UNIVERSITÉ HASSAN II - CASABLANCA
FACULTÉ DES SCIENCES BEN M'SIK
DÉPARTEMENT DE GÉOLOGIE

Sociedad Geológica de España

First Circular

Morocco, 23-27 March 2015

Comisión de Petrología, Geoquímica y Geocronología de Rocas Ígneas y Metamórficas de la Sociedad Geológica de España

MAARIF Faculté des Sciences Ben M'sik

Le Laboratoire de Géologie appliquée, Géomatique & Environnement

Organizers:

- Comisión de Petrología, Geoquímica y Geocronología de Rocas Ígneas y Metamórficas CPGG-RIM, Sociedad Geologica de España.
- Laboratoire de Géologie Appliquée, Géomatique et Environnement LGAGE, Faculté des sciences Ben Msik, université Hassan II de Casablanca, Maroc.

The organizing committee is very pleased to invite you to the «*Annual Meeting of the Commission on Petrology, Geochemistry and Geochronology of Igneous and Metamorphic Rocks*» of the Spanish Geological Society to be held in Morocco on 23 - 27 March 2015.

The meeting will be five days long, starting at the faculty of Sciences Ben Msik Casablanca on 23 March, will continue on Ouarzazate through Marrakech (one night). During the field-trips planed on 25 and 26 March two locations of the Anti-Atlas belt will be visited.

The meeting topics are Petrology, Geochemistry and Geochronology. Conferences will be addressed by internationally renowned researchers from Spain, Portugal and Morocco. Keynote talks will be given in the mornings and early afternoons. Late afternoons are dedicated to young MSc and PhD students and post-doctoral fellows (presentations and debates on their research).

Registration fee

The registration fee for the Meeting is 340 € (incl. VAT), including a **DOUBLE ROOM** for 4 nights (+20 €/night in **SINGLE ROOM**). However, we are negotiating a 50 % reduction which will be supported by the University Hassan II, Casablanca, and other sponsors. So, hopefully the registration fee will be 170 €.

Registration fees include the field trips, icebreaker party, lunches, coffee/light refreshments and accommodation in double rooms during the Meeting. Payment can be made by bank transfer, details of which will be announced in January 2015.

Please register sending an email to agcasco@ugr.es and fhaissen@gmail.com. Details are provided in our website:
http://www.ugr.es/~malmolaroko/actividades/2015Antiatlas/antiatlas2015.htm.

Places are limited to 60 participants and will be allocated on a first-come first-serve basis.

Accompanying persons

The accompanying person registration fees are 170 €.

Contact

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Inscription

Send email to malmolaroko@ugr.es

Important dates

- 20th January 2015: Second circular, activation of accommodation booking service.
- 10th February 2015: Final registration, deadline for payment of registration fees.

Format and Themes

This Meeting will be focused on advanced research in Petrology, Geochemistry and Geochronology of Igneous and Metamorphic rocks. Lectures related to those themes will be addressed by keynote speakers in the afternoon of each day.

Young Researchers Participation

Young researchers, MSc and PhD students, as well as post-doctoral fellows within two years of the completion of their PhDs, are invited to present the results of their research. Time slots of 15 minutes (10 + 5) will be given for each talk.

Schedule

1. March 23: Morning meeting in the faculty of Sciences Ben Msik. Afternoon: trip to Marrakesh.
2. March 24: Guided visit to Marrakech. Afternoon: trip to Ouarzazate. Icebreaking party and registration. Presentation of the field trip 1.
3. March 25: Field trip 1 to Bou Azzer inlier. Return to Ouarzazate. Late afternoon: Conferences and young researcher talks. Presentation of field trip 2.
4. March 26: Field trip to the Zenaga inlier and Série de Ouarzazate. Return to Ouarzazate. Late afternoon: Conferences and young researcher talks.
5. March 27: Guided visit to Ouarzazate. Return to Casablanca through Marrakech.

Travel and venue

Logistics and accomodation

Each participant can join the meeting according to flights availability and prices, by flying to Casablanca airport or to Marrakech airport on March 23 or 24 morning. We will be leaving Marrakech to Ouarzazate by bus early in the afternoon of March 24, so participants reaching Marrakech later should make their own travel arraignments to Ouarzazate (bus only). ***However, we encourage all participants to arrive at Casablanca on March 23***.

Accommodation will be in 3-4 stars hotels, in double rooms. As the excursions will be to high mountain regions **all participants should be prepared for both hot and dry, or wet and cold, conditions**. We will use 4x4 cars for transportation in all field trips.

Field trips

Two exciting field trips are programmed for this meeting

Field trip 1: Bou Azze Inlier

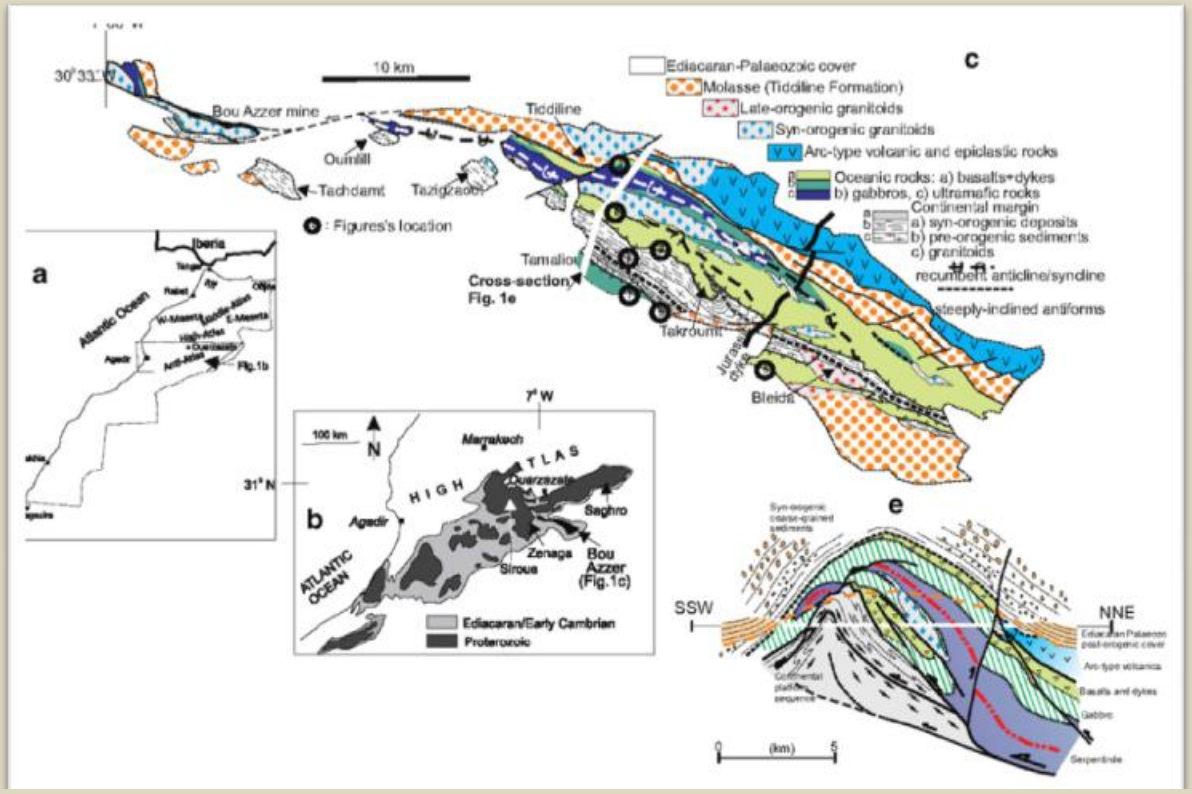
Excursion leader: Prof. Hassan El Hadi

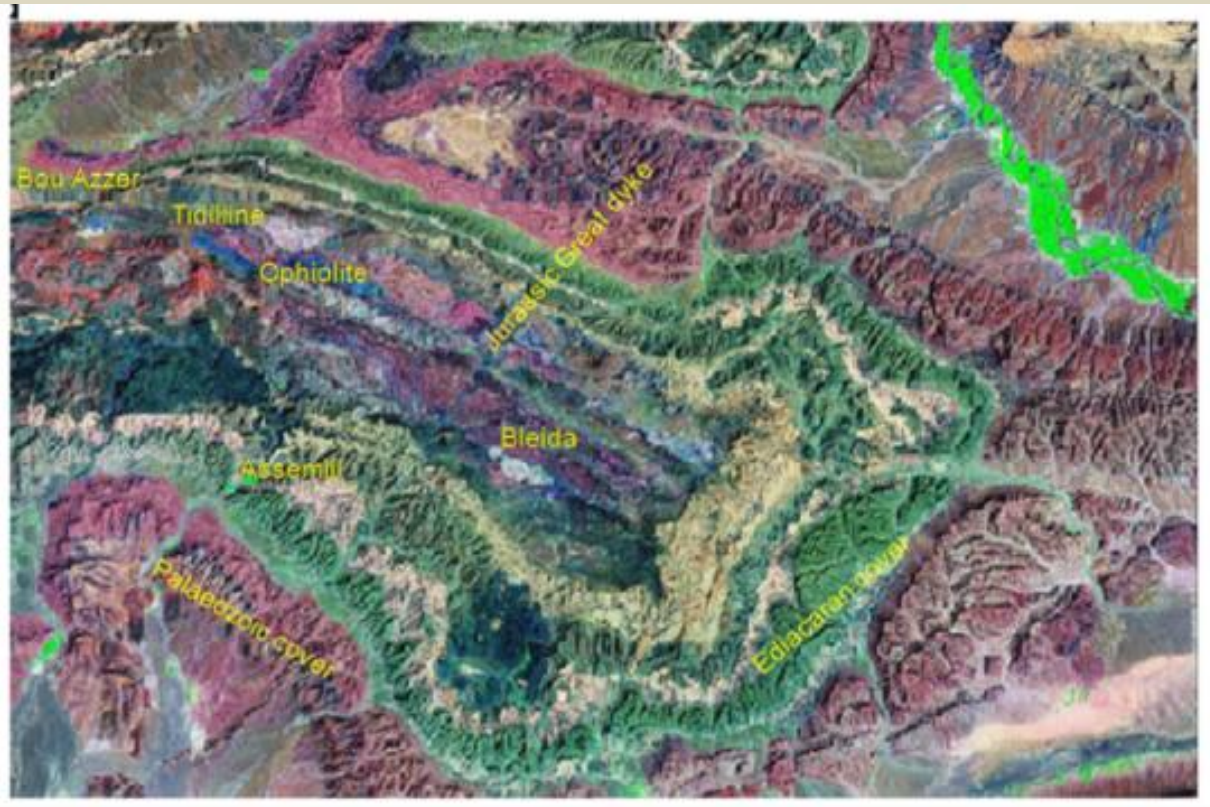
This field trip makes a complete cross-section of the Bou Azzer-El Graara Inlier or "boutonnière", where the Precambrian basement of Anti-Atlas belt crops out.

The Bou Azzer ophiolitic complex marks the suture of the Pan-African orogenic belt. This fragment of old oceanic crust (697±8 Ma) obducted onto the continental margin of the West African Craton during a collisional event that occurred between 650 and 580 Ma. Very well exposed desert outcrops display serpentinites associated with chromite pods and clinopyroxenolites, ultrabasic and basic cumulates, quartz diorite, a sheeted-dyke complex, basaltic pillow lavas, and red cherts, i.e., the set of lithologies composing an ophiolitic sequence.

Other geological units cropping out in the area are the underlying continental margin of the West African Craton, a volcanic arc next to the oceanic crust represented by the ophiolite and overlying unconformable volcanic and sedimentary rocks.

The unusual character of this Neoproterozoic magmatic and tectonic geoheritage site, together with the excellent quality of the outcrops and the relatively easy access to the area, make this complex attractive from both a scientific and a geotouristic perspective.





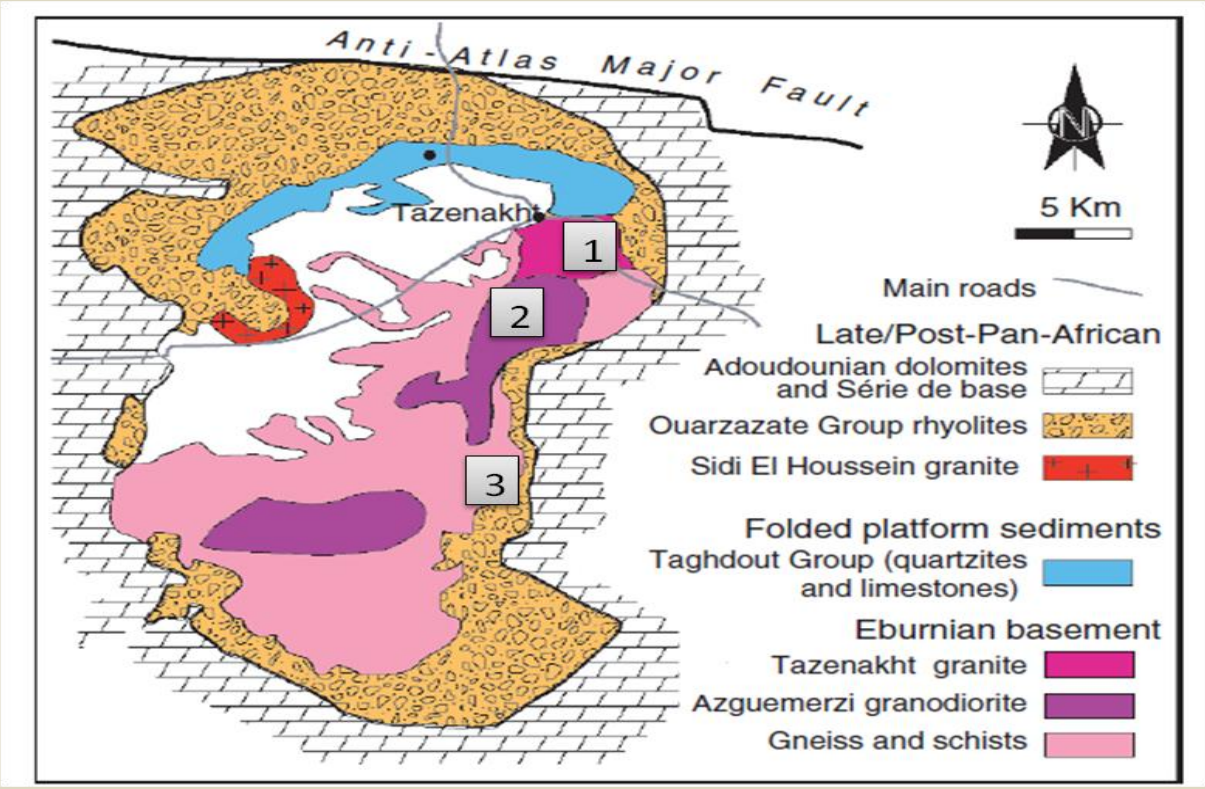
Field trip 2: Zenaga Inlier and Série de Ouarzazate

Excursion leaders: Prof. Zahour Ghalem and Prof. Oukassou Mustapha

The Zenaga inlier, located south of the South Atlas Fault, represents the northern margin of the Palaeoproterozoic continental terrane (West African Craton) in the Southwest separated by the "Major Fault of the Anti-Atlas" which was considered as the northern limit of the West African Cration. This suture has been traditionally viewed as containing two segments which are decorated by ophiolitic complexes and document the existence of oceanic crust in the Bou-Azzer and Siroua inliers in the central Anti-Atlas, which represents the limit between the northern rifted margin of the West African craton with a Neoproterozoic magmatic arc (Saghro) to the north (Saquaque et al., 1989a, b).

The main granitoid rocks of Zenga inlier originated during the Palaeoproterzoic Eburnian event, and were overprinted during the Pan-African orogeny. Some petrostructural studies (Ennih et *al*., 1999; 2001) aimed to determine the interference between Eburnian and Pan-African orogenic deformation and the effect of the Major Fault of the Anti-Atlas (MAAF) in the northern part of Zenaga mainly in the Tazenakht granite.

The Paleoproterozoic craton is mainly constituted by calk-alkaline granitoids in the Zenaga inlier which are intrusive into schists, micaschists, gneiss and migmatites. This granite are Azguemerzi granodiorite (2032 ± 5Ma) is situated in the south of the Zenaga inlier while the second is the Tazenakht monzogranite (2032 ± 11Ma; Thomas et *al*., 2001) located at the north near the Major Fault of the Anti-Atlas.



These field trips will also give the participants the opportunity of experiencing real Moroccan life, in Casablanca, Marrakech and Ouarzazate, which are among the most charming Moroccan cities.

Enjoy it!