

**DOCTORATE OF THE CHARLES UNIVERSITY IN PRAGUE AWARDED BY THE FACULTY  
OF SCIENCE**

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REPORT MADE OUT BY: DE KEMP Eric

REGARDING THE AUTHORIZATION OF DEFENSE OF:

**METELKA Vaclav**

Thesis title: “Geophysical and remote sensing methodologies applied to the analysis of regolith and geology in Burkina Faso, West Africa”

**1°) GENERAL EVALUATION**

By comparison with recently defended PhD theses or PhD theses that you have personally heard of in the same field, do you think this one is:

◆ **WORTH BEING DEFENDED**

YES (without any changes)

*If yes, what would you say about the thesis:*

The work is exceptional in that it is an innovative example of an integration study applied to a challenging and complex geologic terrain. It contributes to the science of geo-mapping methodologies which properly developed in this case, to achieve significant geologic insight. It highlights a data driven approach through application of specific and appropriate types of data integration at the local and regional scales. In addition a much needed, new standard base line data (spectral library) was developed to characterize geology using remote sensing tools.

This effort will have impact on setting a new standard for how natural resources from the ancient cratonic regions of western Africa and other similar terrains, will be conducted in the future.

◆ **SCIENTIFIC LEVEL**

EXCEPTIONNAL

◆ **PRESENTATION**

EXCELLENT

.../...

**2°) CRITICAL REVIEW AND COMMENTS** (A detailed report may be attached, if needed, as an annex. The report has to be accompanied by the evaluation sheet supplied above)

This thesis is excellent. It is presented well with clear scientific goals and arguments. Many comments have already been made by myself throughout the publication process of 2 of the papers which hopefully have enhanced the already achieved good result.

DATE

SIGNATURE