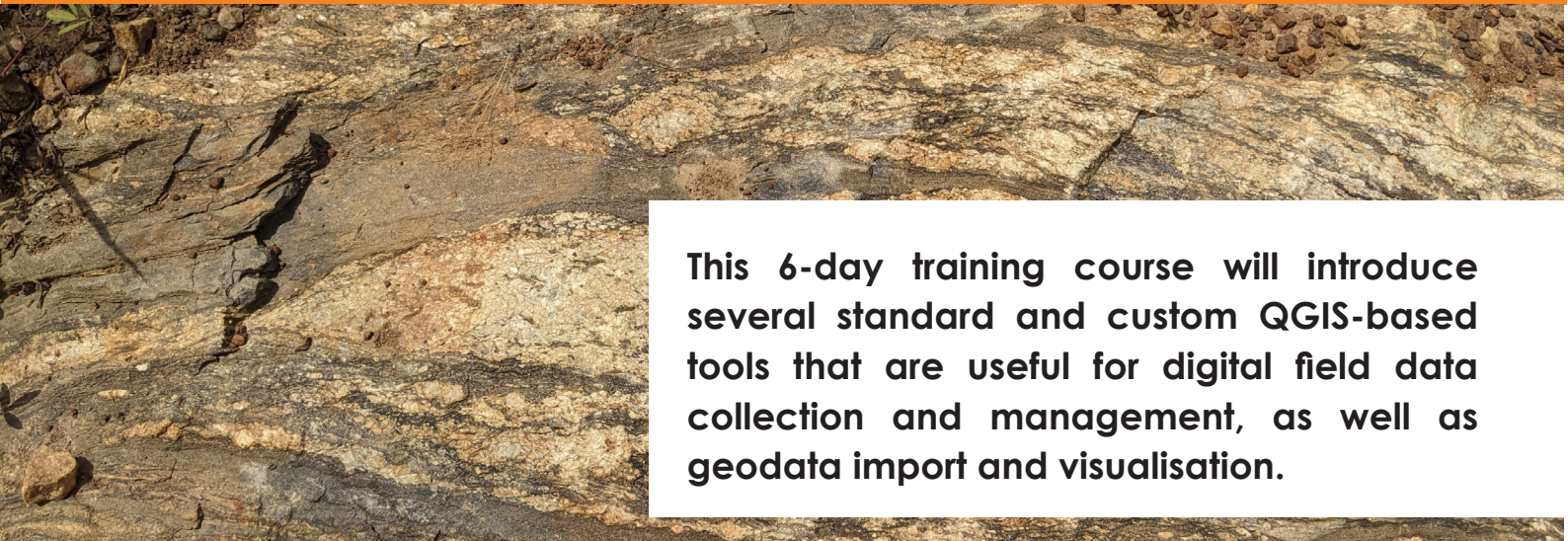


QGIS from the Office to the Field

WAXI / Agate Training

15th - 20th October 2024
Lome, Togo



This 6-day training course will introduce several standard and custom QGIS-based tools that are useful for digital field data collection and management, as well as geodata import and visualisation.

The advancements made in digital technologies over the last three decades, such as Global Positioning Systems (GPS), Geographical Information Systems (GIS), and portable hand-held devices for data collection, have led to the emergence of numerous GIS-based geological digital mapping tools. This has ushered in a new era for teaching the next generations of geologists, encouraging them to transition from the traditional paper-and-pencil approach for field data reporting towards combined data visualisation, collection, and management using GIS. This training will introduce the participants to several standards and custom QGIS-based tools, including the custom open-source QGIS-based GEOL-QMAPS digital mapping solution developed within the framework of the WAXI4 program.

The course includes practical sessions and a two-days field excursion in the southern Togolese part of the Neoproterozoic Benino-Nigerian shield.

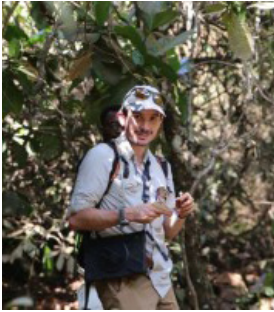
The course is aimed at students and exploration geologists, with preferably previous QGIS experience.

QGIS from the Office to the Field

Day	Course elements
Day 1 15/10/2024	Geodata Import and Visualisation in QGIS Introduction to the short course Practical 1.1 = Introduction to QGIS Practical 1.2 = Accessing Data over the Web Practical 1.3 = Import and Pre-Field Processing of Geodata
Day 2 16/10/2024	Integrating other Types of Data in QGIS Practical 2.1 = Geophysics Practical 2.2 = Drill Hole Data Practical 2.3 = Geochemical Data Practical 2.4 = Remote Sensing
Day 3 17/10/2024	Pre-Fieldwork Preparation of the GEOL-QMAPS Mapping Project in QGIS Practical 3.1 = Introduction to the QGIS-based, custom GEOL-QMAPS tools Practical 3.2 = Import of Existing Field Data using the custom GEOL-QMAPS plugin Practical 3.3 = QGIS Mapping Project Customisation using the custom GEOL-QMAPS plugin Practical 3.4 = Creating map themes and export to QField using the QGIS QFieldSync plugin
Days 4-5 18- 19/10/2024	Fieldwork in the southern Togolese part of the Neoproterozoic Benino-Nigerian shield Early depart from Sarakawa Hotel on the 18th. Visit of basement outcrops with a large diversity of metamorphic and igneous rocks providing a glimpse of the tectonic-magmatic-metamorphic evolution of the area. QField-assisted field data collection on appropriate outcrops using the GEOL-QMAPS QGIS project set up on Day 3.
Day 6 20/10/2024	Post-Fieldwork Data Processing Practical 6.1 = Import of Field Data to the General QGIS Database using the custom GEOL-QMAPS QGIS plugin Practical 6.2 = Data Editing, Visualisation and Export using the custom GEOL-QMAPS QGIS plugin and other QGIS tools Practical 6.3 = Geological Map Production and Export - Concluding remarks.

Course Leaders

Julien PERRET (University of Western Australia, Australia), Guillaume DUCLAUX (University of Côte d'Azur, France), Mark W. JESSELL (University of Western Australia, Australia), Yao AGBOSSOUMONDE (University of Lomé, Togo)



Julien Perret is Research Associate for the fourth stage of the West African eXploration Initiative (WAXI4) at the Centre for Exploration Targeting, UWA, Australia. He has been utilising structural geology to unravel the structural paragenesis and overall of mineralised camps across Sudan, Cote d'Ivoire, Ghana, Sierra Leone, and Senegal. Additionally, Julien is the primary developer of GEOL-QMAPS, a digital geological mapping solution based on QGIS.



Guillaume Duclaux is Associate Professor at University of Côte d'Azur, Nice, France. He studies tectonic processes in a variety of settings using both field geology and computational methods . Guillaume's research interests are divided between the secular evolution of tectonic processes and mineral systems, the development of 3D structures in the continental lithosphere, and surface response to deformation in active tectonic settings.



Mark Jessell, Professor at the Centre for Exploration Targeting at The University of Western Australia has a vast experience in interpretation and modelling of aeromagnetic, radiometric and other regional geophysical data in 2D and 3D. Mark is the main developer of the GEOL-QMAPS custom QGIS plugin.



Yao Agbossoumonde is Associate Professor at the Lomé University, Togo. His fields of expertise are mostly geochemistry, magmatic and metamorphic petrology, focusing on high-grade metamorphic record along Neoproterozoic suture zones. Yao notably demonstrates thorough knowledge of the Pan-African Dahomeyides orogenic belt in Ghana, Togo and Benin, where he has been conducted numerous field excursions for research and teaching purposes.

Information

Date:

15th to 20th October 2024

Duration:

6 days

Venue:

Hotel Sarakawa, Boulevard du Mono Lome, Togo.

<https://sarakawa-hotel.com/en/contacts-acces/>

+ 2 days field excursion in the southern part of Togo (overnight stay at Atakpamé).

Time:

From 8:30 to 17:00 every day, except for the field excursion. Note early departure from Lome on day 4. Exact time will be confirmed to the participants.

Language:

French and English

Registration Fees:

USD 2,100 per attendee for WAXI sponsors and USD 2,450 per attendee for non-WAXI sponsors.

The price includes lunchtime meals, training materials, and transport to and from the field trip. It does not include evening meals, accommodation (we will reserve the hotel in Atakpamé), or flights to and from Lome.

Registration deadline:

1st October 2024

Certificate of participation:

Participants will receive their certificate at the end of the training course.

Requirements for attendees:

Prior to the course, attendees have to install the QGIS software on their laptops, and the QField app on their iOS or Android mobile device(s) (smartphone or tablet).

As the course date approaches, attendees will receive instructions from course leaders regarding the versions that should be installed to meet the specifications of the tools that will be used during the course.



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Field data acquisition on QField using the GEOL-QMAPS solution

QGIS from the Office to the Field 15th to 20th October 2024, Lome, Togo Registration deadline 1st October 2024

Please complete this form and email it to Corinne.Debat@agate-project.org

We offer a 15% discount to participants who register for both the QGIS and the Structural Geophysics training course.

Company

Address

.....

Phone

Entity to invoice

Administrative Email contact

Attendee's Name 1.(first name and surname)

.....

Attendee's Name 2 (first name and surname)

.....

Attendee's Name 3.(first name and surname)

.....

Attendee's Name 4.(first name and surname)

.....

Total Registration Fees

US\$ 2,100 per person for WAXI sponsors &
US\$2,450 for non-WAXI sponsors

Currency of invoice: AUD

The organisers reserve the right to cancel the training if the minimum requirement of 10 participants is not met.