
THE FIFTH ANNUAL ZOOLOGICAL CONGRESS OF
"GRIGORE ANTIPA" MUSEUM
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BUCHAREST, ROMANIA
INVENTORY AND DISTRIBUTION OF CICHLIDS (PISCES, PERCIFORMES) IN MOROCCO
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The Cichlids (Pisces, Perciformes) are tropical fishes that have left relict populations in the Sahara and North Africa

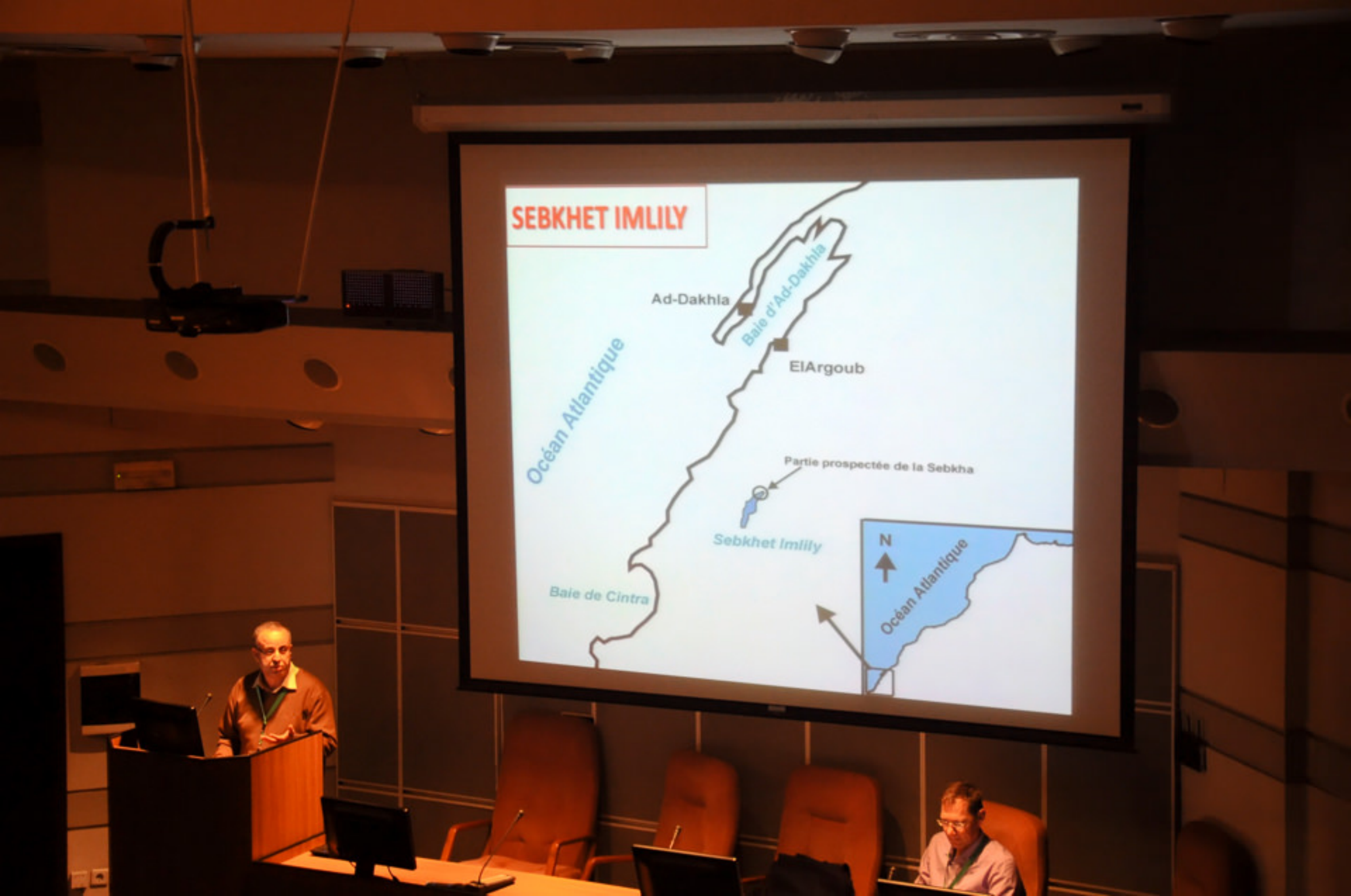
In Morocco, the Cichlids were known by two species, *Tilapia zillii and* (*Sarotherodon galilaeus*), both reported from Oued Dr'a watershed, situated at the northern edge of Sahara


Sarotherodon
galilaeus

A new species for North Africa and Sahara was recently discovered :

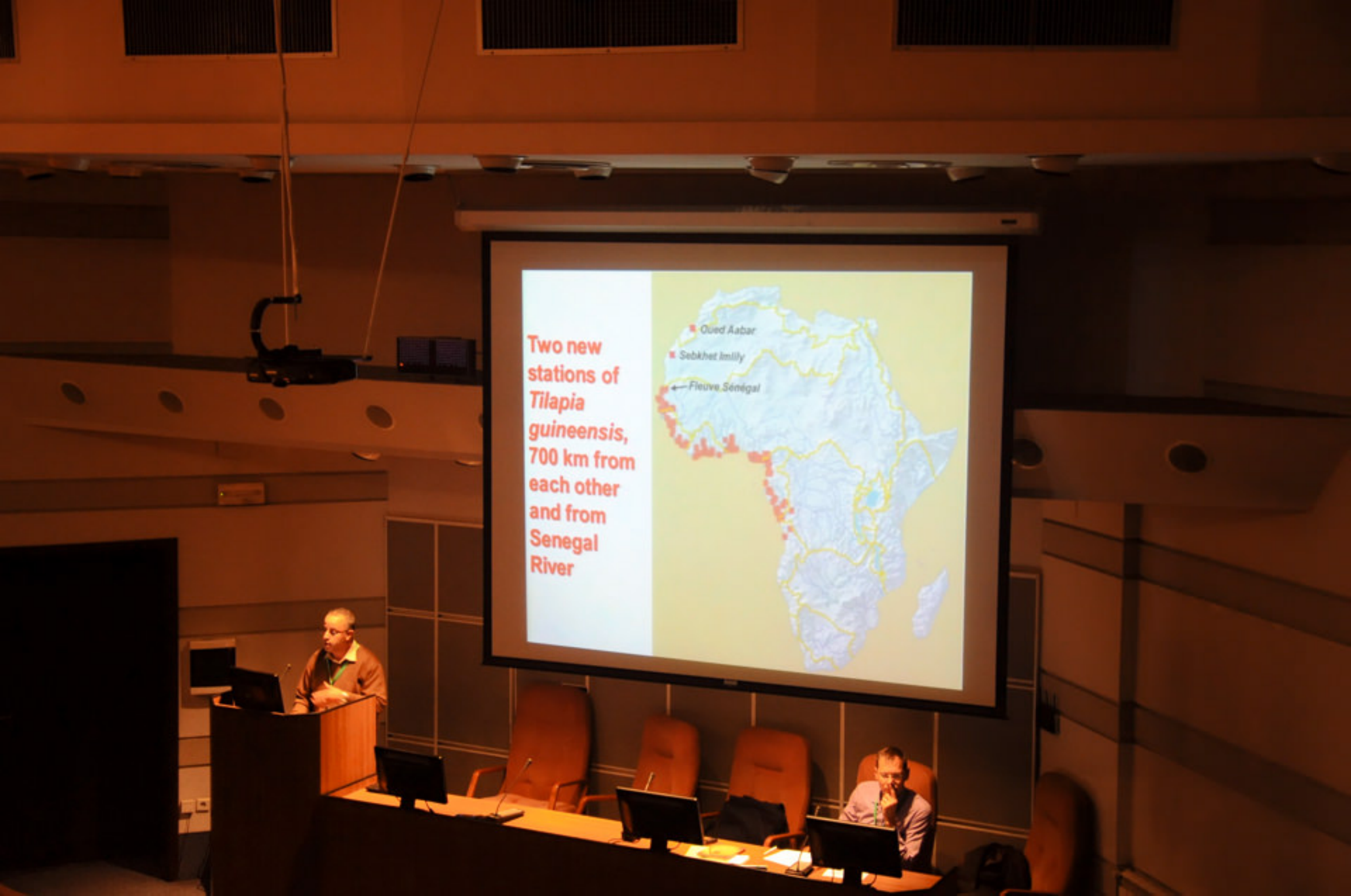
- at Sebkhet Imlily (2009)
- at Oued Aabar, (2012)

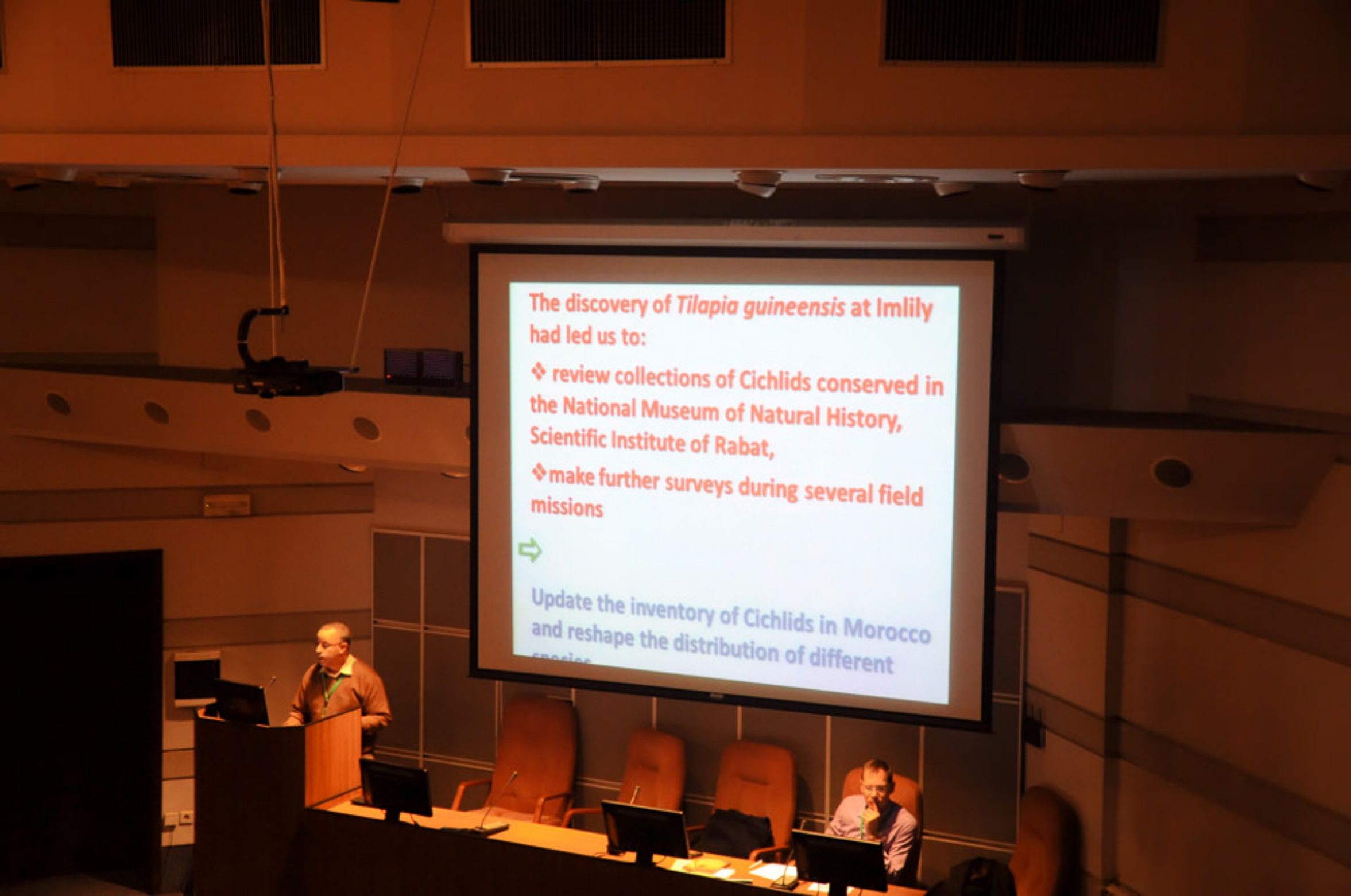
Tilapia guineensis : new species for North Africa and Sahara

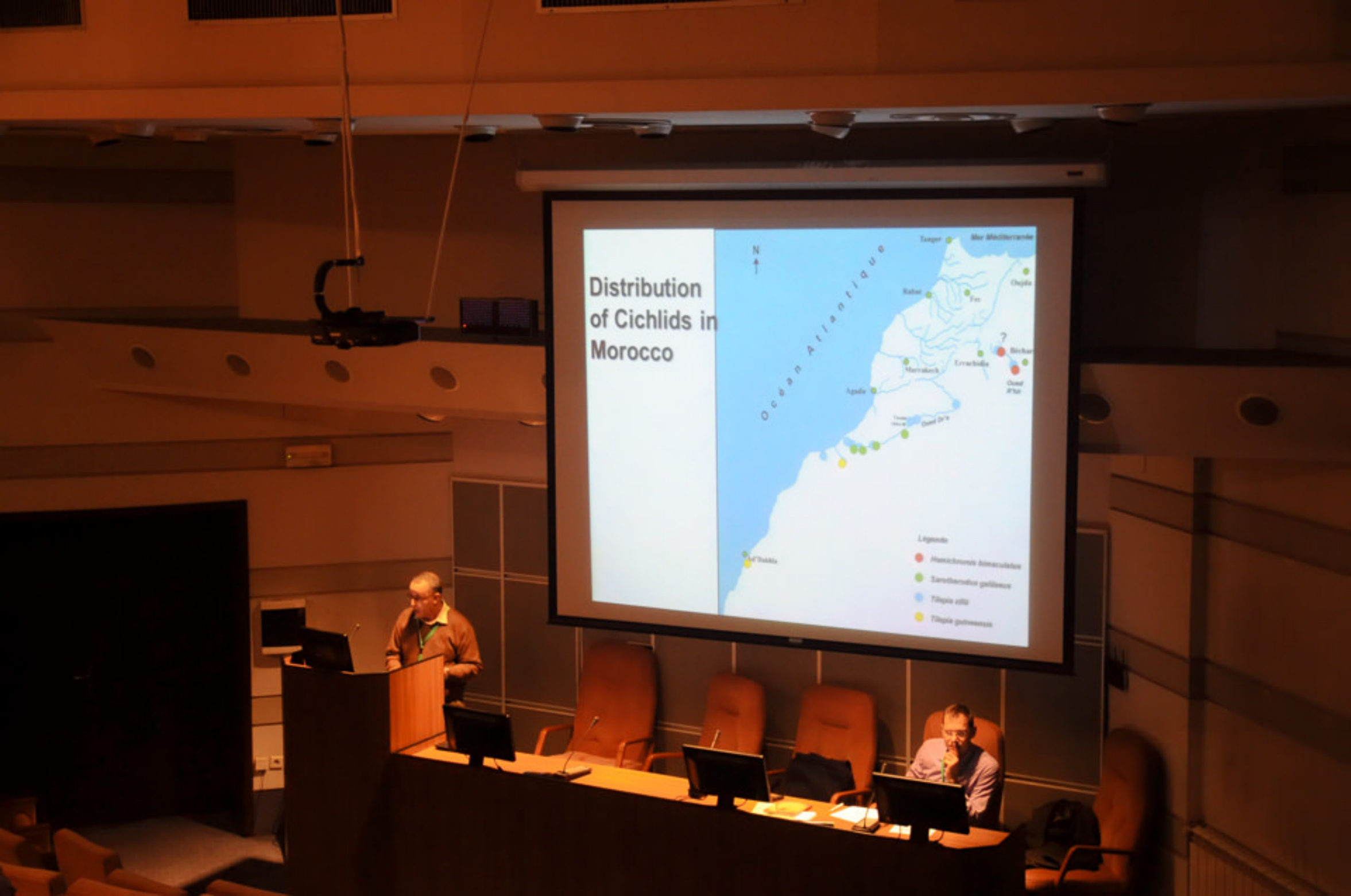

SEBKHET IMLILY
Ad-Dakhla
Baie d'Ad-Dakhla
ElArgoub
Océan Atlantique
Partie prospectée de la Sebkha
Sebkhet Imlily
Baie de Cintra
N
Océan Atlantique

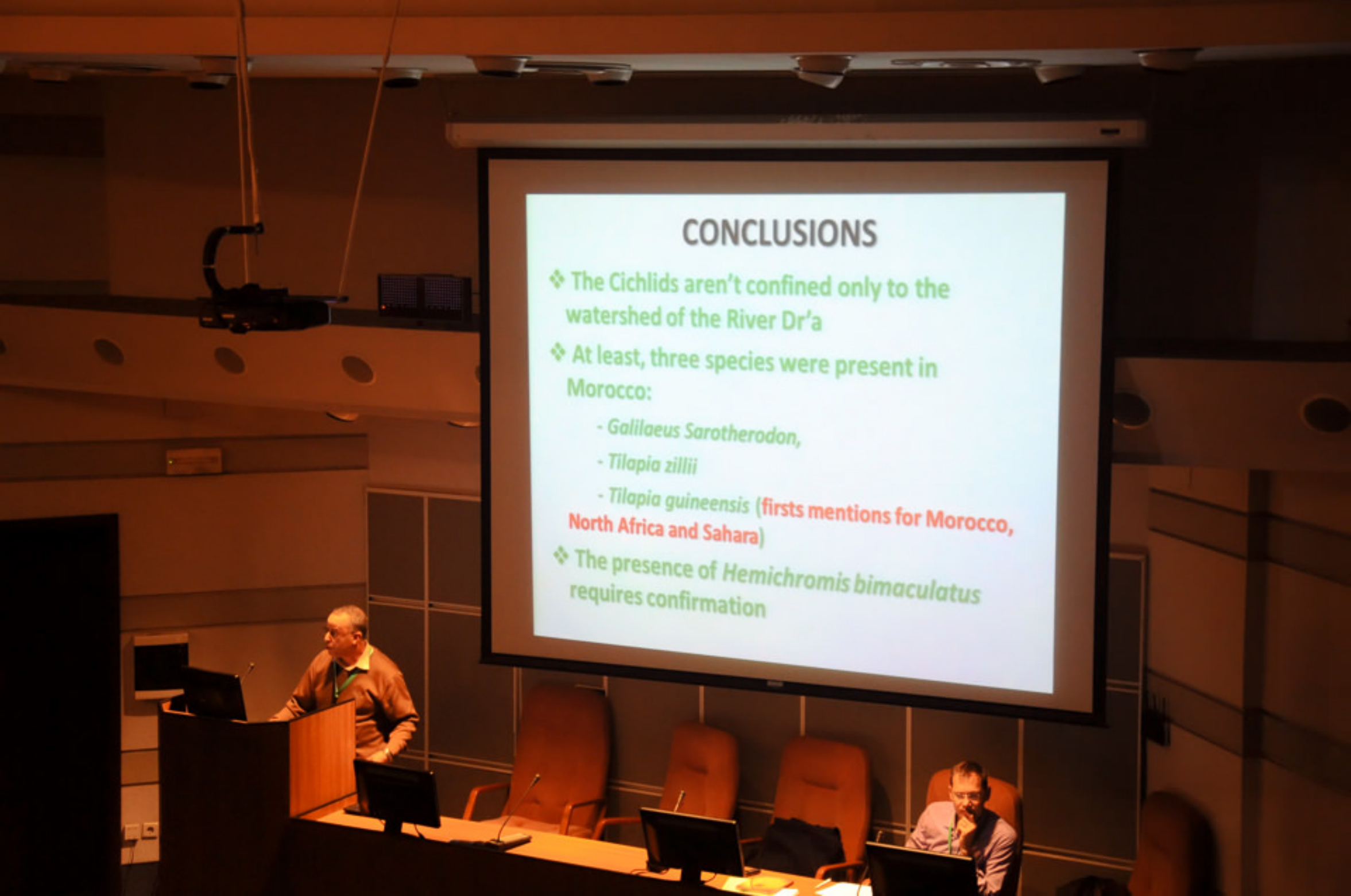

Sebkhet Imlily : more than 160 holes
of permanent and hypersaline water,
in desert area


World distribution of *Tilapia guineensis* before our discoveries
Fleuve Sénégal

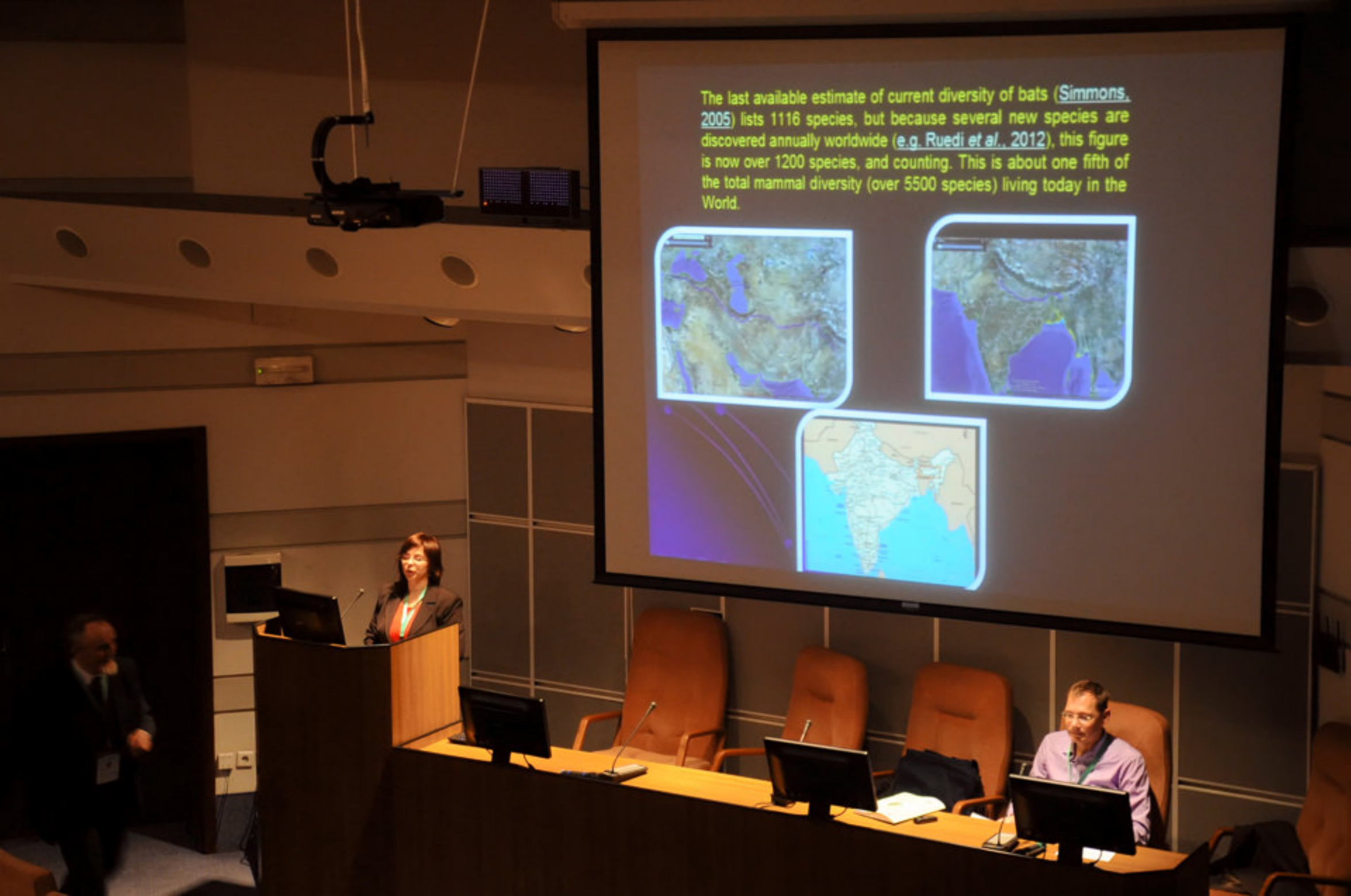

Two new stations of *Tilapia guineensis*, 700 km from each other and from Senegal River
Oued Aabar
Sebkhet Imilly
Fleuve Sénégal


The discovery of *Tilapia guineensis* at Imlily had led us to:
❖ review collections of Cichlids conserved in the National Museum of Natural History, Scientific Institute of Rabat,
❖ make further surveys during several field missions
⇨
Update the inventory of Cichlids in Morocco and reshape the distribution of different


Distribution of Cichlids in Morocco
N
Océan Atlantique
Mer Méditerranée
Tanger
Oujda
Rabat
Fes
Marrakech
Errachidia
Agadir
Légende


CONCLUSIONS
The Cichlids aren't confined only to the watershed of the River Dr'a
At least, three species were present in Morocco:
- Galilaeus Sarotherodon,
- Tilapia zillii
- Tilapia guineensis (firsts mentions for Morocco, North Africa and Sahara)
The presence of Hemichromis bimaculatus requires confirmation


Chiroptera fauna from Meghalaya - results of the expedition Caving in the Abode of the Clouds Project (2011-2012 Jaintia Hills), India
Manuel Ruedi (1), Jayant Biswas (2), Oana Chachula (3), and Thomas Arbenz (4)


The last available estimate of current diversity of bats (Simmons, 2005) lists 1116 species, but because several new species are discovered annually worldwide (e.g. Ruedi *et al.*, 2012), this figure is now over 1200 species, and counting. This is about one fifth of the total mammal diversity (over 5500 species) living today in the World.


Caving in the Abode of the Clouds Expedition
DISTRICT MAP OF MEGHALAYA
ASSAM
SHILLONG
BANGLADESH


Species of bats
This medium-sized horseshoe bat (mean forearm length measured: FA 51.5mm) is characterized by relatively short ears and a nose leaf with a continuously arched process, when viewed in profile .
-Ultrasounds peak frequency at 77.8 kHz.
- common and widespread in the foothills of the Himalayas, including Meghalaya and extends its distribution into most of South-East Asia
- 8 individuals recorded here were caught at dusk while flying low in the forest understorey surrounding cave entrances.
-They probably roosted inside the caves
-Ecology of species is not well known
Rhinolophus affinis – Intermediate Horseshoe bat


Species of bats
• Rhinolophus luctus –
Wooly Horseshoe bat

Alien species in Europe

- ~12000 alien species (www.europe-aliens.org)
- ~10-15% have documented impact

- prioritise invasive alien species according to their impact

CZGA

Annual Zoological Congress of "Grigore Antipa" Museum

ROMANIAN SPECIES OF LUCANIDS (COLEOPTERA: SCARABAEOIDEA: LUCANIDAE) IN THE COLLECTIONS OF GRIGORE ANTIPA NATIONAL MUSEUM OF NATURAL HISTORY

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INTRODUCTION

Of the sixteen lucanid species which are mentioned in Europe, only seven species / subspecies are known in the Romanian fauna: *Aesalus scarabaeoides scarabaeoides* (Panzer), *Ceruchus chrysomelinus* (Hochenwarth), *Sinodendron cylindricum* (Linnaeus), *Lucanus cervus cervus* (Linnaeus), *Platycerus caraboides caraboides* (Linnaeus), *Platycerus caprea* (De Geer) and *Dorcus parallelipipedus* (Linnaeus). These species / subspecies belong to four subfamilies according to the Catalogue of Palaearctic Coleoptera (Bartolozzi & Sprecher-Uebersax, 2006).

MATERIAL AND METHODS

We examened the specimens from the following collections:

- Palaearctic Coleoptera Collection which contains Eduard Fleck, Deszö Kenderessy, Fridrich Deubel and Arnold Lucien Montandon collections, acquired between 1883-1923 and specimens collected by Richard Canisius;
- "Dr. *Nicolae Săvulescu*" collection acquired between 1961-1982;
- Lucanidae collection organized by us, containing specimens collected by dr. Nicolae Săvulescu, Emil Varadi, specialists of the Museum and their collaborators, and specimens donated by Viorel Ungureanu, ing. Igor Celanu, dr. Vladimir Brădescu and dr. Mihai Şerban Procheş.

RESULTS

In the Museum's collections all seven species/subspecies are present. After studying the lucanids we can conclude that *Dorcus parallelipipedus* (Linnaeus) and *Lucanus cervus cervus* (Linnaeus) are well represented in our collections, unlike the other five species. Most specimens were collected by the Museum's specialists within different research projects (the Romanian Plain, the Danube Delta, Maramureş county). *Aesalus scarabaeoides scarabaeoides* is known only from Comana forest (Giurgiu county, coll. A. L. Montandon) and *Platycerus caprea* (De Geer) is known from Cruce (Suceava county, coll. A. L. Montandon) and Jiul de Vest valley (Gorj county, coll. A. Vasiliu). *Ceruchus chrysomelinus* (Hochenwarth), with a montane distribution, was not collected recently, the last specimens were collected in 1974 by dr. Nicolae Săvulescu.

Lucanus cervus is protected by the national legislation, being included in the Annexes 3 and 4.A of OUG 57/2007, on the regimen of the protected natural areas, conservation of the natural habitats, of wild flora and fauna. It is registered in the second appendix of the Habitats Directive of the European Union from 1992, which requires that member states set aside Special Areas of Conservation. The species is also registered in the third appendix of the Convention on the Conservation of European Wildlife and Natural Habitats (Berne Convention) of 1982.

ACKNOWLEDGEMENTS

We sincere thanks we due to my colleagues dr. Alexandru Mitoi for providing the distribution maps and Mr. Ionuţ Iorgu for the photos.

REFERENCES

BARTOLOZZI, L. & SPRECHER-UEBERSAX, 2006 - Lucanidae. In: AUDISIO, P. (ed.) Fauna Europaea: Coleoptera, 3. Fauna Europaea version 1.1, http://www.faunaeur.org/

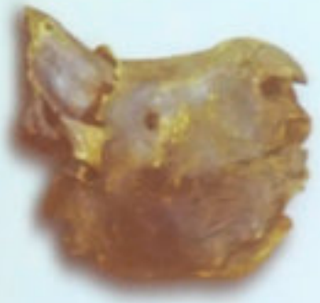

M. Cherepanov, T. Obada, S. Grigoriev, G. Novgorodov
New localities of the mammoth fauna in the basin of the Kolyma River (Northeastern Russia)


M. Cheprasov, T. Obadă, S. Grigoriev, G. Novgorodov
New localities of the mammoth fauna in the basin of the Kolyma River (Northeastern Russia)


The Republic of Sakha (Yakutia)


Распространение многолетнемерзлых пород (ММП)

Unique finds of mammoth fauna animals with soft tissues from Republic of Sakha (Yakutia)



Viljuskiy rhinoceros, 1771

Lenskiy mammoth, 1799

Verkhoyanskiy rhinoceros, 1877

Lyakhovskiy mammoth, 1903


Tchekurovskiy mammoth, 1960
Tirekhtyakhskiy mammoth, 1970
Berelekh wolverine, 1970
Shandrin mammoth, 1972
Churapchinskiy rhinoceros, 1972
Muksunuokha mammoth, 1994

XXI century:

Yukagir mammoth, 2002

Oimyakon baby mammoth, 2004

Koluma rhinoceros, 2007

2009:

Khroma baby mammoth

Batagai bison calf

Verkhoyanskiy horse

Bison from Alazeya river

2010:

Mammoth Yuka

Horse from Oiogosskiy Yar

Omoloi elk

2011:

Volfs pup from Sualakh

Bison from Yukagir

2013:

Anabar mammoth

Malolyakhovskiy mammoth


Khroma baby mammoth


Khroma baby mammoth


Khroma baby mammoth


Batagaika site


Batagaika site


Verkhoyanskiy horse


Batagai bisons calf


The first research of bison calf by international team of paleontologists