

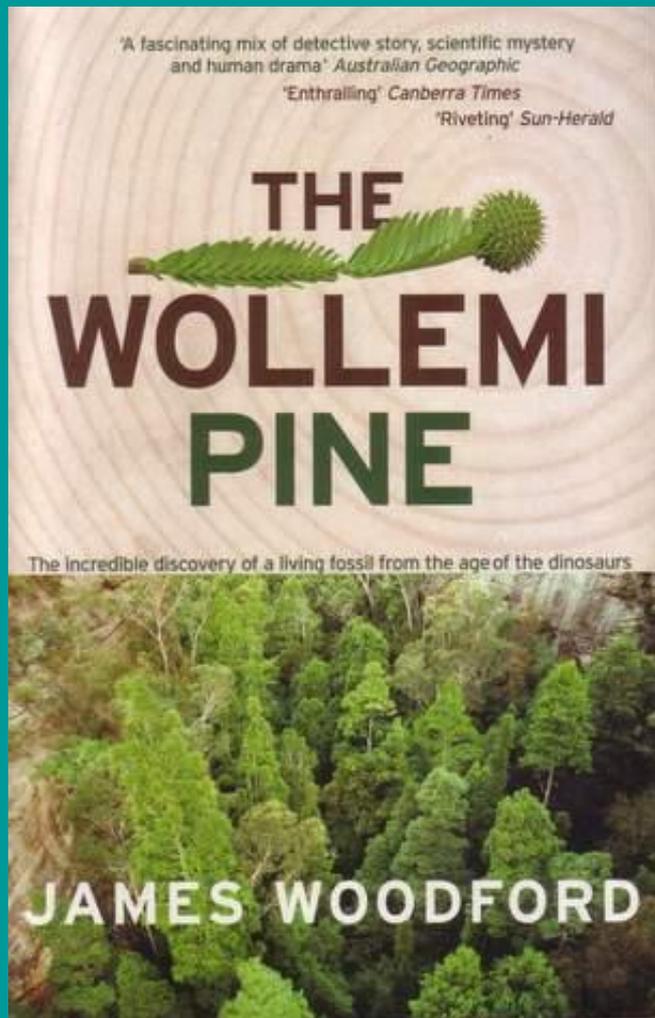
# Grandes expéditions naturalistes : L'exploration de la biodiversité n'est pas terminée !

Philippe Bouchet





*Bassaricyon neblina* Helgen et al. 2013



## *Wollemia nobilis*

Jones, Hill & Allen, 1995





*Kiwa hirsuta*  
Macpherson, Jones & Segonzac,  
2005



**The New York Times**  
 Le Monde  
 Une sélection hebdomadaire offerte par

MARCH 25, 2006



French Research Institute for Exploitation of the Sea Associated Press

Scientists found the "yeti crab" in the South Pacific last year.

## A New Family of Animals In the Deep, Deep Ocean

By CORNELIA DEAN

As lobsters go, this one is not very appetizing — it's white, it's covered

search Institute in California who organized the research cruise, said Alvin's cameras caught sight of the strange lobster-like creatures, and the researchers were able to re-

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### Furry 'lobster' found in Pacific

Biologists have discovered a crustacean in the Pacific that resembles a lobster or crab but that looks like



distinct from other crustaceans

The animal's pincers are covered in silken hair-like strands

[Enlarge image](#)

500km (300 miles)

National M

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## SCIENCE & SPACE

### New animal resembles furry lobster

Wednesday, March 8, 2006, Posted 8:16 a.m. GMT (10:16 GMT)

PARIS, France (AP) — Divers have discovered a new crustacean in the South Pacific that resembles a lobster and is covered with what looks like silky, blond fur, French researchers said Tuesday.

Scientists said the animal, which they named *Kiwa hirsuta*, was so distinct from other species that they created a new family and genus for it.

A team of American-led divers found the animal in waters 2,300 meters (7,540 feet) deep at a site 1,200 kilometers (800 miles) south of Easter Island last year, according to Michel Sepkoski of the French Institute for Sea Exploration.



The crustacean's pincers are covered with silken, hair-like strands.

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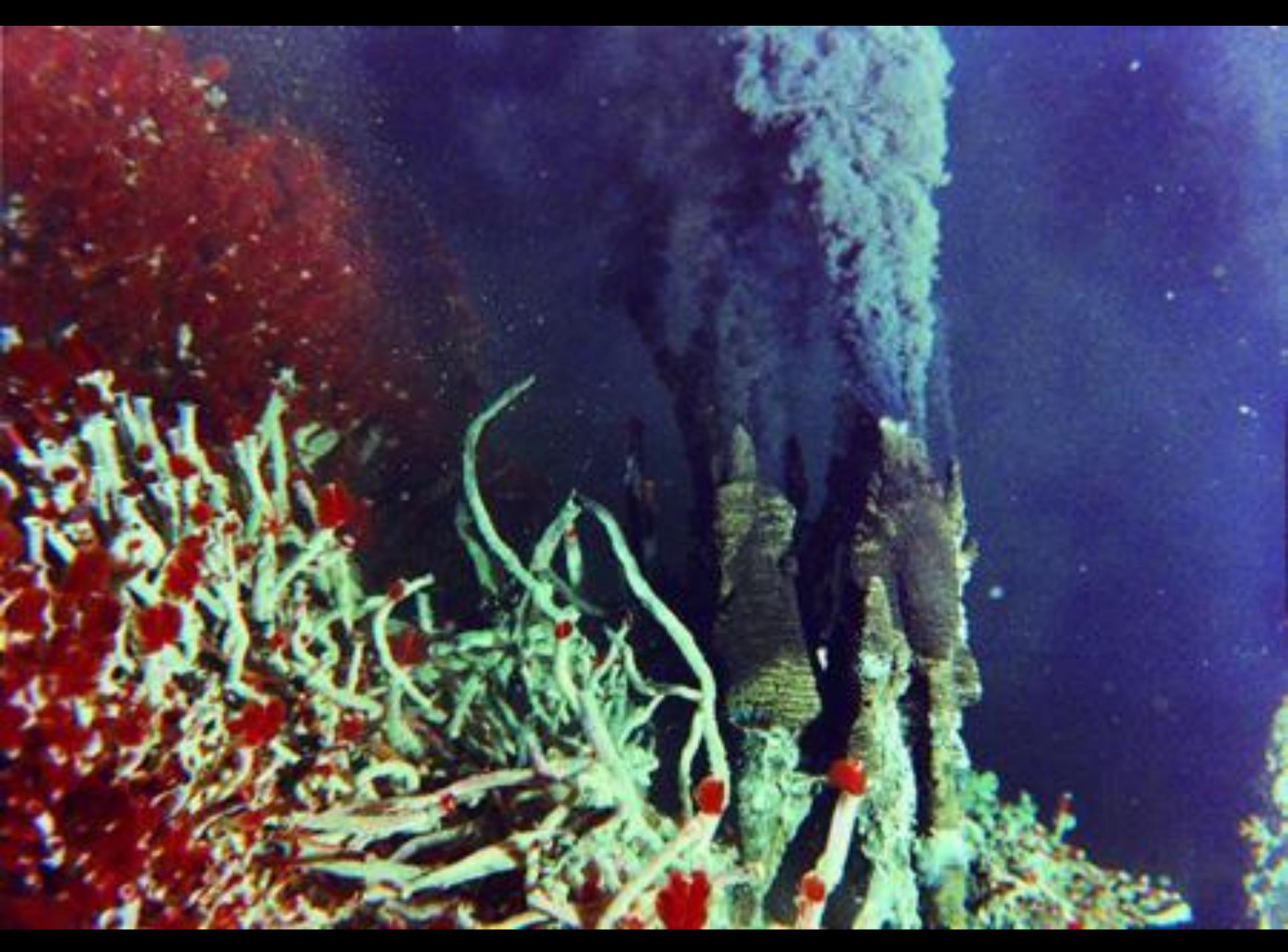
The new crustacean is described in the journal of the National Museum of Natural History

## Nombre moyen d'espèces nouvelles décrites chaque année

Vertébrés terrestres et d'eau douce	560
Insectes	7000
Autres animaux terrestres	2500
Plantes	2300
Autres organismes terrestres	1800
Poissons marins	140
Crustacés marins	440
Autres organismes marins	1000
Algues	90

# **Les sources des espèces nouvelles**

- **Nouveaux habitats**





**YOUR LOCAL McCOTTE**

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|--|--|
| 1/2 Gallon   | 1/2 Gallon   |
| 1 Gallon   | 1 Gallon   |
| 2 Gallons  | 2 Gallons  |
| 4 Gallons  | 4 Gallons  |
| 8 Gallons  | 8 Gallons  |
| 16 Gallons   | 16 Gallons   |
| 32 Gallons   | 32 Gallons   |
| 64 Gallons   | 64 Gallons   |
| 128 Gallons  | 128 Gallons  |
| 256 Gallons  | 256 Gallons  |
| 512 Gallons  | 512 Gallons  |
| 1024 Gallons   | 1024 Gallons   |
| 2048 Gallons   | 2048 Gallons   |
| 4096 Gallons   | 4096 Gallons   |
| 8192 Gallons   | 8192 Gallons   |
| 16384 Gallons  | 16384 Gallons  |
| 32768 Gallons  | 32768 Gallons  |
| 65536 Gallons  | 65536 Gallons  |
| 131072 Gallons   | 131072 Gallons   |
| 262144 Gallons   | 262144 Gallons   |
| 524288 Gallons   | 524288 Gallons   |
| 1048576 Gallons  | 1048576 Gallons  |
| 2097152 Gallons  | 2097152 Gallons  |
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# **Les sources des espèces nouvelles**

- **Nouveaux habitats**
- **Nouveaux territoires**



# **Les sources des espèces nouvelles**

- **Nouveaux habitats**
- **Nouveaux territoires**
- **Nouvelles méthodes**



397-387

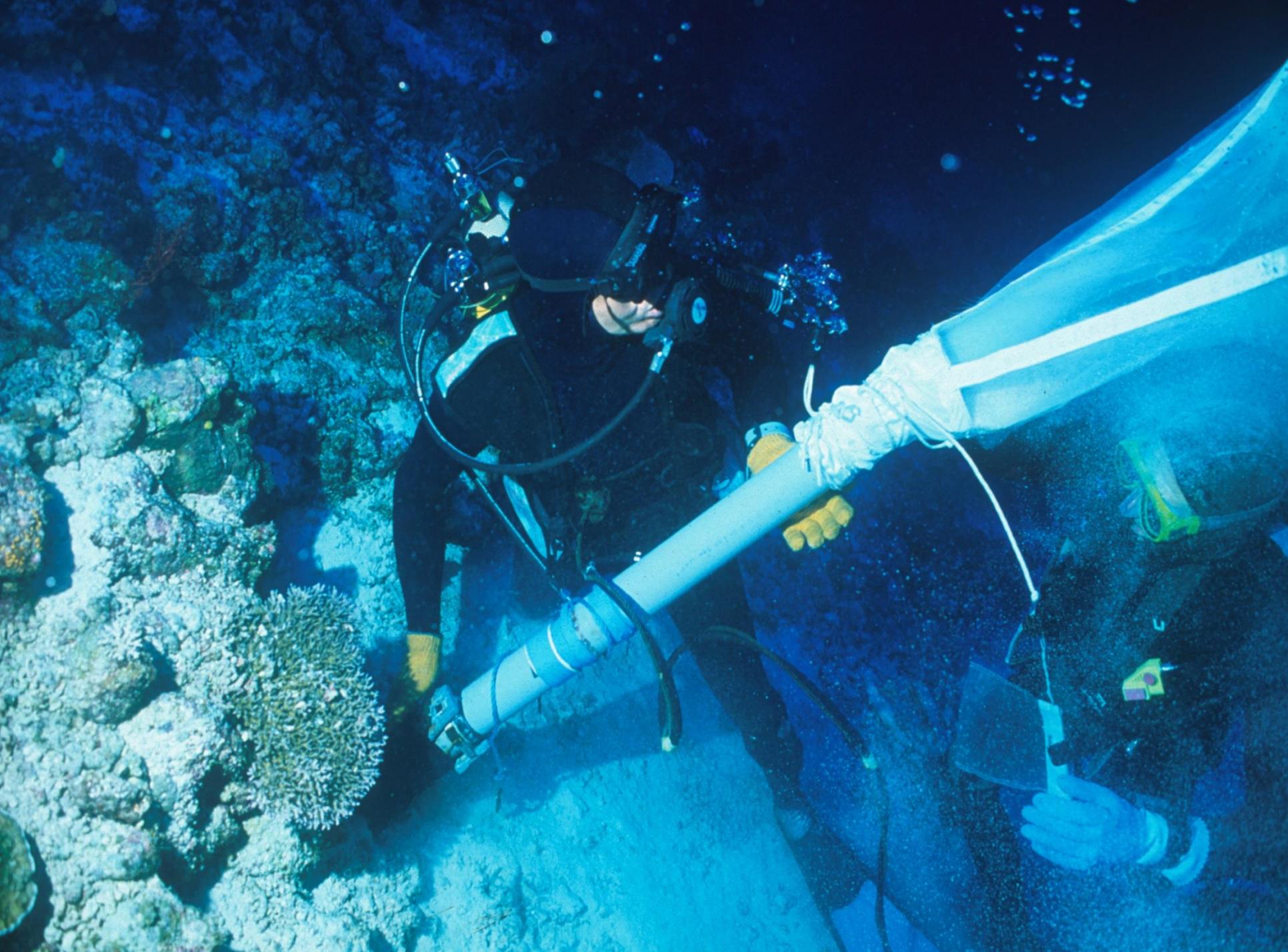
377-386

397











# La magnitude de la biodiversité : changement de paradigme

- « Les scientifiques ont décrit 1,6 million d'espèces et il pourrait y en avoir encore autant à décrire »
- « Les scientifiques ont décrit 2 millions d'espèces mais le nombre réel pourrait être de 7 à 10 millions »

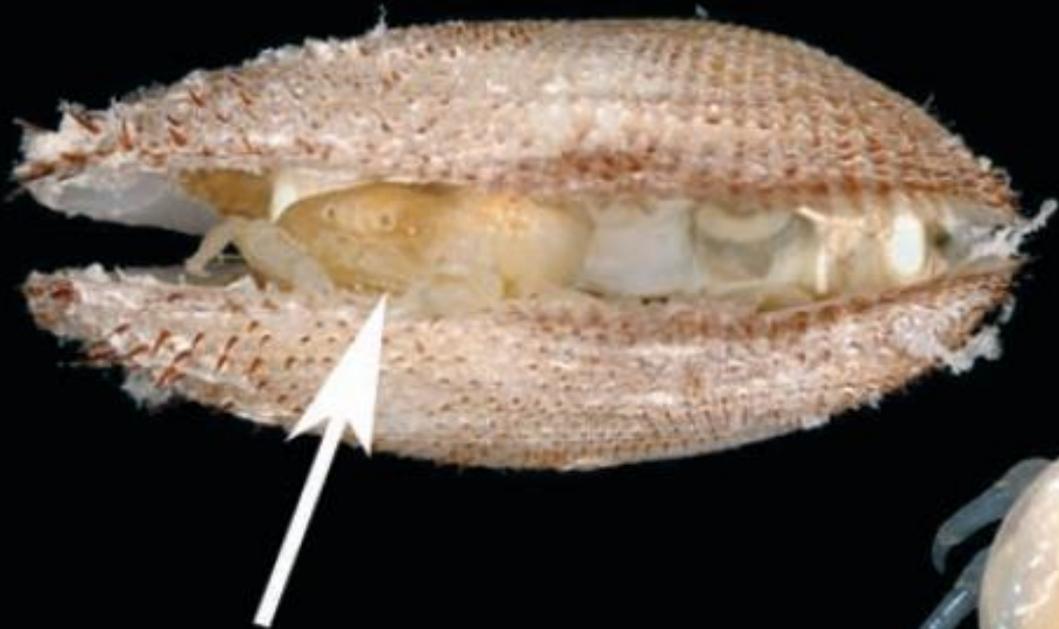
# Deux boites noires

Micro-organismes

# Deux boites noires

Associations :

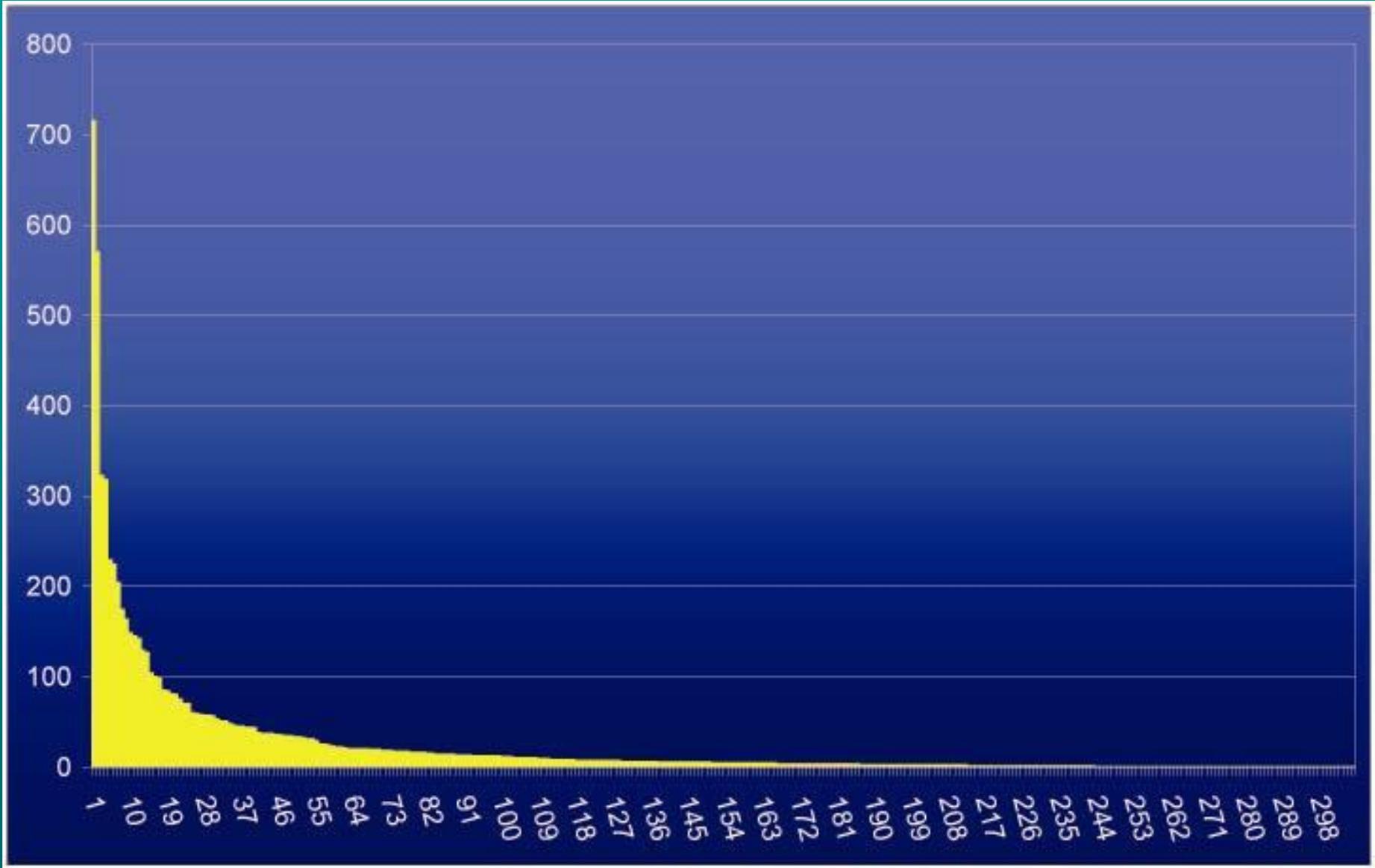
Commensaux, symbiontes et parasites



# Quelques propriétés générales de la biodiversité

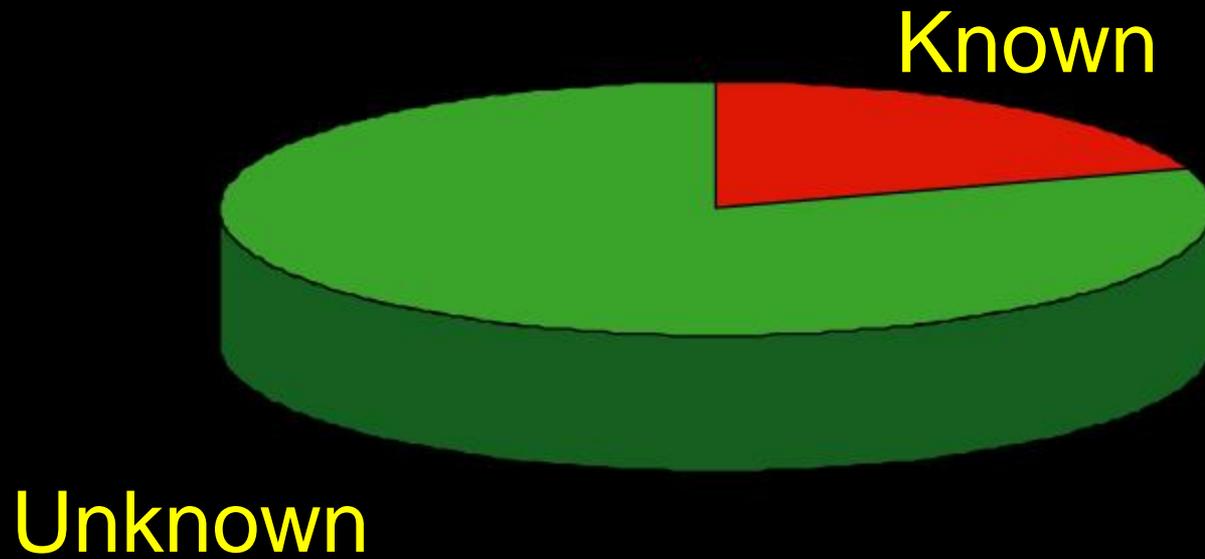
La plupart des espèces sont petites  
et (naturellement) rares

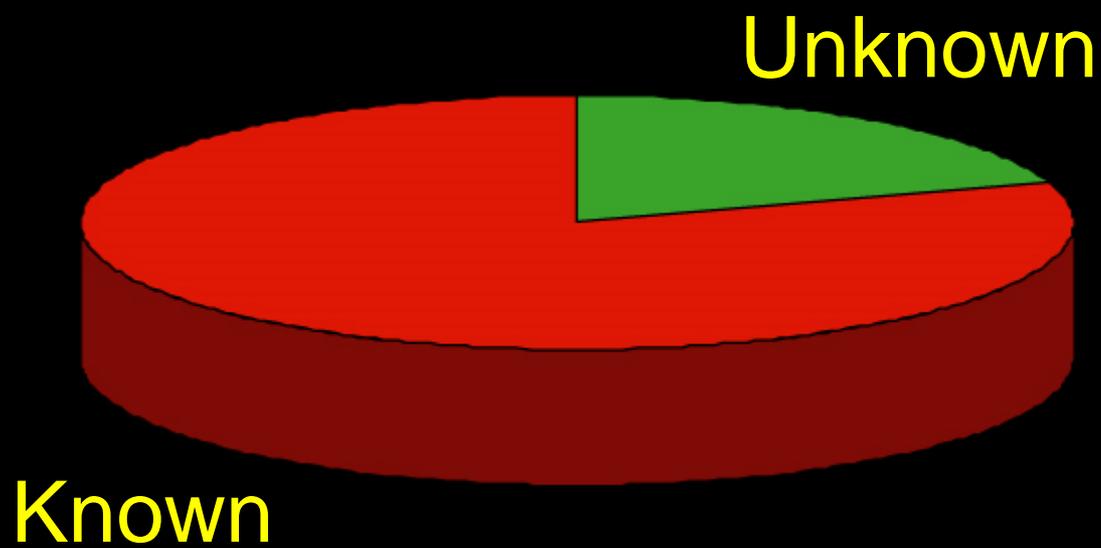
Abundance

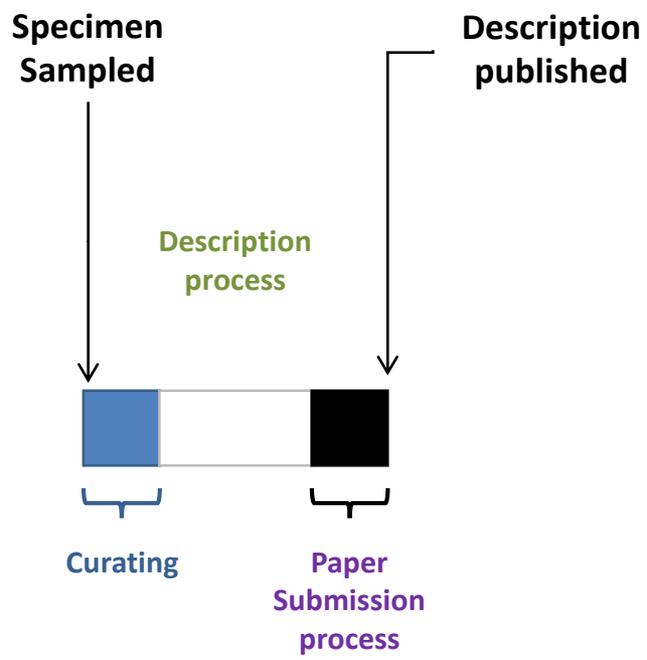


Demographic rarity (Turridae from Lifou)

Rank











To be described  
5 Million

Described species  
2 Million



To be described  
10 Million

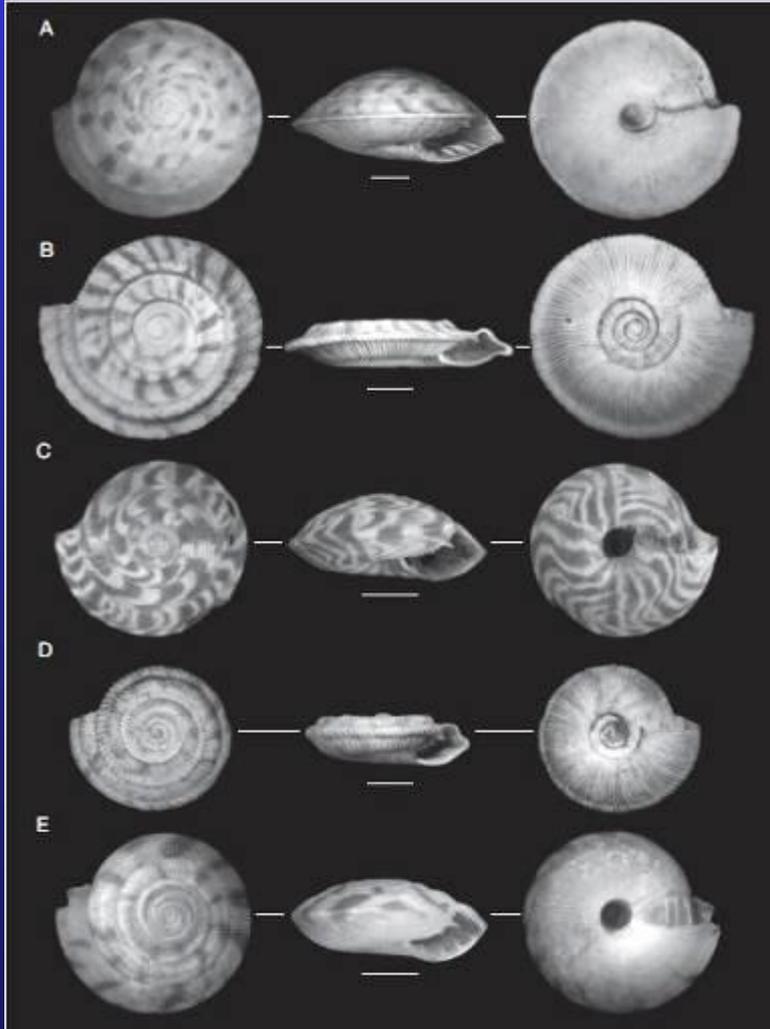
Described species  
2 Million



?

Described species  
2 Million

**Quatre espèces nouvelles d'Endodontidae  
(Mollusca, Pulmonata) éteints de Rurutu  
(Îles Australes, Polynésie française)**



# Des espèces déjà éteintes dans la nature et « sauvegardées » en collection



*Brachinus solidipalpis* Tian & Deuve, 2007  
Philippines.

**Changer d'échelle**

**TROPICAL**  
— DEEP SEA —  
**BENTHOS**





la planète  
**en**visitée

Un Renouveau des Grandes Expéditions Naturalistes



la planète  
**en** visitée

Un Renouveau des Grandes Expéditions Naturalistes



**Un renouveau des grandes  
expéditions naturalistes**



Change the way you think  
Start your own business

Friday 30/11

07:30	07:30	07:30	07:30	07:30	07:30
Ala	Ala	Ala	Ala	Ala	Ala
07:30	07:30	07:30	07:30	07:30	07:30
07:30	07:30	07:30	07:30	07:30	07:30

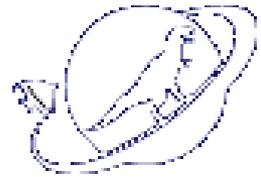
Menu Board

07:30	07:30	07:30	07:30	07:30	07:30
07:30	07:30	07:30	07:30	07:30	07:30
07:30	07:30	07:30	07:30	07:30	07:30
07:30	07:30	07:30	07:30	07:30	07:30





Smithsonian



CALIFORNIA ACADEMY OF SCIENCES



Logo



東京大学  
THE UNIVERSITY OF TOKYO



SAPIENZA  
UNIVERSITÀ DI ROMA





Muséum national d'Histoire naturelle



# our planet **er**viewed

Taking a closer look at biodiversity hotspots



+++++

# papua new guinea

## 2012 - 2013

+++++

Experience the expedition at [www.ourplanetreviewed.org](http://www.ourplanetreviewed.org)

Mécènes historiques de La Planète Revisitée

Soutiens de l'expédition Papouasie-Nouvelle-Guinée

Partenaires média :





MUSÉUM  
NATIONAL D'HISTOIRE NATURELLE

EXPÉDITION  
MADIBENTHOS

<http://madibenthos.mnhn.fr>

Fonds rocheux dominés par les éponges Case - Pilote © Romain Ferry / MNHN / Madibenthos

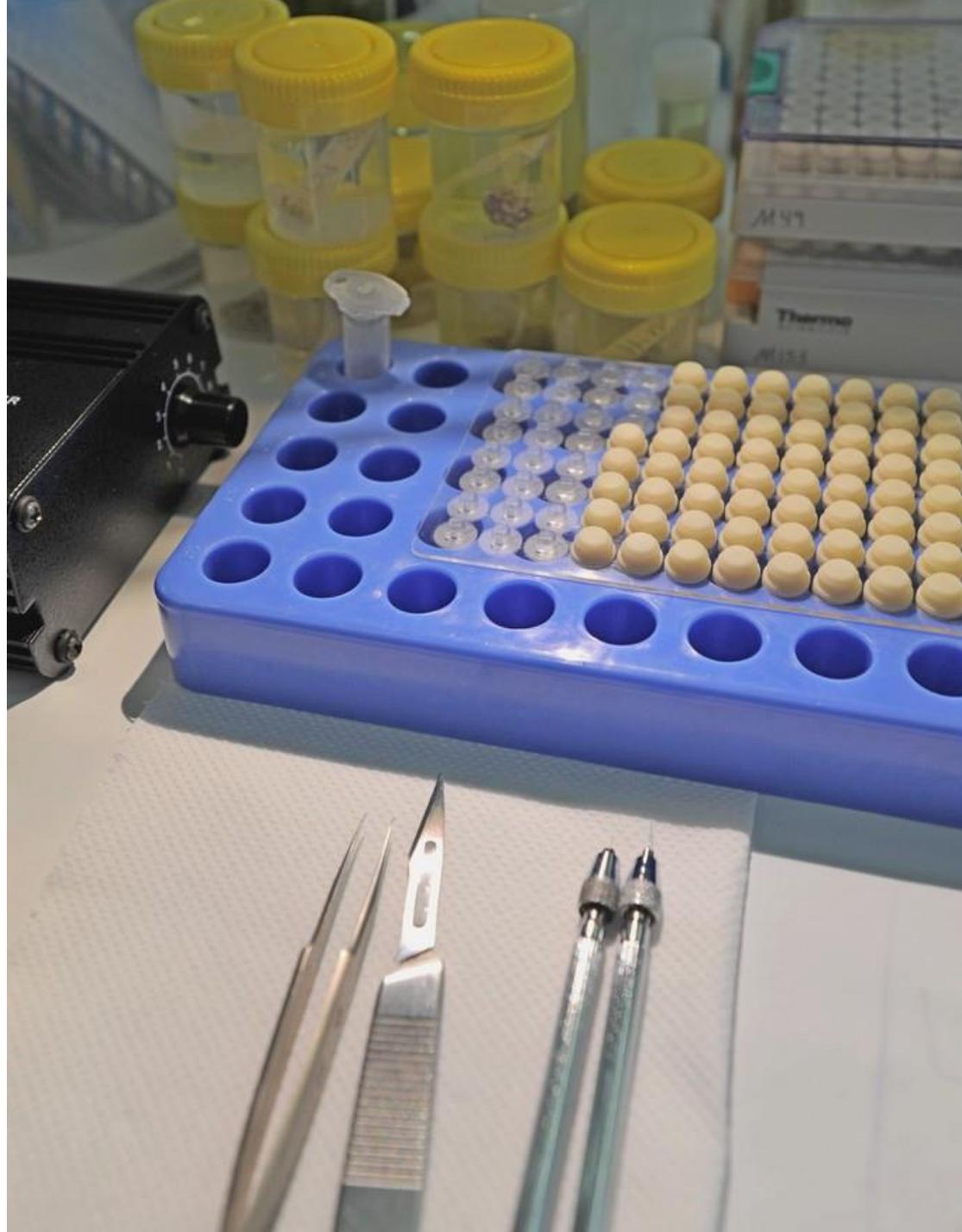












# Barcoding



Anesthetized or cracked specimen for sequencing

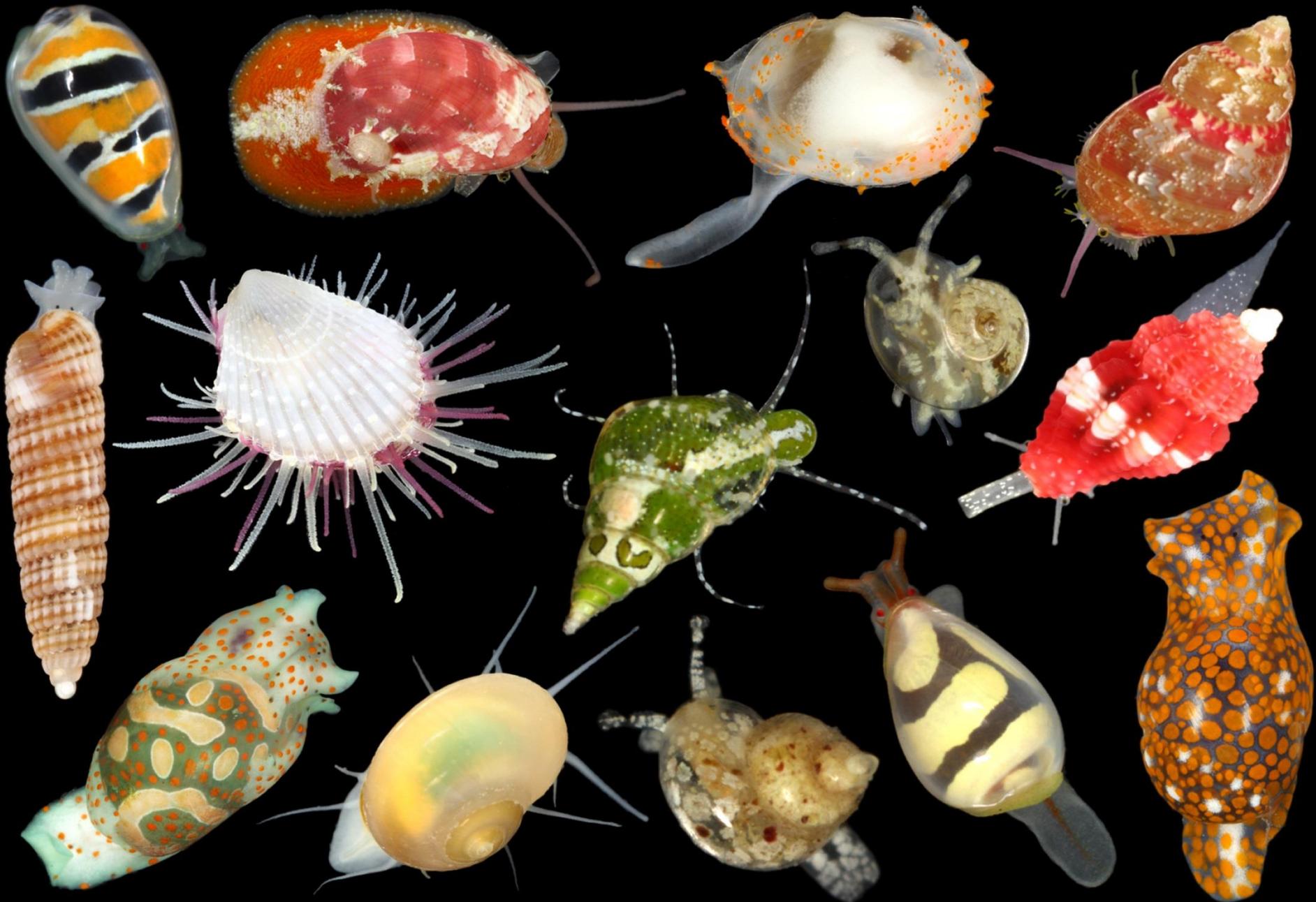


voucher















# Traitement post-expédition











*Poirieria brevisplendoris*  
Houart, 1985



*Ponderia caledonica*  
Houart, 1988



*Pterynotus levii*  
Houart, 1988



*Trophon lacrima*  
Houart, 1991



*Leptotrophon richeri*  
Houart, 1995



*Poirieria fragilis*  
Houart, 1996



*Daphnelopsis hypselos*  
Houart, 1995



*Typhis carolinae*  
Houart, 1997

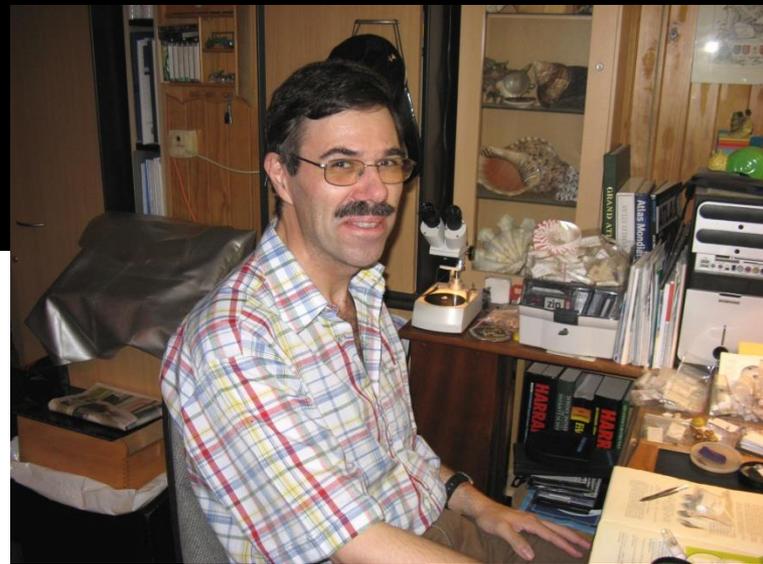


*Habromorula aglaos*  
Houart, 1995

# Réseau international de taxonomistes

Plus de 200 collaborateurs  
dans le monde entier  
impliqués dans l'étude et la description  
des nouvelles espèces





*Calliotropis excelsior* Vilvens, 2004



*Euthria cumulata* Fraussen & Hadorn, 2003

# Traçabilidade



## GRATUITOUS PERMIT

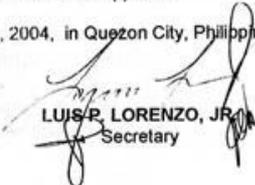
No. F.B.P. - 0021 - 2004

### PERMIT ISSUED TO THE MUSEUM NATIONAL D'HISTOIRE NATURELLE AND THE UNIVERSITY OF SAN CARLOS TO COLLECT MARINE MOLLUSKS AND DECAPOD CRUSTACEANS **STRICTLY FOR TAXONOMIC SURVEY**

Context of Indo-Pacific Biodiversity Gradient, subject to the following terms and conditions:

1. Collection shall be undertaken in the municipal marine waters of Panglao, Dauis, and Bacayon, and in the municipal estuarine waters of Cortez, and in Tagbilaran Bay of Tagbilaran City, all in the province of Bohol;
2. For species that are protected by law, only limited and representative samples, not to exceed three pieces per species shall be collected and for other invertebrates and species not subject of regulation, only such quantity that would pose no threat to the environment and the population of the species in the wild and that is reasonably necessary for the conduct of taxonomic studies shall be collected, provided that all collected specimens shall be inventoried and accounted for in a written document to be submitted to the Committee on Bioprospecting (CoB) of the Bureau of Fisheries and Aquatic Resources (BFAR), prior to their transport out of Bohol;
3. The schedules of collection and the names of foreign and local participants thereto shall be submitted to the BFAR CoB at least five (5) days in advance;
4. The permittees shall comply with all the provisions stipulated in the Memorandum of Agreement (MOA) and with Philippine laws on prospecting of biological resources;
5. In case the specimens will be transferred to third party recipients, including the designated depositories, the permittees shall first execute a Material Transfer Agreement to be witnessed by a representative of the Department of the BFAR;
6. The specimens collected and identified shall remain the property of the government of the Republic of the Philippines;
7. This Permit shall be valid for six (6) months to commence upon approval hereof; and,
8. Violation of any provision of the aforementioned laws and applicable rules, and the MOA as well as the terms and conditions hereof shall result in the automatic revocation of this Permit and forfeiture of the specimens collected in favor of the government of the Republic of the Philippines.

Issued this 4th day of February, 2004, in Quezon City, Philippines.

  
LUIS P. LORENZO, JR.  
Secretary

CERTIFIED XEROX COPY

  
MILDRED S. MERCENE  
OIC. ADMINISTRATIVE DIVISION

(NIPAS Act), REPUBLIC ACT NO. 8550 (Fisheries Code) and other relevant laws.

IN WITNESS WHEREOF, we have hereunto affixed our signatures this 02 day of Feb. 2004 ~~2003~~ at Davao City, Philippines.

For the **Department of Agriculture:**

  
**LUIS P. LORENZO, JR.**  
Secretary

Museum National  
de Histoire Naturelle

For the **Museum National  
D'Histoire Naturelle:**

BERTRAND-PIERRE  
Director-General



JEAN-BOUC  
Scientist, Curator

  
BERTRAND-PIERRE  
Director-General

  
**BERTRAND-PIERRE GALEY**  
Director-General

ACKNOWLEDGMENT

REPUBLIC OF THE PHILIPPINES )  
Davao City ) S.S.

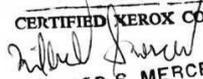
BEFORE ME, this FEB 04 2004 day of 2004 at \_\_\_\_\_ appeared personally **LUIS P. LORENZO, JR.**, with Community Tax Certificate No. 09126783, issued at Davao City on January 21, 2003 and **BERTRAND-PIERRE GALEY** with Passport No. 920300025719 issued at Hauts de Seineon known to me to be the same persons executing the Memorandum of Agreement and they acknowledged to me that same is their voluntary act and deed.

IN WITNESS WHEREOF, they have hereunto signed their names on this Memorandum of Agreement, comprising of six (6) pages including this page, which bears my signature.

WITNESS my hand and seal on date and place aforesaid.

NOTARY PUBLIC

Doc. No. 207  
Page No. 12  
Book No. \_\_\_\_\_  
Series of 2003

CERTIFIED XEROX COPY  
  
**MILDRED S. MERCENE**  
ADMINISTRATIVE DIVISION

  
ATTY. **RODOLFO M. MORALES**  
NOTARY PUBLIC  
(MANILA) UNTIL DEC. 31, 2005  
PTR NOS. 323 4626 -A  
JAN. 6, 2004. PASAY CITY

# CONVENTION-CADRE FIXANT DES REGLES D'ACCES AUX RESSOURCES GENETIQUES ET AUX PARTAGES DES AVANTAGES EN GUYANE

**La présente Convention est conclue entre :**

**Le Conseil Régional de Guyane**, dont le siège social est situé carrefour de Suzini, 4179 route de Montabo - BP 7025 - 97307 Cayenne cedex, dûment représenté par Monsieur Rodolphe ALEXANDRE, en qualité de Président, ci-après dénommé « Conseil Régional » ; d'une part,

Et

**Le Muséum National d'Histoire Naturelle** dont le siège social est situé 57 rue Cuvier, 75 005 Paris, dûment représenté par Monsieur Thomas GRENON, en qualité de Directeur Général, ci-après dénommé « MNHN », pétitionnaire ; d'autre part,

Ci-après dénommées ensemble ou séparément la ou les « Parties »),

# Etiquetage et traçabilité





*Degallierister greglamarrei* Degallier, 2015 **PARATYPE(S)**

✍ Comment nous citer

SPÉCIMEN

MNHN-EC-EC6954

Guyane, Crique Alama (Maripasoula).  
2°14'24.7" N / 54°27'0.19" W, 6.III.2015. FIT (J.  
Touroult, E. Poirier, J.-H. Yvinec) : La  
Planète Revisitée - MNHN / PNI Guyane  
2015 (APA-973-1)

TAXONOMIE

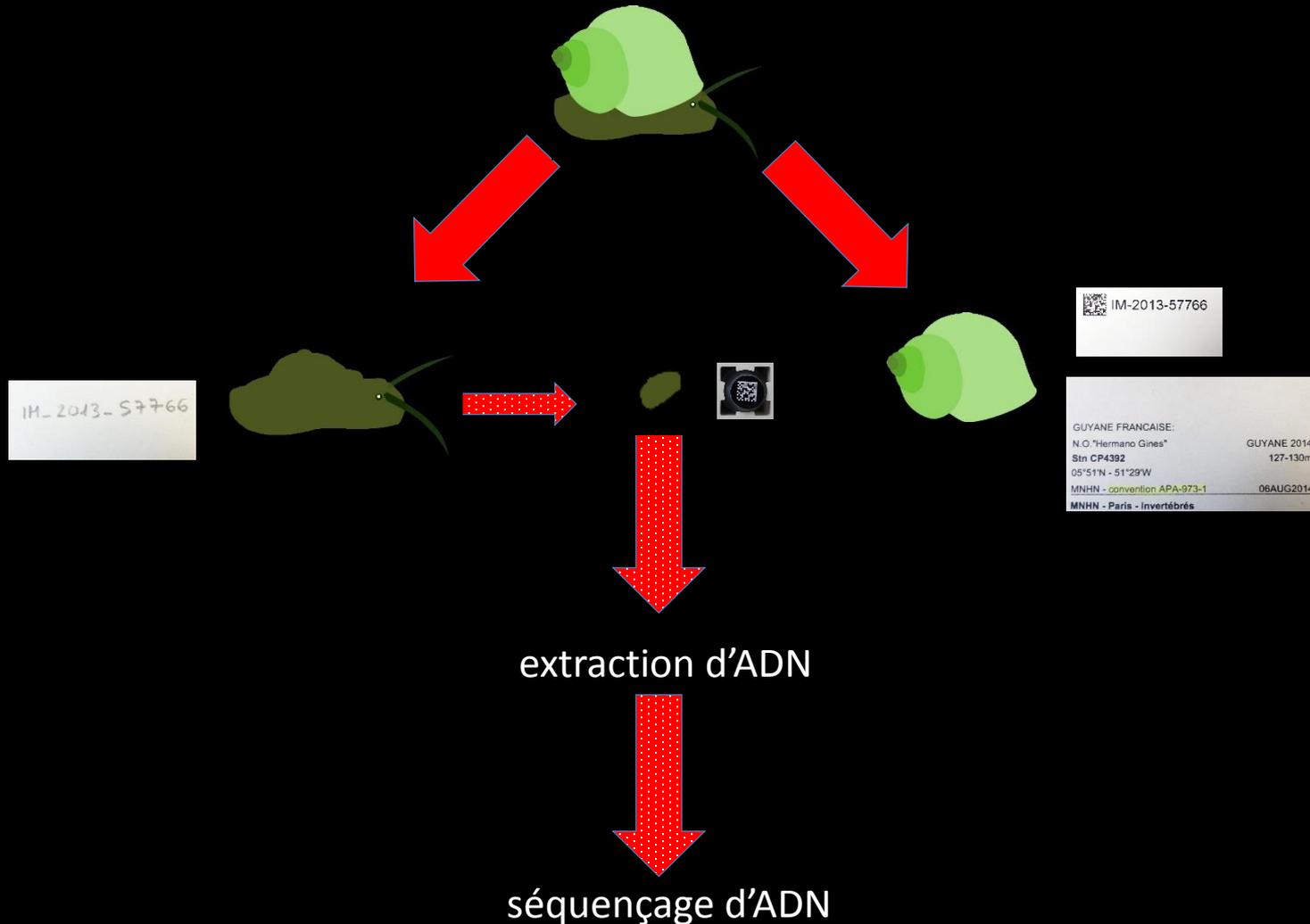
Ordre Coleoptera  
Famille Histeridae  
Genre *Degallierister*  
Espèce *Degallierister greglamarrei*  
Nom *Degallierister greglamarrei* Degallier, 2015

ORIGINE

- 📍 Libellé du pays [Guyane française](#)
- 📍 Localité/Lieu-dit Massif du Mitaraka
- 👤 Nom du collecteur Mission MNHN / PNI Guyane 2015
- 📅 Date de récolte 2015-02-25 - 2015-03-26
- 📍 Coordonnées géographiques 2° 13' 58.8" N - 54° 27' 0.00" O



# Sur le terrain ou en atelier de tri : traitement pour le versement dans la collection moléculaire



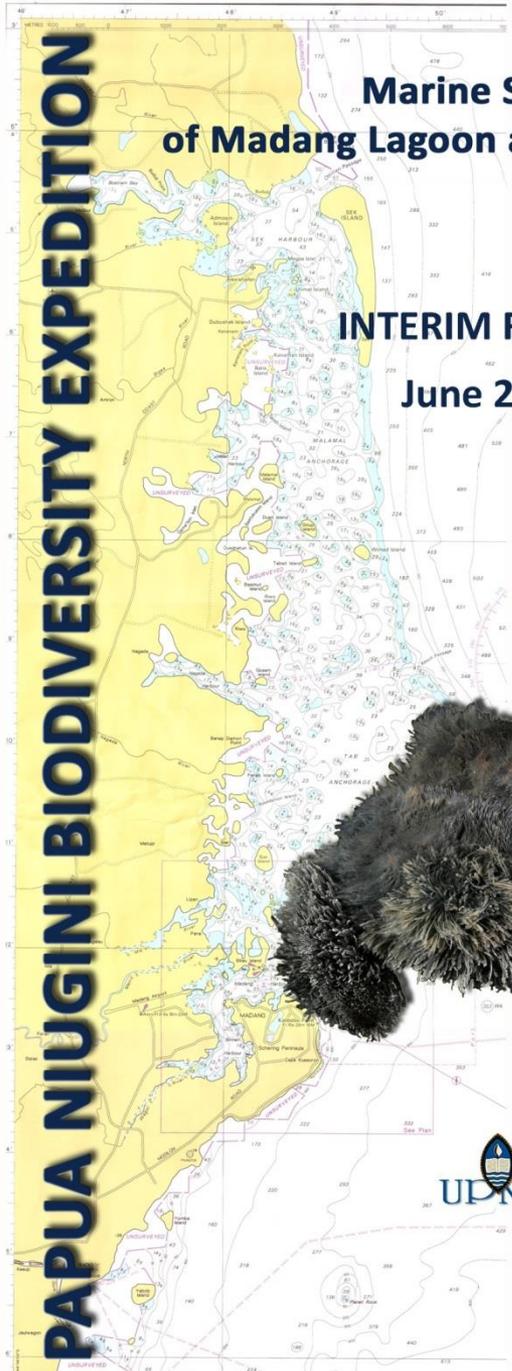
# Restitution

**PAPUA NIUGINI BIODIVERSITY EXPEDITION**

**Marine Survey  
of Madang Lagoon and Bismarck Sea**

**INTERIM REPORT**

**June 2013**



Muséum  
national  
d'Histoire  
naturelle



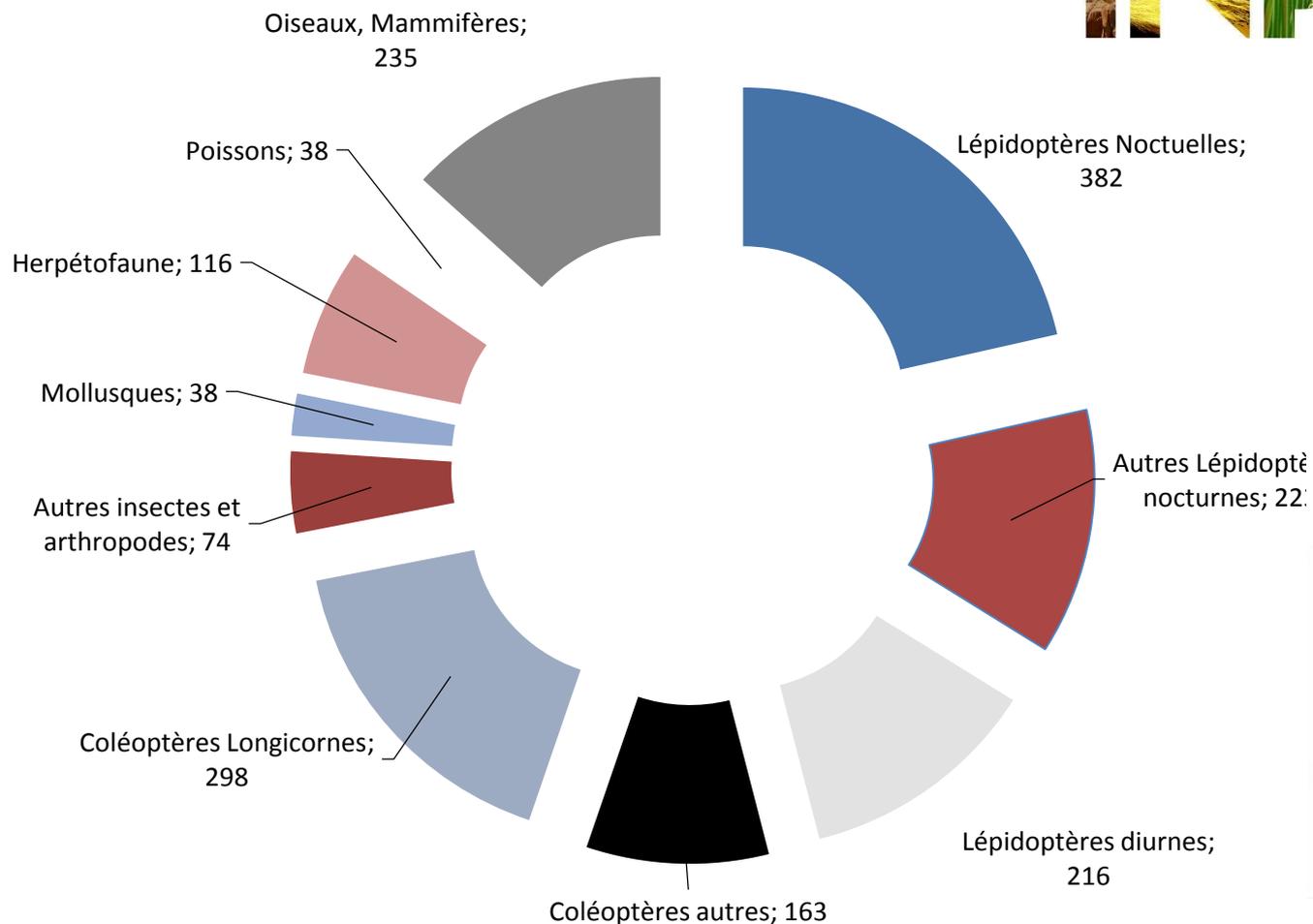
**IRD**  
Institut de recherche  
pour le développement



# Repatriation of collections



# Un système de bancarisation pérenne et publique



Bilan début septembre 2015



Home / MNHN / Insectes - Coléoptères (EC) / EC6954

*Degallierister greglamarrei* Degallier, 2015 **PARATYPE(S)**

Comment nous citer



### SPÉCIMEN

MNHN-EC-EC6954

Guyane, Crique Alama (Maripasoula),  
2°14'2.47"N/54°27'0.19"W, 6.III.2015, FIT (J.  
Touroult E. Poinier, J.-H. Yvinec) : La  
Planète Revisitée - MNHN / PNI Guyane  
2015 (APA-973-1)

### ORIGINE

- Libellé du pays [Guyane française](#)
- Localité/Lieu-dit [Massif du Mitaraka](#)
- Nom du collecteur [Mission MNHN / PNI Guyane 2015](#)
- Date de récolte [2015-02-25 - 2015-03-26](#)
- Coordonnées géographiques [2° 13' 58.8" N ; 54° 27' 0.00" O](#)

### TAXONOMIE

- Ordre [Coleoptera](#)
- Famille [Histeridae](#)
- Genre [Degallierister](#)
- Espèce [Degallierister greglamarrei](#)
- Nom [Degallierister greglamarrei](#) Degallier, 2015



### DÉTERMINATION

Degallier, N. 2015 **PARATYPE(S)** *Degallierister greglamarrei* Degallier, 2015

Degallier, N. 2015 - Révision du genre *Degallierister* Gomy, 2001 (Coleoptera, Histeridae, Dendrophilinae). Bulletin de la Société entomologique de France, 120 (3) : 341-372.

# Santo

## The Natural History of

edited by  
Philippe Bouchet, Hervé Le Guyader, Olivier Pascal

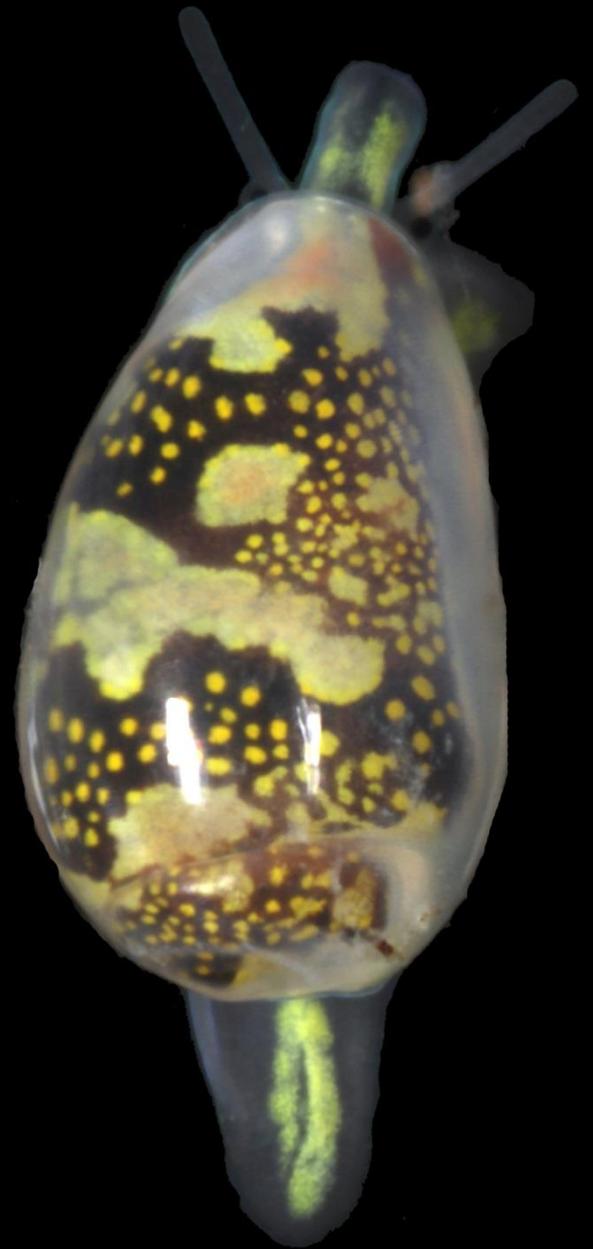


PATRIMOINES NATURELS

PUBLICATIONS SCIENTIFIQUES DU MUSÉUM  
IRD ÉDITIONS  
PRO-NATURA INTERNATIONAL

# Outreach












**Biodiversity Expedition  
PAPUA NIUGINI 2012-2013**












# ART EXHIBITION

## THE MARINE LIFE OF THE MADANG LAGOON FIXÉS SOUS VERRE OF THE YABOB PEOPLE

UPNG Open Campus Madang  
Saturday 17th November  
9am - 4pm  
entrance free



**IRD**  
Institut de recherche  
pour le développement



our planet  
**viewed**  
Thinking & colour with an interdisciplinary lens



# SPECTACULAR CRUSTACEANS REVEALED BY THE PAPUA NIUGINI EXPEDITION



Crustaceans provide important food items, but in fact a small part only of the overall crustacean diversity is marketed and consumed by man. Over a period of two months in October - December 2012, the Papua Niugini expedition sampled all kinds of habitats in the Madang area and revealed a rich diversity of about 1,400 species of decapod crustaceans (i.e. shrimps, lobsters, hermit crabs and crabs). Many species were documented in colour for the first time, as shown on this poster. Also, many species were recorded from Papua New Guinea for the first time, and a number are new to science. Photos were taken from living animals in the laboratory. All animals are in natural colour.



# CRUSTACES COMMERCIAUX DU GRAND SUD DE MADAGASCAR COMMERCIAL CRUSTACEANS FROM THE "DEEP SOUTH" OF MADAGASCAR



Pour les populations côtières, les langoustes constituent la principale ressource des régions Anosy et Androy, le "Grand Sud" de Madagascar. Pêchées au large par des nasses appâtées et à la côte en plongée libre, la plus grande partie des prises est exportée. Au contraire, les crevettes pénelides, les crabes de palétuvers, et les crevettes palaemonides de petite taille, pêchés dans les lagunes appelées "lacs", sont consommés localement. Ce poster fait partie d'une série sur la faune et la flore marines du "Grand Sud" de Madagascar qui, entre avril et juin 2010, a été étudié par l'expédition ATIMO VATAE. A marée basse, en plongée, par dragage et chalutage, les 69 participants venant de 15 pays ont, pendant 50 jours, observé, photographié, et collecté la biodiversité marine sous toutes ses formes : algues, crustacés, mollusques, échinodermes, poissons, etc.

Lobsters are the commercially most important marine product from the coasts of the regions Anosy and Androy, Madagascar's "Deep South". They are fished offshore by baited traps and from the shore by snorkelling. Much of the catch is exported. Penaeid shrimps, mud crabs as well as small palaemonid shrimps are fished in the backwater coastal lagoons - locally called "lakes" - and are consumed locally. This poster is part of a series on the marine fauna and flora of Madagascar's "Deep South", which was surveyed between April and June 2010 by the ATIMO VATAE expedition. During 50 days, at low tide, by diving, by dredging and trawling, 69 participants originating from 15 countries observed, photographed and sampled marine biota of all size and shape: algae, crustaceans, mollusca, echinoderms, fishes, etc.





