Digital Field Mapping:
Tools and Workflows to Manage and Exploit Geological Datasets in QGIS

AGATE PROJECT
Knowledge, Skills, Networks in Earth and Planetary Science

5-DAY PROFESSIONAL TRAINING COURSE
17 - 21 July 2026, Accra, Ghana

This 5-day course provides practical training in the use of open-source tools for digital geological mapping and field data workflows using QGIS/QField solutions, including GEOL-QMAPS and FieldMove.

Participants will learn practical methods for integrating diverse datasets, structuring digital mapping projects, and applying efficient tools to support exploration, geological fieldwork and post-processing.

What You Will Learn

- Import & process geological, geophysical, drill-hole and legacy field data in QGIS.
- Build structured digital mapping projects using a predefined GEOL-QMAPS template.
- Practical exercises on transferring mapping projects to the QField environment for field data capture.
- Process field data.
- Update the QGIS database after fieldwork.
- Produce publication- and report-ready geological maps.

Why Attend

- Hands-on training in QGIS tools tailored for geology and exploration.
- Open-source tools → no licensing fees.
- Practical experience integrating field data with office-based workflows.
- A complete skill set that helps streamline digital geological mapping and improve field data accessibility, consistency and re-usability.
- Learn to work with user friendly tools already widely adopted in the industry.

Program

Attendees can bring their own dataset to be used as training/demo material.

Day	Course Elements
Day 1	***Introduction / Review of QGIS Basics*** *General Introduction and Digital Geological Mapping Solutions* *Practical 1.1 = Review of Useful Basic QGIS Routines (1/2)*
Day 2	***Review of QGIS Basics / Geodata import and Visualisation*** *Practical 2.1 = Review of Useful Basic QGIS Routines (2/2)* *Practical 2.2 = Accessing Data over the Web*
Day3	***Import of Different Types of Data Practical*** *Practical 3.1 = Legacy Field Data Practical* *Practical 3.2 = Geophysical Data Practical* *Practical 3.3 = Drill Hole Data*
Day 4	***Preparation of a GEOL-QMAPS Mapping Project*** *Practical 4.1 = Import of Existing Field Data* *Practical 4.2 = QGIS Mapping Project Customisation* *Practical 4.3 = Creating Map Themes* *Practical 4.4 = Export to QField App and Data Collection Test*
Day 5	***Field Data Processing*** *Practical 5.1 = Import of Field Data to the General QGIS Database* *Practical 5.2 = Field Data Editing, Visualisation, Processing and Export* *Practical 5.3 = Geological Map Production and Export* *Concluding Remarks*

Course Leaders

Julien Perret: Research Associate, University of Western Australia (UWA).
Lead developer of GEOL-QMAPS, with extensive experience in digital mapping workflows across Sudan, Côte d'Ivoire, Ghana, Sierra Leone, and Senegal. Expert in structural geology, field data integration, and exploration-scale mapping.

Guillaume Duclaux: Associate Professor, Université Côte d'Azur.
Specialist in tectonics, structural geology, and computational modeling. Research focuses on crustal architecture, 3D geological modeling, and deformation process.

Information

Date:

17 to 21 July 2026 - (includes a Saturday and a Sunday).

Duration:

5 days

Venue:

Alisa Hotel, North Ridge, Accra, Ghana.

Time:

From 8:30 to 17:00 every day,

Language:

French and English

Registration Fees:

USD 2,250 per attendee. The fee includes morning and afternoon tea, lunch, and training materials. Payment must be completed before the start of the training. Any applicable country withholding taxes will be added to ensure the net amount received is USD 2,250.

Registration deadline:

1st April 2026

Certificate of participation:

Upon completion participants will receive a certificate of attendance.

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).

Detailed instructions will be provided closer to the course date.

Attendees can bring their own dataset to be used as training/ demo material.

Opportunity to attend the IASTG Conference 2026

The IASTG Conference will take place in Accra after this training course.
Why not extend your stay and attend the conference? Visit our website for more information.

Registration

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17 to 22 July 2026 - Accra, Ghana

Registration deadline 1st April 2026

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

Company Information

Company .....

Address .....

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Entity to invoice .....

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Administrative Email contact .....

Participants

Total number of Participants .....

Attendee Name + email.(First name and surname)

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Attendee Name + email.(First name and surname)

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Attendee Name + email(first name and surname)

.....

Attendee Name + email(first name and surname)

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Fees and Currency

	US$	AU$
Select your prefered invoicing currency		
Base registration Fee	2,250.00	3,395.00

Withholding Tax if applicable	%
Final amount Payable: price / (1- withholding tax%)	

The organisers reserve the right to cancel the training if the minimum requirement of 12 participants is not met.