

Celebration of the World Environment Day

by

M'goun Geopark and AESVT Associations

Azilal in May 5 2120

## **BIODIVERSITY, AN ESSENTIAL COMPONENT OR THE M'GOUN GLOBAL GEOPARK DEVELOPMENT**



**L'Association Géoparc M'Goun  
et l'Association des Enseignants  
des Sciences de la Vie et de la Terre au Maroc  
Section de Beni Mellal**



### **LA JOURNÉE MONDIALE DE L'ENVIRONNEMENT**

**Sous le thème**

**La biodiversité composante  
essentielle pour le développement  
du Géoparc M'goun**



**Samedi 5 Juin 2021**



**Au musée Géoparc M'goun á Azilal**

## **Human–carnivore conflict and threatened species management and conservation in the central High Atlas Mountains**

**Abderrazak El Alami:** *Laboratory of Pharmacology, Neurobiology, Anthropobiology and Environment, Faculty of Sciences Semlalia, Cadi Ayyad University, Marrakech, Morocco; Khawarezmi High school, Academy of Education and Training of Beni Mellal-Khenifra, Ministry of National Education, Vocational Training, Higher Education and Scientific Research of Morocco.*

## **Geosites inventory and valorization in the M'goun geopark**

**Hicham Bouzekraoui:** *Research Group of Landscapes Dynamic, Risks and Patrimony, Faculty of Letters and Human Sciences, Sultan Moulay Slimane University, Beni Mellal, Morocco.*

## **Floristic richness and habitat diversity in the central High Atlas, Morocco**

**Abdelali Boulli:** *Ecology and Sustainable development Laboratory, Sultan Moulay Slimane University, Faculty of Science and Technology, B.O.523, Beni Mellal, Morocco*

## **Fauna diversity and biodiversity conservation in the central High Atlas**

**Abderrazak Fattah:** *Laboratory of Bio-Geosciences and Materials Engineering, Higher Normal School, Hassan II University, Casablanca, Morocco.*

## **The Barbary macaque *Macaca sylvanus* in the tourist valley of Ouzoud, central High Atlas**

**Abderrazak El Alami:** *Laboratory of Pharmacology, Neurobiology, Anthropobiology and Environment, Faculty of Sciences Semlalia, Cadi Ayyad University, Marrakech, Morocco; Khawarezmi High school, Academy of Education and Training of Beni Mellal-Khenifra, Ministry of National Education, Vocational Training, Higher Education and Scientific Research of Morocco.*

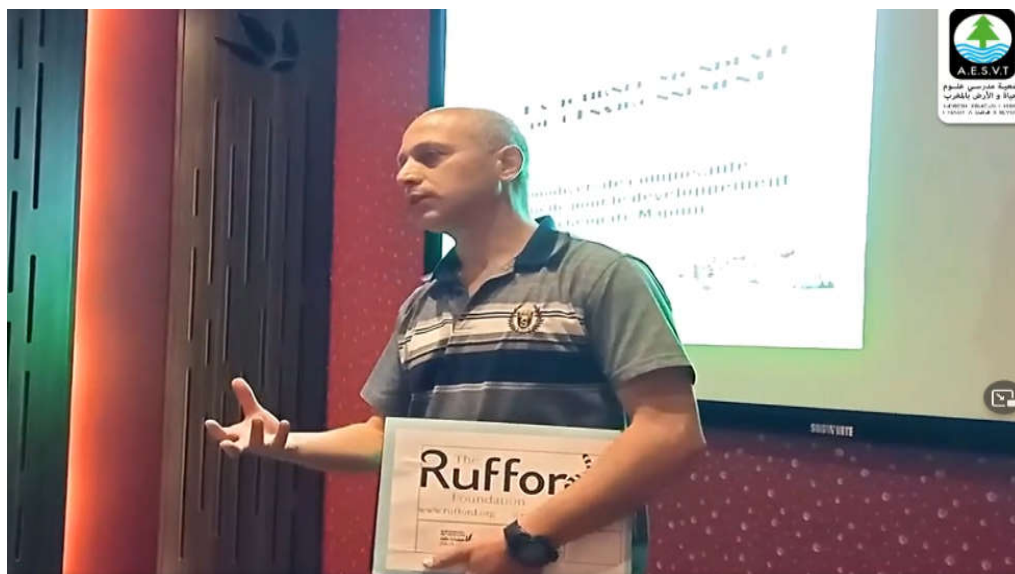
**KEYWORDS:** M'goun geopark, Geosites, Geotourism, Fauna species, Human-carnivore interaction, Local people opinion, Conservation.

**ABSTRACT:** The M'Goun Geopark covers an area of 12 791 km<sup>2</sup> including 5 730 km<sup>2</sup> labeled "Unesco Global Geopark" by UNESCO in September 2014. The geosites of the M'Goun Geopark have a high geological value and are conducive to geotourism and geo-education valorization. The central High Atlas Mountains are home to a variety of animal species, especially mammals with more than 24 wild mammal species. In this area, the effect of human is among the major problems responsible of the decline of carnivore species and the human-carnivore conflict may act as factors in the decline of carnivore populations. The Barbary macaques can facilitate ecotourism, but the inclusion of human food and human disturbance often results in the modification of macaques' behavior. The objective of this work was to determine the geosites inventory and valorization, fauna diversity and biodiversity conservation, and the human-carnivore conflict and threatened species management in the M'goun global geopark, central High Atlas of Morocco. Based on this study, we recommend several measures to reduce the likelihood of the threatened species becoming extinct in the central High Atlas of Morocco.

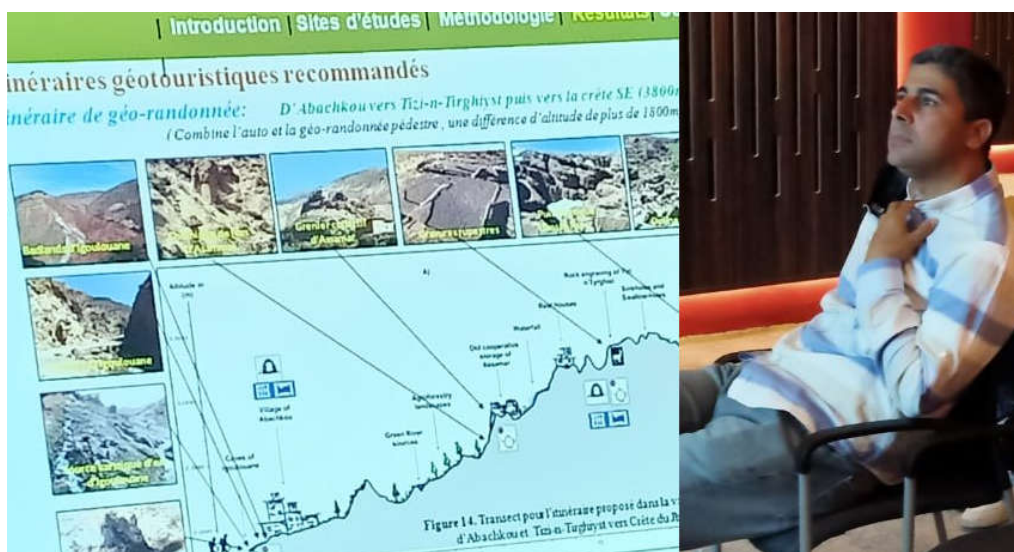
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**Abdelwahab Semlali:** President of the AESVT -Beni Mellal section- and vice president of the M'goun geopark association (Protection and promotion of biodiversity in the M'goun UNESCO Global Geopark)



**Abderrazak El Alami:** Human–carnivore conflict and threatened species management and conservation in the central High Atlas Mountains, Morocco



**Hicham Bouzekraoui:** Geosites inventory and valorization in the M'goun geopark, central High Atlas, Morocco





**Abdelali Boulli:** Floristic richness and habitat diversity in the central High Atlas, Morocco



**Abderrazak Fattah:** Fauna diversity and biodiversity conservation in the central High Atlas, Morocco



**Fatima Amkar:** Director of M'goun Geopark Museum (Sustainable management of natural resources and development)



Participants in the celebration of the World Environment Day by the M'goun geopark and AESVT associations, Azilal in May 5, 2121: Abdelwahab semlali, Ahmed El Aanaoui, Ali El Alami, Fatima Amkar, El Hachimi El Hassani, Mohamed Ghalib, Abdelaali Boulli, Driss Masmoudi, Mohamed Ait Mricha, Samira Krimissa, Fatima El Mahi, Mohamed Boulmani, Said Bentouina, Mustapha Hajji, Malika Semmane, Abderrazzak Fettah, and Abderrazzak El Alami.

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\*Corresponding author: Abdelwahab Semlali  
Beni Mellal, Morocco  
E-mail: usemlaliabdelwahab2019@gmail.com  
Tel : +212674147671