

Boumalne Dades Geological Landscapes and their environment

Idir EL konty, Ahmed Algouti, Abdellah Algouti

University Cadi Ayyad, Faculty of Science Semlalia Laboratory 2GRNT; Geology Department. BP 2390, 40000, Marrakech, Morocco

INTRODUCTION

The region of Boumalne Dades is located north-east of Ouarzazate between the Central High Atlas and the Jbel Saghro, the Dades is a river nearly 200 km long, half of which is located in mountainous area and characterized by tourist landscapes (photo A1, B1, and C1). this region is characterized by sedimentary formations of Mesocenozoic age, in which these landscapes develop (monkey pates, haired maidens and gorges).

MATERIAL AND METHODS



Figure 1. Photos A1, A2 : Location of the region.

RESULTS AND DISCUSSION

Pate des singe

Photographs A2, B2 and B3 show one of the sites most visited at the level of the cliffs of Tamlelt de Dades, who to constitute by a conglomeratiquie training (training of Ait Aarbi) of the éocènes, in whom develops what they call the pates of monkey preserve with his beauty.

The cutting of the Ait Aarbi formation by families and diaclases give rise to erosion processes. Water seeps in and flows into these areas of weakness and reacts with the less resistant benches, creating what is called monkey pates.



Figure 2. B1, B2: Panoramic view of monkey pasta.

Dades Gorges

Dades Gorges, formed during the Jurassic phase (200 to 140 million years ago) to the Eocene (55 to 23 million years ago), are one of the most interesting in the south for its geological formations. Then these rocks were exonerated during the alpine orogeny, oligocene. There are several types of gorge in the Dades Valley.

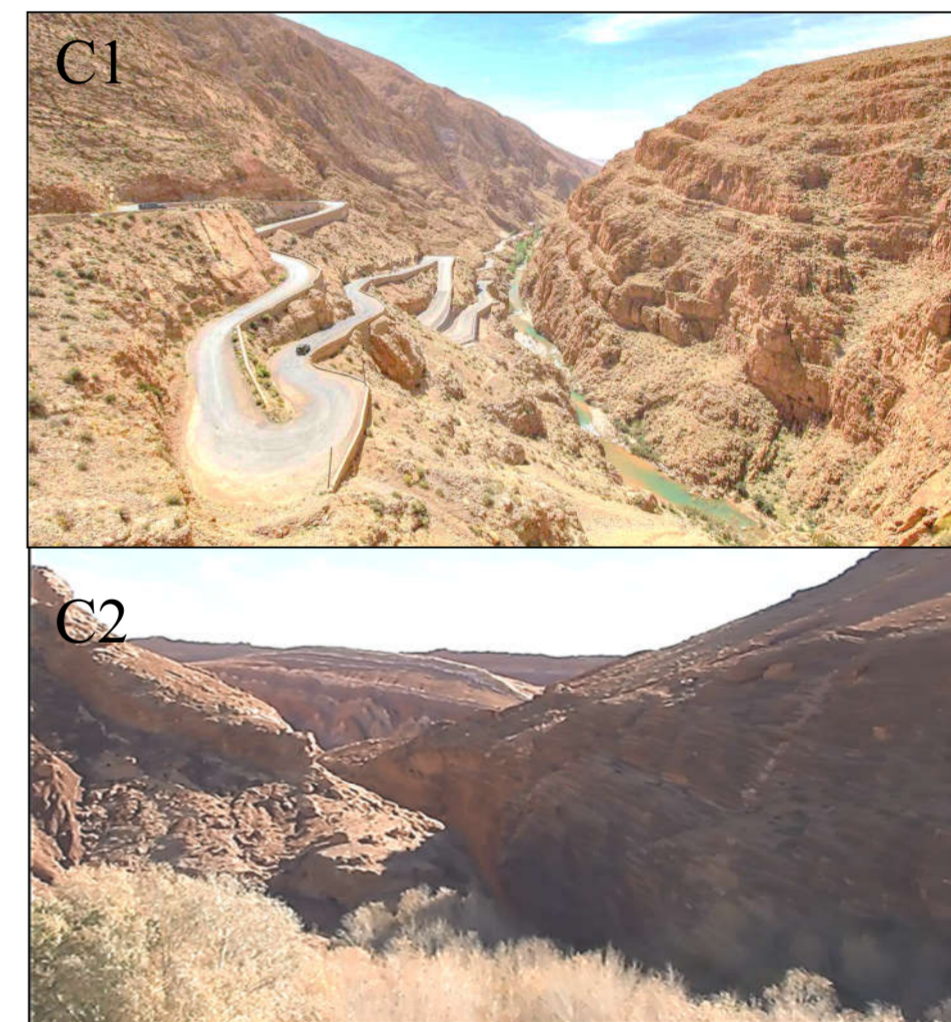


Figure 3 : C1, C2 : Dades Valley Gorges.

Damsels Coiffées de Dades

photo 3 illustrates the damsels wearing the Dades valley, are geological formations that are shaped by the erosive action of rain and runoff from sedimentary layers. Fine materials are torn off, those that are protected by a block can be spared, they then constitute a pillar under the block called 'lady-haired' or fairy chimney.



Figure 4 : D1, D2 : Damsels Coiffées de Dades

Conclusion: The heterogeneity of the rock mass, the geometry and movement of fluids, were therefore the factors responsible for the morphology of landscapes along the Valley of Dades, Visitors are attracted by the beauty of its environments monkey pates, damselflies styled and gorges (national geological heritage).