


# All Taxa Biodiversity Inventory + Monitoring

in the Mercantour National Park PNM  
and  
Alpi Marittime Natural Park PNAM

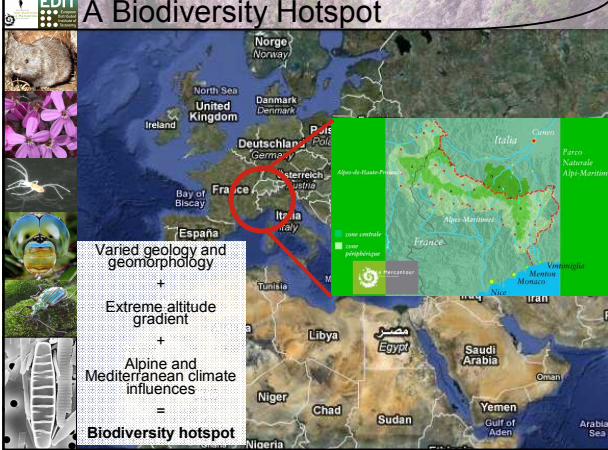
**Marie-France Leccia**  
**Marta De Biaggi**



Alpi Marittime e Mercantour  
Alpi Marittime e Mercantour

DISCOVER LIFE IN AMERICA'S 14TH ANNUAL ATBI CONFERENCE:  
Climate Change and Biodiversity: Approaches, analysis and synthesis  
Great Smoky Mountains National Park  
April 7 - 9, 2011

## A Biodiversity Hotspot



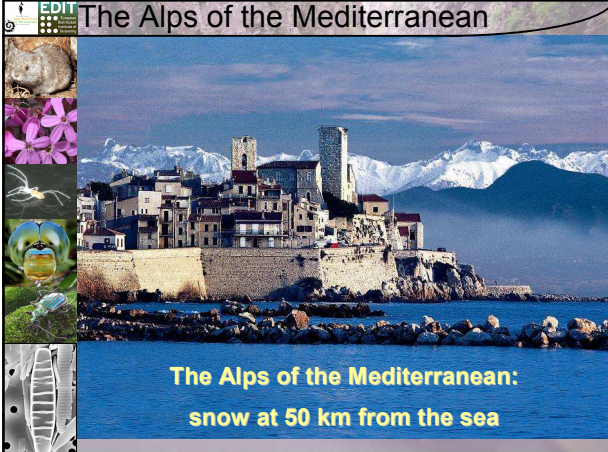
Varied geology and geomorphology  
+  
Extreme altitude gradient  
+  
Alpine and Mediterranean climate influences  
=  
Biodiversity hotspot

## Mercantour/Marittime Territory



- ✓ Species
- ✓ Tourism
- ✓ Creation
- ✓ Subscription to the UNESCO World Heritage List...

## The Alps of the Mediterranean



**The Alps of the Mediterranean:  
snow at 50 km from the sea**

## EDIT – A Network of Excellence

### European Distributed Institute of Taxonomy

**Netherlands**

- University of Amsterdam
- National Herbarium Netherlands
- Natural History Museum Naturalis
- Centraalbureau voor Schimmecultures

**Belgium**

- Royal Belgian Institute of Natural Sciences
- Royal Museum for Central Africa
- National Botanic Garden of Belgium

**Denmark**

- Natural History Museum

**Germany**

- Staatliches Museum für Naturkunde
- Freie Universität Berlin Botanical Garden and Botanical Museum
- Museum für Naturkunde der Humboldt-Universität

**United Kingdom**

- Royal Botanic Gardens, Kew
- Natural History Museum

**France**

- Muséum National d'Histoire Naturelle
- Institut National de la Recherche Agronomique

**Spain**

- Consejo Superior de Investigaciones Científicas

**USA**

- National Museum of Natural History (Smithsonian)
- Missouri Botanical Garden

**RUSSIA**

- Zoological Institute (Russian Academy of Science)
- Komarov Botanical Institute (Russian Academy of Science)

**Poland**

- Polish Academy of Sciences : - Museum and Institute of Zoology
- Institute of Botany

**Slovakia**

- Slovakian Academy of Sciences
- Institute of Botany
- Comenius University

**Hungary**

- Hungarian Natural History Museum

**Non-Institutional Partners**

- Species 2000
- Society for the Management of European Biodiversity Data

## EDIT – 2006/2011

Coordination And integration

WP1  
EDIT coordination and management

Coordination And integration	Resources	Products
WP1 EDIT coordination and management	WP2 Integrating the expert and expertise basis	WP5 Internet Platform for Cybertaxonomy
	WP3 Integrating the infrastructure basis	WP6 Unifying Revisionary taxonomy
	WP4 Coordinating research	WP7 Applying taxonomy to conservation
		WP8 Training and Public Awareness

### Objectives of EDIT Workpackage 7 (WP7)

„Applying taxonomy to conservation“  
Mobilising taxonomic expertise  
Providing (new) biodiversity data for „protected areas“

### ATBI+M : All Taxa Biodiversity Inventories and Monitoring

Large-scale field inventories to record all biodiversity” - repeatedly

**Germany**

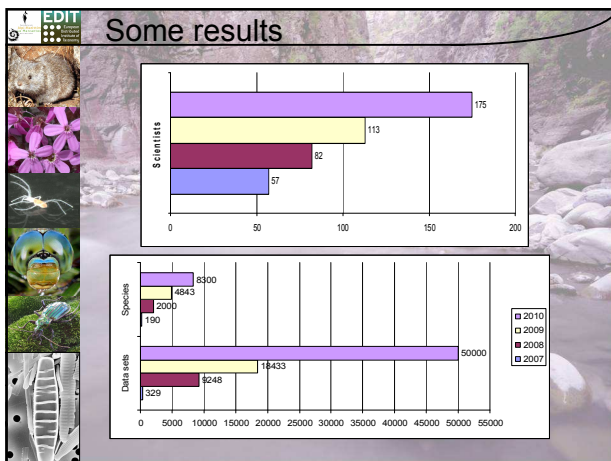
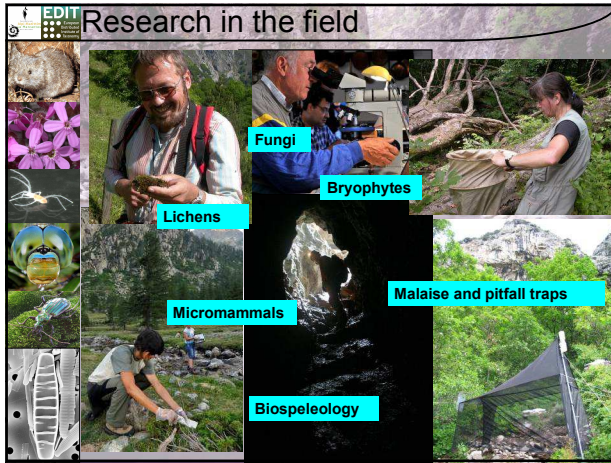
- Biosphärenreservat Spreewald

**Slovakia**


## ATBI + M Project


Official project kickoff in December 2006

Already 4 years of fieldwork, sampling, data collecting and recording




### New species for the area / to science






Palpigrada



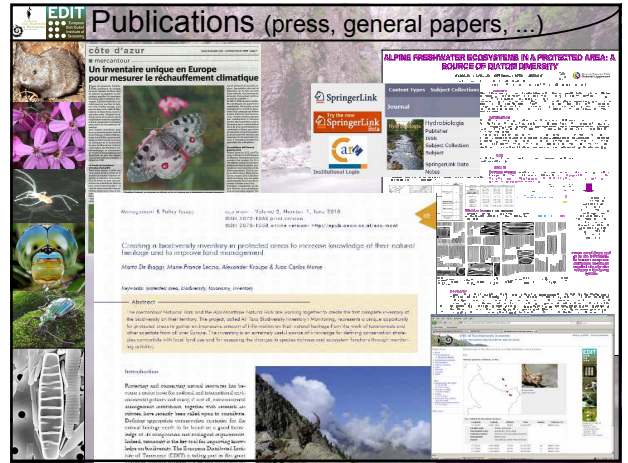
Trachyphloeus sp



Arctia sp.

And crustacean, collembola, pseudoscorpion, diatoms ...

### Publications (press, general papers, ...)



Un inventaire unique en Europe pour mesurer le réchauffement climatique

ALPINE FRESHWATER ECOSYSTEMS IN A PROTECTED AREA: A SOURCE OF CLIMATE RESILIENCE

Clipping a bioinventary inventory in protected areas to increase knowledge of their natural heritage and to improve their management

Abstract: The present study aims to assess the impact of climate change on the biodiversity of the Alps. The project, called 'Bio-Inventary in Protected Areas', is a unique opportunity to inventory the natural heritage of the Alps. The project is a multi-disciplinary effort involving scientists from different disciplines. The project is a multi-disciplinary effort involving scientists from different disciplines. The project is a multi-disciplinary effort involving scientists from different disciplines.

### Education and public awareness



EDIT Summer School 2008

Studying biodiversity in primary and high schools from 2009

BioBlitz/GEO Action Day 2010



### Transboundary Integrated Action Plan - PIT



Fondo europeo di sviluppo regionale  
Fonds européen de développement régional

Programma Azione 2007-2013  
Programme Action 2007-2013  
Esercizio dei fondi  
Esercizio des fonds



2010 - 2012

**Improving ATBI+M's efforts**

**Updating the protected invertebrates and non-vascular flora species lists**

A better understanding of our **ecosystem functioning**

- *Indicator species* (pollution, climate change...)
- *Biological corridors*...

**Identifying and protecting Habitats**  
(habitats and species in the EU Habitat Directive)

**Improving land management techniques**  
thanks to an increased knowledge of the impacts of human activities

**Focus on ...**

Promoting standards, protocols and tools - for field work

Manual on field recording techniques and protocols for All Taxa Biodiversity Inventories and Monitoring (ATBI+M)

**New technologies : a challenge !**

- Barcoding
- Data base and **Geographic Information System** and **GBIF**

**Ecological studies**

- ✓ **The local threats** (abandoned traditional activities, environment dynamics, fragmentation, pollution, epizootic linked to interactions between domestic animals and wildlife...)
- ✓ **and global threats** (climate change, emerging diseases e.g. batrachochytridium...)

**Public outreach**

Training young taxonomists  
PIT Summer Schools 2011  
Laboratories for compulsory school

Collaboration with scientific institutions  
Exhibitions  
PIT Summer Schools 2011

**Biodiversité Le Mercantour dévoilé aux Parisiens**

**UN FUTURO DIVERSO**

23 settembre 2010 - 18 giugno 2011

Thank you for your  
attention!



Photos: EDIT, M. De Biaggi, E. Falasco, M. Isala, MRSN, PNAM, PNM, F. Tomasitelli, P. Richau