

IVth European Speleological Congress Lans-en-Vercors, 23-30 August 2008



Subterranean Ecosystems and fauna Biospeleological Session 27-29 August 2008



Groupe d'Etude de Biospéologie
Commission Scientifique de la FFS
<http://environnement.ffspeleo.fr/biospeologie/>



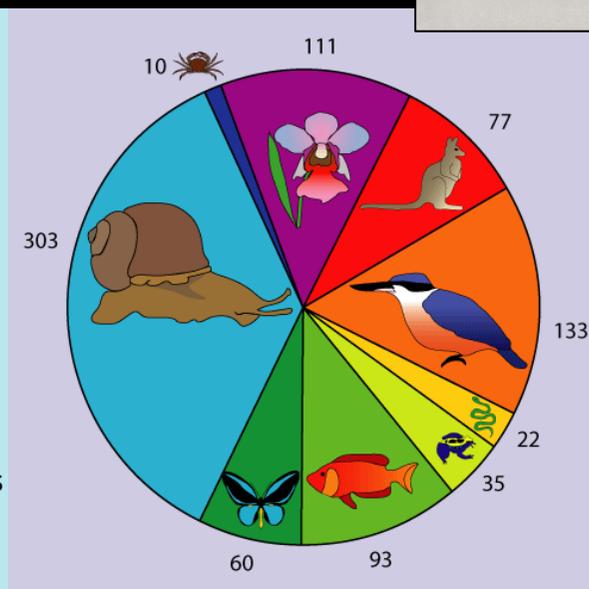
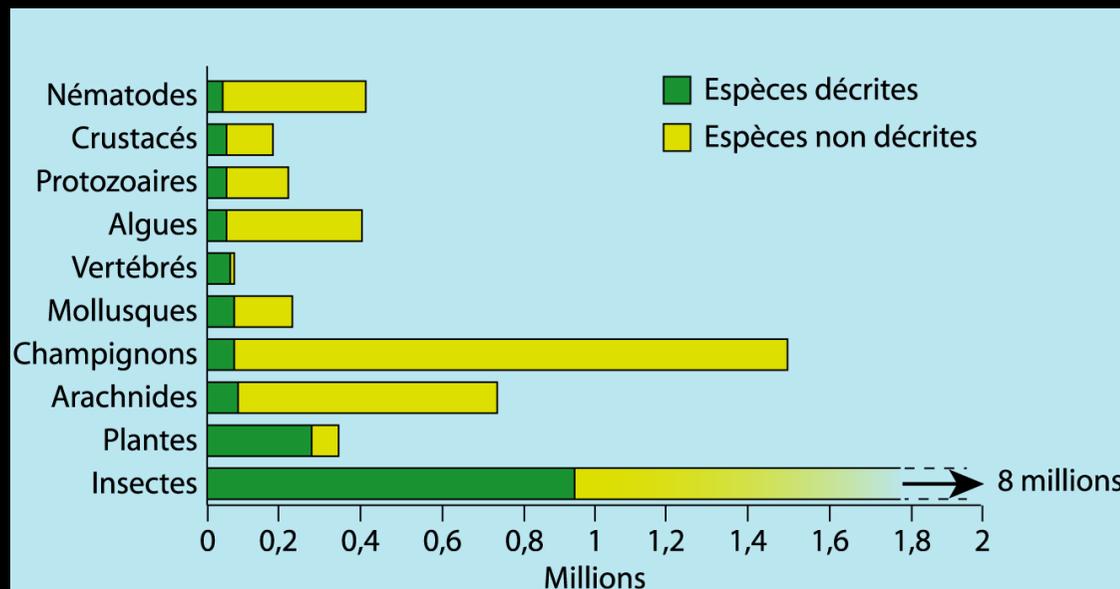
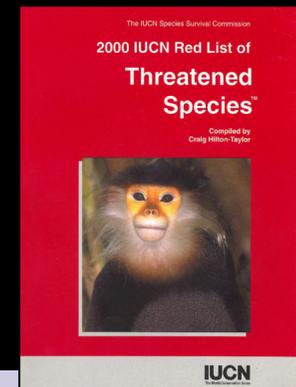
1. General context
2. Presentation of the Biospeleological Session
3. Recommendations to the speakers

1. General context



Worldwide alpha-diversity: current estimation

- ▶ c.a 1.700.000 described species
- ▶ Estimation: between 10 to 100 millions with a consensus of 14 millions species
- ▶ But ... an alarming extinction rate, 1.000 to 10.000x, the sixth extinction

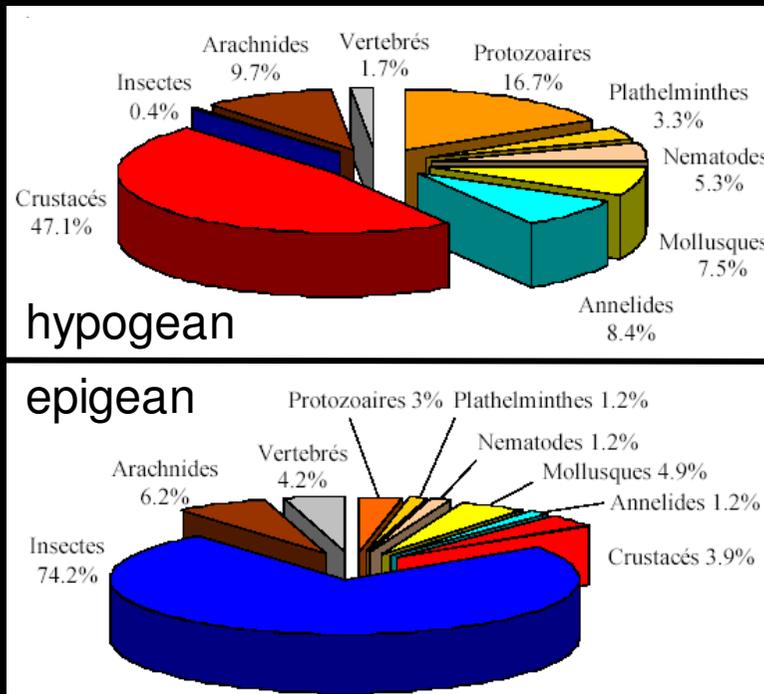


1. General context



Subterranean diversity: the lost world

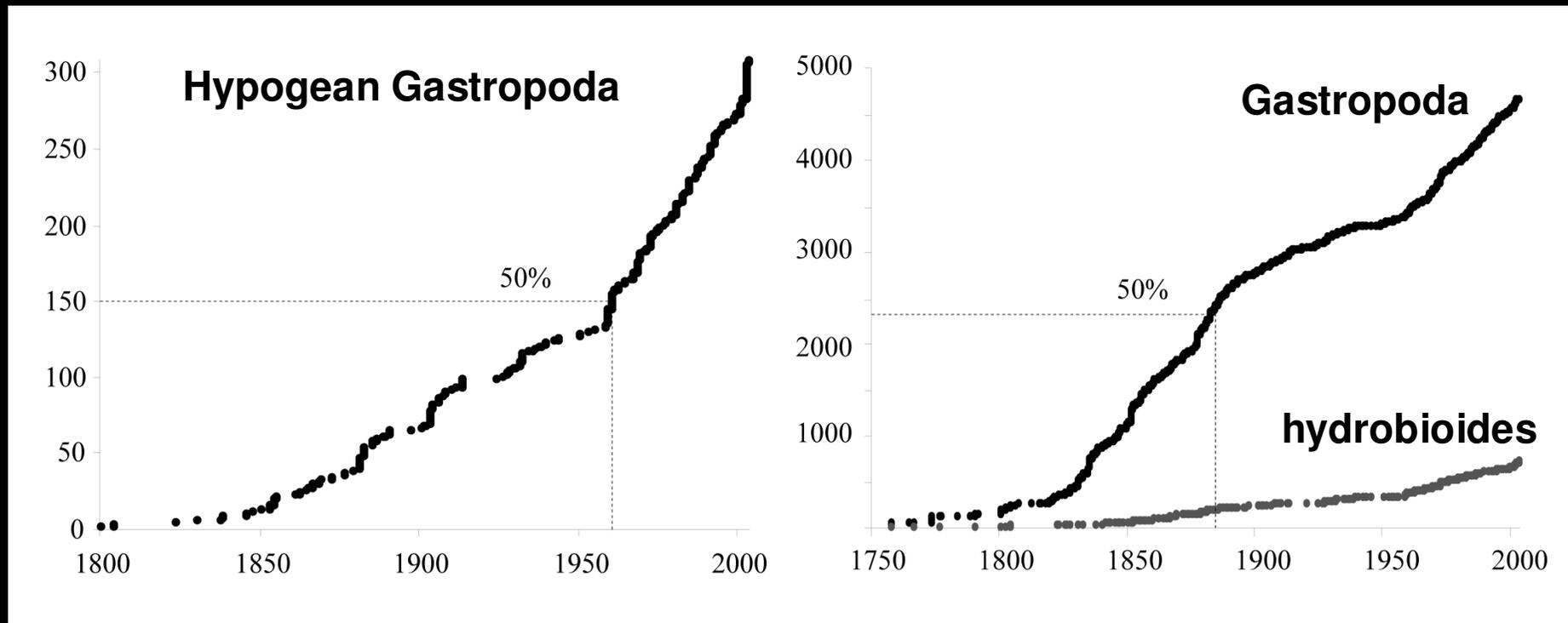
- ▶ 7.000 described species from underground water
- ▶ Estimation: between 50.000 to 100.000 hypogean species
- ▶ Low local diversity with strong endemism



1. General context



Subterranean diversity: a new insight?

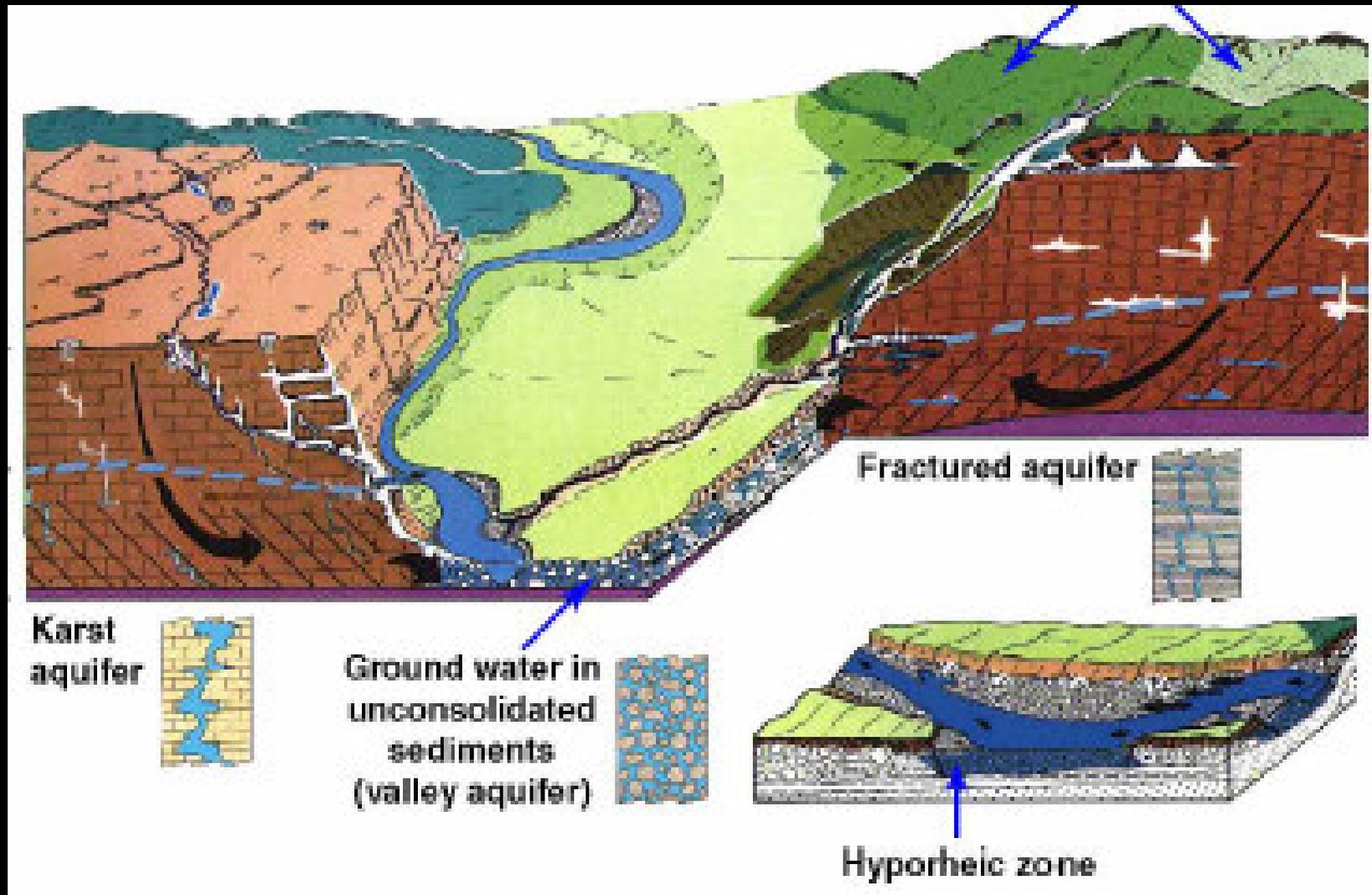


1. General context

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Hypogean habitats



1. General context



Hypogean organisms

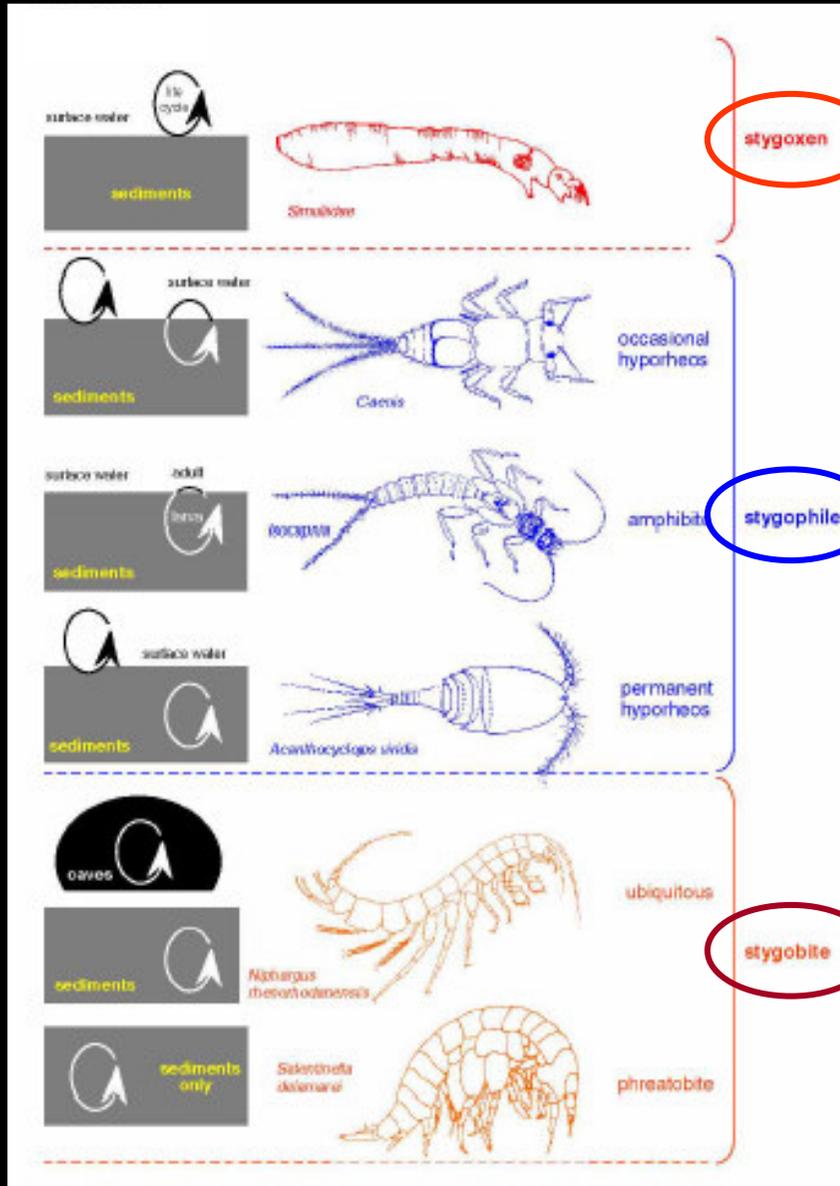
Stygo- : underground waters

Troglo- : cave habitats

-xène : occasional

-phile : partial

-bionte : exclusive



1. General context



Hypogean ecosystems

- No light
- Few temperature variations
- Limited food
- Fragmented habitat

- No primary (photosynthetic) productors
- Sometime chemoautotrophic organisms
- Short and truncated food network



1. General context

Vercors 2008 –Biospeleological Session



How to access to this cryptic biodiversity?



2. Schedule

Vercors 2008 –Biospeleological Session



Wednesday 08/27/2008 – AM, First day

9h00 – 9h30 - J.M. BICHAIN – Presentation of the session

9h30 – 10h00 - Arnaud FAILLE – Subterranean fauna of Pyrénées

10h00 – 10h30 - Sofia REBOLEIRA - Cave Coleoptera from Estremenho Karstic Massif, Portugal

10h30 – 11h00 – coffee break

11h00 – 11h30 - Ruben CENTELLES – The ecosystem of a Vercor's cave : the Scialet des Beaumettes (France)

11h30 – 12h00 - Vincent PRIE – Stygofauna and hydrogeology: tracing aquifers with beta-diversity

12h00 – 12h30 - Pierre MARMONIER – Research from subterranean Ecology and hydrobiology research group at university Lyon I

2. Schedule

Vercors 2008 –Biospeleological Session



Thursday 08/28/2008 – AM, second day

9h00 – 9h30 - Céline COLSON, Florian MALARD, Lara KONECNY and Christophe DOUADY (speaker) – Genetic of underground animals

9h30 – 10h00 Ruben CENTELLES - Epikarst and botanic in the French Pyrénées mountains

10h00 – 10h30 - Céline COLSON – Ecophysiology of *Niphargus rhenorhodanensis*

10h30 - 11h00 - coffee break

11h00 – 11h30 - Marcel MEYSSONNIER – Biospeleology training in the FFS structures

11h30 – 12h00 - Jean-Michel BICHAIN - Win-Timdouine 2008 : biospeleological expedition in the longest karstic network of Africa (Agadir, Morocco)

2. Schedule

Vercors 2008 –Biospeleological Session



Thursday 08/28/2008 – PM, second day

13H30 - 19h00 – Field trip, sampling workshop

Animators: Céline COLSON and *Furets Jaunes* group

Friday 08/29/2008 – AM & PM, Third day

9h00 – 9h30 - Furets Jaunes Seyssins - La commission Biocavernitaco

9h30 – 16h30 - Table ronde et groupes de travail

Thématique abordée “Du GEB au GEEB : un Groupe d’Etude Européen de Biospéologie pour une pépinière de projets au niveau européen ? »

Animators: J.M. BICHAIN et V. PRIE

3. To the speakers



- **Electronical presentation**

15' for the presentation (c.a. 15 slides)
10' for questions and discussion
5' for change

- **Electronical Format**

Power point or PDF on USB key

- **Please, take care to the translators**

- **Inscription to the biospeleological field session (08/28/2008 PM) and to work shop (08/29/2008 AM and PM)**



27-29 august 2008 - Vercors 2008 –Biospeleological Session



Many thanks for your attention

and

welcome to the biospeleological session