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

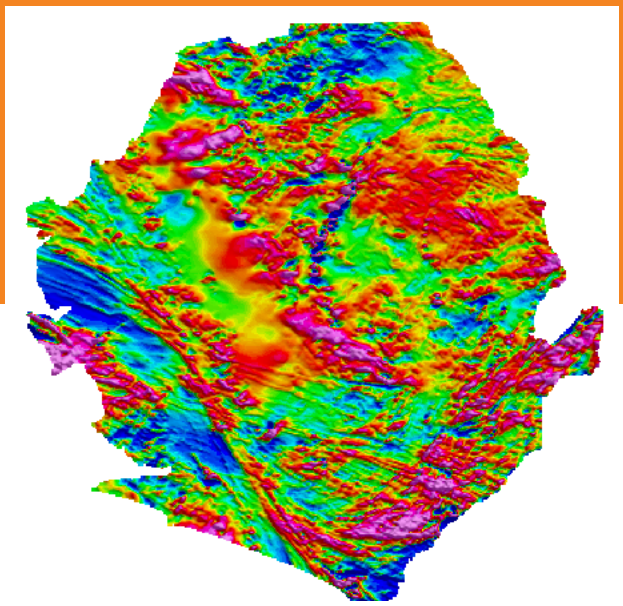
WAXI
West African Exploration Initiative

amira

Structural Geophysics

Agate/WAXI Training

23rd - 27thFeb 2023
Freetown, Sierra Leone

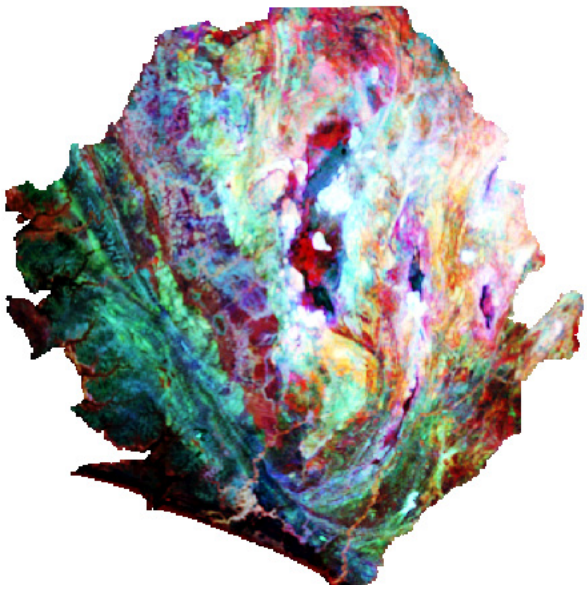


This 5 day training course will provide an introduction to modern laboratory based techniques applied to the regional geophysical data of the West African Craton, **including the newly-flown data from Sierra Leone**

This course is aimed at geologists wishing to improve their skill base in modern integrated Structural Geophysics mapping techniques.

Many regions in the world now are covered at a high-resolution by airborne geophysical data sets, including magnetic, electromagnetic, digital terrain models and radiometric surveys. When combined with multi-spectral satellite data, and of course the available geological observations, these geophysical data provide key constraints on our geological interpretation, in particular in ancient terrains.

This training course, organised by Mark Jessell (UWA) who has too many years experience of interpretation and modelling of aeromagnetic, radiometric and other regional geophysical data, is aimed at those people who would like to acquire the fundamental interpretation techniques needed to use very high resolution data sets and those who are faced with the problem of integrating their geological and geophysical data.



Participants will be trained on case studies using data from the region, **including the newly-flown data from Sierra Leone,** and are encouraged to bring their own regional datasets.

Programme

Day	Date	Course Element	Lecturer
Day 1	Lectures	1 Introduction: what can potential field data tell us about geology? 2 Geophysical principles; 3 Regional Geophysics and the Regolith	MWJ
	Laboratory exercises	Collaborative Case Study: Regolith	
Day 2	Lectures	4 Data processing and data degradation during processing 5 Data/Image filtering/processing – enhancing the geological signal	MWJ
	Laboratory exercises	6 Structural Geophysics Collaborative Case Study: Intepreting Structures	MWJ
Day 3	Lectures	7 Interpretation strategies 8 Petrophysics / lithologies	MWJ
	Laboratory exercises	**Presentation by NMA-SL on new regional data** **Collaborative case study using new Sierra Le-one**	
Day 4	Lectures	9 Structural Controls on Ore Deposits	MWJ
	Laboratory exercises	Collaborative Case Study Attendees' Data Sets	
Day 5	Lectures	10 Inversions: 2.D & 3D forward and inverse modeling	MWJ

** All practical training will use PC's provided by attendees.*

All relevant data will be provided, although attendees should have access to their own GIS software if possible, if not they will be provided with QGIS.

Information

All attendees will have the opportunity to participate in collaborative interpretations of their own data sets.

Course Content: Hands On Exercises

Attendees'Data Sets

Attendees wishing to provide datasets for discussion should prepare a 5 slide introduction to their area of interest so that the audience can understand the regional or local context of the data.

If digital data are available then both processing and interpretation procedures can be performed.

Course Leader: Mark Jessell

Professor at the Centre for Exploration Targeting at The University of Western Australia, Mark Jessell has a vast experience in interpretation and modelling of aeromagnetic, radiometric and other regional geophysical data in 2 and 3D.

Registration Fees

For the full 5 days of training, including training materials.

WAXI Sponsors US$1,500 per attendee
Non-WAXI sponsors AU$1,800 per attendee

Language

English and French

Duration

5 days, 3 hours/day lectures + 3 hours/day lab excercises.

Time

Freetown, Sierra Leone
9 am to 5 pm

Registration

Register and pay online on the Agate website, or using the form on the next page.

Certificate of Attendance

Upon completion, participants will receive a certificate of attendance

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AGATE/WAXI Structural Geophysics Course

18th- 22nd Feb 2023

Either complete this form or register online: https://agate-project.org/training-courses/short-courses/

Company .....

Address .....

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Phone .....

Administrative Email contact .....

Attendee's Name 1.....

Attendee's Name 2.....

Attendee's Name 3.....

Attendee's Name 4.....

Total Registration Fees .....

US$1,500 per person for WAXI sponsors &
US$1,800 for non-WAXI sponsors

Email: Corinne.Debat@agate-project.org

On confirmation of your places, we will ask you to transfer the registration fee to a bank account to be announced.