

MISCADA and MDS boot camp – 30th April to 4th May 2024

Aim – to collect and wrangle spatial data for the Low Burn Hall Estate

Deliverable – a datacube; a presentation to us; and an individual report for marking criteria – see below.

What data will we give you?

- A base map of the estate
- MODIS satellite data
- In complete digital elevation model

What data will you collect?

- Resistivity cross-sections
- Infra-red images
- DEM

But – you are encouraged to find data sources for yourself

Work programme

Day 1 & 2 – data collection

Day 3 & 4 – wrangling and building the datacube.

Day 4 pm – presentation of datacube for marking

After day 4 – write up of individual report

Before starting the exercise

- Organise yourself in to teams – there should be a team for each form of data collection
- Agree on division of tasks as not all of you will be able to work in the field

Student facing document

Group project

Aim – to produce a datacube of spatio-temporal information to present to a client (eg. Woodland Trust)

The datacube will be based on the Low Burn Hall Woodland trust reserve and must combine the data collected in the field; the data provided at the start of the exercise; and data collected from the group's initiative. The assessment is in three parts:

- The datacube (30%)
- Group presentation (10%)
- Individual report (60%)

Marking criteria

The datacube –

- i) the completeness of the construction – does it contain all the data that could be collected and included? (33% marks)
- ii) The format – the manner in which the data is combined, for example all data on a common spatial reference frame (33% marks)
- iii) Usability – the datacube will be tested by a member of the marking team who was not part of the project. The datacube will have to be useable by the beginner (34% marks)

Group presentation –

- i) A 30 minute presentation to the teaching team
- ii) Include a demonstration of the datacube (30% marks)
- iii) Presentation structure and clarity (40% marks)
- iv) Presentation style and format (30% marks)

Individual report - The report should cover and will be in line with the common grading criteria for written reports in the MISCADA programme¹:

- i) Why did you choose the approach that you did? (40% marks).
- ii) What are the limitations of your approach? (40% marks)
- iii) What could you do differently with more time and resources? (20%marks)