



METADATA - PROPERTIES

IDENTIFICATION

TITLE * 	Scotland Habitat and Land Cover Map - 2024 - EUNIS Level 2
ABSTRACT * 	Habitat and land cover map created using AI to classify satellite data to EUNIS by Space Intelligence in partnership with NatureScot. This dataset contains four layers: A EUNIS level 1 classification of Scotland's land cover for the year 2024; a EUNIS level 2 classification of Scotland's land cover for the year 2024; a Level 2 second class prediction map and a change map, which provides predicted land cover changes that occurred between 2022 and 2024. The datasets are at 10m resolution and form part of a time series of layers, the others being 20m resolution rasters from 2019 and 2020 and 2022.
REFERENCE DATES * 	Creation 2026-04-14 Publication 2026-04-14
METADATA DATE * 	2026-04-27

RESOURCE CONTACTS

POINTS OF CONTACT * 	PointOfContact
	OrganisationNatureScot Email addressLynsey.Thomson@nature.scot Position nameEnvironmental Data and Innovative Technologies Officer Individual nameLynsey Thomson

PointOfContact ?

Organisation	Space Intelligence
Email address	ed@space-intelligence.com
Individual name	Ed Mitchard

 CLASSIFICATION

TOPIC CATEGORIES *



2 SELECTED

Biota

Flora and/or fauna in natural environment
Examples: wildlife, vegetation, biological sciences, ecology, sea-life, habitat

Environment

Environmental resources, protection and conservation
Examples: environmental pollution, waste storage and treatment, environmental impact assessment, monitoring environmental risk, nature reserves, landscape

EU INSPIRE THEMES *



4 SELECTED

Annex 2 - Land Cover

Physical and biological cover of the earth's surface including artificial surfaces, agricultural areas, forests, (semi-)natural areas, wetlands, water bodies

Annex 3 - Bio-Geographical Regions

Areas of relatively homogeneous ecological conditions with common characteristics

Annex 3 - Habitats And Biotopes

Geographical areas characterised by specific ecological conditions, processes, structure, and (life support) functions that physically support the organisms that live there. Includes terrestrial and aquatic areas distinguished by geographical, abiotic and biotic features, whether entirely natural or semi-natural

Annex 3 - Land Use

Territory characterised according to its current and future planned functional dimension or socio-

economic purpose (e.g. residential, industrial, commercial, agricultural, forestry, recreational)

KEYWORDS *



1 SELECTED

GEMET - CONCEPTS, VERSION 2.4

habitat



CONSTRAINTS

LEGAL CONSTRAINTS *



No Limitations To Public Access

There are no limitations on public access to spatial data sets and services.

USE LIMITATIONS *



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RESOURCE DETAILS

LINEAGE *



Training data were collected through using a combination of the following sources:

- Habitat Map of Scotland (ground polygons)
- 2022 National Forest Inventory
- Ordnance Survey
- High resolution imagery

In all cases the ground data were not used naively: a careful combination of at least two data sources were used to create each polygon, and checking against recent high resolution imagery to ensure each polygon was 'pure' (i.e. included only one class) and up to date

(for example, if it was a forest polygon, the trees had not been cleared since the data were collected).

Satellite remote sensing datasets used for mapping were Optical Sentinel 2 (S2), Synthetic Aperture Radar (SAR) Sentinel-1, descending and ascending ALOS-PALSAR 2. A complex set of machine learning algorithms were used to produce a Prediction Model, and ultimately a prediction of a class for each pixel.

Through the project duration the sophistication of the models used increased, increasing accuracy and efficiency. For commercial reasons the details of the final algorithms used will not be revealed here.

Further information about the data lineage is provided in the accompanying report.

The LEVEL 2 land cover files have the following valid pixel values:

- 0: NO DATA
- 1: P
- 2: Q1
- 3: Q2
- 4: Q4
- 5: R1
- 6: R2
- 7: R3
- 8: R4
- 9: R5
- 10: S2
- 11: S3
- 12: S4
- 13: S9
- 14: T1
- 15: T3M
- 16: T3N
- 17: T351
- 18: T4
- 19: U2
- 20: U3
- 21: V1
- 22: J

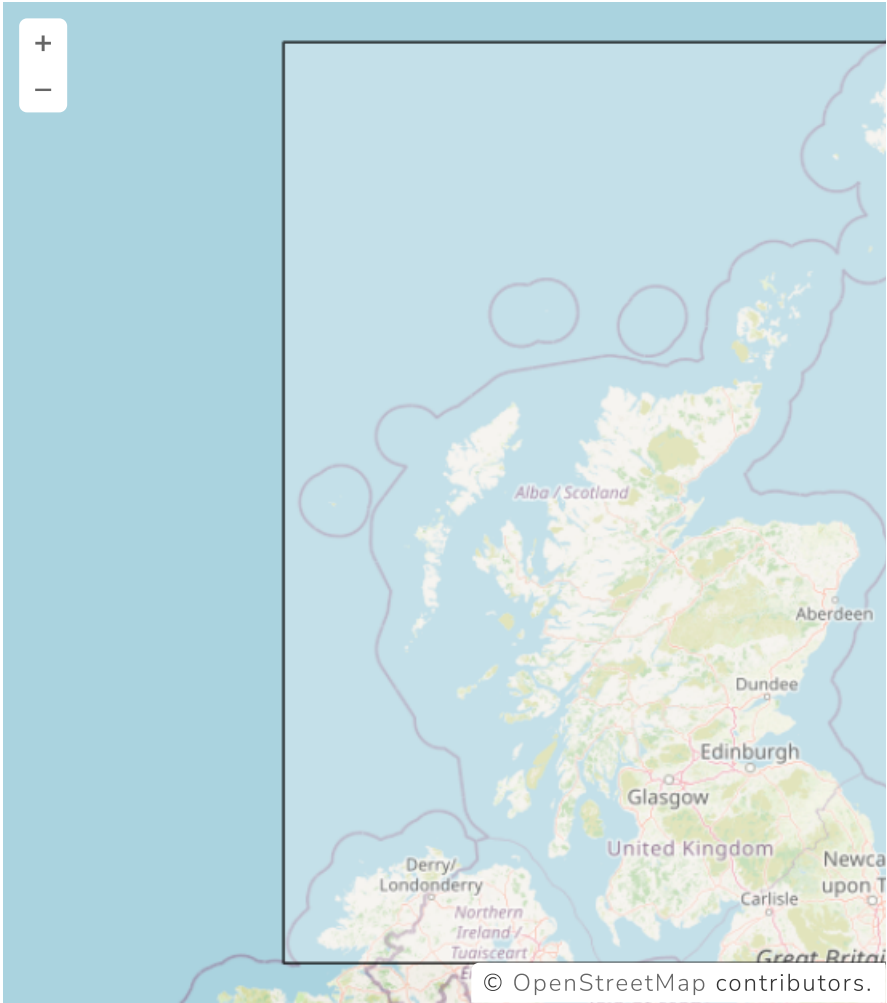
- 23: NOT USED
- 24: OW
- 25: MA4
- 26: N1
- 27: N2
- 28: N3
- 29: V15

UPDATE FREQUENCY *
 irregular

SCALE / RESOLUTION *
 Resolution: 10 metres

COORDINATE SYSTEM(S) *
 OSGB 1936 / British National Grid (EPSG:27700)
1 SELECTED

GEOGRAPHIC EXTENT(S) *
 N: 60.8665, E: -0.7046, S: 54.5131, W: -9.2305
(WGS84 lat/lon)



TEMPORAL EXTENT(S) *
 ITEM 1
Start: 2024-01-01

End: 2024-12-31

ALTERNATE TITLE(S)



RESOURCE LANGUAGE * English



DATA TYPE * grid



RESOURCE TYPE * dataset



DISTRIBUTION

PUBLISHED FORMATS * GeoTIFF 1.1



1 SELECTED

WEB LINKS



0 SELECTED

DISTRIBUTOR CONTACTS



Distributor ?

Organisation NatureScot

Email address data_supply@nature.scot

Country United Kingdom



METADATA INFO

LANGUAGE * English



POINTS OF CONTACT *



PointOfContact ?

Organisation NatureScot

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