

WSI Workshop: Advancing Sustainable Land Management through Intelligent Carbon Dynamics Monitoring

Venue: Room 1087/B44 University of Southampton Highfield Campus, Southampton SO17 1PS [[Google Map](#)]



Date: 10th June 2025

09:00 – 09:30 | Registration

Welcome and sign-in over coffee/tea.

09:30 – 09:35 | Welcome Introduction

Songyan – Brief opening and outline of the day.

09:35 – 09:50 | Opening Remarks

Jadu – Welcome address and overview of Southampton Geospatial & GeoData.

Session 1: Multidisciplinary Effort for Sustainable Grassland

09:50 – 10:05 | Agriculture Management

Laura – Agricultural land management and ecosystem sustainability (online).

10:05 – 10:20 | North Wyke Introduction

Louise – Overview of the Rothamsted Research North Wyke site.

10:20 – 10:35 | UKCEH Overview

Vasilis – Introduction to UKCEH and DALEC-Grass modelling.

10:35 – 10:45 | Game Theory in Ecosystem Management

Vahid – Recorded presentation.

10:45 – 11:10 | Coffee Break

Session 2: Update on GeoAI Grass Project

11:10 – 11:20 | Remote Sensing & AI for Carbon Dynamics

Songyan – Capturing carbon dynamics with remote sensing and hybrid AI modelling.

11:20 – 11:35 | WSI Website

Chris – GeoAI Grass website and user practical (<https://geoaigrass.geodata.uk/>)

11:35 – 11:50 | Website Practice & Questions

11:50 – 12:00 | Coffee Break

12:00 – 12:15 | Agent-based Simulations for Livestock Grazing

Cesar – NETLogo (<https://ccl.northwestern.edu/netlogo/>)

12:15 – 12:30 | Research Article

Ling – Updates on the research paper.

12:30 – 13:30 | Lunch Break

Session 3: Future Collaboration

13:30 – 14:30 | Group Discussion: Next Steps

All Participants – Open discussion on future directions for sustainable ecosystem management and research grants applications.