

<b>Mapping Environmental Assets</b>			
<b>Module Code:</b>	HSOR4011	<b>CAT credits:</b>	10
<b>Mode of delivery:</b>	Blended Learning	<b>NQF Level:</b>	4
<b>Owning Institute:</b>	Institute of Science and Environment	<b>HECoS Code:</b>	100517
<b>Validation Start Date:</b>	August 2022		

<b>Aims of the Module</b>
The aim of this module is to develop your skills in mapping environmental assets, particularly on upland farms, moorland and nature reserves

<b>Intended Learning Outcomes</b>
On successful completion, you will be able to:
1. Create a layered map of public goods for an upland farm, moorland area or nature reserve.
2. Select appropriate geographical information system (GIS) technology.
3. Access relevant publicly available data sets; analyse and extract relevant data.
4. Describe, and carry out as appropriate, suitable biodiversity and habitat baseline assessment and monitoring techniques.

<b>Indicative Module Content</b>
These aspects of your module content are shown as indicative of the approach planned and as such might reasonably be expected to change and be updated over time.
<ul style="list-style-type: none"> <li>• Introduction to key concepts such as biodiversity, public goods; and their significance</li> <li>• Collecting and using data: public data sets, primary data, introduction to geographical information systems</li> <li>• Creating a layered map of public goods for farms and moorland</li> <li>• Biodiversity &amp; habitat baseline assessment &amp; monitoring techniques</li> <li>• Extracting publicly available data sets and ground-truthing</li> <li>• Use of open source or pay-as-you-go GIS</li> </ul>

<b>Indicative Student Workload (hours)</b>	
Tutor Led Live	4
Practical Classes and Workshops	8
Fieldwork	8
Guided Independent Study	80

<b>Formative Assessment –</b>
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Formative assessment provides an opportunity for you to receive feedback on work as part of your learning for the module. Formative work does not have marks awarded that contribute to the final module mark.

1. A self-assessment exercise will be provided upon registration for the module, to be completed prior to the first taught session. This will guide the student through an audit of the key skills and knowledge encountered in the module. The outcomes will assist the student to select the most appropriate reference resources and allocate independent study time effectively. The outcomes will also assist the tutor in pitching and differentiating the teaching according to the needs and prior experiences of the cohort and individuals.
2. The module tutor will provide formative verbal feedback during practical classes/workshops and fieldwork and/or written formative comments on interim tasks (not forming part of the summative assessment).
3. Opportunities for formative feedback through peer discussion will be provided at times during workshops and live tutor-led sessions online.

### Summative Assessment –

Summative assessment provides the opportunity for you to demonstrate that you have met the learning outcomes for the module.

	Length/size of the assessment	ILOs assessed	% Weighting	Is anonymous marking possible?	Core element?‡
Set Exercise	1500 word equivalent	All	pass/fail	No	Yes

‡ By default, your final module grade will be an aggregated mark. However, if this box is marked 'yes,' then you *must also* successfully pass this element of assessment in order to pass the module, regardless of the overall aggregated mark. If core element(s) of assessment are failed, the module will not be eligible for compensation. Further information on module compensation is available in the Academic Regulations.

#### Set exercise:

Layered map with 1000 word description

#### Marking

The Programme Team have taken the following steps to remove unconscious bias from the assessment process:

- Diversity of prior experience, academic attainment and academic confidence among students joining this module is expected.
- Opportunities to develop the further skills and knowledge required to pass assessment will be provided within the module to all students.
- The assessment methods are chosen to allow flexibility in how students demonstrate the learning outcomes.
- An assessment rubric will be developed to assist in deciding the extent to which learning outcomes are demonstrated, limiting the subjectivity of assessment decisions.

#### Reassessment

Reassessment in the failed component(s) will be undertaken as stated in the Academic Regulations.

#### Compensation

This module is **not** eligible for compensation (condonation) as a marginal fail within the limits set out in the Academic Regulations.

### Indicative Core Bibliography

#### One List

[https://eu.alma.exlibrisgroup.com/leganto/public/44UOC\\_INST/lists?courseCode=HSOR4011&auth=SAML](https://eu.alma.exlibrisgroup.com/leganto/public/44UOC_INST/lists?courseCode=HSOR4011&auth=SAML)

Essential reference resources for this module, listed below are publicly available, free of charge, online. This allows for the continued use of the resources after completion of studies.

Holt, A. and Morris, J. (2020) *Plugging the income gap: Assessing environmental options for upland farms: A case study in Pendle Hill, Lancashire*. Available at: [https://www.pendlehillproject.com/sites/default/files/images/FINAL\\_Pendle%20Hill%20Whats%20a%20Hill%20Worth%20Report\\_130121.pdf](https://www.pendlehillproject.com/sites/default/files/images/FINAL_Pendle%20Hill%20Whats%20a%20Hill%20Worth%20Report_130121.pdf)

Land App (2021) *Using spatial data to prepare for the future of land management*. Available at: <https://thelandapp.com/2021/10/08/using-spatial-data-to-prepare-for-the-future-of-land-management/>

Natural England (2011) *Mapping Values: Ecosystem*. NE209. Available at: <http://publications.naturalengland.org.uk/publication/47001>

Phelps, J., Marshall, C., Geerah, D. and Robinson, A. (2021) *ELM – The Catalyst: Case Study*. Proposal 22. Available at: [https://docs.google.com/document/d/1QpSkb10R4kwMI03TY4NQz-ACum8xG\\_0e6by25PY-AqQ/edit](https://docs.google.com/document/d/1QpSkb10R4kwMI03TY4NQz-ACum8xG_0e6by25PY-AqQ/edit)

*UK Habitat Classification Documents V1.1* (2018-2022) Available at: <https://ukhab.org/ukhab-documentation/> **[Note: requires free registration with UK Hab to access]**

### Stand-Alone Study

Students who successfully complete this module as a stand-alone module will be eligible for a University transcript of credit.