UCD Soil Science

Environmental Measurement Exercise

This activity replaces the "Rosemount Exercise" mentioned in course notes.

View the sample content describing meteorological and other environmental monitoring techniques. Note that in each case there is a physical basis of the observation.

The assignment is to describe an environmental observation or measurement method. (You don't have to carry it out.) You can use <u>one</u> of these approaches:

Written desctiption:
>   Identify the **<u>Context</u>:** the background or problem, location, conditions, and objective of the measurement. **<u>Describe</u>** the measurement, so that a reader could carry it out, identifying instrumentation requirements, field layout, measurement conditions, and data format of the study. Explain the basic **<u>Theory</u>** of how it works, including the environmental phenomenon, and the physical basis of measurement. Maximum 500 words or 4 pages.

OR

Video:
>   **<u>Show</u>** how the measurement works. This should be clear and concise, and demonstrate thy physical basis of the observation. Maximum 2 minutes.

OR

Slideshow:
>   Identify the **<u>Context</u>:** the background or problem, location, conditions, and objective of the measurement. **<u>Show</u>** how the measurement works. Include all the information necessary for the viewer to understand the physical basis of the measurement. Maximum 6 slides.

Topics in the examples remain open in case you want to use them.

Use the most suitable format for your work, and submit or link to it; most file formats are fine. You can link to a post on a video hosting site, but do not make it available publicly either before or after assessment.

The presentation must be formal, detailed, and comprehensive, including images of the instrument, and the field setup as required. It must include your name and student number.

Submit on Brightspace by **22:00 on Friday 12-February 2021**. Do not exceed 150 seconds of screen time, six slides, or four pages with text.

This assignment is worth 15% of the module marks. A grading rubric is used, which should be viewed before preparing your submission.