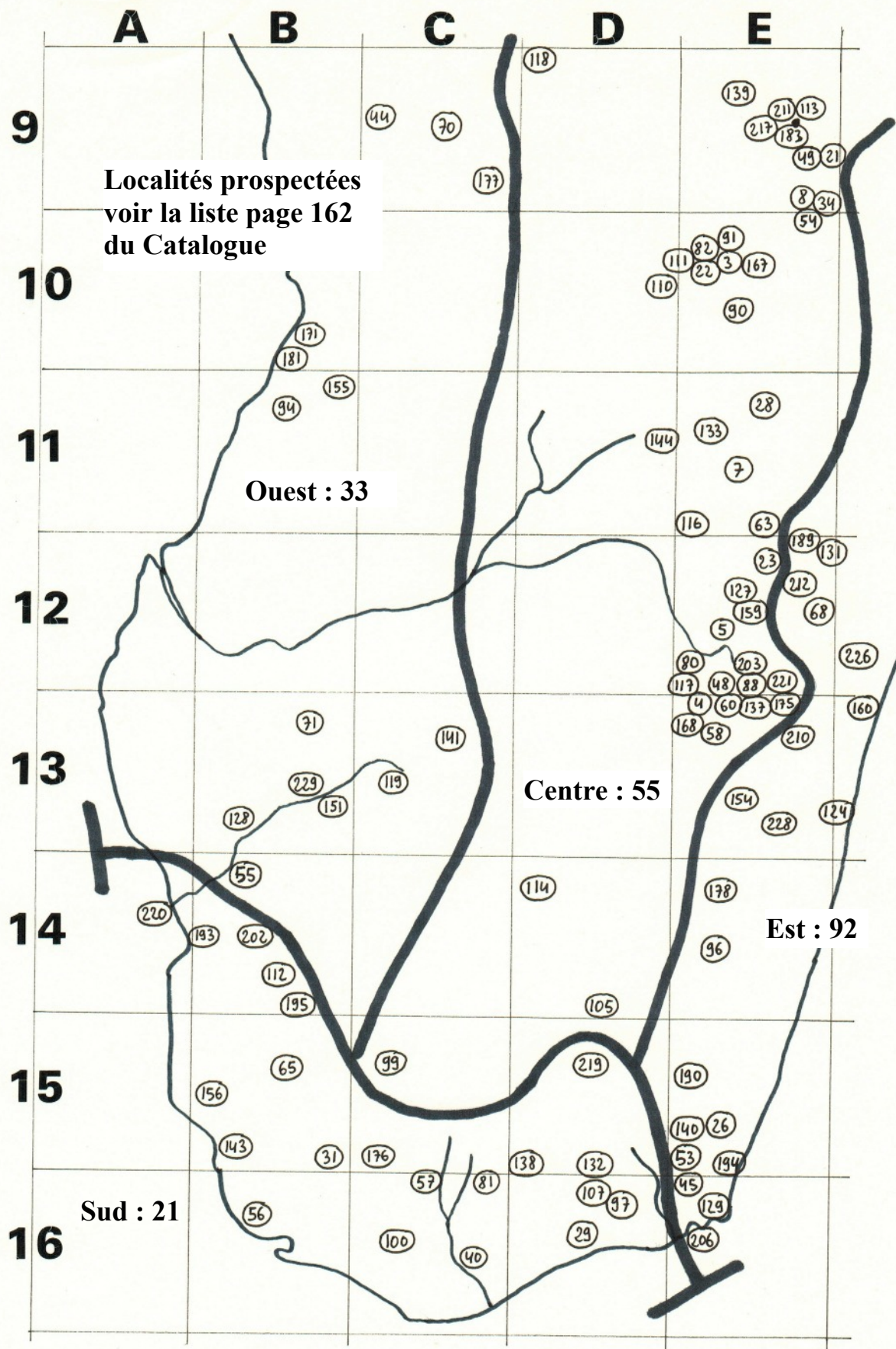


- *Joziratia jocquei*
- ▲ *Joziratia mayottensis*
- *Joziratia cinnamomea*
- *Joziratia breviclava*
- ★ *Joziratia andriai*
- *Joziratia desruisseauxi*
- ▲ *Joziratia anjouanae*
- ♥ *Joziratia longiclava*
- + *Joziratia pamanzii*

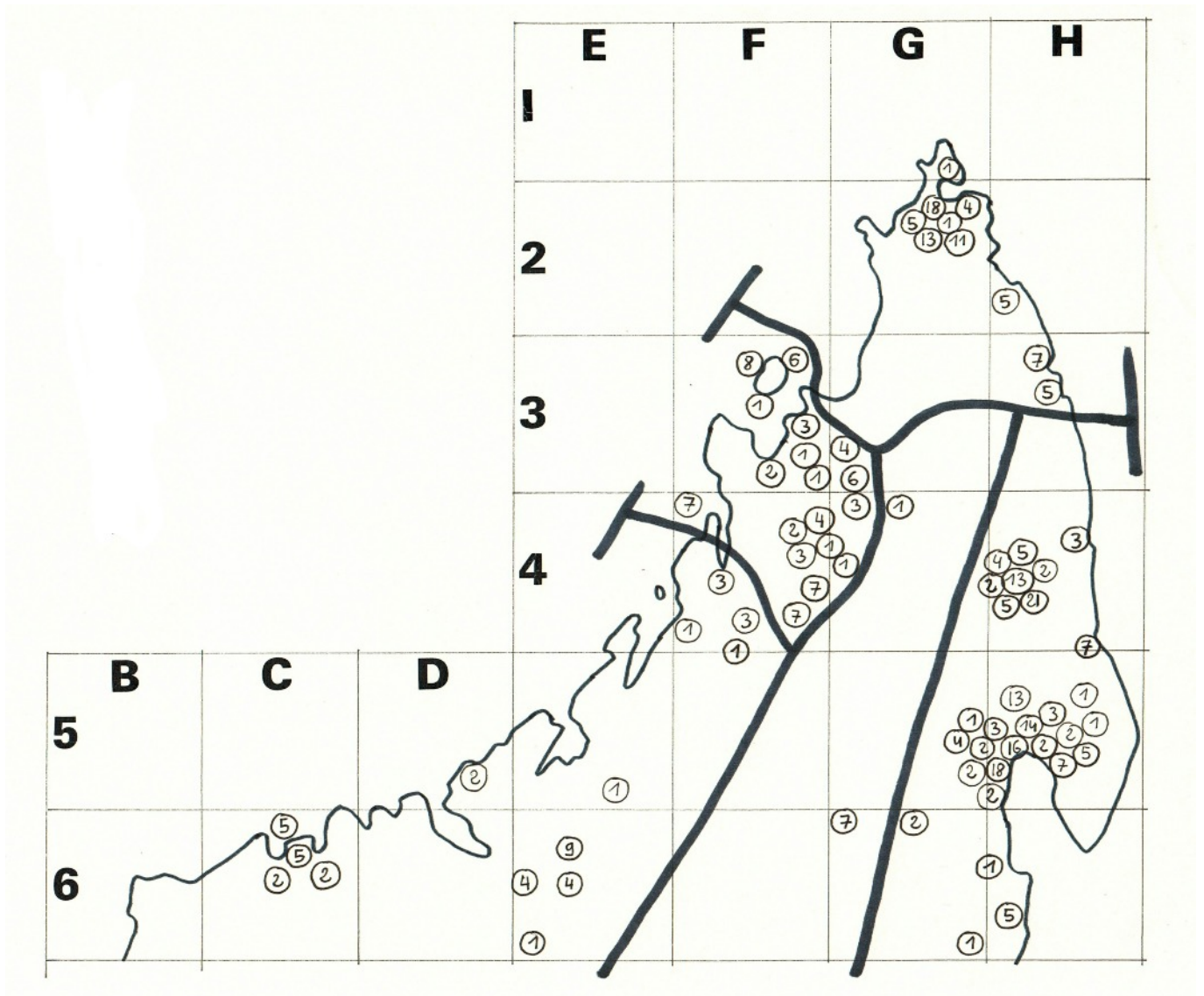
Melolonthidae région malgache





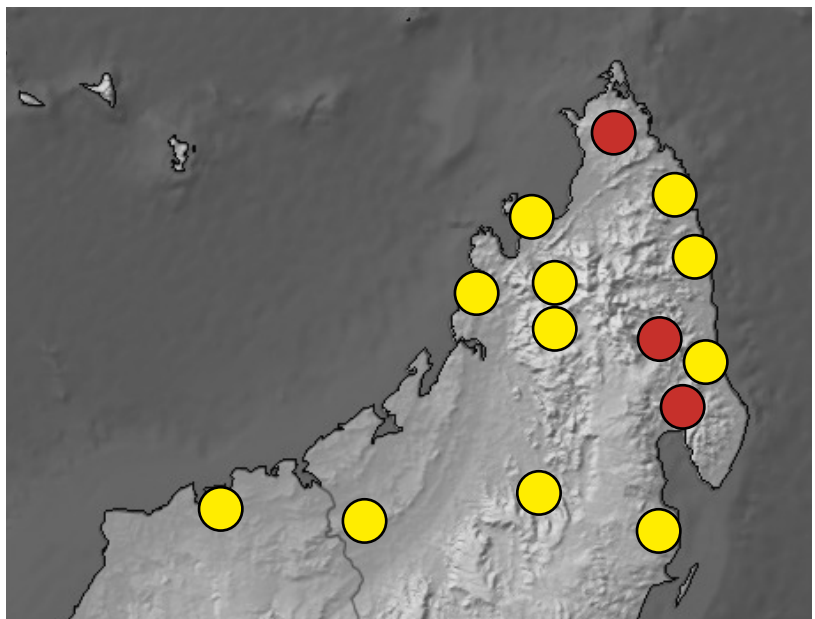


Melolonthidae région malgache

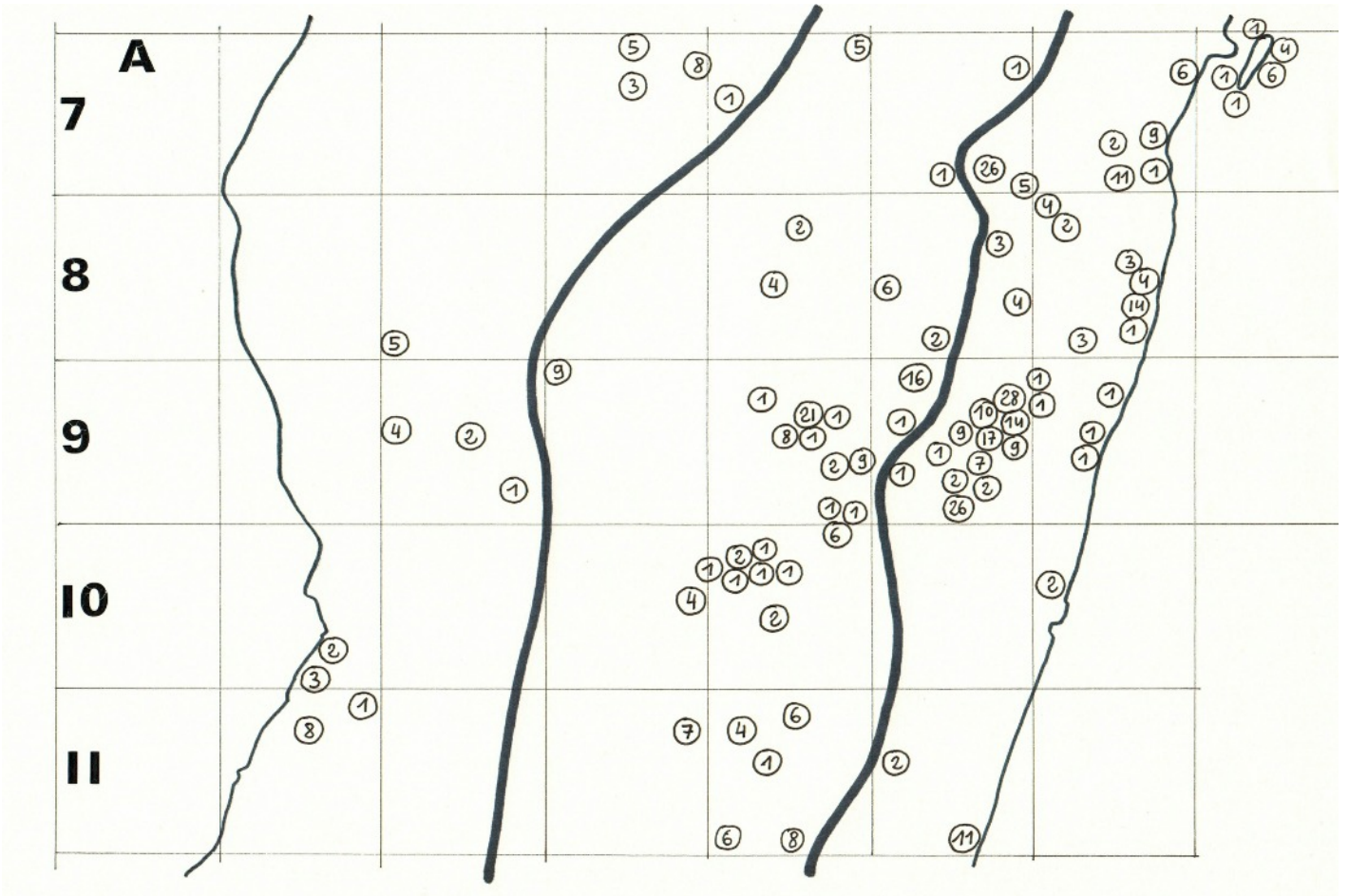


Nombre d'espèces récoltées par localités référencées

- Entre 5 et 9 espèces
- 10 espèces et plus

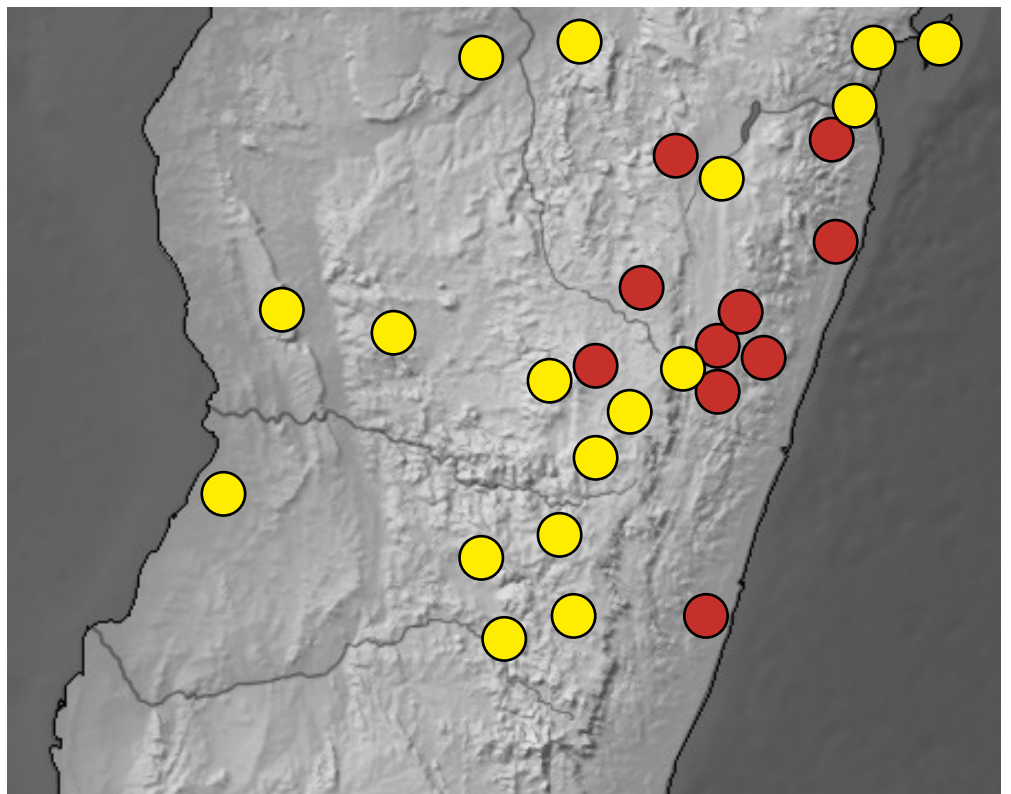


Melolonthidae région malgache

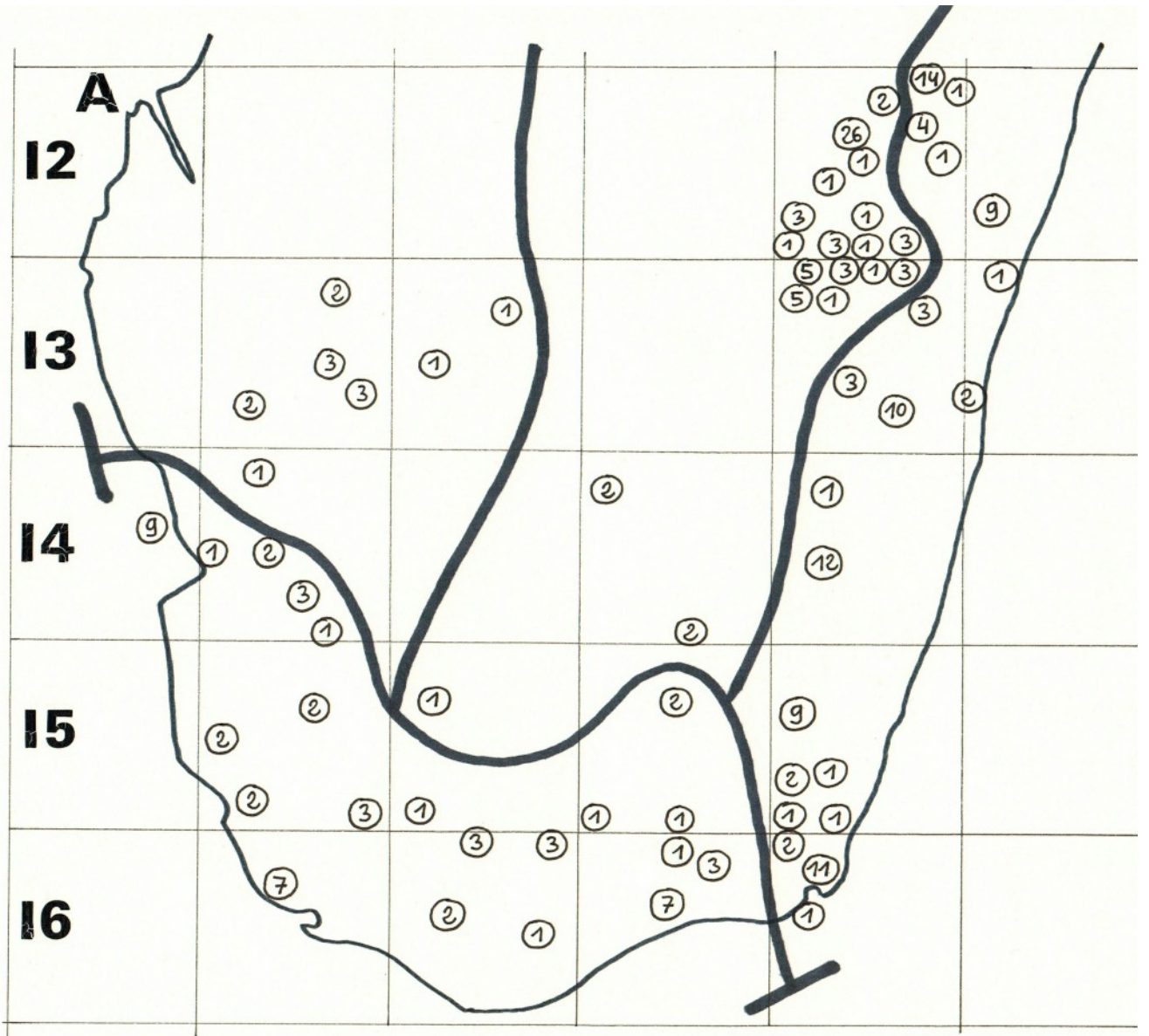


**Nombre d'espèces récoltées
par localités référencées**

- Entre 5 et 9 espèces
- 10 espèces et plus

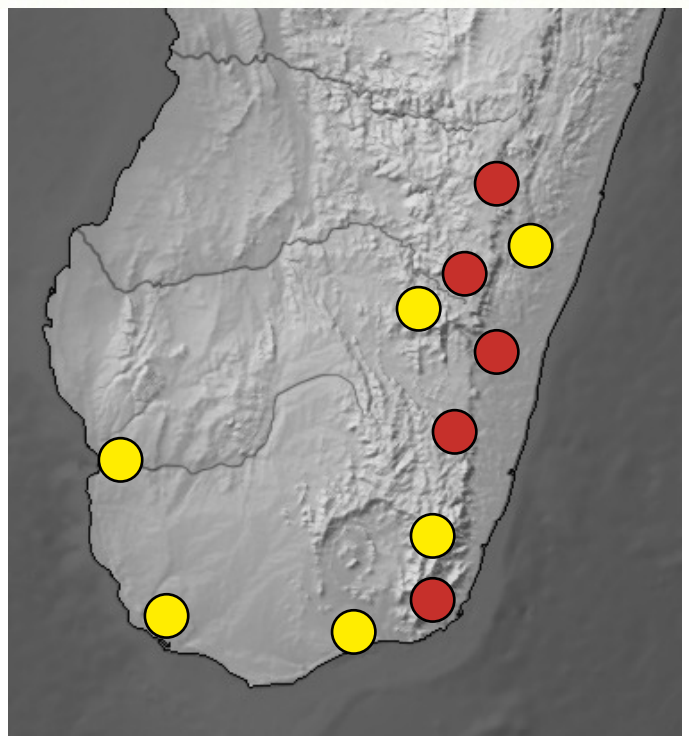


Melolonthidae région malgache



Nombre d'espèces récoltées par localités référencées

- Entre 5 et 9 espèces
- 10 espèces et plus



Melolonthidae région malgache



Anomolyna pauliani Lacroix



Debutina procera Lacroix



Griveaudella testacea Lacroix

PACHYDEMINAE MALGACHES



Lachnodera rufjubata Fairmaire



Mahafalyanus clementi Lacroix



Pachycolus madagascariensis
Blanchard

Melolonthidae région malgache



Debutina hexaphylla (Fairmaire)
Lectotype mâle, 13 mm



Debutina taediosa (Fairmaire)
Holotype mâle, 16 mm



Debutina procera Lacroix
Holotype mâle, 16 mm

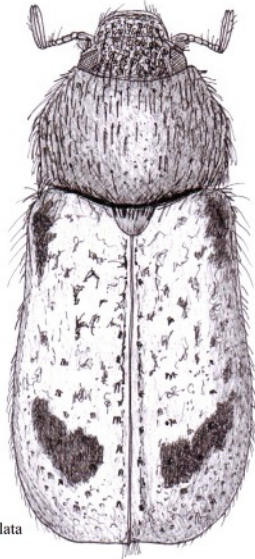


Debutina procera Lacroix

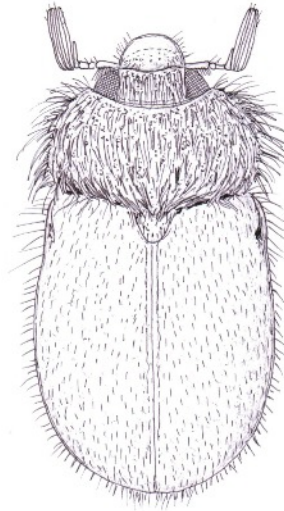
Melolonthidae région malgache



Rubilepis camuseti

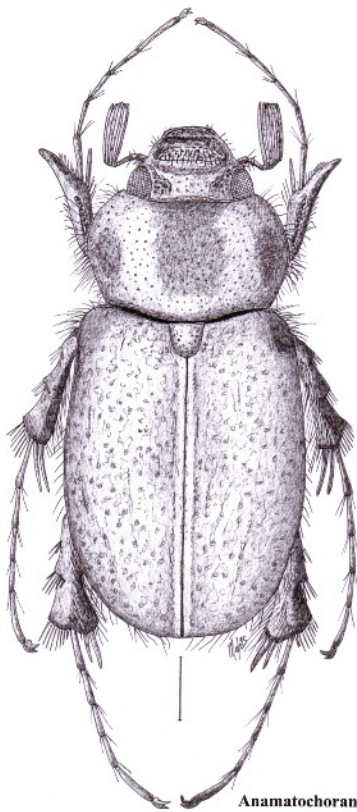
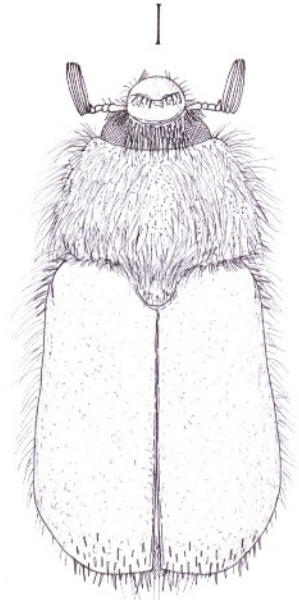


Rubilepis bimaculata

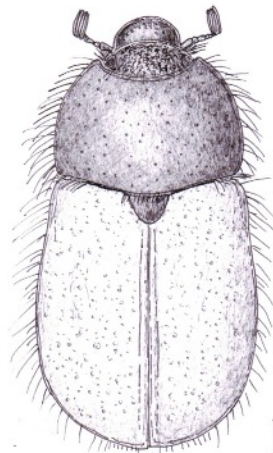


Vezoanus gruvelli

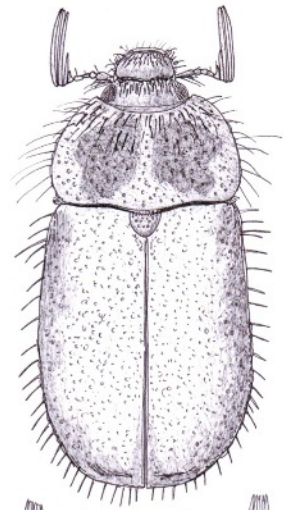
Mahafalyanus clementi



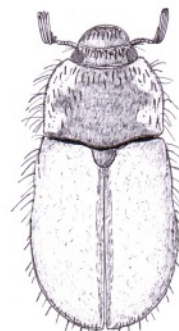
Anamatochoranus decaryi



Pachycolus madagascariensis

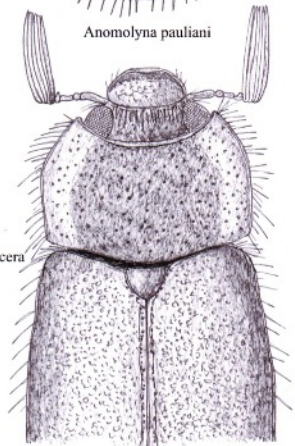


Anomolyna pauliani



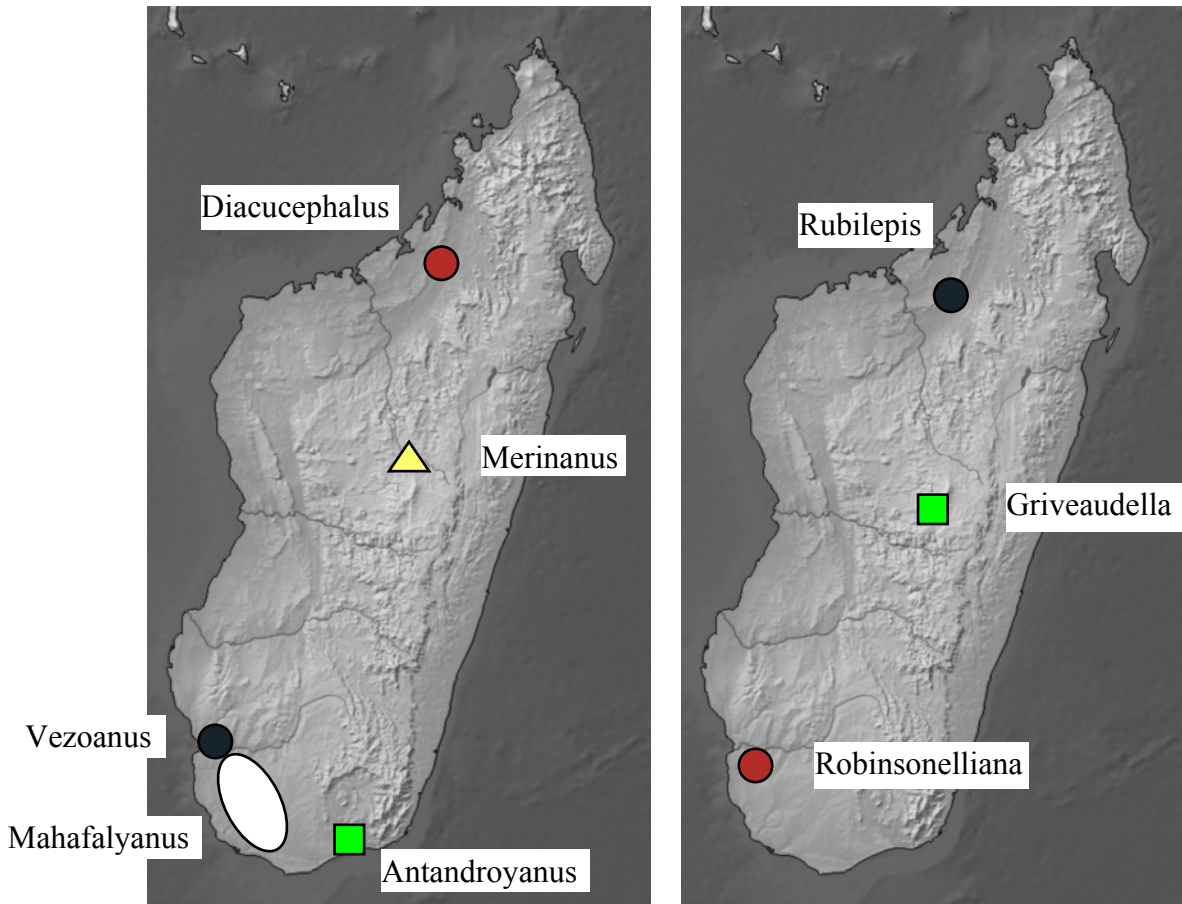
Anomolyna pallidipennis

Debutina procerata



Pachydeminae malgaches

Melolonthidae région malgache



Distribution des genres de Pachydeminae malgaches

