



Pre-Meeting Trip – SFT-02

TITLE: Paleozoic sequence (Neoproterozoic to Carboniferous) of the Valongo-Arouca region (Northern Portugal)

Leader: Artur Abreu Sá 1

¹ Universidade de Trás-os-Montes e Alto Douro

For additional information please contact Artur Abreu e Sá: asa@utad.pt; Mobile phone: 916670662

DATES: Monday, July 1st - Tuesday, July 2nd (two days field trip)

PRICE: 300 €

Number of participants: 25 to 50

SUMMARY:

This two-days field trip is planned to visit important Paleozoic localities in Northern Portugal. Starting from Lisbon, a trip by coach will carry participants to the Arouca Geopark territory, where will visited several stratigraphic aspects of the Neoproterozoic - Middle Cambrian sequence (Slate-Greywacke Complex). Also will be visited the strata of the Santa Justa Formation (Floian, Ordovician), with the interesting occurrences of typical trace fossils (Cruziana ichnofacies), the Darriwilian slates of the Valongo Formation, that have been quarried for decades providing some of the world's largest trilobites in the famous "Valério's quarry" and geosite museum. Also in the Geopark, will be visited the Llandovery (Silurian) lithologies, rich of graptolites, and the Gzhelian (Carboniferous) conglomerates. The activities for the second day will be centred on the Valongo anticline, with classic sections through the Santa Justa (Armorican Quartzite), Valongo and Sobrido Formations, the last of which exposes spectacular outcrops of Hirnantian glaciomarine diamictites. We will also visit some Silurian outcrops with abundant graptolithic fauna and Devonian outcrops with scarce brachiopods and trilobites. The visit will finished in São Pedro da Cova region, in the vicinity of the abandoned coal mines, in the late Carboniferous strata, that bearings abundant fossil flora and fauna.

DAILY DESCRIPTION OF THE FIELD TRIP

Day one (Monday, July 1st)

7:00 h – Depart from Lisbon

Coach trip from Lisbon to Arouca

Arouca – Alvarenga – Espiunca – Canelas

Dinner and overnight in Porto

Day two (Tuesday, July 2nd)

Porto – Valongo – Serra de Santa Justa – S. Pedro da Cova – Ermesinde

Coach trip from Ermesinde to Lisboa

20:00 - Estimated time of arrival at Lisbon